Oracle® Enterprise Manager

Licensing Information User Manual

24ai Release 1 (24.1)
F97234-06
August 2025

Oracle Enterprise Manager Licensing Information User Manual, 24ai Release 1 (24.1)

F97234-06

Copyright © 2015, 2025, Oracle and/or its affiliates.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software, software documentation, data (as defined in the Federal Acquisition Regulation), or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software," "commercial computer software documentation," or "limited rights data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle®, Java, MySQL, and NetSuite are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

Preface

Audience i
Documentation Accessibility i
Related Resources i
Conventions ii

1 Introduction to Oracle Enterprise Manager Licensing

License Authorization Requirement 1
Enabling and Disabling Management Packs in Oracle Enterprise Manager 1
Displaying Management Pack Information in Oracle Enterprise Manager 2
Additional Database and Fusion Middleware Information 3
Oracle Enterprise Manager Restricted-use License 3

2 Database and Engineered Systems Management

Oracle Diagnostics Pack 1
Oracle Tuning Pack 6
Database Lifecycle Management Pack for Oracle Database 8
Oracle Data Masking and Subsetting Pack 26
Oracle Real Application Testing 28
Exadata Management Pack 29
Zero Data Loss Recovery Appliance Management Pack 32
Legacy: Configuration Management Pack for Oracle Database 34
Legacy: Change Management Pack for Oracle Database 42
Legacy: Provisioning and Patch Automation Pack for Oracle Database 45

3 Oracle Middleware Enterprise Management

WebLogic Server Management Pack Enterprise Edition 1
SOA Management Pack Enterprise Edition 19
Management Pack for WebCenter 23
Management Pack for Oracle Coherence 27
Management Pack for Oracle Data Integrator 29

Copyright © 2015, 2025, Oracle and/or its affiliates.

Business Intelligence Management Pack 31

4 Cloud Management

Oracle Cloud Management Pack for Oracle Database 1

5 Identity Management Enterprise Management

Management Pack Plus for Identity Management 1

6 Other Infrastructure Management

Configuration Management Pack for Applications 1
Management Pack for Non-Oracle Middleware 8
System Monitoring Plug-ins for Non-Oracle Middleware 11
System Monitoring Plug-ins for Non-Oracle Databases 16
Oracle Enterprise Manager for MySQL 18

7 Packaged Application Management

Application Management Suite for Siebel 1
Application Management Suite for Oracle E-Business Suite 12
Application Management Suite for JD Edwards EnterpriseOne 23
Application Management Suite for PeopleSoft Enterprise 32

8 End-User Monitoring

Enterprise Manager Service Level Management 1

9 Oracle Cloud Infrastructure Integration

Ops Insights 1

10 Enterprise Manager Base Functionality

Base Framework Feature Summary 1
Base Database Management Feature Summary 3
Base Middleware Management Feature Summary 4
Base Engineered Systems Management Feature Summary 5
Exadata Management Features 5
Exalogic Management Features 6
Private Cloud Appliance Management Features 6

Copyright © 2015, 2025, Oracle and/or its affiliates.

Server, Storage, and Virtualization Management Feature Summary 6

A Third-Party Licenses for Oracle Enterprise Manager

Apache Software Foundation Licenses, Version 2.0 A-4
Bouncy Castle Inc. - bcpkix-jdk15to18 License A-8
CERN - Colt License A-8
Coda Hale and Yammer, Inc. - dropwizard-jersey License A-8
Coda Hale and Yammer, Inc. - Dropwizard-assets License A-37
Coda Hale and Yammer, Inc. - DropWizard-core License A-53
Codehaus - Jettison License A-77
CPAN - Net-DNS License A-77
CPAN - perl module: IO-tty License A-77
Eclipse Foundation - Jakarta RESTful Web Services License A-80
Eclipse Foundation - Jakarta Bean Validation API License A-92
Eclipse Foundation - Jakarta Activation API (JAF) License A-93
Eclipse Foundation - hk2-locator License A-94
Eclipse Foundation - jersey-server License A-121
Eclipse Foundation - jersey-media-multipart License A-169
Eclipse Foundation - Jakarta Annotations API License A-187
Eclipse Foundation - jersey-common License A-198
Eclipse Foundation - jersey-client License A-214
Eclipse Foundation - Jetty License A-222
Eclipse Foundation - hk2-api License A-226
FasterXML, LLC - jackson-module-afterburner License A-234
FasterXML, LLC - Jackson Annotations License A-236
FasterXML, LLC - Jackson Databind License A-236
FasterXML, LLC - jackson-datatype-jdk8 License A-239
FasterXML, LLC - Jackson Core License A-242
GlassFish - hk2-utils License A-244
Glen Smith - OpenCSV License A-257
Google Inc. - Guice License A-258
Info-ZIP - UnZip License A-263
Info-ZIP - Zip License A-264
JS Foundation - JQuery License A-265
Marc Prud'hommeaux - JLine License A-266
Marijn Haverbeke - CodeMirror License A-278
MIT - JsonSurfer License A-279
Nodeca - Pako License A-279
Open Source - Standard Performance Evaluation Corporation (SPEC) CPU 2017 benchmark results License A-280
Oracle - weblogic-deploy-tooling License A-290

Copyright © 2015, 2025, Oracle and/or its affiliates.

Project Lombok License A-292
Python Software Foundation - Jython License A-294
QOS.ch - slf4j-api License A-326
SnakeYAML.org - SnakeYAML License A-326
SNMP4J.org - SNMP4J License A-327
SNMP4J.org - SNMP4J Agent License A-327
Stephen Colebourne - Joda Time License A-328
Tatsuhiro Tsujikawa - Argparse4j License A-328
Terence Parr - ANTLR4 Java Runtime License A-329
The Apache Software Foundation - HttpComponents HttpClient License A-329
The Apache Software Foundation - Commons IO License A-337
The Apache Software Foundation - Commons Collections License A-337
The Apache Software Foundation - Commons Logging License A-337
The Apache Software Foundation - Commons Lang License A-337
The Apache Software Foundation - Commons Text License A-338
The Apache Software Foundation - Commons Math License A-338
The Apache Software Foundation - log4j-1.2-api License A-342
The Apache Software Foundation - Log4j-API License A-343
The Apache Software Foundation - log4j-core License A-343
The Apache Software Foundation - Mina SSHD-core License A-344
The Apache Software Foundation - Mina SSHD-sftp License A-345
The Apache Software Foundation - Mina SSHD-common License A-347
The Apache Software Foundation - Xerces2 Java License A-348
The Apache Software Foundation - httpclient5 License A-348
The Perl Foundation - Perl License A-356
Typesafe Inc. - Typesafe config License A-411
Wildfly JBoss Application Server - wildfly-client-all License A-412

Index

Copyright © 2015, 2025, Oracle and/or its affiliates.

Preface

This document, which is part of the Program Documentation under the terms of your Oracle licensing agreement, is intended to help you understand the features, functionality, and options available for Oracle Programs. If you have questions about licensing needs, contact your Oracle sales representative or refer to the resources listed in Related Resources for more information.

Oracle Enterprise Manager is available with a base set of functionalities and additional licensable options suitable for various deployments and configurations. This manual provides information on all these Enterprise Manager capabilities.

This Preface contains the following topics:

- Audience
- Documentation Accessibility
- Related Resources
- Conventions

Audience

This book is intended for all purchasers of Oracle Enterprise Manager 24ai.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Resources

For more information, see the following documents:

- *Oracle Database Licensing Information*
- *Oracle Application Server Licensing Information*
- *Oracle Enterprise Manager Introduction*

You can access these documents from the Oracle Help Center:

http://docs.oracle.com/en/

Copyright © 2015, 2025, Oracle and/or its affiliates.

Additionally, the Oracle Software Investment Guide is available for downloading at:

http://www.oracle.com/us/corporate/pricing/software-investment-guide/index.html

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Copyright © 2015, 2025, Oracle and/or its affiliates.

1

Introduction to Oracle Enterprise Manager Licensing

Oracle Enterprise Manager is Oracle's platform for monitoring and managing your entire enterprise: databases, engineered systems, software or hardware, middleware and applications, on-premises or in the cloud. It couples a potent, top-down monitoring approach to delivering the highest quality of service for applications with a cost-effective automated configuration management, provisioning, and administrative solution. This powerful combination provides unequaled management for any size Oracle data center.
Oracle also offers several options, management packs, management plug-ins, and other products that enhance the capabilities of Oracle Enterprise Manager for specific purposes. This guide describes the separately licensed Oracle Enterprise Manager management packs, management plug-ins, and other products you can purchase to enhance the capabilities of Oracle Enterprise Manager in specific environments. This guide contains the following chapters and appendix:

- Database and Engineered Systems Management
- Oracle Middleware Enterprise Management
- Cloud Management
- Identity Management Enterprise Management
- Other Infrastructure Management
- Packaged Application Management
- End-User Monitoring
- Enterprise Manager Base Functionality
- Third-Party Licenses for Oracle Enterprise Manager

License Authorization Requirement

You can use the options, management packs, reports, licensed repository views, or Command Line Interface (CLI) verbs described in these chapters **only** with the appropriate licenses. Although these options, management packs, or products may be included in product CDs or downloads, or described in documentation that you receive, this does not authorize you to use them without the appropriate licenses.

Enabling and Disabling Management Packs in Oracle Enterprise Manager

To enable or disable the functionality for most packs in Oracle Enterprise Manager 24ai:

1. Log in to Oracle Enterprise Manager as a super administrator.
2. Open the navigation menu, select **Setup**, **Management Packs**, and then select **Management Pack Access**.

Copyright © 2015, 2025, Oracle and/or its affiliates.

The **Management Pack Access** page allows you to enable or disable access for each Management Pack on each listed target. Select **Licensable Targets** (default) or **All Targets** to view management pack access information. The **Pack Access** view options are:

- **Target Based** - For each target listed, you can enable or disable the management packs associated with the target. For the target listed in the **Name** column, select the management packs for which you have access and click the box for that pack.

  For a new target, click the box in the **Pack Access Agreed** column to agree to the terms of the licensing agreement. The Pack Access Agreed option is available for selection only for a newly added target for which you have not accepted the terms of the Licensing Agreement. By default, the **Pack Access Agreed** option is not selected.

  Click **Apply** to save your changes.

- **Pack Based Batch Update** - You can enable or disable management packs as a group across all licensable targets or for a specific target type. Select the type from the drop-down list. The **Available Packs** list will update based on your selection.

  Select the pack you want to enable/disable. Hold the Control key to select multiple packs. Click **Move** and then either the **Enable** or **Disable** access options.

  Click **Apply** to save your changes.

- **Default Settings** - You do not have to manually enable or disable management packs every time a new target is discovered. By using the **Default Settings** feature, you can define for each target type what packs a new target will be entitled to upon discovery.

  For example, if you add an additional database target, then all associated packs (such as, Oracle Database Lifecycle Management Pack, Database Tuning Pack) will be automatically assigned to the newly discovered database target. If you do not want these packs automatically enabled for new targets, you must disable **Default Settings** for the associated packs.

  Select the pack you want to enable/disable. Hold the Control key to select multiple packs. Click **Move** and then either the **Enable** or **Disable** options. By default, **Default Settings** is enabled.

  If you disable any pack, it will appear in the **Default Settings Disabled List**. Both the management pack name and the associated type will be included. Also, all targets of the associated target type discovered in the future will not get the pack by default.

  Click **Apply** to save your changes.

When you disable a Management Pack, links that are part of that pack will either be disabled or, when a link is clicked, a message will indicate that the associated pack is not licensed for use. After performing the previous steps to disable a pack, any administrator who logs in to Oracle Enterprise Manager 24ai cannot access any Management Pack functionality that you have disabled.

Displaying Management Pack Information in Oracle Enterprise Manager

Oracle Enterprise Manager indicates licenses by displaying an abbreviation of the management pack. This feature is not enabled by default and to enable it:

1. Go to the **Oracle Enterprise Manager** home page.
2. Open the navigation menu, select **Setup**, **Management Packs**, and then select **Enable Annotations**.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Once enabled, you can go to a target's home page, select the menus, and the management pack abbreviation is displayed next to the menu options that require a management pack. For example, if you enable annotations and go to the home page of a Database target and select the **Performance** menu, **DD** is displayed next to the **Performance Home** menu option. **DD** is the abbreviation of the Database Diagnostics Pack.

You can also select **Setup**, then **Management Packs** and:

- Select **Packs for this Page** to view the **Management Packs for this Page** dialog box, which provides information regarding the license pack required for the page you are on.
- Select **License Information** to view the list of management packs and information such as the abbreviation, name, and a brief description of the pack.

Additional Database and Fusion Middleware Information

For additional information about licensed products associated with either Oracle Database, Oracle Fusion Middleware, or Oracle WebLogic Server, see the corresponding licensing information available in the Oracle Help Center:

https://docs.oracle.com/en/

Oracle Enterprise Manager Restricted-use License

- Oracle Enterprise Manager includes a restricted-use license of the Oracle Database Enterprise Edition for use only with the Oracle Management Repository as well as with the following complementary repositories used by Oracle Enterprise Manager: Always-on Monitoring Repository, AWR Warehouse, Ops Center, Load Testing, and Test Manager.

  Any use of Oracle Database options by Oracle Enterprise Manager's SYSMAN schema is included with the restricted-use license and does not require a separate license.

  Additional database options or additional servers for disaster recovery require separate licensing. Customers receive one single-instance database with Enterprise Manager, or RMAN, repository. To protect the repository with Data Guard, customers need to purchase a license for the standby site. To protect the repository with Oracle Real Application Clusters, customers must license the second node for the database, and both nodes require an Oracle Real Application Clusters license.
- Oracle Enterprise Manager includes a restricted-use license of the Oracle WebLogic Server for use with Oracle Enterprise Manager functions and interfaces only.
- A restricted-use license for WebLogic clustering is included to support the deployment of a cluster of Oracle Analytics Servers, only when used with Oracle Enterprise Manager.
- Oracle Enterprise Manager includes restricted use of Oracle Analytics Server and Oracle Analytics Server for mobile web for use with Oracle Enterprise Manager functions and interfaces only. This restricted Oracle Analytics Sever license will allow reporting only against the Oracle Enterprise Manager repository and against data dictionary (including AWR and AWR Warehousing data) of target databases. The restricted-use license covers the monitoring of the FMW domain of OAS through Oracle Enterprise Manager. In order to report against other data sources, it is necessary to have Oracle Analytics Server license.

Copyright © 2015, 2025, Oracle and/or its affiliates.

> **Note**
>
> Some Oracle Enterprise Manager management packs include Oracle Analytics Server reports that use a different data source. The license to use these reports is provided as part of the license for the relevant management pack. More details on these reports are provided in the relevant chapter of this document.

For more information, see Oracle Analytics Server Technical Brief.

- Restricted-use license of Oracle ZFS Storage Appliance Cloning (Part #7102338) is included with Oracle Enterprise Manager Snap Clone, a feature of Oracle Cloud Management Pack for Oracle Database.

Copyright © 2015, 2025, Oracle and/or its affiliates.

2

Database and Engineered Systems Management

This chapter describes the management packs offered by Enterprise Manager in support of Oracle Database and Engineered Systems. The following management packs are included:

- Oracle Diagnostics Pack
- Oracle Tuning Pack
- Database Lifecycle Management Pack for Oracle Database
- Oracle Data Masking and Subsetting Pack
- Oracle Real Application Testing
- Exadata Management Pack
- Zero Data Loss Recovery Appliance Management Pack
- Legacy: Configuration Management Pack for Oracle Database
- Legacy: Change Management Pack for Oracle Database
- Legacy: Provisioning and Patch Automation Pack for Oracle Database

These management packs can be purchased only with Enterprise Edition. The features in these packs are accessible through Oracle Enterprise Manager, Oracle Enterprise Manager Database Express, and APIs provided with Oracle Database software.

For information on the Oracle Databases certified for use with Oracle Enterprise Manager:

1. Sign in to My Oracle Support and click the **Certifications** tab.
2. In the **Certification Search** region:
   - Select **Enterprise Manager Base Platform - OMS** from the **Product** list.
   - Select the release you are interested in from the **Release** list.
3. Click **Search**.

The certified databases and versions are displayed. For more information, go to the Oracle Database Documentation page and see the *Oracle Database Licensing Information User Manual* for the Oracle Database version you are interested in.

Oracle Diagnostics Pack

The Oracle Diagnostics Pack provides automatic performance diagnostic and advanced system monitoring functionality. The following table describes this management pack offered by Enterprise Manager:

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Diagnostics Pack	Features	The Oracle Diagnostics Pack includes the following features: • Performance monitoring and diagnostics. • Automatic Workload Repository (AWR) that captures statistics automatically, including snapshot data, active session history data, and workload reports. • AWR Warehouse to seamlessly retain AWR data beyond the default retention period and perform historical performance analysis tasks using Active Session History (ASH) Analytics, AWR, and Compare Period Reports. • AWR Warehouse Diagnosability is a part of AWR warehouse and it proactively identifies the points of failure after the AWR warehouse is configured and the ETL process has started running between the source database and warehouse, by running a number of tests on the AWR warehouse or selecting a set of sources and determining the health of the AWR warehouse configuration. • Automatic Database Diagnostic Monitor (ADDM) for performance analysis based on AWR data. • Real Time ADDM to allow analysis of transient performance issues and hung databases. • ADDM Spotlight provides insights on workload tuning recommendations by analyzing ADDM data over an extended period of time. This enables administrators to confidently implement recommendations by identifying ones that have significant impact on database performance. • Active Session History (ASH) providing an "Always-On" capture of database performance activity using one-second samples of the session state. • ASH analytics provides insight to the database workload profile across various performance dimensions using ASH data. • Performance Hub provides a single view of database performance with access to ADDM, SQL Tuning, Real-Time SQL Monitoring, and ASH Analytics under the same hood. • Top Activity Lite is a simplified yet highly efficient mode of Performance Hub that supports real-time performance monitoring of database activity in a single view for easy visualization of issues. • Replay Compare Period Report provides accurate performance analysis using the ASH infrastructure for capture/replay sessions. • Exadata Cell Grid Administration • Exadata Cell Grid Performance • Exadata Cell Group Health Overview Page • Exadata Resource Utilization • Blackouts to suspend monitoring on targets to support scheduled maintenance periods. This includes the use of Blackouts in the Enterprise Manager console, EMCLI and REST APIs. • Notifications that define and use different notification methods including e-mail, OS scripts, PL/SQL procedures, SNMP traps, Webhooks and Slack. Also includes repeat

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
		notifications, use of notification-related actions in incident rule sets, and administrator notification schedules. • Metric and Alert/Event History. This includes the use of metrics in the Enterprise Manager console, EMCLI and REST APIs. • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Management Connectors, such as ticketing connectors and event connectors, integrate Enterprise Manager with other management systems. Ticketing connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other event management systems. • Dynamic metric baselines and Adaptive metric thresholds • Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets for standardization. This includes the use of Monitoring Templates in the Enterprise Manager console and EMCLI. • Template Collections (with Administration Groups) automate the deployment of management settings on targets as they join the group. This includes the use of Template Collections in the Enterprise Manager console and EMCLI. • Dynamic Runbooks enable subject matter experts to encapsulate best practice steps for diagnosing and resolving issues into a runbook that can be executed directly inside Enterprise Manager. • Event Compression reduces incidents by correlating and combining related events into a smaller set of incidents. • Bottleneck detection and Component top wait event analysis • Memory access mode to retrieve performance statistics directly from the Shared Global Area (SGA). • Automatic Workload Repository (AWR) Hub consolidates AWR snapshots from one or more Autonomous Databases and also provides the ability to generate AWR Reports for any database uploading snapshots to the AWR Hub.
Oracle Diagnostics Pack	Feature Requirements	In order to use the features listed above, you must purchase licenses for Oracle Diagnostics Pack. The `CONTROL_MANAGEMENT_PACK_ACCESS` initialization parameter controls access to Oracle Diagnostics Pack and Oracle Tuning Pack. This parameter can be set to one of three values: • `DIAGNOSTIC+TUNING`: Oracle Diagnostics Pack and Oracle Tuning Pack functionality is enabled in the database server. • `DIAGNOSTIC`: Only Oracle Diagnostics Pack functionality is enabled in the database server. • `NONE`: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is disabled in the database server. Any and all methods of accessing Oracle Diagnostics Pack functionality, whether through Enterprise Manager console, desktop widgets, command-line APIs, or direct access to the underlying data, require an Oracle Diagnostics Pack license.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information

Oracle Diagnostics Pack	Access Features via API	Oracle Diagnostics Pack features can also be accessed by way of the following database server APIs and command-line interfaces:
		• `DBMS_WORKLOAD_REPOSITORY`
		This API is part of the Oracle Diagnostics Pack.
		• `DBMS_ADDM`
		This API is part of the Oracle Diagnostics Pack.
		• `DBMS_ADVISOR`
		This API package is part of the Oracle Diagnostics Pack if you specify `ADDM` as the value of the `advisor_name` parameter or if you specify for the value of the `task_name` parameter any value starting with the `ADDM` prefix.
		• `DBMS_WORKLOAD_REPLAY.COMPARE_PERIOD_REPORT`
		This API function is part of the Oracle Diagnostics Pack.
		• `V$ACTIVE_SESSION_HISTORY`
		This dynamic performance view and its underlying table, `X$ASH`, are part of the Oracle Diagnostics Pack.
		• `DBA_STREAMS_TP_PATH_BOTTLENECK`
		This API is part of the Oracle Diagnostics Pack.
		• `DBA_ADDM_`
		All views beginning with `DBA_ADDM_` are part of the Oracle Diagnostics Pack.
		• `DBA_STREAMS_TP_COMPONENT_STAT`
		Some data in `DBA_STREAMS_TP_COMPONENT_STAT` requires Oracle Diagnostics Pack. The following filter clause to any query on `DBA_STREAMS_TP_COMPONENT_STAT` shows Diagnostics-Pack-dependent data:
		`where STATISTIC_UNIT = 'PERCENT'`
		For example, the following query shows Diagnostics-Pack-dependent data only:
		`SELECT * FROM DBA_STREAMS_TP_COMPONENT_STAT where STATISTIC_UNIT = 'PERCENT';`
		• `DBA_HIST_`
		All data dictionary views beginning with the prefix `DBA_HIST_` are part of this pack, along with their underlying tables. The only exception are the views: `DBA_HIST_SNAPSHOT`, `DBA_HIST_DATABASE_INSTANCE`, `DBA_HIST_SNAP_ERROR`, `DBA_HIST_SEG_STAT`, `DBA_HIST_SEG_STAT_OBJ`, and `DBA_HIST_UNDOSTAT`.
		They can be used without the Oracle Diagnostics Pack license.
		• `DBA_ADVISOR_`
		All data dictionary views with the prefix `DBA_ADVISOR_` are part of this pack if queries to these views return rows with the value `ADDM` in the `ADVISOR_NAME` column or a value of `ADDM*` in the `TASK_NAME` column or the corresponding `TASK_ID`.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Diagnostics Pack	Disabling Licensed Links	This procedure disables all the links and tabs associated with Oracle Diagnostics Pack in Enterprise Manager. All the disabled links and tabs are part of Oracle Diagnostics Pack and therefore require a pack license. 1. From the **Setup** menu, select **Management Packs** and then select **Management Pack Access**. 2. On the **Management Pack Access** page, you can grant and remove access from all the management packs. By default, access is granted. To disable access, click the appropriate check box for the Diagnostics Pack and click **Apply**.

Oracle Diagnostics Pack	Licensed Reports	The following reports found in the `/rdbms/admin/` directory of the Oracle home directory are part of the Oracle Diagnostics Pack:
		`awrrpt.sql`
		`awrrpti.sql`
		`awrgrpt.sql`
		`awrgrpti.sql`
		`awrgdrpt.sql`
		`awrgdrpi.sql`
		`addmrpt.sql`
		`addmrpti.sql`
		`ashrpt.sql`
		`ashrpti.sql`
		`awrddrpt.sql`
		`awrddrpi.sql`
		`awrsqrpi.sql`
		`awrsqrpt.sql`
		`awrextr.sql`
		`awrload.sql`
		`awrinfo.sql`
		`spawrrac.sql`

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information

Oracle Diagnostics Pack	Licensed Repository Views	The following repository views are part of the Diagnostics Pack for Oracle Database:
		Monitoring Views
		`MGMT$ALERT_ANNOTATIONS`
		`MGMT$ALERT_CURRENT`
		`MGMT$ALERT_HISTORY`
		`MGMT$ALERT_NOTIF_LOG`
		`MGMT$AVAILABILITY_CURRENT`
		`MGMT$AVAILABILITY_HISTORY`
		`MGMT$BLACKOUT_HISTORY`
		`MGMT$BLACKOUTS`
		`MGMT$METRIC_COLLECTIONS`
		`MGMT$METRIC_CURRENT`
		`MGMT$METRIC_DAILY`
		`MGMT$METRIC_DETAILS`
		`MGMT$METRIC_HOURLY`
		`MGMT$TARGET_METRIC_COLLECTIONS`
		`MGMT$TARGET_METRIC_SETTINGS`
		Template Views
		`MGMT$TEMPLATES`
		`MGMT$TEMPLATE_METRIC_COLLECTION`
		`MGMT$TEMPLATE_METRIC_SETTINGS`
		`MGMT$TEMPLATE_POLICY_SETTINGS`

Oracle Tuning Pack

Oracle Tuning Pack provides database administrators with expert performance management for the Oracle environment, including SQL tuning and storage optimizations. The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Oracle Tuning Pack	Prerequisites	The Oracle Tuning Pack requires the Oracle Diagnostics Pack.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Tuning Pack	Feature Summary	• In-Memory Advisor analyzes database workload and makes recommendations on which database objects to place in the Database In-Memory Store for optimal database performance. • SQL Access Advisor recommends schema changes needed to improve database performance. • SQL Tuning Advisor analyzes SQL statements and makes recommendations for better execution. Includes an automatic mode to run during system maintenance windows as a maintenance task. • Automatic SQL Tuning selects high-load SQL queries in the system and generates recommendations on how to tune them. Executes during the system maintenance window. • SQL Profiles enables transparent tuning of queries without requiring any application changes. • Real-time Database Operations Monitoring provides live visual displays to track the progress of SQL and PL/SQL queries associated with a business operation. • Real-time SQL and PL/SQL Monitoring monitors execution of long-running or parallel SQL statements in real-time. • Reorganize objects reorganizes database space usage for objects or tablespaces to improve performance. In order to use the features listed above, you must purchase licenses for Oracle Tuning Pack, with one exception: 1. Use of In-Memory Advisor for databases where Database In-Memory option has not yet been deployed does NOT require Oracle Tuning Pack license.
Oracle Tuning Pack	Feature Summary (Continued)	A new initialization parameter, `CONTROL_MANAGEMENT_PACK_ACCESS`, is introduced to control access to Oracle Diagnostics Pack and Oracle Tuning Pack in the database server. This parameter can be set to one of three values: • `DIAGNOSTIC+TUNING`: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is enabled in the database server. • `DIAGNOSTIC`: Only Oracle Diagnostics Pack functionality is enabled in the server. • `NONE`: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is disabled in the database server. Any and all methods of accessing Oracle Tuning Pack functionality, whether through Enterprise Manager Console, desktop widgets, command-line APIs, or direct access to the underlying data, require an Oracle Tuning Pack license.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Tuning Pack	Disabling Licensed Links	This procedure disables all the links and tabs associated with Oracle Tuning Pack in Enterprise Manager. All the disabled links and tabs are part of Oracle Tuning Pack and therefore require a pack license. 1. From the **Setup** menu, select **Management Packs** and then select **Management Pack Access**. 2. On the **Management Pack Access** page, you can grant and remove access from all the management packs. By default, access is granted. To disable access, click the appropriate check box for the Tuning Pack and click **Apply**.
Oracle Tuning Pack	Accessing Features through Command-Line APIs	Oracle Tuning Pack features can also be accessed by way of the following database server APIs and command-line interfaces: • `DBMS_ADVISOR` When the value of the `advisor_name` parameter is either `SQL Tuning Advisor` or `SQL Access Advisor`, this API package is part of the Oracle Tuning Pack. • `DBMS_SQLTUNE` This API is part of the Oracle Tuning Pack. • `V$SQL_MONITOR` This API is part of the Oracle Tuning Pack. • `V$SQL_PLAN_MONITOR` This API is part of the Oracle Tuning Pack.
Oracle Tuning Pack	Licensed Reports	The `sqltrpt.sql` report in the `/rdbms/admin/` directory of the Oracle home directory is part of this pack.

Database Lifecycle Management Pack for Oracle Database

The Database Lifecycle Management Pack is a comprehensive solution that helps database, system, and application administrators automate the processes required to manage the Oracle Database Lifecycle. It eliminates manual and time consuming tasks related to discovery, initial provisioning, patching, configuration management and ongoing change management. In addition the Database Lifecycle Management pack provides compliance frameworks for reporting and management of industry and regulatory compliance standards.

The following table describes this management pack offered by Enterprise Manager:

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Database Lifecycle Types	The Database Lifecycle Management covers the entire lifecycle of the databases, including: • Compliance management: Secure target configurations and achieve compliance with industry and regulatory standards like Center for Internet Security (CIS), Security Technical Implementation Guide (STIG), Payment Card Industry Security Standards Council (PCI DSS), and Health Insurance Portability and Accountability Act (HIPAA). • Configuration management: Deploy standardized configurations, reduce sprawl, monitor for vulnerabilities, remediate to comply and analyze configuration change history and search. • Fleet Maintenance: End-to-end upgrade and patching solution with the primary intent to apply recommended security patches to databases and associated grid infrastructure at scale. Supports patching databases in on-premises, Exadata Cloud, public clouds like Oracle Cloud Infrastructure, AWS, and so on. • Fleet Maintenance Hub: Administrator-centric solution to obtain insight into vulnerabilities for database assets and apply patches to affected targets. Using this feature, administrators can identify database assets that are not subscribed to a gold image, review patch recommendations for images, and once gold images are refreshed, subscribe targets to a newer version of gold images and perform update and upgrade operations. • Fleet Provisioning and Patching: Integration with Oracle Fleet Patching and Provisioning (FPP), which enables FPP users to leverage Enterprise Manager capabilities such as security patch recommendations and proactive patching using Fleet Maintenance. • Exadata Engineered System Compliance with AHF EXAchk: Set of compliance standards and associated controls for overall health monitoring, automated risk identifications and proactive notification of issues for each Exadata System component and database instances. • Oracle Database Security Assessment Tool (DBSAT) Compliance Standards – DBSAT compliance standard for fleet-level assessment of database configuration: Assess database security posture, including user privileges, and get recommendations for elevating security posture. – DBSAT compliance standard for fleet-level discovery of sensitive data: Assess to identify the amount and location of sensitive data in a system, and analyze potential exposure to determine data protection requirements. • Provisioning: Ability to provision single instance, RAC, and Multitenant databases. • Cloning: Clone to create a copy of an existing single instance, RAC, and Multitenant database. • Database Change Management: End-to-end management of schemas and data changes. • Inventory tracking: Ability to track inventory utilization and growth over a period of time.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Prerequisites	The Database Lifecycle Management Pack is a prerequisite for the Oracle Cloud Management Pack for Oracle Database.
Database Lifecycle Management Pack for Oracle Database	General Feature Summary	The Database Lifecycle Management Pack for Oracle Database includes the following features, which you can use after purchasing a license: • Provision all database target types: Single Instance Database, Real Application Clusters (RAC), and Multitenant databases including Container Database (CDB) and Pluggable Database (PDB). • Copy objects to copy database objects with data, with a subset of data, or without data. • Database Patching: An end-to-end patch automation for Oracle Databases and RAC databases. A bulk deployment of patches on all configuration types of Oracle Database with minimal downtime. • Upgrade existing Oracle Database and/or Oracle Grid Infrastructure across major release versions (for example, 19c to 21c versions). Upgrade Standalone Databases, RAC (including Grid Infrastructure and RAC Database) and Dataguard Databases. Dataguard Databases both Primary and Standby are upgraded in rolling method using Transient Logical Standby method. **Note:** The rolling upgrade using the Transient Logical Standby method requires a license for the Oracle Active Data Guard option. For more information, see Oracle Database Options and Their Permitted Features in *Oracle Database Licensing Information User Manual*. • Configuration management to monitor the drift of configuration properties of managed targets, customize templates for drift comparison, augment configuration properties to collect, track/review change history and search. • Compliance management to automate the hardening of secure configuration of managed targets, monitor for compliance with industry and regulatory standards like CIS, STIG, PCI DSS, HIPAA, and other out-of-the-box standards. • Compliance management of Exadata Engineered Systems: Secure and monitor the health of each Exadata component based on Autonomous Health Framework EXAchk. • Hybrid Cloud Management for a single pane of glass view to monitor and manage both on-premises and Oracle Cloud (public cloud) deployments, all from the same management console. • Enterprise Data Governance to automatically discover, scan, and identify databases of sensitive nature in the enterprise. Allows administrators to run deep scans in flagged databases for sensitive artifacts, pin-pointing its location within the database. • File Synchronization of configuration file differences during a comparison. • Notifications on configuration changes or differences. • RAC Scale Back to delete or scale back a single instance database from RAC. • RAC Scale Out to extend single instance databases to RAC.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Provisioning Features	• Software Library for preserving profiles, templates and software bits. • Provision Oracle Databases, RAC databases, RAC One Node, and PDBs. • Create Oracle Databases, RAC databases, and PDBs. • Extend or scale up RAC databases. • Delete or scale down RAC databases. • Create Database Provisioning Profiles for automating mass deployment. • Create standby databases. • User Defined Deployment Procedures (UDDP) to automate custom processes by creating a procedure from scratch by inserting the required phases, steps, and variables. • Ongoing provisioning of Exadata VMs.
Database Lifecycle Management Pack for Oracle Database	Cloning Features	• Create a full clone database using: – Clone Wizard – EMCLI – Classic Cloning Wizard, which enables you to clone databases using RMAN backup, staging areas, or an existing backup. • Refresh a cloned database. • Create a full clone pluggable database using: – Clone Wizard – EMCLI
Database Lifecycle Management Pack for Oracle Database	Patching and Upgrade Features	Fleet Maintenance allows administrators to patch and upgrade database software with minimal downtime. The subscription-based model enables updates across your entire database estate, significantly reducing the time required for maintenance activities. Database fleet maintenance can be used for: • Single Instance Oracle Homes and associated databases • RAC Oracle Homes and associated databases • Grid Infrastructure Homes and associated Grid Instances • Oracle Restart Homes and associated databases • Standby databases (single instance and RAC) Fleet Maintenance Hub includes the following features: • Subscription option: For databases and grids that are not subscribed, Fleet Maintenance Hub provides the option to subscribe them to an image, once an image is identified. • Automatic patch recommendations: Fleet Maintenance Hub provides patch recommendations for gold images. • Compliance with images: Fleet Maintenance Hub provides information on the targets that are missing required security patch recommendations.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Configuration and Compliance Features	The Database Lifecycle Management Pack for Oracle Database includes the following compliance and configuration features: • Compliance frameworks, standards, and extensibility to meet industry and regulatory compliance requirements. • Compliance management of Exadata Engineered Systems. Secure and monitor the health of each Exadata component based on the Autonomous Health Framework EXAchk. • Configuration drift management to continually monitor any number of targets for drift from a live or saved reference target. • Configuration Collection Extensibility to create custom configuration collections and extend current collections. • Configuration Compare, one-to-one and one-to-many. • Configuration History to report and notify on configuration or relationship changes during a specific time frame. • Configuration Instance Browser of items and associations associated with a target. • Configuration Save for reference, baselines or Gold Standards. • Configuration Search on a specific target or across relationships. • Configuration Topology for a specified target and its dependencies along with other targets that are dependent on it.
Database Lifecycle Management Pack for Oracle Database	Schema Features	The Database Lifecycle Management Pack for Oracle Database includes the following schema features: • Schema and Data Comparisons automate the comparison of database schema and data across Databases or saved baselines. • Schema and Data Synchronization to propagate database objects and schemas with or without data, and update database object definitions. • Schema Change Plans allow developers to add changes to the schema in a plan that can be applied to multiple databases. • Schema Comparisons to compare database objects in two databases or baselines in Enterprise Manager or SQL developer. • Real-time schema change detection to track schema changes in real time to identify unwanted or unplanned changes.
Database Lifecycle Management Pack for Oracle Database	Pluggable Database Management	The Database Lifecycle Management Pack for Oracle Database includes the following PDB features: • Manage the entire PDB lifecycle, including the provisioning of CDBs • Create a new PDB using seed • Plug in an unplugged PDB • Clone a PDB • Migrate a Non-CDB as a PDB • Unplug and drop a PDB • Relocate PDBs between CDBs

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Oracle Fleet Patching & Provisioning (formerly known as Oracle Rapid Home Provisioning) Features	In addition to Fleet Maintenance, the Database Lifecycle Management Pack for Oracle Database includes the features from Oracle Fleet Patching & Provisioning (FPP). • Deploy software homes to nodes in a cloud computing environment from a single cluster where you create, store, and manage templates of Oracle homes as images of Oracle software, such as databases, middleware, and applications. When deployed across multiple clusters or access to the home server to provision on a remote cluster, this feature requires the Database Lifecycle Management license for the remote clusters. **Note:** A *remote cluster* is considered as the server where the clients are installed pointing to a different cluster as a home server. When using Enterprise Manager, deployment procedures and patch plans are used on the Oracle Fleet Patching & Provisioning server to: • Provision • Patch clusters or Oracle homes

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Provisioning Licensed Links	The following licensed links, features and functions apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management of non-Oracle Database targets, you must purchase the appropriate management pack. The following are the licensed pages and links for the Database Lifecycle Management Pack for Oracle Database: **Database Provisioning** • From the **Enterprise** menu, select **Provisioning and Patching**, then select **Procedure Library**. All procedures that Clone and Provision a Database are licensed with the Database Lifecycle Management Pack. • From the **Enterprise** menu, select **Provisioning and Patching**, then select **Database Provisioning**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. • On the Oracle Database or cluster database target home page, select the **Oracle Database** menu, then select **Provisioning**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. • On the Oracle Container Database home page, select the **Oracle Database** menu, **Provisioning**, and then select **Provision Pluggable Databases**. On the Provision Pluggable Databases page, all operations are licensed except for those explicitly mentioned in the Base Database Management Features section. **RAC Scale Out and Scale Back** • From the **Enterprise** menu, select **Provisioning and Patching**, then select **Procedure Library**. All procedures that Extend or Scale a database or RAC are licensed with the Database Lifecycle Management Pack. • From the **Enterprise** menu, select **Provisioning and Patching**, then select **Database Provisioning**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. • On the Oracle cluster database target home page, select the **Oracle Database** menu, then select **Provisioning**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Cloning Licensed Links	The following licensed links, features and functions apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management of non-Oracle Database targets, you must purchase the appropriate management pack. The following are the licensed pages and links for the Database Lifecycle Management Pack for Oracle Database: **Full Clone Database** • From the Database home page, select the Database target menu, **Cloning**, and then select **Create Full Clone**. On the **Create Full Clone Database** page, all features, functions, links, buttons, and drill-downs are licensed as part of the Database Lifecycle Management Pack. **Classic Clone Wizard** • From the Database home page, select the Database target menu, **Cloning**, and then select **Clone Management**. On the **Clone Management** page, click **Switch to Classic Clone**. In the Classic Clone wizard, all features, functions, links, buttons, and drill-downs are licensed as part of the Database Lifecycle Management Pack. **Refresh Cloned Database** • From the Database home page, select the Database target menu, **Cloning**, and then select **Clone Management**. On the **Clone Management** page, highlight the cloned database to be refreshed, and then click **Refresh**. **Full Clone PDB** • From the PDB home page, select the PDB target menu, **Cloning**, and then select **Create Full Clone**. On the **Create Full Clone Pluggable Database** page, all features, functions, links, buttons, and drill-downs are licensed as part of the Database Lifecycle Management Pack.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Patching and Upgrade Licensed Links	The following licensed links, features and functions apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management of non-Oracle Database targets, you must purchase the appropriate management pack. The following are the licensed pages and links for the Database Lifecycle Management Pack for Oracle Database: **Database Update and Upgrade using Fleet Maintenance UI** • From the **Targets** menu, select **Databases**, and in the **Administration** menu, select **Standardization Advisor**. This menu is licensed with the Database Lifecycle Management Pack. • From the **Targets** menu, select **Databases**, and in the **Administration** menu, select **Fleet Maintenance**. All update (patching) and upgrade actions are licensed with the Database Lifecycle Management Pack. • From the **Targets** menu, select **Databases**, and in the **Administration** menu, select **Fleet Maintenance Hub**. All update (patching) and upgrade actions are licensed with the Database Lifecycle Management Pack. **Database Upgrade** • From the **Enterprise** menu, select **Provisioning and Patching**, then **Procedure Library**. All procedures that Upgrade a Database are licensed with the Database Lifecycle Management Pack. • On the Oracle Database or cluster database target home page (includes Primary and Standby Databases), select the **Oracle Database** menu, then select **Provisioning**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. **Database Patching** • From the **Enterprise** menu, select **Provisioning and Patching**, then **Procedure Library**. All Procedures that patch a database, Clusterware or Real Application Clusters are licensed with the Database Lifecycle Management Pack. **Offline Patching** • From the **Setup** menu, select **Provisioning and Patching**, then **Offline Patching**. From the **Online and Offline Setting** tab, the **Connection**, **Offline** setting is licensed with the Database Lifecycle Management Pack. **User Defined Deployment Procedures (UDDP)** • From the **Enterprise** menu, select **Provisioning and Patching**, then **Procedure Library**. On the Provisioning Library page, from the list of actions, the **Create New** option is licensed as part of the Database Lifecycle Management Pack.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Configuration Management Licensed Links	The following licensed links, features and functions apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management of non-Oracle Database targets, you must purchase the appropriate management pack. The following are the licensed pages and links for the Database Lifecycle Management Pack for Oracle Database: **Configuration Compare** • From the **Enterprise** menu, select **Configuration**, then select **Comparison and Drift Management**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack. **Configuration Drift** • From the **Enterprise** menu, select **Configuration**, then select **Comparison & Drift Management**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack. **Configuration Consistency** • From the **Enterprise** menu, select **Configuration**, then select **Comparison & Drift Management**. Locate the **Consistency Overview** section of the **Dashboard Overview** page. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack. **Configuration Search** • From the **Enterprise** menu, select **Configuration**, then select **Search**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack. **Configuration Browser** • From the **Oracle Database** menu, select **Configuration**. All features, functions, links, buttons, and drill-downs on this menu, excluding Topology, are licensed as part of the Database Lifecycle Management Pack. **Configuration History** • From the **Enterprise** menu, select **Configuration**, then select **History**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack. **Configuration Save** • From the **Enterprise** menu, select **Configuration**, then select **Saved**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack. **Configuration Topology** • From the **Enterprise** menu, select **Configuration**, then select **Comparison & Drift Management**. Then click the **Templates** tab. **Configuration Template Management** • To access comparison templates, from the **Enterprise** menu, select **Configuration**, then select **Comparison & Drift Management**. Then click the **Templates** tab. **Configuration Extensions and Collections**

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
		• From the **Enterprise** menu, select **Configuration**, then select **Configuration Extensions**. **Configuration Results Dashboard** • From the **Enterprise** menu, select **Configuration**, then click **Comparison & Drift Management**.
Database Lifecycle Management Pack for Oracle Database	Compliance Management Licensed Links	The following licensed links, features and functions apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management of non-Oracle Database targets, you must purchase the appropriate management pack. The following are the licensed pages and links for the Database Lifecycle Management Pack for Oracle Database: **Compliance Dashboard** • From the **Enterprise** menu, select **Compliance**, then select **Dashboard**. **Compliance Results** • From the **Enterprise** menu, select **Compliance**, then select **Results** or from the Database home page, select the Database target menu, **Compliance**, then select **Results**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack. **Compliance Library** • From the **Enterprise** menu, select **Compliance**, then select **Library**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack. **Standard Associations** • On the Oracle Database home page, select the **Oracle Database** menu, **Compliance**, and then select **Standard Associations**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. **Self Update** • From the **Setup** menu, select **Extensibility**, then click **Self Update**. The downloading and applying of any updates associated with Compliance for database targets are licensed as part of the Database Lifecycle Management Pack. **Compliance Management of Exadata Engineered Systems** • Select **Compliance**, then select **Results**. On the **Results** page, all features, functions, tabs, links, buttons, and drill-downs are licensed as part of the Database Lifecycle Management Pack. • Select **Compliance**, then select **Standard Associations**. On the **Standard Associations** page, all features, functions, links, buttons, and drill-downs are licensed as part of the Database Lifecycle Management Pack.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Schema Licensed Links	The following licensed links, features and functions apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management of non-Oracle Database targets, you must purchase the appropriate management pack. The following are the licensed pages and links for the Database Lifecycle Management Pack for Oracle Database. Starting from the Database target home page: **Schema Comparison** • From the **Schema** menu, select **Change Management**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. **Schema and Data Synchronization** • From the **Schema** menu, select **Change Management**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. **Copy Objects** • From the **Schema** menu, select **Change Management**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack.
Database Lifecycle Management Pack for Oracle Database	Other Licensed Links	The following licensed links, features and functions apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management of non-Oracle Database targets, you must purchase the appropriate management pack. The following are the licensed pages and links for the Database Lifecycle Management Pack for Oracle Database. Starting from the Database target home page: **File Synchronization** • When viewing comparison results differences as described in the Configuration Compare feature, select the configuration specification in the tree on the left. Select **Enable File Synchronization**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack for Oracle Database. **Real-Time Schema Change Detection** • From the **Administration** menu, select **Initialization Parameters**. On the Initialization Parameters page, change the `enable_ddl_logging` option to **TRUE** to enable this feature, which is licensed as part of the Database Lifecycle Management Pack.
Database Lifecycle Management Pack for Oracle Database	Licensed Parameters	The `init.ora` parameter `ENABLE_DDL_LOGGING` is licensed as part of the Oracle Database Lifecycle Management Pack when set to `TRUE`. When set to `TRUE`, the database reports schema changes in real time into the database alert log under the message group `schema_ddl`. The default setting is `FALSE`.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Licensed Reports	The following reports are part of the Database Lifecycle Management Pack for Oracle Database. All reports in each of these sections are licensed as part of this pack. To access the reports, from the **Enterprise** menu, select **Reports**, and then select **Information Publisher Reports**. If you have Oracle Analytics Server installed and configured with Oracle Enterprise Manager along with the out-of-the-box reports, go to Oracle Analytics Server. The following reporting areas, reports, and sub-reports under **Information Publisher Reports** are licensed as part of the Database Lifecycle Management Pack: • Compliance • Deployment and Configuration • Sample Host reports, Configuration Reports • Security The following reporting areas, reports, and sub-reports under your independently configured Oracle Analytics Server installation are licensed as part of the Database Lifecycle Management Pack: • Compliance • Deployment and Configuration • Sample Host reports, Configuration Reports • Security

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information

Database Lifecycle Management Pack for Oracle Database	Licensed CLI Verbs	The following Enterprise Manager command line interface (CLI) verbs are licensed as part of the Database Lifecycle Management Pack:
		
		`associate_cs_targets`
		`config_compare`
		`config_db_service_target`
		`configure_log_archive_locations`
		`confirm_instance`
		`clone_database`
		`create_database`
		`create_standby_database`
		`describe_instance`
		`describe_procedure_input`
		`disable_config_history`
		`enable_config_history`
		`export_compliance_group`
		`export_compliance_standard_rule`
		`export_facet`
		`export_standard`
		`fix_compliance_state`
		`get_config_searches`
		`get_config_templates`
		`get_executions`
		`get_instance_data`
		`get_instance_status`
		`get_instances`
		`get_oms_config_property`
		`get_procedure_types`
		`get_procedure_xml`
		`get_procedures`
		`get_retry_argument`
		`get_saved_configs`
		`ignore_instance`
		`import_compliance_object`
		`list_oms_config_properties`
		`remove_cs_target_association`
		`reschedule_instance`
		`resume_instance`
		`run_config_search`
		`save_procedure`
		`set_config_history_retention_period`
		`stop_instance`
		`submit_procedure`
		`suspend_instance`
		`db_software_maintenance`
		`update_and_retry_step`
		`update_procedure_input`
		`upgrade_database`

Database Lifecycle Management Pack for Oracle Database	Licensed REST APIs	The following Enterprise Manager REST APIs are licensed as part of the Database Lifecycle Management Pack: • Deployment Procedure REST Endpoints • Database Maintenance - Updates (Patching) And Upgrades REST Endpoints • Database Maintenance - Using Oracle Fleet Patching And Provisioning (FPP) REST Endpoints

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Licensed Compliance Repository Views	The following compliance repository views are part of the Database Lifecycle Management Pack for Oracle Database: MGMT$CCC_ALL_OBS_BUNDLES MGMT$CCC_ALL_OBSERVATIONS MGMT$CCC_DIAG_ANALYTICS MGMT$CCC_DIAG_QUEUEBACKLOG MGMT$COMPLIANCE_STANDARD MGMT$COMPLIANCE_STANDARD_GROUP MGMT$COMPLIANCE_STANDARD_RULE MGMT$COMPOSITE_CS_EVAL_SUMMARY MGMT$CS_ASM_DISKGRP_SETTINGS MGMT$CS_DB_CONTROL_FILE_COUNT MGMT$CS_DB_INIT_PARAMS MGMT$CS_DB_RBS_IN_SYSTEM MGMT$CS_DB_REC_SEG_SETTINGS MGMT$CS_DB_REC_TS_SETTINGS MGMT$CS_DB_REC_USER_SETTINGS MGMT$CS_DB_REDO_LOG_COUNT MGMT$CS_DB_REDO_LOGS MGMT$CS_DB_TABLESPACES MGMT$CS_DB_TBSP_SEGSPACE_MGMT MGMT$CS_EVAL_SUMMARY MGMT$CS_FEATURE_USAGE MGMT$CS_GROUP_EVAL_SUMMARY MGMT$CS_GROUP_KEYWORD MGMT$CS_HA_INFO MGMT$CS_HIERARCHY MGMT$CS_KEYWORD MGMT$CS_RQS_HIERARCHY MGMT$CS_RULE_ATTRS MGMT$CS_RULEFOLDER MGMT$CS_RULE_EVAL_SUMMARY MGMT$CS_TARGET_ASSOC MGMT$CS_TGT_ASSOC_TXF_REQ MGMT$CSG_HIERARCHY MGMT$CSG_SUBGROUP MGMT$CSR_CURRENT_VIOLATION MGMT$CSR_TARGET_ASSOC MGMT$CSR_VIOLATION_CONTEXT MGMT$CSRF_TARGET_ASSOC MGMT$EM_CS_RULE_EVENT_ERROR MGMT$EM_RULE_VIOL_CTXT_DEF MGMT$ICS_TARGET_ASSOC MGMT$REPOSITORY_RULE_PARAMS MGMT$REPOSITORY_RULE_BIND_VARS MGMT$REPO_RULE_CHK_DETAILS MGMT$RULE_KEYWORD MGMT$RULES_EVALUATED_PER_DAY

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Licensed Provisioning and Patching Repository Views	The following provisioning and patching repository views are part of the Database Lifecycle Management Pack for Oracle Database: **Provisioning and Patching Views** EM$PROV_APPTYPES EM$PROVAPP_METADATA EM$PROVAPP_METADATA_VERSION EM$PROVAPP_TAGS EM$PROVAPP_TAG_PROPERTIES MGMT$PA_RECOM_METRIC_SOURCE **Patching Views** GC$EM_PC_PLAN_PATCHES GC$EM_PC_PLANS GC$EM_PC_PLAN_TARGETS GC_PC_EXECUTION_INSTANCES GC_PC_PLAN_ANALYSIS_RS GC_PC_PLAN_REMEDY GC_PC_PLAN_REMEDY_DETAILS GC_PC_PLAN_USERS GC_PC_TARGETS MGMT$APPLIED_PATCHES MGMT$APPLIED_PATCHSETS MGMT$ARU_FAMILY_PRODUCT_MAP MGMT$ARU_LANGUAGES MGMT$ARU_PATCH_RECOMMENDATIONS MGMT$ARU_PLATFORMS MGMT$ARU_PRODUCT_RELEASE_MAP MGMT$ARU_PRODUCTS MGMT$ARU_RELEASES MGMT$ARU_TARGETS MGMT$PA_AFFTED_HOST_GUID_OH MGMT$PA_AFFTED_HOST_OH MGMT$PA_AFFTED_TARGETS MGMT$PA_FINAL_PATCH_LIST MGMT$PA_TARGET_MAPPING MGMT$PR_APPL_PATCHES_TO_OH MGMT$PR_APPL_PATCHES_TO_OH_TGT MGMT$PR_HOME_INFO MGMT$PR_HOMES_AFFECTED_COUNT MGMT$RECOM_METRIC_SOURCE

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Licensed Oracle Home Patching Repository Views	The following Oracle home patching repository views are part of the Database Lifecycle Management Pack for Oracle Database: MGMT$APPLIED_PATCHES MGMT$APPLIED_PATCHSETS MGMT$APPL_PATCH_AND_PATCHSET MGMT$CPF_ADVISORY_INFO MGMT$CPF_HOMES_INFO MGMT$CPF_PATCH_INFO MGMT$EM_HOMES_PLATFORM MGMT$HOMES_AFFECTED MGMT$OH_CLONE_PROPERTIES MGMT$OH_COMP_DEP_RULE MGMT$OH_COMP_INST_TYPE MGMT$OH_COMPONENT MGMT$OH_CRS_NODES MGMT$OH_DEP_HOMES MGMT$OH_FILE MGMT$OH_HOME_INFO MGMT$OH_INSTALLED_TARGETS MGMT$OH_INV_SUMMARY MGMT$OH_PATCH MGMT$OH_PATCHED_COMPONENT MGMT$OH_PATCHED_FILE MGMT$OH_PATCH_FIXED_BUG MGMT$OH_PATCHSET MGMT$OH_VERSIONED_PATCHV MGMT$PATCH_ADVISORIES

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Licensed Configuration Repository Views	The following configuration repository views are part of the Database Lifecycle Management Pack for Oracle Database: **Configuration Views** GC$ECM_CONFIG_SUMMARY GC$ECM_COMP_PROPERTIES GC$ECM_CURR_CONFIG GC$ECM_CURR_CONFIG_FLAT_MEMS GC$ECM_CURR_CONFIG_SNAPSHOTS GC$ECM_CURR_TARGET_SNAPSHOTS GC$ECM_DATA_RETENTION_TIME GC$ECM_GEN_SNAPSHOT GC$ECM_SAVED_CONFIG GC$ECM_SAVED_CONFIG_FLAT_MEMS GC$ECM_SAVED_CONFIG_SNAPSHOTS GC$ECM_SAVED_CONFIG_TARGETS GC$ECM_SAVED_TARGET_SNAPSHOTS MGMT$CCS_DATA MGMT$CCS_DATA_SOURCE MGMT$CCS_DATA_SOURCE_VISIBLE MGMT$CCS_DATA_VISIBLE MGMT$DB_CONTROLFILES MGMT$DB_DATAFILES MGMT$DB_DBNINSTANCEINFO MGMT$DB_FEATUREUSAGE MGMT$DB_INIT_PARAMS MGMT$DB_LICENSE MGMT$DB_OPTIONS MGMT$DB_REDOLOGS MGMT$DB_ROLLBACK_SEGS MGMT$DB_SGA MGMT$DB_TABLESPACES MGMT$DB_TABLESPACES_ALL MGMT$ECM_CMP_JOB_LAST_RESULTS MGMT$ECM_CMP_JOBS MGMT$ECM_CMP_RPT_CCS_DS MGMT$ECM_CMP_RPT_CCS_DS_DTLS MGMT$ECM_CMP_RPT_CCS_PD_ALL MGMT$ECM_CMP_RPT_CCS_PD_DIFFS MGMT$ECM_CMP_RPT_CI_DIFFS MGMT$ECM_CMP_VISIBLE_CONFIGS MGMT$ECM_CURRENT_SNAPSHOTS MGMT$ECM_VISIBLE_SNAPSHOTS MGMT$SERVICETAG_INSTANCES MGMT$SERVICETAG_REGISTRY MGMT$UNPATCHABLE_DB_TARGETS

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Licensed Configuration Repository Views (Continued)	**Client Configuration Views** MGMT$CSA_COLLECTIONS MGMT$CSA_FAILED MGMT$CSA_HOST_COOKIES MGMT$CSA_HOST_CPUS MGMT$CSA_HOST_CUSTOM MGMT$CSA_HOST_IOCARDS MGMT$CSA_HOST_NICS MGMT$CSA_HOST_OS_COMPONENTS MGMT$CSA_HOST_OS_FILESYSEMS MGMT$CSA_HOST_OS_PROPERTIES MGMT$CSA_HOST_RULES MGMT$CSA_HOST_SW MGMT$ECM_CONFIG_HISTORY MGMT$CHANGES_PER_SNAPSHOT
Database Lifecycle Management Pack for Oracle Database	Licensed Security Repository Views	The following Security repository views are part of the Database Lifecycle Management Pack for Oracle Database: MGMT$ESA_ALL_PRIVS_REPORT MGMT$ESA_ANY_DICT_REPORT MGMT$ESA_ANY_PRIV_REPORT MGMT$ESA_AUDIT_SYSTEM_REPORT MGMT$ESA_BECOME_USER_REPORT MGMT$ESA_CATALOG_REPORT MGMT$ESA_CONN_PRIV_REPORT MGMT$ESA_CREATE_PRIV_REPORT MGMT$ESA_DBA_GROUP_REPORT MGMT$ESA_DBA_ROLE_REPORT MGMT$ESA_DIRECT_PRIV_REPORT MGMT$ESA_EXMPT_ACCESS_REPORT MGMT$ESA_KEY_OBJECTS_REPORT MGMT$ESA_OH_OWNERSHIP_REPORT MGMT$ESA_OH_PERMISSION_REPORT MGMT$ESA_POWER_PRIV_REPORT MGMT$ESA_PUB_PRIV_REPORT MGMT$ESA_SYS_PUB_PKG_REPORT MGMT$ESA_TABSP_OWNERS_REPORT MGMT$ESA_TRC_AUD_PERM_REPORT MGMT$ESA_WITH_ADMIN_REPORT MGMT$ESA_WITH_GRANT_REPORT

Oracle Data Masking and Subsetting Pack

Oracle Data Masking and Subsetting Pack facilitates the discovery of sensitive data, masking the data with fictitious yet realistic looking data, and subsetting the data based on specific conditions; thereby ensuring secure and efficient use in non-production environments.

Features

Here is the list of features in this management pack:

- Application Data Modeling
- Sensitive Types Library

Copyright © 2015, 2025, Oracle and/or its affiliates.

- Data Masking Definitions
- Data Masking Formats Library
- Data Subsetting Definitions
- Application Data Modeling, Data Masking and Subsetting Enterprise Manager Command Line Interface (CLI) verbs
- Application Data Modeling accelerator for select versions of Oracle E-Business Suite
- Application Data Modeling accelerator for select versions of Oracle Fusion Applications
- Data Masking templates for select versions of Oracle Fusion Applications
- Data Masking templates for select versions of Oracle E-Business Suite

Oracle Data Masking and Subsetting Pack also includes the following restricted-use licenses:

- Database Gateway for APPC
- Database Gateway for DRDA
- Database Gateway for Informix
- Database Gateway for SQL Server
- Database Gateway for Sybase
- Database Gateway for Teradata

If you want to use the Oracle Database Gateways listed above not solely for the purposes of Oracle Data Masking and Subsetting Pack, then you must purchase full-use licenses for the Oracle Database Gateways. When using Oracle Data Masking and Subsetting Pack for non-Oracle databases, the Oracle Database Gateways stage the data in a separately licensed Oracle Database. Oracle Data Masking and Subsetting functionality cannot be executed directly against the non-Oracle database.

Oracle Data Masking and Subsetting Pack must be licensed for the source database server, i.e., the database from which the data originates. There is no requirement to license the pack for the staging database server on which masking and subsetting operations are executed, or for copies made of the masked database.

Licensed Links

The following are the Oracle Data Masking and Subsetting Pack licensed pages and links in Oracle Enterprise Manager for the Oracle Database instance, Cluster Database, Pluggable Database, and Autonomous Database targets.

Licensed Page/Link	How to Access
Data Discovery	From the Database home page, select **Security**, **Data Masking and Subsetting**, and then select **Data Discovery**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Oracle Data Masking and Subsetting Pack.
Data Masking	From the Database home page, select **Security**, **Data Masking and Subsetting**, and then select **Data Masking**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Oracle Data Masking and Subsetting Pack.
Data Subsetting	From the Database home page, select **Security**, **Data Masking and Subsetting**, and then select **Data Subsetting**. All features, functions, links, buttons, and drill-downs on these menus are licensed as part of the Oracle Data Masking and Subsetting Pack.

Copyright © 2015, 2025, Oracle and/or its affiliates.

> **Note**
>
> Oracle Data Masking and Subsetting Pack incorporates the previous Oracle Data Masking Pack, Oracle Test Data Management Pack, and Oracle Data Masking and Subsetting Pack for non-Oracle Databases.

Oracle Real Application Testing

Oracle Real Application Testing includes the following features:

- Database Replay
- SQL Performance Analyzer (SPA)
- Workload Analysis
- Database Migration Planner
- Database Migration Workbench

Management Pack	Type of Licensing Information	Licensing Information
Oracle Real Application Testing	Database Replay	• The Oracle Real Application Testing license is required on both capture and replay systems for Database Replay and is charged by the total number of CPUs on those systems. • Use of Capture and Replay ASH Analytics Reports, Compare Period ADDM Reports, and Replay Compare Period Reports also requires an Oracle Diagnostics Pack license. • An Oracle Real Application Testing license permits you to access Database Replay functionality through Oracle Enterprise Manager, as well as through the following database server command-line APIs: `DBMS_WORKLOAD_CAPTURE` package and `DBMS_WORKLOAD_REPLAY` package. The use of the `DBMS_WORKLOAD_REPLAY.COMPARE_PERIOD_REPORT()` function also requires a license for Oracle Diagnostics Pack.
Oracle Real Application Testing	SQL Performance Analyzer (SPA)	An Oracle Real Application Testing license permits you to access SQL Performance Analyzer functionality through Oracle Enterprise Manager, as well as through the following database server command-line API: `DBMS_SQLPA` package, which is part of the Oracle Real Application Testing option.
Oracle Real Application Testing	Workload Analysis	An Oracle Real Application Testing license permits you to access Workload Analysis functionality through Oracle Enterprise Manager, as well as through the following database server command-line API: `DBMS_SQLPA` package, which is part of the Oracle Real Application Testing option.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Real Application Testing	Database Migration Planner	• Database Migration Planner provides a comprehensive end-to-end solution for managing database consolidation with a risk-free and accurate approach to consolidate by eliminating guess work by analyzing historical workload (DB, Host metrics). • Provides a heatmap of predicted usage for the new configuration, both Oracle Cloud and on-premises environments. • Use of the consolidation planning feature of Database Migration Planner requires an Oracle Diagnostics Pack license. • An Oracle Real Application Testing license permits you to access the **Database Migration Planner** page in Oracle Enterprise Manager. To access Database Migration Planner: From the **Enterprise** menu, select **Migration and Consolidation**, then select **Database Migration Planner**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the **Database Migration Planner**.
Oracle Real Application Testing	Database Migration Workbench	• Database Migration Workbench provides a data-driven and systematic approach to consolidate by eliminating guess work and human errors. Database Migration Workbench has three key capabilities: consolidation planning, database migration, and performance validation. • Use of the consolidation planning feature of Database Migration Workbench requires an Oracle Diagnostics Pack license. • An Oracle Real Application Testing license permits you to access the following links on the **Database Migration Workbench** page in Oracle Enterprise Manager. To access Database Migration Workbench, you can use one of the following options: – From the **Enterprise** menu, select **Migration and Consolidation**, then select **Database Migration Workbench**. – On the database target home page, select the **Administration** menu, then select **Database Migration Workbench**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Migration Workbench.

Exadata Management Pack

The Exadata Management Pack provides advanced monitoring, management, and diagnostics features for mixed fleets of on-premises and Cloud-based Exadata systems, as well as the databases running on these systems.

The following table describes this management pack offered by Enterprise Manager:

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Exadata Management Pack	Prerequisites	The Exadata Management Pack requires the Oracle Diagnostics Pack.
Exadata Management Pack	Features	The Exadata Management Pack includes the following features: • Engineered System Autonomous Health Framework (AHF) Administration: Provides comprehensive monitoring and management of AHF and EXAChk across the Engineered System fleet. • Database Impact Advisor: Performs system-wide database CPU usage *noisy-neighbor* analysis to identify databases whose performance is potentially impacted by other databases or other operating system processes. • I/O Resource Management Advisor: Provides interactive visualizations that facilitate the analysis of flash I/O utilization across databases (non-CDB, CDB, and PDB) on an Exadata system in order to identify databases that might be impacted by system I/O limits and I/O usage by other databases, and to determine if the system has capacity for additional I/O load. • Exadata Fleet Dashboards: Filters and visualizes Exadata component hardware and software metric data for individual Exadata (on premises and cloud-based) and Recovery Appliance systems. • Exascale Advanced Monitoring: Provides advanced IOPS monitoring through the IOPS tab using an interactive Sankey-based diagram of IOPS allocations across Vaults, Storage Pools, and Databases. • Exadata Cloud Advanced Monitoring: Provides advanced database inventory monitoring using a Sankey-based topology diagram and a tabular listing of database inventory on the system. • Exadata Infrastructure Patching: Leverages Fleet Maintenance to centrally patch Database servers (Bare Metal), Xen DomU, KVM Guests, Storage Servers, and Switches at scale. Also, schedules and performs rollback of patches seamlessly, all from a single platform. • Metrics Dashboard: Provides customizable visualization capability for key Engineered Systems hardware and software metrics, as well as curated visualization of metrics pertinent to resource planning.
Exadata Management Pack	Engineered System AHF Administration Licensed Links	The following are the licensed pages and links for **Engineered System AHF Administration** in the Exadata Management Pack: • From the **Enterprise** menu, select **Compliance**, and then select **Engineered System Autonomous Health Framework Administration**. • From the **Targets** menu, select **Exadata**, **Actions**, and then select **Engineered System Autonomous Health Framework Administration**.
Exadata Management Pack	Database Impact Advisor Licensed Links	The **Database Impact Advisor** is available for individual Database Machine targets for which the Exadata Management Pack has been enabled. The following is the licensed page and link for **Database Impact Advisor** in the Exadata Management Pack: • For individual Database Machine targets, in the main Database Machine target menu, select **Database Impact Advisor**.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Exadata Management Pack	I/O Resource Management Advisor Licensed Links	The **I/O Resource Management Advisor** is available for individual Database Machine and Exadata Infrastructure targets for which the Exadata Management Pack has been enabled. The following is the licensed page and link for **I/O Resource Management Advisor** in the Exadata Management Pack: • For individual Database Machine or Exadata Infrastructure targets, in the main target menu, select **I/O Resource Management Advisor**.
Exadata Management Pack	Exadata Fleet Dashboards Licensed Links	The following are the licensed pages and links for **Exadata Fleet Dashboards** in the Exadata Management Pack: • From the **Enterprise** menu, select **Dashboards**, and then select **Exadata Fleet Configuration**. • From the **Enterprise** menu, select **Dashboards**, and then select **Exadata Fleet Aggregated Capacity**. • From the **Enterprise** menu, select **Dashboards**, and then select **Exadata Fleet Capacity**. • From the **Enterprise** menu, select **Dashboards**, and then select **Exadata Fleet Component Capacity**.
Exadata Management Pack	Exascale Advanced Monitoring Licensed Links	The **Exascale Advanced Monitoring** is available for individual Exascale targets that are associated with a Database Machine target for which the Exadata Management Pack has been enabled. The following is the licensed page and link for **Exascale Advanced Monitoring** in the Exadata Management Pack: • On the Exascale home page, select **Performance**. Note that only specific content in the **Performance** tab on the Exascale home page is a part of the Exadata Management Pack.
Exadata Management Pack	Exadata Cloud Advanced Monitoring Licensed Links	The **Exadata Cloud Advanced Monitoring** is available for individual Exadata Infrastructure targets for which the Exadata Management Pack has been enabled. The following are the licensed pages and links for **Exadata Cloud Advanced Monitoring** in the Exadata Management Pack: • On the Exadata Infrastructure home page, select the **Resource Usage** tab. • On the VM Cluster home page, select the **Databases** tab. Note that only specific content in the Exadata Infrastructure **Resource Usage** tab and the VM Cluster **Databases** tab is a part of the Exadata Management Pack.
Exadata Management Pack	Exadata Infrastructure Patching Licensed Links	The following is the licensed page and link for **Exadata Infrastructure Patching** in the Exadata Management Pack: • From the **Targets** menu, select **Exadata**, and then click **Fleet Maintenance**.
Exadata Management Pack	Metrics Dashboard Licensed Links	The following is the licensed page and link for **Metrics Dashboard** in the Exadata Management Pack: • From the Database Machine or the appropriate Engineered Systems target menu, select **Metrics Dashboard**.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Exadata Management Pack	Exadata Infrastructure Patching Licensed CLI Verbs	The following Enterprise Manager command line interface (CLI) verb is licensed as part of Exadata Infrastructure Patching in the Exadata Management Pack: `db_software_maintenance` You can use this CLI verb with the following commands: • `-registerFPPServer`: Registers FPP servers • `-registerFPPClient`: Registers FPP client to FPP server • `-optInFPPSeries`: Stores the image series information in Enterprise Manager • `-updateVersionStatus`: Updates the version status of the image to current • `-createSoftwareImage`: Creates a new Exapatch gold image • `-subscribeTarget`: Subscribes targets to the selected image • `-performOperation`: Deploys, updates, or rolls back Exapatch image
Exadata Management Pack	Exadata Infrastructure Patching Licensed REST APIs	The following Enterprise Manager REST APIs are licensed as part of Exadata Infrastructure Patching in the Exadata Management Pack: • `/em/api/fppServers` (POST) • `/em/api/fppClients` (POST) • `/em/api/goldImages/actions/fppSeriesOptIn` (POST) • `/em/api/goldImages` (GET and POST) • `/em/api/goldImages/{imageID}/versions` (POST) • `/em/api/goldImages/{ImageID}/actions/subscribeTargets` (POST) • `/em/api/fleetOperations` (GET and POST) • `/em/api/goldImages/{goldImageId}/versions/{versionId}` (PATCH)

Zero Data Loss Recovery Appliance Management Pack

The Zero Data Loss Recovery Appliance Management Pack provides advanced features for managing database fleet backup to one or more Recovery Appliances, and for monitoring and managing a fleet of Recovery Appliances.

The following table describes this management pack offered by Enterprise Manager:

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Zero Data Loss Recovery Appliance Management Pack	Features	The Zero Data Loss Recovery Appliance Management Pack includes the following features: • Configure Database Fleet Backup to Recovery Appliance: Provides the ability to configure a mixed fleet of databases (versions, types, roles) to send backups and redo to a Recovery Appliance, that is, configure them for Recovery Appliance protection. • Schedule Database Fleet Backup to Recovery Appliance: Provides the ability to schedule the standardized Oracle-suggested Recovery Appliance backup strategy for a fleet of databases that have already been configured for Recovery Appliance protection. • Recovery Appliance Protected Database Fleet Archival Backup Management: Performs and manages archival backups of certain databases in the fleet to meet regulatory requirements. • Database Fleet Advanced Backup Configuration for Recovery Appliance Using EMCLI: Supports the configuration of advanced backup topologies involving databases in an Oracle Data Guard configuration and multiple Recovery Appliances. • Metrics Dashboard: Provides customizable visualization capability for key Engineered Systems hardware and software metrics, as well as curated visualization of metrics pertinent to resource planning.
Zero Data Loss Recovery Appliance Management Pack	Configure Database Fleet Backup to Recovery Appliance Licensed Links	The following are the licensed pages and links for **Configure Database Fleet Backup to Recovery Appliance** in the Zero Data Loss Recovery Appliance Management Pack: • From the **Targets** menu, select **Databases**, **Availability**, and then select **Configure Fleet Backup to Recovery Appliance**. • From the **Targets** menu, select **Recovery Appliances**, **Actions**, and then select **Configure Fleet Backup to Recovery Appliance**.
Zero Data Loss Recovery Appliance Management Pack	Schedule Database Fleet Backup to Recovery Appliance Licensed Links	The following are the licensed pages and links for **Schedule Database Fleet Backup to Recovery Appliance** in the Zero Data Loss Recovery Appliance Management Pack: • From the **Targets** menu, select **Databases**, **Availability**, and then select **Schedule Oracle-Suggested Fleet Backup to Recovery Appliance**. • From the **Targets** menu, select **Recovery Appliances**, **Actions**, and then select **Schedule Oracle-Suggested Fleet Backup to Recovery Appliance**.
Zero Data Loss Recovery Appliance Management Pack	Recovery Appliance Protected Database Fleet Archival Backup Management Licensed Links	The following are the licensed pages and links to **Recovery Appliance Protected Database Fleet Archival Backup Management** in the Zero Data Loss Recovery Appliance Management Pack: • From the **Targets** menu, select **Recovery Appliances**, **Archival Backups**, and then click **Create Archival Backup**. • From the **Targets** menu, select **Recovery Appliances**, **Protected Databases**, and then click **Create Archival Backup**. In the **Create Archival Backup** dialog box, click **Databases in protection policy**.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Zero Data Loss Recovery Appliance Management Pack	Metrics Dashboard Licensed Links	The following is the licensed page and link for **Metrics Dashboard** in the Zero Data Loss Recovery Appliance Management Pack: • From the Database Machine or the appropriate Engineered Systems target menu, select **Metrics Dashboard**.
Zero Data Loss Recovery Appliance Management Pack	Licensed CLI Verbs	The following parameters in the `configure_db_ha -configureBackupToRA` Enterprise Manager Command Line Interface (CLI) verb are licensed as part of the Zero Data Loss Recovery Appliance Management Pack: • `-backup_config` parameter with values: – `GOLD` – `GOLD_WITH_REP` • `br_continuity` parameter and associated parameters: – `alternate_ra_target_name` – `ra_local_vpc_username` – `alternate_ra_override_connect_desc` – `br_continuity_override_connect_desc` – `ship_redo_from_standby`
Zero Data Loss Recovery Appliance Management Pack	Licensed REST APIs	The following Enterprise Manager REST APIs are licensed as part of the Zero Data Loss Recovery Appliance Management Pack: • `/databases/{databaseId}/actions/configureBackup` • `/databases/actions/bulkConfigureBackup` • `/databases/actions/bulkSubmitBackup` • `/zdlra/{raTargetId}/archivalBackups/protectionPolicy/{protectionPolicyName}`

Legacy: Configuration Management Pack for Oracle Database

Oracle Enterprise Manager no longer offers the Configuration Management Pack for Oracle Database. Enterprise Manager 10g and 11g customers who purchased the Configuration Management Pack for Oracle Database can use the Configuration Management Pack features in Enterprise Manager as described in the following table:

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Feature Summary	You are entitled to use the following features with a previously purchased Configuration Management Pack for Oracle Database License: • Compliance Frameworks, Standards and extensibility to meet industry and regulatory compliance requirements. • Configuration Collection Extensibility to create custom configuration collections and extend current collections. • Configuration Compare: one-to-one, one-to-many, file sync. • Configuration History to report on configuration or relations changes during a specific time frame. • Configuration Instance Browser to view Configuration Items and associations associated with a target. • Configuration Save of configurations for reference, baselines or Gold Standards. • Configuration Search for Configuration Items on a specific target or across relationships. • Configuration Topology to view topology for a specified target and its dependencies along with other targets that are dependent on it. • Exadata Database Machine Configuration provides Configuration Information for all components of the DB Machine including, Storage Cells, Database and InfiniBand Switches. • Exadata Database Machine Configuration Actions provides the ability to compare and search. Provides history and compliance information. • File Synchronization of configuration file differences during a comparison. • Real-time configuration change detection and automation of compliance frameworks.
Configuration Management Pack for Oracle Database	Feature Summary (Continued)	With the previous purchase of the Configuration Management Pack for Oracle Database, you also are entitled to the features described in the following sections. These features are restricted to the Oracle Database targets in the Oracle Database Home and the Platform (hardware and operating system) for the CPUs you have licensed. • Application Configuration Console provides IT infrastructure teams with an automated "gold master" approach to infrastructure configuration management. Application Configuration Console includes a restricted-use license for Oracle Database (Enterprise Edition) solely for the purpose of running the Application Configuration Console Server. • Self Update is accessed from the Enterprise Manager home page, click the **Setup** menu, then **Extensibility and Self Update**. The downloading and applying any updates associated with Configuration and Compliance are licensed as part of the Configuration Management Pack for Oracle Database.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Links	The following licensed links, features, and functions apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management of non-Oracle Database targets, you must purchase the appropriate management pack. You are entitled to use the following features with a previously purchased Configuration Management Pack for Oracle Database License: **Configuration Instance Browser** • From the **Targets** menu, select **Databases**, and select a **Database**. From the database home page, click **Oracle Database**, **Configuration**. All features, functions, links, buttons, and drill-downs on this menu, excluding Topology, are licensed as part of the Configuration Management Pack for Oracle Database. • From the database home page, select **Oracle Database**, **Configuration**. All features, functions, links, buttons, and drill-downs on this menu, excluding Topology, are licensed as part of the Configuration Management Pack for Oracle Database. **Configuration Search** • From the **Enterprise** menu, select **Configuration and Search**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Configuration Management Pack for Oracle Database. **Configuration History** • From the **Enterprise** menu, select **Configuration and History**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Configuration Management Pack for Oracle Database. **Configuration Compare** • From the **Enterprise** menu, select **Configuration and Compare**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Configuration Management Pack for Oracle Database.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Links (continued)	**File Synchronization** • When viewing comparison results differences as described in the Configuration Compare feature, select the configuration specification in the tree on the left. Select **Enable File Synchronization**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Configuration Management Pack for Oracle Database. **Configuration Save** • From the **Enterprise** menu, select **Configuration and Save**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Configuration Management Pack for Oracle Database. **Configuration Collection Extensibility** • From the **Enterprise** menu, select **Configuration and Custom**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Configuration Management Pack for Oracle Database. **Real-time Configuration Change Detection and Compliance** • From the **Enterprise** menu, select **Compliance**. All features, functions, links, buttons, and drill-downs associated with the Library, Results, and Real-Time Observations pages are licensed as part of the Configuration Management Pack for Oracle Database. **Configuration Topology** • From the Target Home Page, click **Oracle Database**, **Configuration**, **Topology**. In the View drop-down, **Used By** is licensed as part of the Configuration Management Pack for Oracle Database. • From the Target Home Page, click **Oracle Database**, **Configuration**, **Topology**, **Customization**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Configuration Management Pack for Oracle Database.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Reports	The following reports are part of the Configuration Management Pack for Oracle Database. These reports and associated features apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management of non-Oracle Database targets, you must purchase the appropriate management pack. All database reports in each of these sections are licensed for this pack. To access the reports, go to the **Enterprise Manager** home page, and from the **Enterprise** menu, select **Reports**, and then select **Information Publisher Reports**. If you have Oracle Analytics Server installed and configured with Oracle Enterprise Manager along with the out-of-the-box reports, go to Oracle Analytics Server. The following reporting areas, reports, and sub-reports under **Information Publisher Reports** are licensed as part of the Configuration Management Pack for Oracle Database: • Compliance • Configuration The following reporting areas, reports, and sub-reports under your independently configured Oracle Analytics Server installation are licensed as part of the Configuration Management Pack for Oracle Database: • Compliance • Configuration

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Configuration Views	The following Configuration repository views are part of the Configuration Management Pack for Oracle Database: MGMT$CCS_DATA MGMT$CCS_DATA_SOURCE MGMT$CCS_DATA_SOURCE_VISIBLE MGMT$CCS_DATA_VISIBLE MGMT$CS_ASM_DISKGRP_SETTINGS MGMT$CS_DB_CONTROL_FILE_COUNT MGMT$CS_DB_INIT_PARAMS MGMT$CS_DB_RBS_IN_SYSTEM MGMT$CS_DB_REC_SEG_SETTINGS MGMT$CS_DB_REC_TS_SETTINGS MGMT$CS_DB_REC_USER_SETTINGS MGMT$CS_DB_REDO_LOG_COUNT MGMT$CS_DB_REDO_LOGS MGMT$CS_DB_TABLESPACES MGMT$CS_DB_TBSP_SEGSPACE_MGMT MGMT$CS_FEATURE_USAGE MGMT$CS_HA_INFO MGMT$DB_CONTROLFILES MGMT$DB_DATAFILES MGMT$DB_DBNINSTANCEINFO MGMT$DB_FEATUREUSAGE MGMT$DB_INIT_PARAMS MGMT$DB_LICENSE MGMT$DB_OPTIONS MGMT$DB_REDOLOGS MGMT$DB_ROLLBACK_SEGS MGMT$DB_SGA MGMT$DB_TABLESPACES MGMT$DB_TABLESPACES_ALL MGMT$ECM_CURRENT_SNAPSHOTS MGMT$ECM_VISIBLE_SNAPSHOTS MGMT$HW_CPU_DETAILS MGMT$HW_IO_DEVICES MGMT$HW_NIC_BONDS MGMT$J2EE_APPLICATION MGMT$J2EEAPP_EJBCOMPONENT MGMT$J2EEAPP_JRFWS MGMT$J2EEAPP_JRFWSOPER MGMT$J2EEAPP_JRFWSPOLICY MGMT$J2EEAPP_JRFWSPORT MGMT$J2EEAPP_WEBAPPCOMPONENT MGMT$J2EEAPP_WSCONFIG

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Compliance Views	The following Configuration repository views are part of the Configuration Management Pack for Oracle Database: MGMT$CCC_ALL_OBS_BUNDLES MGMT$CCC_ALL_OBSERVATIONS MGMT$CCC_DIAG_ANALYTICS MGMT$CCC_DIAG_QUEUEBACKLOG MGMT$COMPLIANCE_STANDARD MGMT$COMPLIANCE_STANDARD_GROUP MGMT$COMPLIANCE_STANDARD_RULE MGMT$COMPOSITE_CS_EVAL_SUMMARY MGMT$CS_EVAL_SUMMARY MGMT$CS_GROUP_EVAL_SUMMARY MGMT$CS_RULE_EVAL_SUMMARY MGMT$CS_TARGET_ASSOC MGMT$J2EEAPP_WSPORTCONFIG MGMT$OS_INIT_SERVICES MGMT$OS_KERNEL_PARAMS MGMT$OS_LIMITS MGMT$OS_MODULES MGMT$OS_PROPERTIES MGMT$SERVICETAG_INSTANCES MGMT$SERVICETAG_REGISTRY MGMT$UNPATCHABLE_DB_TARGETS MGMT$WEBLOGIC_APPLICATIONS MGMT$WEBLOGIC_CLUSTER MGMT$WEBLOGIC_DOMAIN MGMT$WEBLOGIC_EJBCOMPONENT MGMT$WEBLOGIC_JDBCDATASOURCE MGMT$WEBLOGIC_JDBCMULTIDS MGMT$WEBLOGIC_JMSCONNFACTORY MGMT$WEBLOGIC_JMSQUEUE MGMT$WEBLOGIC_JMSTOPIC MGMT$WEBLOGIC_JOLTCONNPOOL MGMT$WEBLOGIC_MACHINE MGMT$WEBLOGIC_NETWORK_CHANNELS MGMT$WEBLOGIC_NODEMANAGER MGMT$WEBLOGIC_RACONFIG MGMT$WEBLOGIC_RAOUTBOUNDCONFIG MGMT$WEBLOGIC_RESOURCECONFIG MGMT$WEBLOGIC_SERVER MGMT$WEBLOGIC_STARTSHUTCLASSES MGMT$WEBLOGIC_VIRTUALHOST MGMT$WEBLOGIC_WEBAPPCOMPONENT MGMT$WEBLOGIC_WORKMANAGER MGMT$WEBLOGIC_WSCONFIG

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Oracle Home Patching Views	The following Oracle Home Patching repository views are part of the Configuration Management Pack for Oracle Database: MGMT$APPLIED_PATCHES MGMT$APPLIED_PATCHSETS MGMT$APPL_PATCH_AND_PATCHSET MGMT$CPF_ADVISORY_INFO MGMT$CPF_HOMES_INFO MGMT$CPF_PATCH_INFO MGMT$EM_HOMES_PLATFORM MGMT$HOMES_AFFECTED MGMT$OH_CLONE_PROPERTIES MGMT$OH_COMP_DEP_RULE MGMT$OH_COMP_INST_TYPE MGMT$OH_COMPONENT MGMT$OH_CRS_NODES MGMT$OH_DEP_HOMES MGMT$OH_FILE MGMT$OH_HOME_INFO MGMT$OH_INSTALLED_TARGETS MGMT$OH_INV_SUMMARY MGMT$OH_PATCH MGMT$OH_PATCHED_COMPONENT MGMT$OH_PATCHED_FILE MGMT$OH_PATCHSET MGMT$OH_PATCH_FIXED_BUG MGMT$OH_VERSIONED_PATCHV MGMT$PATCH_ADVISORIES
Configuration Management Pack for Oracle Database	Licensed Security Views	The following Security repository views are part of the Configuration Management Pack for Oracle Database: MGMT$ESA_ALL_PRIVS_REPORT MGMT$ESA_ANY_DICT_REPORT MGMT$ESA_ANY_PRIV_REPORT MGMT$ESA_AUDIT_SYSTEM_REPORT MGMT$ESA_BECOME_USER_REPORT MGMT$ESA_CATALOG_REPORT MGMT$ESA_CONN_PRIV_REPORT MGMT$ESA_CREATE_PRIV_REPORT MGMT$ESA_DBA_GROUP_REPORT MGMT$ESA_DBA_ROLE_REPORT MGMT$ESA_DIRECT_PRIV_REPORT MGMT$ESA_EXMPT_ACCESS_REPORT MGMT$ESA_KEY_OBJECTS_REPORT MGMT$ESA_OH_OWNERSHIP_REPORT MGMT$ESA_OH_PERMISSION_REPORT MGMT$ESA_POWER_PRIV_REPORT MGMT$ESA_PUB_PRIV_REPORT MGMT$ESA_SYS_PUB_PKG_REPORT MGMT$ESA_TABSP_OWNERS_REPORT MGMT$ESA_TRC_AUD_PERM_REPORT MGMT$ESA_WITH_ADMIN_REPORT MGMT$ESA_WITH_GRANT_REPORT

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Client Configuration Views	The following Client Configuration repository views are part of the Configuration Management Pack for Oracle Database: MGMT$CSA_COLLECTIONS MGMT$CSA_FAILED MGMT$CSA_HOST_COOKIES MGMT$CSA_HOST_CPUS MGMT$CSA_HOST_CUSTOM MGMT$CSA_HOST_IOCARDS MGMT$CSA_HOST_NICS MGMT$CSA_HOST_OS_COMPONENTS MGMT$CSA_HOST_OS_PROPERTIES MGMT$CSA_HOST_OS_FILESYSEMS MGMT$CSA_HOST_RULES MGMT$CSA_HOST_SW MGMT$ECM_CONFIG_HISTORY MGMT$ECM_CONFIG_HISTORY_KEY1 MGMT$ECM_CONFIG_HISTORY_KEY2 MGMT$ECM_CONFIG_HISTORY_KEY3 MGMT$ECM_CONFIG_HISTORY_KEY4 MGMT$ECM_CONFIG_HISTORY_KEY5 MGMT$ECM_CONFIG_HISTORY_KEY6 MGMT$HW_NIC MGMT$OS_COMPONENTS MGMT$OS_FS_MOUNT MGMT$OS_HW_SUMMARY MGMT$OS_HW_SUMMARY MGMT$OS_PATCHES MGMT$OS_SUMMARY MGMT$SOFTWARE_COMPONENT_ONEOFF MGMT$SOFTWARE_COMPONENTS MGMT$SOFTWARE_COMP_PATCHSET MGMT$SOFTWARE_DEPENDENCIES MGMT$SOFTWARE_HOMES MGMT$SOFTWARE_ONEOFF_PATCHES MGMT$SOFTWARE_OTHERS MGMT$SOFTWARE_PATCHES_IN_HOMES MGMT$SOFTWARE_PATCHSETS

Legacy: Change Management Pack for Oracle Database

Oracle Enterprise Manager no longer offers the Change Management Pack for Oracle Database. Enterprise Manager 10g and 11g Customers who purchased the Change Management Pack for Oracle Database can use the Change Management features in Enterprise Manager as described in the following table:

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Change Management Pack for Oracle Database	Feature Summary	You are entitled to use the following features with a Change Management Pack for Oracle Database License: • Schema Comparisons of database objects in two databases or baselines in Enterprise Manager or SQL developer. • Schema and Data Comparisons to automate the comparison of database schema and data across Databases or saved baselines. • Schema and Data Synchronization to propagate database objects and schemas with or without data, and update database object definitions. • Copy Database Objects with data, with a subset of data, or without data. • Real-time schema change detection to track schema changes in real time to identify unwanted or unplanned changes. With the previous purchase of the Change Management Pack for Oracle Database, you also are entitled to the features described below. These features are restricted to the Oracle Database targets in the Oracle Database Home and the Platform (hardware and operating system) for the CPUs you have licensed. • Self Update is accessed from the **Setup** menu, select **Extensibility and Self Update**. The downloading and applying any updates associated with Database Change Management are licensed as part of the Change Management Pack for Oracle Database.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Change Management Pack for Oracle Database	Licensed Links	The following Licensed Links, features, and functions apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management of non-Oracle Database targets, you must purchase the appropriate management pack. The following are the licensed pages, links, features, and functions that can be use with an existing Change Management Pack for Oracle Database License: **Schema Comparison** • From the **Targets** menu, select **Databases**, and then select a **Database**. From the database home page, click **Schema**, **Change Management**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Change Management Pack for Oracle Database. **Schema and Data Comparisons** • From the **Targets** menu, select **Databases**, and then select a **Database**. From the database home page, click **Schema**, **Change Management**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Change Management Pack for Oracle Database. **Schema and Data Synchronization** • From the **Targets** menu, select **Databases**, and then select a **Database**. From the database home page, click **Schema**, **Change Management**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Change Management Pack for Oracle Database. **Copy Objects** • From the **Targets** menu, select **Databases**, and then select a **Database**. From the database home page, click **Schema**, **Change Management**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Change Management Pack for Oracle Database. **Real-Time Schema Change Detection** • From the **Targets** menu, select **Databases**, and then select a **Database**. From the database home page, click **Schema**, **Change Management**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Change Management Pack for Oracle Database.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Change Management Pack for Oracle Database	Licensed Reports	The following reports are part of the Change Management Pack for Oracle Database. All the Oracle Database reports in each of these sections are licensed for this pack. To access the reports, go to the **Enterprise Manager** home page, and from the **Enterprise** menu, select **Reports**, and then select **Information Publisher Reports**. If you have Oracle Analytics Server installed and configured with Oracle Enterprise Manager along with the out-of-the-box reports, go to Oracle Analytics Server. The following reporting areas, reports, and sub-reports under **Information Publisher Reports** are licensed as part of the Change Management Pack for Oracle Database: • Database Change Management The following reporting areas, reports, and sub-reports under your independently configured Oracle Analytics Server installation are licensed as part of the Change Management Pack for Oracle Database: • Database Change Management
Change Management Pack for Oracle Database	Licensed Parameters	The `init.ora` parameter `ENABLE_DDL_LOGGING` is licensed as part of the Change Management Pack for Oracle Database when set to TRUE. The default is FALSE.

Legacy: Provisioning and Patch Automation Pack for Oracle Database

Oracle Enterprise Manager no longer offers the Provisioning and Patch Automation Pack for Oracle Database. Enterprise Manager 10g and 11g customers who purchased the Provisioning and Patch Automation Pack for Oracle Database can use the Provisioning and Patch Automation features in Enterprise Manager as described in the following table:

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Provisioning and Patch Automation Pack for Oracle Database	Feature Summary	You are entitled to use the following features with a previously purchased Provisioning and Patch Automation Pack for Oracle Database license: • Database Patching for end-to-end patch automation for Oracle Database and RAC. • Database Provisioning to provision databases and Oracle homes. • Database Upgrade existing Oracle Database. • Patch Recommendations of My Oracle Support Critical Patch Recommendations. • Patching Planning of My Oracle Support Patching Plans, patch Validation and Download. • Provisioning Procedures to deploy operating system and Oracle Database and Real Application Clusters. • RAC Scale Out and Scale Back to extend single instance databases to RAC. With the previous purchase of the Provisioning and Patch Automation Pack for Oracle Database, you also are entitled to the features described in the following sections. These features are restricted to the Oracle Database targets in the Oracle Database Home and the Platform (hardware and operating system) for the CPUs you have licensed. • The `oplan` Utility (The basic OPlan feature is free for everyone that has an Oracle Support contract. Use of OPlan metadata to drive orchestration logic from either Enterprise Manager or custom/third-party scripts is part of the Provisioning and Patch Automation Pack for Oracle Database.) • Migrate to ASM • Self Update

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Provisioning and Patch Automation Pack for Oracle Database	Licensed Links	The following licensed links, features, and functions apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management of non-Oracle Database targets, you must purchase the appropriate management pack: **Provisioning Procedures** • From the **Enterprise** menu, select **Provisioning and Patching**, then **Procedure Library**. All Procedures that Clone, Provision, Patch, and Upgrade a Database are licensed with the Provisioning and Patch Automation Pack for Oracle Database. • From the **Enterprise** menu, select **Provisioning and Patching**, then **Database Provisioning**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database. • From the Oracle database or cluster database target home page, click the **Oracle Database** menu, then **Provisioning**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database. **Database Upgrade** • From the **Enterprise** menu, select **Provisioning and Patching**, then **Procedure Library**. All procedures that upgrade a Database are licensed with the Provisioning and Patch Automation Pack for Oracle Database. • From the **Enterprise** menu, select **Provisioning and Patching**, then **Database Provisioning**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database. • From the Oracle database or cluster database target home page, click the **Oracle Database** menu, then **Provisioning**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Provisioning and Patch Automation Pack for Oracle Database	Licensed Links (continued)	**Database Provisioning and Cloning** • From the **Enterprise** menu, select **Provisioning and Patching**, then **Procedure Library**. All procedures that Clone and Provision a Database are licensed with the Provisioning and Patch Automation Pack for Oracle Database. • From the **Enterprise** menu, select **Provisioning and Patching**, then **Database Provisioning**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database. • From the Oracle database or cluster database target home page, click the **Oracle Database** menu, then **Provisioning**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database. **RAC Scale Out and Scale Back** • From the **Enterprise** menu, select **Provisioning and Patching**, then **Procedure Library**. All Procedures that Extend or Scale a database or RAC are licensed with the Provisioning and Patch Automation Pack for Oracle Database. • From the **Enterprise** menu, select **Provisioning and Patching**, then **Database Provisioning**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database. • From the Oracle cluster database target home page, click the **Oracle Database** menu, then **Provisioning**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database. **Database Patching** • From the Enterprise Manager home page, click the **Enterprise** menu, **Provisioning and Patching**, then **Procedure Library**. All Procedures that patch a database, Clusterware or Real Application Clusters are licensed with the Provisioning and Patch Automation Pack for Oracle Database. **Offline Patching** • From the Enterprise Manager home page, click the **Setup** menu, **Provisioning and Patching**, then **Offline Patching**. From the **Online and Offline Setting** tab, the **Connection**, **Offline** setting is licensed with the Provisioning and Patch Automation Pack for Oracle Database.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Provisioning and Patch Automation Pack for Oracle Database	Licensed Reports	The following reports are part of the Provisioning and Patch Automation Pack for Oracle Database. These reports and associated features apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management of non-Oracle Database targets, you must purchase the appropriate management pack. All reports in each of these sections are licensed for this pack. To access the reports, go to the **Enterprise Manager** home page, and from the **Enterprise** menu, select **Reports**, and then select **Information Publisher Reports**. If you have Oracle Analytics Server installed and configured with Oracle Enterprise Manager along with the out-of-the-box reports, go to Oracle Analytics Server. The following reporting areas, reports, and sub-reports under **Information Publisher Reports** are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database: • Deployment and Configuration The following reporting areas, reports, and sub-reports under your independently configured Oracle Analytics Server installation are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database: • Deployment and Configuration

Provisioning and Patch Automation Pack for Oracle Database	Licensed CLI Verbs	The following Enterprise Manager command line interface (CLI) verbs are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database:
		`clone_database`
		`confirm_instance`
		`create_database`
		`describe_instance`
		`describe_procedure_input`
		`get_executions`
		`get_instance_data`
		`get_instance_status`
		`get_instances`
		`get_procedure_types`
		`get_procedure_xml`
		`get_procedures`
		`get_retry_argument`
		`ignore_instance`
		`reschedule_instance`
		`resume_instance`
		`save_procedure`
		`stop_instance`
		`submit_procedure`
		`suspend_instance`
		`update_and_retry_step`
		`update_procedure_input`
		`upgrade_database`

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Provisioning and Patch Automation Pack for Oracle Database	Licensed Provisioning and Patching Views	The following Provisioning and Patching repository views are part of the Provisioning and Patch Automation Pack for Oracle Database: **Provisioning and Patching Views** EM$PROV_APPTYPES EM$PROVAPP_METADATA EM$PROVAPP_METADATA_VERSION EM$PROVAPP_TAG_PROPERTIES EM$PROVAPP_TAGS MGMT$PA_RECOM_METRIC_SOURCE **Patching Views** GC$EM_PC_PLAN_PATCHES GC$EM_PC_PLAN_TARGETS GC$EM_PC_PLANS GC_PC_EXECUTION_INSTANCES GC_PC_PLAN_ANALYSIS_RS GC_PC_PLAN_REMEDY GC_PC_PLAN_REMEDY_DETAILS GC_PC_PLAN_USERS GC_PC_TARGETS MGMT$APPLIED_PATCHES MGMT$APPLIED_PATCHSETS MGMT$ARU_FAMILY_PRODUCT_MAP MGMT$ARU_LANGUAGES MGMT$ARU_PATCH_RECOMMENDATIONS MGMT$ARU_PLATFORMS MGMT$ARU_PRODUCTS MGMT$ARU_PRODUCT_RELEASE_MAP MGMT$ARU_RELEASES MGMT$ARU_TARGETS MGMT$PA_AFFTED_HOST_GUID_OH MGMT$PA_AFFTED_HOST_OH MGMT$PA_AFFTED_TARGETS MGMT$PA_FINAL_PATCH_LIST MGMT$PA_TARGET_MAPPING MGMT$PR_APPL_PATCHES_TO_OH MGMT$PR_APPL_PATCHES_TO_OH_TGT MGMT$PR_HOMES_AFFECTED_COUNT MGMT$PR_HOME_INFO MGMT$RECOM_METRIC_SOURCE

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Provisioning and Patch Automation Pack for Oracle Database	Licensed Oracle Home Patching Views	The following Oracle Home Patching repository views are part of the Provisioning and Patch Automation Pack for Oracle Database: MGMT$APPLIED_PATCHES MGMT$APPLIED_PATCHSETS MGMT$APPL_PATCH_AND_PATCHSET MGMT$CPF_ADVISORY_INFO MGMT$CPF_HOMES_INFO MGMT$CPF_PATCH_INFO MGMT$EM_HOMES_PLATFORM MGMT$HOMES_AFFECTED MGMT$OH_CLONE_PROPERTIES MGMT$OH_COMPONENT MGMT$OH_COMP_DEP_RULE MGMT$OH_COMP_INST_TYPE MGMT$OH_CRS_NODES MGMT$OH_DEP_HOMES MGMT$OH_FILE MGMT$OH_HOME_INFO MGMT$OH_INSTALLED_TARGETS MGMT$OH_INV_SUMMARY MGMT$OH_PATCH MGMT$OH_PATCHED_COMPONENT MGMT$OH_PATCHED_FILE MGMT$OH_PATCHSET MGMT$OH_PATCH_FIXED_BUG MGMT$OH_VERSIONED_PATCHV MGMT$PATCH_ADVISORIES

Copyright © 2015, 2025, Oracle and/or its affiliates.

3

Oracle Middleware Enterprise Management

This chapter describes the licensed features and links about the management packs offered by Enterprise Manager in support of Oracle Middleware Enterprise Management:

- WebLogic Server Management Pack Enterprise Edition
- SOA Management Pack Enterprise Edition
- Management Pack for WebCenter
- Management Pack for Oracle Coherence
- Management Pack for Oracle Data Integrator
- Business Intelligence Management Pack

WebLogic Server Management Pack Enterprise Edition

The WebLogic Server Management Pack Enterprise Edition offers a solution for managing Oracle Fusion Middleware and Oracle WebLogic Server. This pack provides capabilities that span the solution areas of application performance management, administration, service level management and lifecycle management that span many of these products and components.

> **Note**
>
> All Oracle Enterprise Manager Fusion Middleware Control 12c, Oracle Enterprise Manager Fusion Middleware Control 11g functionality is included with each edition of Oracle Fusion Middleware. The links and areas that require the WebLogic Server Management Pack Enterprise Edition are outside of Fusion Middleware Control.

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	General Features	The following general features are available with this pack and, unless otherwise stated, are available from Oracle Enterprise Manager 24ai: • Enterprise Messaging provides an enterprise-class messaging engine built into the application server for simplified application development and infrastructure management. • Java Mission Control is an intuitive Eclipse-based GUI for analyzing Java Flight Recorder data and is integrated into the WebLogic Diagnostic Framework to enable combined Oracle WebLogic Server and JVM event analysis • Java Flight Recorder captures JVM events in a circular buffer that can be persisted to disk for post-incident analysis.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Application Performance Management Overview	The WebLogic Server Management Pack Enterprise Edition delivers comprehensive management and modeling capabilities for pure Java EE and web service environments for applications running in Oracle WebLogic Server. By combining contextual drill-down modeling capabilities with extensive metrics that can span containers horizontally and the entire vertical stack for Java EE, this pack significantly reduces the cost and complexity of managing Java EE-based environments in development, testing, staging, and production environments.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Application Performance Management Features	Unless otherwise stated, the following features apply to Oracle WebLogic Server environment: • "Always on" low overhead monitoring, notifications, and dashboards to diagnose past problems, receive early warnings of outages, see a single view of the status of all applications. • Blackouts to suspend monitoring on targets to support scheduled maintenance periods. This includes the use of Blackouts in the Enterprise Manager console, EMCLI and REST APIs. • Business Application Management to create and monitor business application targets to provide an intuitive representation of the relationship between your applications and business transactions and the underlying IT infrastructure. • Composite Application Management provides full visibility across all members and tiers of a composite application. • Cross-tier trace with Oracle Database to view the impact of database problems on all associated applications and JVMs, and isolate problems between Java and the database • Differential heap analysis uses memory leak analysis in production, and simplify memory growth and leak analysis. • Historical performance monitoring to track availability and performance data over time. • Interactive JVM transaction trace provides JVM thread tracing. View the response time breakdowns in each layer (servlet, JSP, EJB, JDBC, and SQL) of a JVM container. • JVM Diagnostics Agent hot deployment to deploy JVM Diagnostics Agent without application server restarts or configuration changes. • Management Connectors, such as ticketing connectors and event connectors, integrate Enterprise Manager with other management systems. Ticketing connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other event management systems. • Metric and Alert/Event History. This includes the use of metrics in the Enterprise Manager console, EMCLI and REST APIs. • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets for standardization. This includes the use of Monitoring Templates in the Enterprise Manager console and EMCLI. • Dynamic Runbooks enable subject matter experts to encapsulate best practice steps for diagnosing and resolving issues into a runbook that can be executed directly inside Enterprise Manager. • Event Compression reduces incidents by correlating and combining related events into a smaller set of incidents. • Template Collections (with Administration Groups) automate the deployment of management settings on targets as they join the group. This includes the use of Template Collections in the Enterprise Manager console and EMCLI.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Application Performance Management Features (Continued)	• Notifications that define and use different notification methods including e-mail, OS scripts, PL/SQL procedures, SNMP traps, Webhooks and Slack. Also includes repeat notifications, use of notification-related actions in incident rule sets, and administrator notification schedules. • Real-time visibility into a JVM and application state without instrumentation overhead. • Request performance provides historical views that show the response times for end-user requests from the context of WebLogic Server and the underlying JVM. • Service-level objectives provides service-level objectives (SLOs) at any point within the architecture for indicators and alerts. • Trace in-flight transactions to view request performance problems in real time. Analyze time spent in each resource bottleneck and Java method. • JVM pool monitoring to monitor all JVMs of an application with uniform monitoring settings.
WLS Management Pack EE	Application Performance Management Features	The following Application Performance Management features apply to the Oracle WebLogic Server environment: • Log Viewer, Log Search, and Log Monitoring to access Oracle Fusion Middleware log files quickly and easily - no matter where they are stored on the file system. Search and correlate log messages across all Oracle Fusion Middleware components' logs based on properties such as time, severity or Execution Context ID (ECID). • Contextual visibility into Java EE and web service metrics. • Diagnostic Snapshot that preserves snapshots of both JVM monitoring and diagnostics data in correlation with the WebLogic Server log files. • Metrics visibility for any layer that generate customized dashboards and views automatically.
WLS Management Pack EE	Application Performance Management Feature Restrictions	Within the WebLogic Server Management Pack Enterprise Edition product, licensing is restricted to Java EE and does not include SOA, BPEL, WebCenter, Portal, OSB, ESB, AIA, or Pageflow components.
WLS Management Pack EE	Coherence Management Overview	The Coherence Management features within the WebLogic Server Management Pack Enterprise Edition provide comprehensive monitoring and management capabilities for Coherence. The features provide complete cluster visibility by supplying detailed metrics of various cluster artifacts and their interdependencies. You can monitor more than one Coherence cluster from a single console. **Note:** The WebLogic Server Management Pack Enterprise Edition license covers Coherence Management when Coherence runs on the same CPU as WebLogic Server. If Oracle Coherence runs in different CPU from WebLogic Server, then you must license the Management Pack for Oracle Coherence.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Coherence Management Features	Coherence Management within the WebLogic Server Management Pack Enterprise Edition includes the following features: • Automate deployment setup of the Coherence cluster with multiple nodes. • Complete cluster visibility provides detailed metrics for all Coherence components. • Configuration management to change run-time configuration parameters of multiple nodes, caches, and services from the central user interface console. • Monitor multiple clusters from a single console.
WLS Management Pack EE	Lifecycle Management Overview	The lifecycle management features of WebLogic Server Management Pack Enterprise Edition help administrators automate the processes required to manage the lifecycle of Oracle middleware software such as Oracle WebLogic Server. It eliminates manual and time-consuming tasks related to provisioning, patching, configuration management, and compliance management.
WLS Management Pack EE	Lifecycle Management License to Provision	License to provision the following Oracle products is included as part of WebLogic Server Management Pack Enterprise Edition (including both out-of-the-box and user-defined deployment procedures): • WebLogic Server • Forms, Reports • Oracle Coherence **Note** With the exception of WLS and Coherence components, not all have out-of-the-box provisioning supported. They can be provisioned via user defined procedures. Provisioning for the following Fusion Middleware components is not included in the WebLogic Server Management Pack Enterprise Edition license: • SOA Suite • BPM Suite • Oracle Service Bus • AIA • WebCenter Suite • Oracle Identity Management • Oracle Business Intelligence Enterprise Edition

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Lifecycle Management Features	Unless otherwise stated, the following lifecycle management features apply to the Oracle WebLogic Server environment: • Migrate a WebLogic Domain to a Domain Partition . • Export partition from one domain and import that partition into another domain. • Compliance to provide compliance frameworks, standards, and extensibility to meet industry and regulatory compliance requirements. The following out-of-the-box standards are part of Lifecycle Management features: 1. Security Technical Implementation Guide (STIG Version 1.1) for Oracle WebLogic Server 12c. 2. Technical Implementation Guide (STIG Version 1.2) for Oracle WebLogic Server 12c. 3. Security Technical Implementation Guide (STIG Version 1) for Oracle HTTP Server 12c • Configuration Collection Extensibility to create custom configuration collections and extend current collections. • Configuration Compare of configurations, one-to-one, one-to-many. • Configuration History to report and notify on configuration or relations changes during a specific time frame. • Configuration Instance Browser to view configuration items and associations associated with a target. • Configuration Save for reference, baselines, or gold standards. • Configuration Search for configuration items on a specific target or across relationships. • Configuration Topology for a specified target and its dependencies along with other targets that are dependent on it. • Notifications of configuration changes or differences. • Patching to provide end-to-end patch automation for Oracle WebLogic Server. • Provisioning Deployment Procedures to: *Clone* WebLogic/Middleware Home or WebLogic Domain from profiles stored in the software library. *Scale up/down or out* WebLogic Domain. *Deploy/redeploy/undeploy* Java EE applications to Oracle WebLogic Domain(s). *Perform first-time provisioning* of Middleware Home and/or WebLogic Domains from installation media stored in the software library. • User Defined Deployment Procedures (UDDP) to automate custom processes by creating a procedure from the start by inserting the required phases, steps, and variables.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Lifecycle Management Features (Continued)	• Patch Recommendations *(Only applicable to WebLogic Server)* for My Oracle Support security patch update recommendations. • Real-time configuration change detection and automation of compliance frameworks along with automated observation authorization using a Change Management Connector. • Routing Topology to understand relationships and health of a Fusion Middleware Farm/WebLogic Domain and their related targets. • Self Update to download and apply updates associated with Patching, Provisioning, and Compliance of Oracle WebLogic Server targets. • Synchronization of WebLogic Server Configuration Files (for example, `config.xml`) from Enterprise Manager if differences are detected between WebLogic Domains or WebLogic Servers during a configuration comparison operation.
WLS Management Pack EE	Administration Overview	The administration features of WebLogic Server Management Pack Enterprise Edition help administrators perform common administration operations in a WebLogic Server environment directly from Enterprise Manager; thereby, removing the need to drill down and log in to the Oracle Enterprise Manager Fusion Middleware Control console or to the Oracle WebLogic Server Administration Console.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Administration Features	The following features apply to the Oracle WebLogic Server environment: • Option to edit the Multitenant feature of Oracle WebLogic Server 12.2.1 and later is included in the WLS Management Pack EE. This includes being able to create, edit and delete resource groups, resource group templates, virtual targets and partitions • Change Center to lock a domain configuration and save changes. You lock a configuration prior to making changes to prevent other administrators from making changes during your edit session. View all changes that have been saved, view the server instances that must be restarted for configuration changes to take effect, release a lock, and activate or undo changes • System MBean Browser to view, configure, and use MBeans for a specific Oracle WebLogic Server or Application Deployment target. • Manage JDBC Data Sources to create, edit, delete, control, and test JDBC data sources. • Record configuration actions performed as a series of WebLogic Scripting Tool (WLST) commands. You can use WLST to replay the commands to help automate the task of configuring a domain. You can start, stop or view a recording. • Log Configuration for Oracle Fusion Middleware components for Oracle WebLogic Server, Application Deployment, SOA Infrastructure, Essbase Server, Directory Integration Platform Server, Oracle Virtual Directory, Oracle Reports Application, Oracle Reports Bridge, Oracle Reports Server, and Oracle Reports Tools targets. • Selective Tracing for Oracle Fusion Middleware from Enterprise Manager. Enables administrators to gain more fine-grained logging data but limit the data such that it applies to a specific application name, and other specific attributes of a request (for example, user name, client host, and/or web service port). • WebLogic Cluster Administration to view and edit settings for the WebLogic Cluster. • WebLogic Domain Administration to view and edit settings for the WebLogic Domain. • WebLogic Server Administration to view and edit settings for the WebLogic Server. • Machine Administration to view and edit settings for a machine. • Server Template Administration to view and edit settings for a Server Template (this feature is applicable to WebLogic Server version 12c and not applicable to earlier versions). • Deployed Application administration to edit settings for deployed applications *(This feature is applicable to WLS 12.2.1 and later. Not applicable to earlier versions)*
WLS Management Pack EE	Chargeback Feature	Metering and chargeback provide support based on fixed cost, utilization metrics, and configuration parameters of the WebLogic Server.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Licensed Links Overview	To use any of the features described above, you must purchase licenses to the WebLogic Server Management Pack Enterprise Edition. The Licensed Links content below itemize the Enterprise Manager links that require licensing of the WebLogic Server Management Pack Enterprise Edition, and should not be accessible if the WebLogic Server Management Pack Enterprise Edition has been disabled. The WebLogic Server Management Pack Enterprise Edition does not include features for Business Process Execution Language (BPEL), Oracle Service Bus (OSB), Oracle SOA Infra, and Oracle SOA Composite. For these Oracle Fusion Middleware components, the SOA Management Pack Enterprise Edition must be licensed. **Note:** While Enterprise Manager functionality to manage Oracle WebLogic Server is rather consistent across versions of Oracle WebLogic Server, the specific licensable links under the WebLogic Server Management Pack Enterprise Edition and the navigation to those links may be different across different versions of Oracle WebLogic Server. Consequently, some of the following sections distinguish between licensed links for different WebLogic Server versions.
WLS Management Pack EE	Oracle Fusion Middleware Target Types	In general, the Licensed Links content below apply to the following Oracle Fusion Middleware target types: • Oracle WebLogic Node Manager • Oracle WebLogic Domain Partition • Partition Application Deployment • Oracle Coherence Domain Partition Cache • Oracle Coherence Cache • Oracle Coherence Cluster • Oracle Coherence Node • Oracle Fusion Middleware Farm • Oracle WebLogic Domain • Oracle WebLogic Cluster • Oracle WebLogic Server • Business Application • SMPP Driver • Clustered Application Deployment • Domain Application Deployment • Application Deployment • Oracle HTTP Server (installed either collocated with a WebLogic Domain or as a standalone domain) • Oracle Coherence • VoiceXML Driver • Oracle Forms Services • Oracle Portal • Oracle Reports Application • XMPP Driver • Oracle Reports Bridge • Oracle Reports Server • Oracle Reports Tools • Oracle User Messaging Service • User Messaging Email Driver • Java Virtual Machine • Java Virtual Machine Pool

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Licensed Links Outside of Target-Specific Pages	The following are the licensed pages and links for the WebLogic Server Management Pack Enterprise Edition outside of target-specific pages: **Application Performance Management** • From the **Setup** menu, select **Middleware Management**, and then select **Engines and Agents**. On the Setup page, the ability to register and manage Application Performance Management Engines and other items are licensable as part of the WebLogic Server Management Pack Enterprise Edition, SOA Management Enterprise Edition depending on the type of engine that is added. **Compliance** • From the **Enterprise** menu, select **Compliance**. All features, functions, links, buttons, and drill-downs associated with the Library, Real-time Observations, and Results pages are licensed as part of the WebLogic Server Management Pack Enterprise Edition. **Self Update** • From **Setup** menu, select **Extensibility**, and then select **Self Update**. The downloading and applying any updates associated with Patching, Provisioning, and Compliance of middleware targets identified above are licensed as part of the WebLogic Server Management Pack Enterprise Edition.
WLS Management Pack EE	Configuration Licensed Links Outside of Target-Specific Pages	The following are the Configuration licensed pages and links for the WebLogic Server Management Pack Enterprise Edition outside of target-specific pages: **Configuration Extensions** • From the **Enterprise** menu, select **Configuration**, then **Configuration Extensions**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the WebLogic Server Management Pack Enterprise Edition. **Comparison & Drift Management** • From the **Enterprise** menu, select **Configuration**, then **Configuration and Drift Management**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the WebLogic Server Management Pack Enterprise Edition. **Configuration History** • From the **Enterprise** menu, select **Configuration and History**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the WebLogic Server Management Pack Enterprise Edition. **Configuration Save** • From the **Enterprise** menu, select **Configuration**, then **Saved**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the WebLogic Server Management Pack Enterprise Edition. **Configuration Search** • From the **Enterprise** menu, select **Configuration and Search**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the WebLogic Server Management Pack Enterprise Edition.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Provisioning and Patching Licensed Links Outside of Target-Specific Pages	The following are the Provisioning and Patching licensed pages and links for the WebLogic Server Management Pack Enterprise Edition outside of target-specific pages: **Offline Patching** • From the **Setup** menu, select **Provisioning and Patching**, and then select **Offline Patching**. From the Online and Offline Setting tab, the Connection, Offline setting is licensed with the WebLogic Server Management Pack Enterprise Edition. **User Defined Deployment Procedures (UDDP)** • From the **Enterprise** menu, select **Provisioning and Patching**, and then select **Procedure Library**. On the Provisioning Library page, from the list of actions, the Create New option is licensed as part of the WebLogic Server Management Pack Enterprise Edition. **WebLogic Server Patching** • From the **Enterprise** menu, select **Provisioning and Patching**, and then select **Patches and Updates**. From this page, the Patch Recommendations and Patch Plans regions and their content/links related to WebLogic Server are licensed as part of the WebLogic Server Management Pack Enterprise Edition. **Middleware Provisioning** • From the **Enterprise** menu, select **Provisioning and Patching**, and then select **Procedure Library**. The following predefined procedures are licensed with the WebLogic Server Management Pack Enterprise Edition: Provision Middleware Scale up/Scale Out Middleware Deploy/Undeploy Java EE Applications Coherence Node Provisioning • From the Enterprise Manager home page, click the **Enterprise** menu, then **Provisioning and Patching**, and finally **Middleware Provisioning**. All features, functions, links, buttons, and drill-downs on the Middleware Provisioning page are licensed as part of the WebLogic Server Management Pack Enterprise Edition. • On the WebLogic Domain target home page from the **WebLogic Domain** menu, select **Provisioning**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the WebLogic Server Management Pack Enterprise Edition - with the exception of SOA Artifacts Provisioning, Deploy SOA Composite, WebCenter Artifacts, and Deploy WebCenter Application (these are licensable through the SOA Management Pack Enterprise Edition and Management Pack for WebCenter).

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Administration Licensed Links	The following list of links and navigation to them correspond with the administration features for Oracle WebLogic Server and are licensed as part of the WebLogic Server Management Pack Enterprise Edition. • **Note:** You must first log in to the domain before accessing these features. If you have not saved your preferred credentials for accessing these administration features, then you will be prompted to log in to the domain. From the log in page, you have the option to save the credentials as *preferred credentials,* if they are not already saved. With preferred credentials, you are automatically taken to the page with no log in required. **Selective Tracing feature** • From the **Targets** menu, select **Middleware**, then select a domain target link to go to the Domain Home page • From the **Domain** menu, select **Logs**, and finally **Selective Tracing**. **Configuration of Log File Settings feature** • From the **Targets** menu, select **Middleware**, then select a WebLogic Server target link to go to the WebLogic Server Home page • From the **WebLogic Server** menu, select **Logs**, and then select **Log Configuration**. **Change Center** • From the **Targets** menu, select **Middleware**, then select a domain target link to go to the Domain Home page, assuming you have logged in to the domain (for example, through preferred credentials) and have attempted to access an administration operation. • On the Domain Home page from the Change Center region in the upper left-hand corner, select **Change Center**. All links in the Changes drop-down menu are licensed with WebLogic Server Management Pack Enterprise Edition. **System MBean Browser** • From the **Targets** menu, select **Middleware**, then select a domain target link to go to the Domain Home page. • On the Domain Home page from the **Domain** menu, select **System MBean Browser**. **Manage JDBC Data Sources** • From the **Targets** menu, select **Middleware**, then select a domain target link to go to the Domain Home page. • On the Domain Home page from the **Domain** menu, select **JDBC Data Sources**. **Record configuration actions** • From the **Targets** menu, select **Middleware**, then select a domain target link to go to the Domain Home page, assuming you have logged in to the domain (for example, through preferred credentials) and have attempted to access an administration operation. • On the Domain Home page from the upper left-hand corner near the Change Center drop-down menu, select **Recording**. All links in the Recording drop-down menu are licensed with WebLogic Server Management Pack Enterprise Edition.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Administration Licensed Links (Continued)	**Server Templates Administration** and **Machines Administration** • From the **Targets** menu, select **Environment**. All submenus, links and pages accessible from there are licensed with the WebLogic Server Management Pack Enterprise Edition. • From the **Targets** menu, select **Administration**. All submenus, links and pages accessible from there are licensed with the WebLogic Server Management Pack Enterprise Edition.
WLS Management Pack EE	WebLogic Cluster and Server Administration Licensed Links	The following list of WebLogic Cluster and Server Administration links and navigation to them correspond with the administration features for Oracle WebLogic Server and are licensed as part of the WebLogic Server Management Pack Enterprise Edition: **WebLogic Cluster Administration** • From the **Targets** menu, select **Middleware**, then select a cluster target link to go to the Cluster Home page. • On the Cluster Home page from the **Cluster** menu, make a selection: – **Administration** – **Logs** – **JDBC Data Sources** – **Routing Topology** – **System MBean Browser** . **WebLogic Server Administration** • From the **Targets** menu, select **Middleware**, then select a WebLogic Server target link to go to the WebLogic Server Home page. • From the WebLogic Server Home page from the **WebLogic Server** menu, select **Administration**. • *Note: Under the Administration submenu, the* **Start/Stop** *menu item is not licensed under WebLogic Server Management Pack Enterprise Edition*.
WLS Management Pack EE	WebLogic Server Versions 12 and 14 Licensed Links	The following list of links and navigation to them correspond with managing Oracle WebLogic Server versions 12 and 14 in Oracle Enterprise Manager 24ai, and are licensed as part of the WebLogic Server Management Pack Enterprise Edition: **Application Deployment page** • From the **Targets** menu, select **Middleware**. Drill down to a WebLogic Domain home page, then click an **Application Deployment** target. All links and menu items on this page are licensed. **Clustered Application Deployment page** • From the **Targets** menu, select **Middleware**. Drill down to a WebLogic Domain home page, then click a **Clustered Application Deployment** target. All links and menu items on this page are licensed. **Middleware-related target pages** • From the **Targets** menu, select **Middleware**. Click links in the Name column to be taken to a target home page. (Note: target home pages can be accessed through other paths as well.) Links and menu items on target home pages are licensed. • **Note:** While home pages for Middleware-related targets are not licensed, the links and menu items on the pages are licensed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Oracle HTTP Server General Monitoring Licensed Links	The following list of links and navigation to them correspond with managing Oracle HTTP Server in Oracle Enterprise Manager 24ai and are licensed as part of the WebLogic Server Management Pack Enterprise Edition. **Oracle HTTP Server Home page** • From the **Targets** menu, select **Middleware**, and then select standalone **Oracle HTTP Server** home page. On this page, all links are licensed. The following licensed links are accessed from the Oracle HTTP Server home page: **Create Blackout** • Select **Create Blackout**. All links, menu items, tabs, and sections on this page are licensed. • Select the **Target** menu, then select **Control**, and finally select **Create Blackout**. All links, menu items, tabs, and sections on this page are licensed **End Blackout** • Select **End Blackout**. All links, menu items, tabs, and sections on this page are licensed. • Select the **Target** menu, then **Control**, and finally **End Blackout**. All links, menu items, tabs, and sections on this page are licensed **Performance Summary** • Select the **Target** menu, then **Monitoring**, and finally **Performance Summary**. All links, menu items, tabs, and sections on this page are licensed **All Metrics** • Select the **Target** menu, then **Monitoring**, and finally **All Metrics**. All links, menu items, tabs, and sections on this page are licensed **Status History** • Select the **Target** menu, then **Monitoring**, and finally **Status History**. All links, menu items, tabs, and sections on this page are licensed **Alert History** • Select the **Target** menu, then **Monitoring**, and finally **Alert History**. All links, menu items, tabs, and sections on this page are licensed **Blackouts** • Select the **Target** menu, then **Monitoring**, and finally **Blackouts**. All links, menu items, tabs, and sections on this page are licensed **Log Viewer** • Select the **Target** menu, then **Monitoring**, and finally **View Log Messages**. All links, menu items, tabs, and sections on this page are licensed

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Oracle HTTP Server Configuration Management Licensed Links	The following list of links and navigation to them correspond with managing Oracle HTTP Server in Oracle Enterprise Manager 24ai and are licensed as part of the WebLogic Server Management Pack Enterprise Edition and are accessed from the Oracle HTTP Server home page: **Last Collected** • Select the **Target** menu, then **Configuration**, and finally **Last Collected**. All links, menu items, tabs, and sections on this page are licensed **Compare** • Select the **Target** menu, then **Configuration**, and finally **Compare**. All links, menu items, tabs, and sections on this page are licensed **Search** • Select the **Target** menu, then **Configuration**, and finally **Search**. All links, menu items, tabs, and sections on this page are licensed **History** • Select the **Target** menu, then **Configuration**, and finally **History**. All links, menu items, tabs, and sections on this page are licensed **Saved** • Select the **Target** menu, then **Configuration**, and finally **Saved**. All links, menu items, tabs, and sections on this page are licensed **Topology** • Select the **Target** menu, then **Configuration**, and finally **Topology**. All links, menu items, tabs, and sections on this page are licensed
WLS Management Pack EE	Oracle HTTP Server Compliance Management Licensed Links	The following list of links and navigation to them correspond with managing Oracle HTTP Server in Oracle Enterprise Manager 24ai and are licensed as part of the WebLogic Server Management Pack Enterprise Edition and are accessed from the Oracle HTTP Server home page: **Results** • Select the **Target** menu, then **Compliance**, and finally **Results**. All links, menu items, tabs, and sections on this page are licensed **Standard Associations** • Select the **Target** menu, then **Compliance**, and finally **Standard Associations**. All links, menu items, tabs, and sections on this page are licensed
WLS Management Pack EE	Service Level Management Licensed Links	See Enterprise Manager Service Level Management in End-User Monitoring .
WLS Management Pack EE	Coherence Management Licensed Links	See the Licensed Links of the Management Pack for Oracle Coherence section for the Coherence Management links.
WLS Management Pack EE	Chargeback Licensed Link	The following is the licensed Chargeback feature page and link for the WebLogic Server Management Pack Enterprise Edition: • **Chargeback page** From the **Enterprise** menu, select **Chargeback**.

WLS Management Pack EE	Licensed Blackout Repository Views	The following repository views are part of the WebLogic Server Management Pack Enterprise Edition:
		`MGMT$BLACKOUT_HISTORY`
		`MGMT$BLACKOUTS`

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Licensed Inventory Repository Reviews	The following repository views are part of the WebLogic Server Management Pack Enterprise Edition: MGMT$METRIC_CATEGORIES MGMT$GROUP_FLAT_MEMBERSHIPS
WLS Management Pack EE	Licensed Monitoring Repository Reviews	The following repository views are part of the WebLogic Server Management Pack Enterprise Edition: MGMT$ALERT_ANNOTATIONS MGMT$ALERT_NOTIF_LOG MGMT$TARGET_METRIC_COLLECTIONS MGMT$TARGET_METRIC_SETTINGS MGMT$AVAILABILITY_CURRENT MGMT$AVAILABILITY_HISTORY MGMT$ALERT_CURRENT MGMT$ALERT_HISTORY MGMT$METRIC_DETAILS MGMT$METRIC_CURRENT MGMT$METRIC_HOURLY MGMT$METRIC_DAILY
WLS Management Pack EE	Licensed Compliance Repository Reviews	The following repository views are part of the WebLogic Server Management Pack Enterprise Edition: MGMT$COMPLIANCE_STANDARD_RULE MGMT$COMPLIANCE_STANDARD MGMT$COMPLIANCE_STANDARD_GROUP MGMT$CS_EVAL_SUMMARY MGMT$COMPOSITE_CS_EVAL_SUMMARY MGMT$CS_RULE_EVAL_SUMMARY MGMT$CS_GROUP_EVAL_SUMMARY MGMT$CS_TARGET_ASSOC MGMT$CCC_ALL_OBSERVATIONS MGMT$CCC_ALL_OBS_BUNDLES MGMT$CCC_DIAG_ANALYTICS MGMT$CCC_DIAG_QUEUEBACKLOG

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Licensed Configuration Repository Reviews	The following repository views are part of the WebLogic Server Management Pack Enterprise Edition: MGMT$J2EE_APPLICATION MGMT$J2EEAPP_EJBCOMPONENT MGMT$J2EEAPP_JRFWS MGMT$J2EEAPP_JRFWSOPER MGMT$J2EEAPP_JRFWSPOLICY MGMT$J2EEAPP_JRFWSPORT MGMT$J2EEAPP_WEBAPPCOMPONENT MGMT$J2EEAPP_WSCONFIG MGMT$J2EEAPP_WSPORTCONFIG MGMT$WEBLOGIC_APPLICATIONS MGMT$WEBLOGIC_CLUSTER MGMT$WEBLOGIC_DOMAIN MGMT$WEBLOGIC_EJBCOMPONENT MGMT$WEBLOGIC_JDBCDATASOURCE MGMT$WEBLOGIC_JDBCMULTIDS MGMT$WEBLOGIC_JMSCONNFACTORY MGMT$WEBLOGIC_JMSQUEUE MGMT$WEBLOGIC_JMSTOPIC MGMT$WEBLOGIC_JOLTCONNPOOL MGMT$WEBLOGIC_MACHINE MGMT$WEBLOGIC_NETWORK_CHANNELS MGMT$WEBLOGIC_NODEMANAGER MGMT$WEBLOGIC_OPSSSYSPROP MGMT$WEBLOGIC_RACONFIG MGMT$WEBLOGIC_RAOUTBOUNDCONFIG MGMT$WEBLOGIC_RESOURCECONFIG MGMT$WEBLOGIC_SERVER MGMT$WEBLOGIC_STARTSHUTCLASSES MGMT$WEBLOGIC_VIRTUALHOST MGMT$WEBLOGIC_WEBAPPCOMPONENT MGMT$WEBLOGIC_WORKMANAGER MGMT$WEBLOGIC_WSCONFIG
WLS Management Pack EE	Licensed Oracle HTTP Server (OHS) Configuration Repository Reviews	The following repository views are part of the WebLogic Server Management Pack Enterprise Edition: MGMT$OHS_CIPHERSUITES MGMT$OHS_CONFIGFILES MGMT$OHS_GENERAL MGMT$OHS_LISTENADDRESSES MGMT$OHS_PERFRELATED MGMT$OHS_VIRTUALHOSTS MGMT$WEBCACHE_TO_OHS_ROUTING MGMT$EMAS_OHS_COMPRESSION MGMT$EMAS_OHS_FUSAPPS MGMT$EMAS_OHS_GENERAL MGMT$EMAS_OHS_PERFRELATED MGMT$EMAS_OHS_ROUTINGGENERAL MGMT$EMAS_OHS_ROUTINGLOCATIONS
WLS Management Pack EE	Licensed Reports	The following reports are part of the WebLogic Server Management Pack Enterprise Edition: • WebLogic Server Health Check Report.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Licensed Chargeback Reports	The following Oracle Analytics Server reports are licensed under the WLS Management Pack EE. Also, any report created using the "create-like" feature of Oracle Analytics Server referring to the following reports, falls under this license. • Charge Trend Report • Charge Summary Report • Usage Trend Report • Usage Summary Report

WLS Management Pack EE	Licensed CLI Verbs	The following Enterprise Manager command-line interface (CLI) verbs are licensed as part of the WebLogic Server Management Pack Enterprise Edition:
		`add_beacon`
		`add_swlib_storage_location`
		`apply_template_tests`
		`assign_test_to_target`
		`clone_as_home`
		`create_diag_snapshot`
		`create_fmw_domain_profile`
		`create_fmw_home_profile`
		`create_inst_media_profile`
		`create_jeeappcomp`
		`create_operation_plan`
		`create_patch_plan`
		`create_swlib_entity`
		`create_swlib_folder`
		`delete_operation_plan`
		`delete_test`
		`describe_patch_plan_input`
		`disable_test`
		`enable_test`
		`extend_as_home`
		`extract_template`
		`get_connection_mode`
		`get_instances`
		`get_operation_plan_details`
		`get_operation_plans`
		`get_patch_plan_data`
		`get_procedure_types`
		`get_procedure_xml`
		`get_procedures`
		`list_aru_languages`
		`list_aru_platforms`
		`list_aru_products`
		`list_aru_releases`
		`list_patch_plans`
		`list_swlib_entities`
		`list_swlib_entity_subtypes`
		`list_swlib_entity_types`
		`list_swlib_folders`
		`list_swlib_storage_locations`
		`provision`

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information

WLS Management Pack EE	Licensed CLI Verbs (continued)	`refer_swlib_entity_files`
		`reimport_swlib_metadata`
		`remove_beacon`
		`remove_swlib_storage_location`
		`run_prechecks`
		`search_patches`
		`set_availability`
		`set_connection_mode`
		`set_key_beacons_and_tests`
		`set_patch_plan_data`
		`show_patch_plan`
		`submit_operation_plan`
		`submit_patch_plan`
		`submit_procedure`
		`sync_beacon`
		`update_operation_plan`
		`update_swlib_entity`
		`upload_jeeappcomp_file`
		`upload_swlib_entity_files`

WLS Management Pack EE	Restricted-Use License	WebLogic Server Management Pack Enterprise Edition includes the full capabilities of Enterprise Manager Service Level Management. See Enterprise Manager Service Level Management in End-User Monitoring for more information.

SOA Management Pack Enterprise Edition

This pack delivers comprehensive management and modeling capabilities for a Service-Oriented Architecture (SOA)-based environment. By combining SOA run-time governance, business-IT alignment, model-driven metrics, and SOA infrastructure management with Oracle's system management solution, Enterprise Manager significantly reduces the cost and complexity of managing SOA-based environments.

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
SOA Management Pack EE	Supported SOA Targets	This pack supports the following SOA targets: • Business Process Execution Language (BPEL) • Oracle Service Bus (service-bus) • Oracle Service Bus Cluster • Oracle SOA Suite Infrastructure (soa-infra) • Oracle SOA Suite Infrastructure Cluster • Oracle SOA Suite SOA Composites • Scheduling Service (ESS)

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
SOA Management Pack EE	SOA Target Features	The SOA Management Pack Enterprise Edition targets include the following features: • Error Hospital • Download Composite • Heap Map • Adapter metrics provide throughput and error metrics for different adapters in graphical format. • Blackouts to suspend monitoring on targets to support scheduled maintenance periods. This includes the use of Blackouts in the Enterprise Manager console, EMCLI and REST APIs. • Business-IT alignment provides integration for business KPIs and system metrics in one system for correlation and trending. • Centralized management console to monitor and manage all enterprise components from a central location. • Configuration management information collection for the BPEL Process Manager server/domains/processes and Oracle Service Bus. • Deployment automation of BPEL suitcases, OSB resources, OSB Domains, SOA artifacts, SOA domains, and SOA composites. • Discovery and service modeling of Oracle BPEL processes, Oracle Service Bus-based business and proxy services. Provide automated system modeling capabilities for the SOA infrastructure. • Ability to download SOA composite. • IWS report integration. • End-to-end transaction tracing across distributed application components, and monitor and measure performance characteristics of each component. • Historical analysis and reporting of collected metric and configuration data in a central repository. • Infrastructure management to monitor availability and performance of SOA infrastructure components. • Management Connectors, such as ticketing connectors and event connectors, integrate Enterprise Manager with other management systems. Ticketing connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other event management systems. • Metric and Alert/Event History. This includes the use of metrics in the Enterprise Manager console, EMCLI and REST APIs. • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets for standardization. This includes the use of Monitoring Templates in the Enterprise Manager console and EMCLI. • Dynamic Runbooks enable subject matter experts to encapsulate best practice steps for diagnosing and resolving issues into a runbook that can be executed directly inside Enterprise Manager.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
		• Event Compression reduces incidents by correlating and combining related events into a smaller set of incidents. • Template Collections (with Administration Groups) automate the deployment of management settings on targets as they join the group. This includes the use of Template Collections in the Enterprise Manager console and EMCLI.
SOA Management Pack EE	SOA Target Features (Continued)	• Notifications that define and use different notification methods including e-mail, OS scripts, PL/SQL procedures, SNMP traps, Webhooks and Slack. Also includes repeat notifications, use of notification-related actions in incident rule sets, and administrator notification schedules. • Run-time governance do define SOAP tests to measure and record availability and performance of partner links (or any Web service) and business/proxy services for historical trending, troubleshooting, and root cause analysis purposes • Service level management to monitor services from the end-user's perspective using service tests or synthetic transactions, model relationships between services and underlying IT components, and report on achieved service levels

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
SOA Management Pack EE	SOA Target Licensed Links	The following links are licensable for SOA targets: **BPEL Process Manager target pages** • From the **Targets** menu, select **Oracle BPEL Process Manager**, then click **Go**. A list of BPEL Process Manager targets appears. All target pages linked from this list are licensed. **Process List page** • On the Oracle BPEL Process Manager page, select **Processes** at the top of the page. The BPEL Process List page appears, which shows all the deployed BPEL processes. All links and controls on the Process List page are licensed. **Oracle BPEL Process page** • On the Oracle BPEL Process Manager page, click one of the **processes** in the list. The Oracle BPEL Process page appears. All links and controls on the Oracle BPEL Process page are licensed. **Oracle Service Bus targets** • From the **Targets** menu, select **Oracle Service Bus**, then click **Go**. A list of Oracle Service Bus targets appears. All target pages linked from this list are licensed. **Save Test button** • On the Oracle Service Bus target page, from the Web Services selection above, select the **Test Web Services** menu item. This button is licensed. **Blackouts** • From the SOA Infrastructure menu accessible as a sub-target of a WebLogic Domain, this item under the Control menu is licensed. **Faults tab** • From the SOA Infrastructure menu accessible as a sub-target of a WebLogic Domain, select the **Service Engine** menu item, then the **BPEL Engine** submenu item. On the BPEL Engine page, this tab is licensed. **Monitoring and Configuration menus** • From the SOA Infrastructure menu accessible as a sub-target of a WebLogic Domain, these menus and all sub-items are licensed. **Faults and Rejected Messages, Deployed Composites, and Dehydration Diagnostics tabs** • From the SOA Infrastructure menu accessible as a sub-target of a WebLogic Domain, these tabs are licensed.
SOA Management Pack EE	SOA Target Licensed Links (Continued)	**Web Services Selections** • On the Oracle Service Bus target page, from the WebLogic Domain menu, select **Web Services**. These selections are licensed: Policy Enforcement Dashboard, Registered Services, and Saved Tests **SOA Home** • On the Oracle Service Bus target page, click the **Enterprise Manager Middleware** tab. These links are licensed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
SOA Management Pack EE	Licensed Reports	All reports associated with the following target types are part of the SOA Management Pack Enterprise Edition: • Oracle BPEL Process Manager • Oracle Service Bus • SOA Composite • SOA Infrastructure • SOA Partition

SOA Management Pack EE	Licensed CLI Verbs	The following Enterprise Manager CLI verbs are licensed as part of the SOA Management Pack Enterprise Edition:
		`get_instances`
		`get_instance_data_xml`
		`get_procedures`
		`get_procedure_types`
		`get_procedure_xml`
		`submit_procedure`

Management Pack for WebCenter

The Management Pack for WebCenter provides monitoring and management for the WebCenter Content: Server, WebCenter Portal: Spaces, WebCenter Portal: Services, and WebCenter Portal: Framework.

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for WebCenter	Basic Functionality	The Management Pack for WebCenter includes: • Availability and monitoring of all components. • Configuration management. • Performance monitoring of all components. • Historical analysis and reporting. • Thresholds and events. • Webcenter Portal Performance Pack.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for WebCenter	Feature Summary	The Management Pack for WebCenter includes the following features: • Quickly identify and address critical performance bottlenecks in your application. WebCenter Portal Performance Pack is pre-configured to instrument the main concerning areas for Oracle WebCenter Portal: – Makes it easy for you to identify slow requests. – Drill down to specific hot paths and methods. – Doesn't overwhelm with too much data; instead provides with only the most critical information. – Aggregates data in different ways, which makes it easy to spot problem areas. – Provides hints for optimization opportunity. • Business Application Management provides an intuitive representation of the relationship between your applications and the end user experience and the underlying IT infrastructure. • Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets for standardization. This includes the use of Monitoring Templates in the Enterprise Manager console and EMCLI. • Template Collections (with Administration Groups) automate the deployment of management settings on targets as they join the group. This includes the use of Template Collections in the Enterprise Manager console and EMCLI. • Contextual visibility into Portal, Web Services, and J2EE metrics • Infrastructure management to monitor availability and performance of WebCenter infrastructure components. • Metrics visibility at any layer to automatically generate customized dashboards and views in the application through graphs and tables. • Historical analysis and reporting • Metric and Alert/Event History. This includes the use of metrics in the Enterprise Manager console, EMCLI and REST APIs. • Configuration management for the WebCenter server/ domains/processes and related artifacts. • Notifications that define and use different notification methods including e-mail, OS scripts, PL/SQL procedures, SNMP traps, Webhooks and Slack. Also includes repeat notifications, use of notification-related actions in incident rule sets, and administrator notification schedules. • Advanced alert management to provide notification methods, rules and schedules, metric history and associated drill-downs, ability to set blackouts, associate corrective actions with alert, metric extensions, metric snapshots, and monitoring templates. • Blackouts to suspend monitoring on targets to support scheduled maintenance periods. This includes the use of Blackouts in the Enterprise Manager console, EMCLI and REST APIs. • Service level management to monitor services from the end-user's perspective using service tests or synthetic

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
		transactions, model relationships between services and underlying IT components, and report on achieved service levels.
Management Pack for WebCenter	Feature Summary (Continued)	• Run-time governance to define SOAP tests to measure and record availability and performance of partner links (or any Web service) and business/proxy services for historical trending, troubleshooting, and root cause analysis purposes. • Metric Extensions to create new metrics to monitor conditions specific to customer environments.
Management Pack for WebCenter	Licensed Links	The following are the licensed pages and links for the Management Pack for WebCenter pages: **WebCenter and Portlet Producer right-hand panes** • From the **Targets** menu, select **Oracle WebCenter**, then click **Go**. A list of Oracle WebCenter targets appears. Click any target. All alert, policy violation, and historical links in these panes are licensed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for WebCenter	Right-Hand Pane Licensed Links	In addition to all links and sub-nodes, all tabbed pane links and data available in the right-hand pane and all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane are licensed. **Application Deployment Menu** • Select one of the applications under the **Application Deployment** node in the left-hand navigation tree, then click the **Application Deployment** drop-down menu on the page to list the contents. All pages and links from these menu items are licensed: WebCenter, ADF, All, Day, and 2 hours **Portlet Producer Monitoring Links and Menus** • From the Portlet Producer page, select the **Portlet Producer** menu, then select **Monitoring**. These links and menu items are licensed: Status History, Alert History, Blackouts, Policy Violations, and Policy Trend Overview **Create/End Blackout page** • From the **Portlet Producer** menu on the Portlet Producer page, select **Control**. This page is licensed. • From the **WebCenter** menu on the Portlet Producer page, select **Control**. This page is licensed. **WebCenter Monitoring Links and Menus** • Click the **WebCenter** menu, then **Monitoring**. These links and menu items are licensed: Performance Summary Service Metrics Historical Service Metrics Group Space Metrics Historical Group Space Metrics Status History Alert History, Blackouts Policy Violation Policy Trend Overview **Configure tab link** • From the upper-left navigation area, click the **Configure** tab link. All navigation tree nodes and all tabbed pane links and data available in the right pane are licensed. **Resources tab link** • From the upper-left navigation area, click the **Resources** tab link. All navigation tree nodes and all tabbed pane links and data available in the right pane are licensed. **Custom Views tab link** • From the upper-left navigation area, click the **Custom Views** tab link. All navigation tree nodes in the lower-left navigation tree and all tabbed pane links and data available in the right pane are licensed.
Management Pack for WebCenter	Restricted-Use License	WebCenter Management Pack includes the full capabilities of Enterprise Manager Service Level Management. See Enterprise Manager Service Level Management in End-User Monitoring for more information.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack for Oracle Coherence

The Management Pack for Oracle Coherence provides comprehensive monitoring, cluster management, cache management and configuration management capabilities for Coherence. This pack provides complete cluster visibility by supplying detailed metrics of various cluster artifacts and their interdependencies. The performance views can be completely customized and saved. The topology view gives graphical representation of dependencies of the components and performance hotspots. Enterprises can monitor more than one Coherence cluster from a single console. Organizations can keep track of node configuration over time and also change run-time configuration parameters for caches and nodes.

Enterprise Manager provides out-of-box support for metric alerts, enabling users to proactively monitor the cluster health. Various performance charts show real-time and historical performance trends. The cache data management features gives ability to perform several operations on any cache in the Coherence cluster (for example, view, import, export, purge, add index, remove index, and so on). Enterprise Manager automates the mundane tasks of setting up Coherence software and creating a cluster on distributed machines. Enterprise Manager also enables users to start and stop new nodes in an already monitored Coherence cluster. Similarly, users can also start and stop the entire cluster. User can monitor the node log files by setting patterns. Enterprise Manager generates alert when the patterns are found matching.

The following table describes this management pack offered by Enterprise Manager:

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for Oracle Coherence	Features	The Management Pack for Oracle Coherence includes the following features: • Automate deployment and setup of the Coherence cluster with multiple nodes. • Blackouts to suspend monitoring on targets to support scheduled maintenance periods. This includes the use of Blackouts in the Enterprise Manager console, EMCLI and REST APIs. • Cache data management to perform operations such as view, export, purge, and so on, on cache data. • Complete cluster visibility of detailed metrics for all Coherence components. • Configuration management to keep track of node configuration over time, change run-time configuration parameters of caches, nodes and services. • Customizable performance views by selecting metrics from the metrics pallet, overlay multiple metrics on the chart, save different views. • Log file monitoring to monitor the node log files by setting patterns. • Management Connectors, such as ticketing connectors and event connectors, integrate Enterprise Manager with other management systems. Ticketing connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other event management systems. • Metric and Alert/Event History. This includes the use of metrics in the Enterprise Manager console, EMCLI and REST APIs. • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Monitor multiple clusters from a single console. • Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets for standardization. This includes the use of Monitoring Templates in the Enterprise Manager console and EMCLI. • Dynamic Runbooks enable subject matter experts to encapsulate best practice steps for diagnosing and resolving issues into a runbook that can be executed directly inside Enterprise Manager. • Event Compression reduces incidents by correlating and combining related events into a smaller set of incidents. • Template Collections (with Administration Groups) automate the deployment of management settings on targets as they join the group. This includes the use of Template Collections in the Enterprise Manager console and EMCLI. • Notifications that define and use different notification methods including e-mail, OS scripts, PL/SQL procedures, SNMP traps, Webhooks and Slack. Also includes repeat notifications, use of notification-related actions in incident rule sets, and administrator notification schedules. • Start and stop nodes in a Coherence cluster. • Start and stop the entire Coherence cluster.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
		• Topology view of the Coherence caches, nodes and hosts with related in context performance alerts.
Management Pack for Oracle Coherence	Licensed Links	The following are the licensed pages and links for the Management Pack for Oracle Coherence pages: **Oracle Coherence Cluster type links** • From the **Targets** menu, select **Middleware**. All links and subordinate pages of the Oracle Coherence Cluster type in the table are licensed.

Management Pack for Oracle Data Integrator

Management Pack for Oracle Data Integrator leverages Oracle Enterprise Manager best-in-class application performance management, service level management, and configuration management capabilities to provide a centralized management solution for Oracle Data Integrator Enterprise Edition.

The following table describes this management pack offered by Enterprise Manager:

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for Oracle Data Integrator	Features	The Management Pack for Oracle Data Integrator includes the following features: • Advanced alert management to provide notification methods, rules and schedules, metric history and associated drill-downs, ability to set blackouts, associate corrective actions with alert, metric extensions, metric snapshots, and monitoring templates. • Centralized management console to monitor and manage all enterprise components including ODI domains from a central location. • Configuration management for the ODI Agents. • Historical analysis and reporting • Infrastructure management to monitor availability and performance of ODI infrastructure components: Agents, Repositories, Sources and Targets. • Load Plan and Session Monitoring to monitor end-to-end Oracle Data Integrator Load Plans and Sessions activity, review execution statistics and drill-down from a particular Task into a detailed report of Oracle databases activity. • Metric and Alert/Event History. This includes the use of metrics in the Enterprise Manager console, EMCLI and REST APIs. • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets for standardization. This includes the use of Monitoring Templates in the Enterprise Manager console and EMCLI. • Template Collections (with Administration Groups) automate the deployment of management settings on targets as they join the group. This includes the use of Template Collections in the Enterprise Manager console and EMCLI. • Notifications that define and use different notification methods including e-mail, OS scripts, PL/SQL procedures, SNMP traps, Webhooks and Slack. Also includes repeat notifications, use of notification-related actions in incident rule sets, and administrator notification schedules. • Performance monitoring to provide real-time and historical performance monitoring. • Service level management to monitor services from the end-user's perspective using service tests or synthetic transactions, model relationships between services and underlying IT components, and report on achieved service levels.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for Oracle Data Integrator	Licensed Links	The following are the licensed pages and links for the Management Pack for Oracle Data Integrator pages: **Oracle Data Integrator home page links** • From the **Targets** menu, select **Middleware**. From the Middleware page, click **Middleware Features** and select **ODI Home**. All links and subordinate pages of the Oracle Data Integrator Home page are licensed. **Oracle Data Integrator target type links** • From the **Targets** menu, select **All Targets**. On the All Targets page, select any of the ODI target types. From the Oracle Data Integrator target menu, these items are licensed.

Business Intelligence Management Pack

This pack provides an integrated solution for ensuring the performance and availability of Oracle Business Intelligence Enterprise Edition (Oracle BI EE) for Release 11g, Release 10g, and BI 12c. Using the pack, you can receive proactive alerts on impending problems for the application, examine run-time statistics to troubleshoot and tune performance, compare configurations across different environments, and keep track of configuration changes to avoid configuration-related problems.

You can use the pack with other Oracle Enterprise Manager management packs and plug-ins to achieve end-to-end management of the entire application environment, including both Oracle and non-Oracle databases, operating systems, storage, and network devices.

The following table describes this management pack offered by Enterprise Manager:

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
BI Management Pack	Features	The Business Intelligence Management Pack includes the following features: • Automatic discovery support to efficiently and quickly discover targets. • Blackouts to suspend monitoring on targets to support scheduled maintenance periods. This includes the use of Blackouts in the Enterprise Manager console, EMCLI and REST APIs. • Change history to search collected configuration data and view the history of configuration changes for diagnostic and regulatory purposes. • Configuration comparison to provide configuration diagnostics quickly. Replicate configuration in development/staging to production. Make sure that configuration settings among Oracle BI components in a clustered environment are consistent. • Configuration snapshot allows known effective configuration information to be retained for future analysis. Save configurations to a configuration file (XML file) or to the Management Repository. • Dashboard reports provide key query statistics for usage trending analysis. • Historical metrics to measure usage and performance metrics for monitored Oracle BI targets. Diagnose performance problems by identifying bottlenecks in any of the monitored Oracle BI targets. • Management Connectors, such as ticketing connectors and event connectors, integrate Enterprise Manager with other management systems. Ticketing connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other event management systems. • Metric and Alert/Event History. This includes the use of metrics in the Enterprise Manager console, EMCLI and REST APIs. • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets for standardization. This includes the use of Monitoring Templates in the Enterprise Manager console and EMCLI. • Dynamic Runbooks enable subject matter experts to encapsulate best practice steps for diagnosing and resolving issues into a runbook that can be executed directly inside Enterprise Manager. • Event Compression reduces incidents by correlating and combining related events into a smaller set of incidents. • Template Collections (with Administration Groups) automate the deployment of management settings on targets as they join the group. This includes the use of Template Collections in the Enterprise Manager console and EMCLI. • Notifications that define and use different notification methods including e-mail, OS scripts, PL/SQL procedures, SNMP traps, Webhooks and Slack. Also includes repeat

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
		notifications, use of notification-related actions in incident rule sets, and administrator notification schedules. • Performance charts to perform usage analysis and diagnose production problems. • Service level rule defines service-level objectives based on business requirements. • Service tests and beacons record service tests to simulate key end-user activities, and actively measure performance and availability from an end-user perspective.
BI Management Pack	Supported Oracle BI EE 11g Targets, and Oracle BI EE 12c Targets	The licensed pages and links of this pack apply to targets specific to Oracle Business Intelligence EE 11g, and Oracle Business Intelligence EE 12c within Enterprise Manager: • Oracle BI Instance • Oracle BI Cluster Controller • Oracle BI Java Host • Oracle BI Presentation Server • Oracle BI Server • Oracle BI Scheduler • Essbase Server • Essbase Application

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
BI Management Pack	Oracle BI EE 11g, and Oracle BI EE 12c Licensed Links	The following licensed pages and links of this pack apply to targets specific to Oracle Business Intelligence EE 11g, and Oracle Business Intelligence EE 12c within Enterprise Manager: **Oracle BI Instance page** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Oracle BI Instance**. **Oracle BI Instance Target menu** • On the Oracle BI Instance page from the Oracle BI Instance target menu, these items are licensed: Logs* Job Activity Dashboard Reports Scheduler Reports Configuration Compliance • **Note:** The log viewer functionality is licensed with the WebLogic Server Management Pack Enterprise Edition. **Availability** • On the Oracle BI Instance page, the **Availability** tab and all its sub-tabs are licensed. **Oracle BI Cluster Controller page** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Oracle BI Cluster Controller**. **Oracle BI Java Host page** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Oracle BI Java host**. **Oracle BI Presentation Server page** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Oracle BI Presentation Server**. **Oracle BI Server page** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Oracle BI Server**. **Oracle BI Scheduler page** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Oracle BI Scheduler**. **Essbase Server page** • From the Enterprise Summary page, click the **Targets** menu, then **All Targets**. On the All Targets page, select a target of type **Essbase Server**. **Essbase Applications page** • From the Enterprise Summary page, click the **Targets** menu, then **All Targets**. On the All Targets page, select a target of type **Essbase Application**.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
BI Management Pack	Oracle BI EE 11g Licensed Links (continued)	The following licensed pages and links of this pack apply to Oracle Business Intelligence EE 11g-specific targets within Enterprise Manager: **Target Menu** The Job Activity, Configuration, and Compliance menu items and sub-items are licensed on the following pages: • BI Cluster Controller page • Oracle BI Java Host page • Oracle BI Presentation Server page • Oracle BI Server page • Oracle BI Schedule page • Essbase Server page • Essbase Applications page **Control Menu** The Create Blackout and End Blackout menu items are licensed on the following pages: • Oracle BI Instance page • Oracle BI Cluster Controller page • Oracle BI Java host page • Oracle BI Presentation Server page • Oracle BI Server page • Oracle BI Schedule page • Essbase Server page: **Monitoring Menu** The Performance Summary, Status History, Alert History, and Blackouts menu items are licensed on the following pages: • Oracle BI Instance page • Oracle BI Cluster Controller page • Oracle BI Java host page • Oracle BI Presentation Server page • Oracle BI Server page • Oracle BI Schedule page • Essbase Server page • Essbase Applications page
BI Management Pack	Supported Oracle BI EE 10g Targets	The licensed pages and links of this pack apply to the following Oracle Business Intelligence EE 10g-specific targets within Enterprise Manager: • Oracle BI Analytics Server • Oracle BI Cluster Controller • Oracle BI Presentation Server • Oracle BI Scheduler • Oracle BI Suite Enterprise Edition • Oracle BI Data Warehouse Administration Console (DAC) Server • Hosts Running BI Components

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
BI Management Pack	Oracle BI EE 10g Licensed Links	The following licensed pages and links of this pack apply to Oracle Business Intelligence EE 10g-specific targets within Enterprise Manager: **Oracle BI Analytics Server page** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Oracle BI Analytics Server**. **Oracle BI Analytics Server Performance page** • On the Oracle BI Analytics Server page, select the **Performance** sub-tab. All features on this page are licensed. **Oracle BI Analytics Server Dashboard Reports page** • On the Oracle BI Analytics Server page, select the **Dashboard** sub-tab. All features on this page are licensed. **Oracle BI Cluster Controller page** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Oracle BI Cluster Controller**. **Oracle BI Cluster Controller Members page** • On the Oracle BI Cluster Controller page, select the **Members** sub-tab. All features on this page are licensed. **Oracle BI Presentation Server page** • From the Enterprise Summary page, click the **Targets** menu, then **All Targets**. On the All Targets page, select a target of type **Oracle BI Presentation Server**. **Oracle BI Presentation Server Performance page** • On the Oracle BI Presentation Server page, select the **Performance** sub-tab. All features on this page are licensed. **Oracle BI Scheduler page** • From the **Targets** menu, select **All Targets**. From the All Targets page, select a target of type **Oracle BI Scheduler** name. • On the Oracle BI Schedule page, these items are licensed: Failed BI Jobs Scheduler section Next Schedule Jobs section All links in the System and Service section **Oracle BI Suite Enterprise Edition page** • From the **Targets** menu, select **All Targets**. On the All Targets page, select target of type **Oracle BI Suite EE**. • On the Oracle BI Suite EE page, these items are licensed: Failed BI Jobs Scheduler section All links in the System and Service section All links in the Alerts section All links in the Policy Violations section

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
BI Management Pack	Oracle BI EE 10g Licensed Links (continued)	**Target Menu** The Monitoring, Control, Job Activity, Information Publisher Reports, Configuration, Compliance, and Target Setup menu items and sub-items are licensed on the following pages: • Oracle BI Analytics Server page • Oracle BI Cluster Controller page • Oracle BI Presentation Server page • Oracle BI Scheduler page • Oracle BI Data Warehouse Administration Console (DAC) Server page The following licensed pages and links of this pack apply to Oracle Business Intelligence EE 10g-specific targets within Enterprise Manager: **Oracle BI Suite EE Members page** • On the Oracle BI Suite Enterprise Edition page, select the **Members** sub-tab. All features on this page are licensed. **Oracle BI Suite Enterprise Edition System Home page** • On the Oracle BI Suite Enterprise Edition page, select a **System name** in the System and Service section. On the System home page, all features on the page are licensed. From the System home page: • Select the **Charts** sub-tab. All features on this page are licensed. • Select the **Administration** sub-tab. All features on this page are licensed. • Select the **Components** sub-tab. All features on this page are licensed. • Select the **Topology** sub-tab. All features on this page are licensed. **System Charts page** • On the Oracle BI Suite Enterprise Edition page, select either **System** name or **Service** name. • On the corresponding page, select the **Charts** sub-tab. All features on this page are licensed. **System Administration page** • On the Oracle BI Suite Enterprise Edition page, select a **System name** in the System and Service section. On the System Home page, select the **Administration** sub-tab. All features on this page are licensed. **System Components page** • On the Oracle BI Suite Enterprise Edition page, select a **System name** in the System and Service section. On the System Home page, select the **Components** sub-tab. All features on this page are licensed. **System Topology page** • On the Oracle BI Suite Enterprise Edition page, select an **Oracle BI Suite EE** name. From the Oracle BI Suite EE page, select either **System** name or **Service** name. • On the corresponding page, select the **Topology** sub-tab. All features on these pages are licensed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
BI Management Pack	Oracle BI EE 10g Licensed Links (continued)	**System and Service section** • On the Oracle BI Suite Enterprise Edition page, select a **Service name** in the System and Service section. These items are licensed: Black Out button Availability link All links in the Key Component Summary section All links in the Related Links section **Oracle BI Data Warehouse Administration Console (DAC) Server page** • From the Enterprise Summary page, click the **Targets** menu, then **All Targets**. On the All Targets page, select target of type **Oracle BI DAC Server**. **Oracle BI DAC Server Performance page** • From the Oracle BI Data Warehouse Administration Console (DAC) Server page, select the **Performance** sub-tab. All features on this page are licensed. The following licensed pages and links of this pack apply to Oracle Business Intelligence EE 10g-specific targets within Enterprise Manager: **Monitoring Configuration sub-tab** • On the Oracle BI Suite Enterprise Edition page, select a **Service name** in the System and Service section. On the Service Home page, select the **Monitoring Configuration** sub-tab. These items are licensed: System Configuration Root Cause Analysis Configuration Service Tests and Beacons Availability Definition Performance Metrics Usage Metrics links All links in the Related Links section **Service System page** • On the Oracle BI Suite Enterprise Edition page, select a **Service name** in the System and Service section. On the Service Home page, select the **System** sub-tab. All features on this page are licensed. On the Service System home page, all features on the page are licensed. From the Service System home page: • Select the **Charts** sub-tab. All features on this page are licensed. • Select the **Test Performance** sub-tab. All features on this page are licensed. • Select the **System** sub-tab. All features on this page are licensed. • Select the **Topology** sub-tab. All features on this page are licensed. • Select the **Monitoring Configuration** sub-tab. All features on this page are licensed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

4

Cloud Management

This chapter describes the Cloud Management pack offered by Enterprise Manager. Out-of-the-box cloud licenses are granted to already existing targets on which licenses are defined and whenever new targets are discovered the packs are granted automatically. Verify license access information by clicking **Setup**, **Management Packs**, then **Management Pack Access**.

Oracle Cloud Management Pack for Oracle Database

Oracle Cloud Management Pack for Oracle Database helps to set up a Database Cloud and operate the Database as a Service (DBaaS) model. The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Oracle Database	Prerequisites	The Oracle Cloud Management Pack for Oracle Database requires the Database Lifecycle Management Pack for Oracle Database.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Oracle Database	Feature Summary	The Oracle Cloud Management Pack for Oracle Database provides the following features: • Out-of-box Self Service Portal that empowers users to easily provision and clone databases without IT intervention. • Self-service support that seamlessly spans hybrid and multicloud environments, including on-premises systems, ExaDB-C@C, ExaDB-D, and Oracle Cloud Infrastructure (OCI) Compute service. This simplifies management and enhances flexibility across a diverse deployment model. • Comprehensive deployment model that supports shared server (VM based), shared cluster, and Pluggable Database-as-a-Service (PDBaaS) deployment models. • Snap Clone - a fast, storage-agnostic, space-efficient approach to cloning Oracle Databases. This feature supports Oracle Databases including Pluggable databases (PDBs). Enterprise Manager support for Exadata Sparse Clone (Exadata on premsies, ExaDB-D, and ExaDB-C@C), CloneDB, ACFS Snapshot-based thin cloning of Multitenant, and thin cloning on ZFS storage appliance are included under the Snap Clone feature. • Data Refresh for Full Clones - the ability to refresh the data contained in full clones with the latest from production using newer RMAN backups or using RMAN duplicate. This feature significantly reduces the DBA time and effort. **Note:** The ability to create 'new' full clones is licensed under Database Lifecycle Management Pack for Oracle Database, but the additional 'refresh' function requires licensing the Cloud Management Pack for Oracle Database. • Administrative flows (non-self service) creates snap clones of source databases, including the ability to refresh the database while maintaining its name and configuration parameters. • Snap Clone using TestMaster Snapshots - TestMaster Snapshots represent a storage snapshot of RMAN Image BACKUP from a production database. This is used to create Storage-efficient clones with periodic data refresh capability. • Grouping of Cloud Infrastructure under the umbrella of 'PaaS Zone' and creation of Homogeneous Cloud Pool(s). • Governance - a role-based access and resource control through quotas and retirement policies. • Chargeback and Metering provides the ability to distribute IT costs to business based on fixed costs, utilization and configuration metrics. In addition, it provides the ability to identify peaks and trending for individual targets. • Programmatic access to the Self Service Portal through REST APIs and EMCLIs.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Oracle Database	Provisioning	Provision new databases and PDBs using DBaaS. • Create databases using database templates from the service catalog. • Create an empty PDB. • Create an empty PDB based on profile.
Oracle Cloud Management Pack for Oracle Database	Hybrid Pluggable-Database-as-a-Service	Provision Pluggable Databases (PDBs) on CDBs running in hybrid multicloud environments, which include: • On-premises machine • Exadata database machine • ExaDB-D • ExaDB-C@C • OCI Compute service
Oracle Cloud Management Pack for Oracle Database	Full Clone	Create full clones either by using profiles or from a live database. • Create a full database clone using RMAN Backup from the Self Service Portal. • Create a full database clone using RMAN Duplicate from the Self Service Portal.
Oracle Cloud Management Pack for Oracle Database	Snap Clone	Create snap clones either by using profiles or from a live database. Storage agnostic approach to create rapid and space efficient clones of large databases. Clones of the production database are often required for test and development purposes, and it is difficult and time consuming to create these clones, especially if the databases are huge. Self-service driven approach, which empowers the self-service user to clone databases as required on an ad hoc basis. Enterprise Manager offers the following solutions with snap clone: • Software solution: ZFS file system clone database • Hardware solution: Sun ZFS Storage Appliance and Exadata Sparse Clone The following is the list of procedures that can be performed to create and manage snap clone databases: • Create a snap clone database • Create a Test Master Database • Create a Test Master PDB • Create a Storage Test Master • Refresh clone databases • Create snap clones from discretely synchronized Test Master • Create snap clones from Storage Test Master

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Oracle Database	DBaaS Self Service Portal	Database Self Service Portal allows self service users to view, monitor, and deploy databases on selected zones. • Request a database based on a selected service template. • Request a PDB based on a selected service template. • Refresh a database: Keep the data current and consistent with the production database by refreshing it on a regular basis. • Create a database service with one or more schemas and populate the schema with the required data. • Data Guard switchover: Role reversal between the primary database and one of its standby databases.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Oracle Database	Maintaining and Customizing Databases	Support for maintaining a database pool and ways to customize a database. **PDBaaS** Use EMCLI commands to perform PDBaaS fleet operations such as: • Prepare and subscribe to the Software Image • PDBaaS Pool Operations performed by SSA Admin • Update CDB • PDBaaS Pool Cleanup Operations **Customizing DBaaS** Pre and post request creation and deletion of scripts: Run custom scripts before and after a service instance has been created. **Database Onboarding on DBaaS Cloud** • Perform Database Lifecycle Management operations like creating and deleting a database, startup and shutdown, backup and restore, patching and so on, using the Self Service Portal. • Perform onboarding on DBaaS cloud using an EMCLI command. **Database Relocation** • Migrate an existing database to a new database software pool. • Perform relocation on DBaaS cloud using an EMCLI command. **PDB Onboarding on DBaaS Cloud** • Perform Database Lifecycle Management operations such as creating and deleting PDBs, startup and shutdown, backup and restore, and patching using the Self Service Portal. • Perform PDB onboarding on DBaaS cloud using an EMCLI command. **PDB Relocation** • Migrate an existing PDB to a new PDB software pool. • Perform PDB relocation on DBaaS cloud using an EMCLI command. **PDB Instance Resize** • Resize an OEM DBaaS PDB instance by initiating a resize operation to a workload size defined in the corresponding service template. • Resize a PDB instance using an EMCLI command. **PDB Upgrade using Fleet Maintenance** • Upgrade PDBs provisioned on Enterprise Manager DBaaS cloud. • Upgrade a PDB using an EMCLI command.
Oracle Cloud Management Pack for Oracle Database	Cloud APIs	• Programmatic access to the Self Service Portal through REST APIs and EMCLIs. • Full support for cloud APIs and RESTful API for automation.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Oracle Database	Licensed Links	The following are the licensed pages and links for the Oracle Cloud Management Pack for Oracle Database: • **Licensed actions** From the Database home page, select the **Database** target menu. Select **Cloning** and then select **Clone Management**. On this page, these actions are licensed: Create Clone Databases Create Snap Clone Databases Create Snapshot Clone Promote as Test Master Remove from Test Masters Refresh • **Oracle VM Infrastructure home page** From the **Enterprise** menu, select **Cloud**, then **Oracle VM Infrastructure Home**. • **Oracle VM Infrastructure Request Dashboard page** From the **Enterprise** menu, select **Cloud**, then **Oracle VM Infrastructure Request Dashboard**. • **Policies page** From the **Enterprise** menu, select **Cloud**, then **Policies**. • **Cloud Home page** From the **Enterprise** menu, select **Cloud**, then **Cloud Home**. • **Self Service Portal page** From the **Enterprise** menu, select **Cloud**, then **Self Service Portal**. • **Chargeback page** From the **Enterprise** menu, select **Chargeback**. • **Infrastructure page** From the **Setup** menu, select **Cloud**, then select **Infrastructure**. • **Database page** From the **Setup** menu, select **Cloud**, then select **Database**. • **Storage Registration page** From the **Setup** menu, select **Provisioning and Patching**, then select **Storage Registration**. **Snap Clone** From the **Enterprise** menu: • Select **Provisioning and Patching**, then select **Database Provisioning**. • On the Database Provisioning page in the Related Links section of the left menu page, select **Provision Pluggable Databases**. • From the PDB Operations section, select **Create New Pluggable Databases**. Click **Launch**. • From the Pluggable Database Creation Options, select **Clone an Existing PDB -> Snap Clone**. From the multitenant CDB home page: • From the **Oracle Database** menu, select **Provisioning**, and then select **Provision Pluggable Database**.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
		• From the PDB Operations section, select **Create New Pluggable Databases**. Click **Launch**. • From the Pluggable Database Creation Options, select **Clone an Existing PDB**, and the select **Snap Clone**.
Oracle Cloud Management Pack for Oracle Database	Licensed RESTful APIs	The following RESTful APIs are licensed: • **Assembly Operations** Any `POST/GET/PUT/DELETE` on `/em/cloud/iaas` URI space for Resources Assembly Template and Assembly Instance. • **Database and Schema Operations** Any `POST/GET/PUT/DELETE` on `/em/cloud/dbaas/` URI space. • **DBaaS Setup Operations** Any `POST/GET/PUT/DELETE` on `/em/websvcs/restful/extws/cloudservices/admin/cfw/v1` URI space.

Oracle Cloud Management Pack for Oracle Database	Licensed EMCLI Verbs	The following EMCLI verbs are licensed under the Oracle Cloud Management Pack for Oracle Database:
		`add_pool_members`
		`cancel_cloud_service_requests`
		`create_charge_item`
		`create_dbaas_quota`
		`create_pool`
		`create_service_template`
		`db_cloud_maintenance`
		`db_software_maintenance`
		`delete_charge_item`
		`delete_cloud_service_instances`
		`delete_cloud_user_objects`
		`delete_dbaas_quota`
		`delete_pool`
		`delete_service_template`
		`deploy_rac_software`
		`deploy_db_software`
		`get_cloud_service_requests`
		`get_cloud_user_objects`
		`get_cloud_service_instances`
		`get_dbaas_quota`
		`get_dbaas_request_settings`
		`get_metering_data`
		`get_pool_capacity_data`
		`get_pool_capacity_summary_data`
		`get_pool_detail`
		`get_service_template`
		`get_pool_constraints`
		`get_pool_criteria`
		`get_pool_instance_data`
		`get_pool_target_type`
		`get_pools`
		`list_charge_item_candidates`
		`refresh_database`
		`remove_pool_members`
		`update_dbaas_request_settings`
		`update_dbaas_quota`
		`update_pool`

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information

Oracle Cloud Management Pack for Oracle Database	Licensed Views and Tables	The following objects within the repository schema are licensed under the Oracle Cloud Management Pack for Oracle Database:
		• Tables starting with `EMCT_CBA`.
		• Views starting with `EMCT$CBA`.
		• The views:
		`GP_EMCT_CBA_TARGET_CHARGE`
		`MGMT$EMCT_CBA_CHARGE_HOURLY`
		`MGMT$EMCT_CBA_CHARGE_DAILY`

Oracle Cloud Management Pack for Oracle Database	Licensed Chargeback Reports	The following Oracle Analytics Server reports are licensed under the Oracle Cloud Management Pack for Oracle Database. Also, any report created using the "create-like" feature of Oracle Analytics Server referring the following reports, falls under this license. • Charge Trend Report • Charge Summary Report • Usage Trend Report • Usage Summary Report

Copyright © 2015, 2025, Oracle and/or its affiliates.

5

Identity Management Enterprise Management

This chapter describes the licensed features and links of the following management pack offered by Enterprise Manager in support of Identity Management:

- Management Pack Plus for Identity Management

Management Pack Plus for Identity Management

The Management Pack Plus for Identity Management enables enterprises to proactively monitor the availability, performance, load, and security metrics of various Identity Management components.

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Supported Environments	This helps improve performance and availability, and reduce the cost and complexity of managing Identity Management deployments, including the following environments: • Oracle Internet Directory • Directory Integration Platform • Oracle Directory Server Enterprise Edition (formerly Sun Java Directory Server Enterprise Edition) • Oracle Virtual Directory • Oracle Identity Federation • Oracle Access Manager • Oracle Identity Manager • Oracle Adaptive Access Manager • Oracle Mobile & Social • Oracle Unified Directory
Management Pack Plus for Identity Management	License to Provision	License to provision Oracle Identity Management products through user-defined procedures is included as part of Management Pack Plus for Identity Management.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	General Features	The Management Pack Plus for Identity Management includes the following features: • **Note:** A management pack license is required to use the features described below in the Enterprise Manager graphical user interface, command-line interface, and published repository views. • Beacons measure availability and performance from representative key user locations. • Blackouts to suspend monitoring on targets to support scheduled maintenance periods. This includes the use of Blackouts in the Enterprise Manager console, EMCLI and REST APIs. • Complete service monitoring of service availability, performance, usage, and service level compliance. • Configuration to track configuration metrics, take configuration snapshots, and compare configurations for Oracle Access Manager 10g components, Oracle Internet Directory 11g, Oracle Directory Integration Platform 11g, Oracle Virtual Directory 11g, Oracle Identity Federation 11g, and Oracle Directory Server Enterprise Edition 6.x, 7.x, and 11gR1. • Management Connectors, such as ticketing connectors and event connectors, integrate Enterprise Manager with other management systems. Ticketing connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other event management systems. • Metric and Alert/Event History. This includes the use of metrics in the Enterprise Manager console, EMCLI and REST APIs. • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Monitoring and diagnostics to receive real-time metrics, historical data, and alert notifications. Proactively monitor the Oracle Identity Management environment. Out-of-box collection of key performance metrics for monitored components facilitates rapid time to value. • Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets for standardization. This includes the use of Monitoring Templates in the Enterprise Manager console and EMCLI. • Dynamic Runbooks enable subject matter experts to encapsulate best practice steps for diagnosing and resolving issues into a runbook that can be executed directly inside Enterprise Manager. • Event Compression reduces incidents by correlating and combining related events into a smaller set of incidents. • Monitoring support for IDM 12c: Oracle Access Manager (OAM), Oracle Identity Manager (OIM), Oracle Internet Directory (OID), and Directory Integration Platform (DIP). • Template Collections (with Administration Groups) automate the deployment of management settings on targets as they join the group. This includes the use of Template Collections in the Enterprise Manager console and EMCLI. • Notifications that define and use different notification methods including e-mail, OS scripts, PL/SQL procedures,

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
		SNMP traps, Webhooks and Slack. Also includes repeat notifications, use of notification-related actions in incident rule sets, and administrator notification schedules. • Service modeling of critical business functions based on a wide range of supported protocols.
Management Pack Plus for Identity Management	General Features (Continued)	• Single-step discovery of Identity Management 10g, 11g, and 12c components. **Identity Management 10g components** include: Oracle Access Manager (OAM) 10g, Oracle Identity Manager (OIM) 9.x, Oracle Identity Federation (OIF) 10g, and Oracle Identity Management Suite 10g (including Oracle Internet Directory, Directory Integration Platform, Delegated Administration Services, and Single Sign-On). **Identity Management 11g components** include: Oracle Internet Directory, Oracle Directory Integration Platform, Oracle Virtual Directory, Oracle Identity Federation, Oracle Access Manager, Oracle Identity Manager, and Oracle Adaptive Access Manager. Single-step discovery enables you to quickly set up your monitoring environment. **Identity Management 12c components** include: Oracle Directory Integration Platform, Oracle Internet Directory, Oracle Access Manager, and Oracle Identity Manager. A simple target discovery is also provided for Oracle Directory Server Enterprise Edition 6.x, 7.x, and 11g • Business Application Management to create and monitor business application targets to provide an intuitive representation of the relationship between your applications and business transactions and the underlying IT infrastructure.
Management Pack Plus for Identity Management	Oracle Unified Directory and WebLogic-based Containers Features	The following features are licensed for Oracle Unified Directory and WebLogic-based containers included in the Identity Management product restricted-use licensing that are licensed and managed by the Management Pack Plus for Identity Management: • Interactive JVM transaction trace Provide JVM thread tracing to view the response time breakdowns in each layer (servlet, JSP, EJB, JDBC, and SQL) of a JVM container. • JVM Diagnostics Agent hot deployment without WebLogic Server restarts or configuration changes. • JVM pool monitoring of all JVMs of an application together with uniform monitoring settings.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	WebLogic-based Containers Features	The following features are licensed for WebLogic-based containers included in the Identity Management product restricted-use licensing that are licensed and managed by the Management Pack Plus for Identity Management: • "Always on" low overhead monitoring, notifications, and dashboards to diagnose past problems, receive early warnings of outages, see a single view of the status of all applications. • Blackouts suspend monitoring on targets to support scheduled maintenance periods. • Business Application Management to provide an intuitive representation of the relationship between your applications and business transactions and the underlying IT infrastructure. • Composite Application Management to provide full visibility across all members and tiers of a composite application. • Historical performance monitoring to track availability and performance data over time. • Management Connectors, such as ticketing connectors and event connectors, integrate Enterprise Manager with other management systems. Ticketing connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other event management systems. • Metric and Alert/Event History • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets. • Dynamic Runbooks enable subject matter experts to encapsulate best practice steps for diagnosing and resolving issues into a runbook that can be executed directly inside Enterprise Manager. • Event Compression reduces incidents by correlating and combining related events into a smaller set of incidents. • Template Collections (with administration groups) automate the deployment of management settings on targets as they join the group. • Notifications to define and use different notification methods including e-mail, running custom OS scripts, PL/SQL procedures and SNMP traps; repeat notifications, use of notification-related actions in incident rule sets, administrator notification schedules. • Routing Topology to understand relationships and health of a Fusion Middleware Farm/WebLogic Domain and their related targets. • Real-time visibility into a JVM and application state without instrumentation overhead eliminate the need to reproduce problems in a test environment. *(Applies to applications deployed to both Oracle Application Server and WebLogic Server)* • Request performance to provide historical views that show the response times for end-user requests from the context of WebLogic Server and the underlying JVM. Response

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
		time breakdowns are available in each layer (servlet, JSP, EJB, JDBC, and SQL) of an WebLogic container.
Management Pack Plus for Identity Management	WebLogic-based Containers Features	The following features are licensed for WebLogic-based containers in the Identity Management product restricted-use licensing that are licensed and managed by the Management Pack Plus for Identity Management: • Contextual visibility into Java EE and web service metrics • Cross-tier trace with Oracle Database to view the impact of database problems on all associated applications and JVMs, and isolate problems between Java and the database. • Diagnostic Snapshot of both JVM monitoring and diagnostics data in correlation with the WebLogic Server log files. • Differential heap analysis uses memory leak analysis in production, and simplifies memory growth and leak analysis. • Interactive JVM transaction trace to view the response time breakdowns in each layer (servlet, JSP, EJB, JDBC, and SQL) of a JVM container. • JVM Diagnostics Agent hot deployment without WebLogic Server restarts or configuration changes. • Log Viewer to access Oracle Fusion Middleware log files quickly and easily - no matter where they are stored on the file system. Search and correlate log messages across all Oracle Fusion Middleware components' logs based on properties such as time, severity or Execution Context ID (ECID). • Metrics visibility for any layer to generate customized dashboards and views automatically. • Service-level objectives provide service-level objectives (SLOs) at any point within the architecture for indicators and alerts. • Trace in-flight transactions to view request performance problems in real time. Analyze time spent in each resource bottleneck and Java method. • WebLogic Domain/JVM pool monitoring of all JVMs of an application with uniform monitoring settings.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Oracle Access Manager Coherence-based Container Features	The following features are licensed for Oracle Access Manager Coherence-based containers included in the Identity Management product restricted-use licensing that are licensed and managed by the Management Pack Plus for Identity Management: • Automate deployment and setup of the Coherence cluster with multiple nodes. • Blackouts suspend monitoring on targets to support scheduled maintenance periods. • Cache data management to perform operations such as view, export, purge, and so on, on cache data. • Complete cluster visibility of detailed metrics for all Coherence components. • Configuration management to change run-time configuration parameters of multiple nodes, caches, and services from the central user interface console. Keep track of node configuration over period of time, change run-time configuration parameters of caches, nodes and services. • Customizable performance views by selecting metrics from the metrics pallet, overlay multiple metrics on the chart, save different views. • Log file monitoring of node log files by setting patterns. • Management Connectors, such as ticketing connectors and event connectors, integrate Enterprise Manager with other management systems. Ticketing connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other event management systems. • Metric and Alert/Event History • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Monitor multiple clusters from a single console. • Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets. • Dynamic Runbooks enable subject matter experts to encapsulate best practice steps for diagnosing and resolving issues into a runbook that can be executed directly inside Enterprise Manager. • Event Compression reduces incidents by correlating and combining related events into a smaller set of incidents. • Template Collections (with administration groups) automate the deployment of management settings on targets as they join the group. • Notifications to define and use different notification methods including e-mail, running custom OS scripts, PL/SQL procedures and SNMP traps; repeat notifications, use of notification-related actions in incident rule sets, administrator notification schedules. • Routing Topology to understand relationships and health of a Fusion Middleware Farm/WebLogic Domain and their related targets. • Stop existing nodes and start new ones in a Coherence cluster. • Start and stop the entire Coherence cluster.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
		• Topology view provide a graphical representation of the Coherence caches, nodes and hosts with related in context performance alerts.
Management Pack Plus for Identity Management	Oracle Identity Manager SOA-based Container Features	The following features are licensed for Oracle Identity Manager SOA-based containers included in the Identity Management product restricted-use licensing that are licensed and managed by the Management Pack Plus for Identity Management: • Adapter metrics provide throughput and error metrics for different adapters in graphical format. • Blackouts suspend monitoring on targets to support scheduled maintenance periods. • Business-IT alignment provides integration for business KPIs and system metrics in one system for correlation and trending. • Centralized management console to monitor and manage all enterprise components from a central location. • Configuration management for the BPEL Process Manager server/domains/processes and Oracle Service Bus. • Deployment automation of BPEL suitcases, OSB resources, SOA artifacts, and SOA composites. • Discovery and service modeling of Oracle BPEL processes, Oracle Service Bus-based business and proxy services. Provide automated system modeling capabilities for the SOA infrastructure. • Historical analysis and reporting to store collected metric and configuration data in a central repository. • Infrastructure management to monitor availability and performance of SOA infrastructure components. • Management Connectors, such as ticketing connectors and event connectors, integrate Enterprise Manager with other management systems. Ticketing connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other event management systems. • Metric and Alert/Event History • Metric Extensions create new metrics to monitor conditions specific to customer environments. • Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets. • Dynamic Runbooks enable subject matter experts to encapsulate best practice steps for diagnosing and resolving issues into a runbook that can be executed directly inside Enterprise Manager. • Event Compression reduces incidents by correlating and combining related events into a smaller set of incidents. • Template Collections (with administration groups) automate the deployment of management settings on targets as they join the group. • Notifications to define and use different notification methods including e-mail, running custom OS scripts, PL/SQL procedures and SNMP traps; repeat notifications, use of notification-related actions in incident rule sets, administrator notification schedules.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Oracle Identity Manager SOA-based Container Features (Continued)	• Run-time governance to define SOAP tests to measure and record availability and performance of partner links (or any Web service) and business/proxy services for historical trending, troubleshooting, and root cause analysis purposes • Service level management to monitor services from the end-user's perspective using service tests or synthetic transactions, model relationships between services and underlying IT components, and report on achieved service levels
Management Pack Plus for Identity Management	Identity Management 10g Targets	• Access Manager — Access Server • Access Manager — Identity Server • Access Manager — Access System • Access Manager — Identity System • Identity Federation Server • Identity Federation System • Identity Manager Repository • Identity Manager Server • Identity Manager System • Delegated Administration Server • Directory Integration Platform Server • Oracle Internet Directory • Single Sign-On Server • Hosts running Identity Management components • Generic Service or Web Application targets associated with Access Manager - Access System, Access Manager - Identity System, Identity Federation System, and Identity Manager System Hosts running Identity Management components
Management Pack Plus for Identity Management	Identity Management 11g Targets	• Oracle Internet Directory • Oracle Unified Directory • Identity Federation Server • Directory Integration Platform Server • Oracle Virtual Directory • Oracle Access Manager • Oracle Access Manager Cluster • Oracle Adaptive Access Manager • Oracle Identity Manager • Oracle Adaptive Access Manager Cluster • Oracle Identity Manager Cluster • Hosts running Identity Management components • Generic Service & Identity and Access System targets associated with Identity Management 11g components
Management Pack Plus for Identity Management	Identity Management 12c Targets	• Oracle Identity Manager • Directory Integration Platform Server • Oracle Access Manager • Oracle Identity Directory

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Oracle Directory Server Enterprise Edition Targets	With the Oracle System Monitoring plug-in for Oracle Directory Server, a simple target discovery is also provided for Oracle Directory Server Enterprise Edition (formerly Sun Java Directory Server Enterprise Edition) 6.x and 7.x, and ODSEE 11gR1. The following Oracle DSEE target types are supported: • Directory Server Enterprise • Directory Server Enterprise Edition Server • Directory Server Group • Hosts running Oracle DSEE components

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Licensed Links	The following licensed pages and links of this pack apply to the following Identity Management-specific targets within Enterprise Manager: **Identity and Access page** • From the **Targets** menu, select **Middleware**. On the Middleware page, select the **Middleware Features** menu and then select **Identity and Access**. All links and drop-down menu items on this page are licensed. **Identity Management 11g Targets** • From the **Targets** menu, select **All Targets**. On the All Targets page, select any of the target types referenced from Identity Management 11g Targets (listed above). All links and drop-down menu items are licensed. **Oracle Directory Server Enterprise Edition Targets** • From the **Targets** menu, select **All Targets**. On the All Targets page, select any of the target types referenced from Oracle Directory Server Enterprise Edition Targets (listed above). All links and drop-down menu items are licensed. **Access Manager - Access Server page** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Access Manager – Access Server**. • From the **Targets** menu, select **Middleware**. From the **Middleware Features** menu, select **Identity and Access**. • On the Access Manager – Access Server Home page, these items and all links in these sections are licensed: Black Out button Availability link Associated Directory Server Information section Alerts section Host Alerts section Configuration section Related Links section **Access Manager - Identity Server page** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Access Manager – Identity Server**. The Access Manager – Identity Server Home page appears. • From the **Targets** menu, select **Middleware**. From the **Middleware Features** menu, select **Identity and Access**. • On the Access Manager - Identity Server Home page, these items and all links in these sections are licensed: Black Out button Availability link Associated Directory Server Information section Alerts section Host Alerts section Configuration section Related Links section

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Licensed Links (continued)	The following licensed pages and links of this pack apply to the following Identity Management-specific targets within Enterprise Manager: **Access Manager – Identity Server Performance page** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Access Manager – Identity Server**. On the Access Manager - Identity Server Home page, select the **Performance** sub-tab. All features on this page are licensed. **Access Manager - Access System page** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Access Manager – Access System**. • From the **Targets** menu, select **Middleware**. From the **Middleware Features** menu, select **Identity and Access**. • On the Access Manager - Access System home page, all features on the page are licensed. • From the Access Manager - Access System home page, select the **Charts** sub-tab. All features on this page are licensed. • From the Access Manager - Access System home page, select the **Administration** sub-tab. All features on this page are licensed. • From the Access Manager - Access System home page, select the **Components** sub-tab. All features on this page are licensed. • From the Access Manager - Access System home page, select the **Topology** sub-tab. All features on this page are licensed. **Access Manager - Identity System** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Access Manager – Identity System**. • From the **Targets** menu, select **Middleware**. From the **Middleware Features** menu, select **Identity and Access**. • On the Access Manager - Identity System home page, all features on the page are licensed. • From the Access Manager - Access Identity home page, select the **Charts** sub-tab. All features on this page are licensed. • From the Access Manager - Access Identity home page, select the **Administration** sub-tab. All features on this page are licensed. • From the Access Manager - Access Identity home page, select the **Components** sub-tab. All features on this page are licensed. • From the Access Manager - Access Identity home page, select the **Topology** sub-tab. All features on this page are licensed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Licensed Links (continued)	The following licensed pages and links of this pack apply to the following Identity Management-specific targets within Enterprise Manager: **Identity Federation Server** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Identity Federation Server**. • From the **Targets** menu, select **Middleware**. From the **Middleware Features** menu, select **Identity and Access**. • On the Identity Federation Server Home page, these items and all links in these sections are licensed: Black Out button Availability link User Data Store section Federation Data Store section Alerts section Host Alerts section Related Links section **Identity Federation System** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Identity Federation System**. • From the **Targets** menu, select **Middleware**. From the **Middleware Features** menu, select **Identity and Access**. • On the Identity Federation System home page, all features on the page are licensed. • From the Identity Federation System home page, select the **Charts** sub-tab. All features on this page are licensed. • From the Identity Federation System home page, select the **Administration** sub-tab. All features on this page are licensed. • From the Identity Federation System home page, select the **Components** sub-tab. All features on this page are licensed. • From the Identity Federation System home page, select the **Topology** sub-tab. All features on this page are licensed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Licensed Links (continued)	The following licensed pages and links of this pack apply to the following Identity Management-specific targets within Enterprise Manager: **Identity Manager Repository** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Identity Manager Repository**. • From the **Targets** menu, select **Middleware**. From the **Middleware Features** menu, select **Identity and Access**. • On the Identity Manager Repository home page, these items and all links in these sections are licensed: Black Out button Availability link Provisioning section Associated Remote Managers section Alerts section Host Alerts section Related Links section **Identity Manager Server** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Identity Manager Server**. • From the **Targets** menu, select **Middleware**. Click the **Middleware Features** menu, then **Identity and Access**. • On the Identity Manager Server home page, these items and all links in these sections are licensed: Black Out button Availability link Alerts section Host Alerts section Related Links section **Identity Manager Server Performance page** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Identity Manager Server**. From the Identity Manager Server home page, select the **Performance** sub-tab. All features on this page are licensed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Licensed Links (continued)	**Identity Manager System** • From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Identity Manager System**. • From the **Targets** menu, select **Middleware**. From the **Middleware Features** menu, select **Identity and Access**. • On the Identity Manager System home page, all features on the page are licensed. • From the Identity Manager System home page, select the **Charts** sub-tab. All features on this page are licensed. • From the Identity Manager System home page, select the **Administration** sub-tab. All features on this page are licensed. • From the Identity Manager System home page, select the **Components** sub-tab. All features on this page are licensed. • From the Identity Manager System home page, select the **Topology** sub-tab. All features on this page are licensed. **Hosts page with Identity Management Components** • From the **Targets** menu, select **Middleware**. On the Middleware page, click the **Middleware Features** menu, then **Identity and Access**. All links on this page are licensed: Home Monitoring Control Job Activity Information Publisher Reports Administration Net Services Administration Log File Alerts Storage Details Remote File Editor Execute Host Command Privilege Delegation Setting Related Targets Configuration Compliance Target Setup Target Information **Hosts** • From the **Targets** menu, select **Hosts**. • On the Hosts page, select the **Performance** sub-tab. All features on this page are licensed. • On the Hosts page, select the **Administration** sub-tab. All features on this page are licensed. (**Note:** The Administration page is only available for Linux operating systems.) • On the Hosts page, select the **Targets** sub-tab. All features on this page are licensed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Licensed Links Outside of Target-Specific Pages	**Application Performance Management** • From the **Setup** menu, select **Middleware Management**, and then select **Setup**. On this page, the ability to register and manage Application Performance Management Engines and other items are licensable as part of the Management Pack Plus for Identity Management. **Compliance** • From the **Enterprise** menu, select **Compliance**. All features, functions, links, buttons, and drill-downs associated with the Library, Real-time Observations, and Results pages are licensed as part of the Management Pack Plus for Identity Management. **Configuration Collection Extensibility** • From the **Enterprise** menu, select **Configuration and Custom**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Management Pack Plus for Identity Management. **Configuration Compare** • From the **Enterprise** menu, select **Configuration and Compare**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Management Pack Plus for Identity Management. **Configuration History** • From the **Enterprise** menu, select **Configuration and History**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Management Pack Plus for Identity Management. **Configuration Instance Browser** • From the **Targets** menu, select **Middleware**. Select a Fusion Middleware related target identified above. From the target's menu, click the **Configuration** submenu. All features, functions, links, buttons, and drill-downs from this submenu, excluding Topology, are licensed as part of the Management Pack Plus for Identity Management. **Configuration Save** • From the **Enterprise** menu, select **Configuration and Save**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Management Pack Plus for Identity Management. **Configuration Search** • From the **Enterprise** menu, select **Configuration and Search**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Management Pack Plus for Identity Management.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Licensed Links Outside of Target-Specific Pages (Continued)	**Configuration Topology** • From the **Enterprise** menu, select **Configuration and Topology**. In the View drop-down menu, Used By is licensed as part of the Management Pack Plus for Identity Management. • From the **Enterprise** menu, select **Configuration and Topology, Customization**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Management Pack Plus for Identity Management. **User Defined Deployment Procedures (UDDP)** • From the **Enterprise** menu, select **Provisioning and Patching**, and then select **Procedure Library**. On the Provisioning Library page, from the list of actions, the Create New option is licensed as part of the Management Pack Plus for Identity Management. **Real-time Configuration Change Detection** • From the **Enterprise** menu, select **Compliance**. All features, functions, links, buttons, and drill-downs associated Library, Results and Real-Time Observations pages are licensed as part of the Management Pack Plus for Identity Management.
Management Pack Plus for Identity Management	Service Level Management Restricted-Use License	Management Pack Plus for Identity Management includes the full capabilities of Enterprise Manager Service Level Management. See Enterprise Manager Service Level Management in End-User Monitoring for more information.

Copyright © 2015, 2025, Oracle and/or its affiliates.

6

Other Infrastructure Management

This chapter describes the licensed features and access points for each of the following categories of other Enterprise Manager infrastructure management:

- Configuration Management Pack for Applications
- Management Pack for Non-Oracle Middleware
- System Monitoring Plug-ins for Non-Oracle Middleware
- System Monitoring Plug-ins for Non-Oracle Databases
- Oracle Enterprise Manager for MySQL

Configuration Management Pack for Applications

The Configuration Management Pack for Applications automates the time-consuming and often error-prone process of managing host software and hardware configurations and deployments for Oracle and non-Oracle software, excluding the Oracle Database. This pack provides capabilities such as search and compare across all systems, configuration monitoring, and compliance management, ensuring consistency across deployments.

You can access the Configuration Management Pack for Applications functionality through the following Enterprise Manager licensed links. These components comprise the features provided by the Configuration Management Pack for Applications.

The following table describes this management pack offered by Enterprise Manager:

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Applications	Features	The following features and functions can be use with an existing Configuration Management Pack for Applications License: • Discovery and Inventory tracking provides the ability to discover your assets, and track them. • Configuration Management to track inventory, configuration drift and detailed configuration search. • Compliance Management for reporting and management of industry and regulatory compliance standards. • Compliance Frameworks, standards, and extensibility to meet industry and regulatory compliance requirements • Configuration Collection Extensibility to create custom configuration collections and extend current collections • Configuration Compare, one-to-one and one-to-many. • Configuration History to report on configuration or relations changes during a specific time frame. • Configuration Instance Browser to view configuration items and associations associated with a target. • Configuration Save for reference, baselines, or Gold Standards. • Configuration Search on a specific target or across relationships. • Configuration Topology of a specified target and its dependencies along with other targets that are dependent on it. • File Synchronization of differences during a comparison. • Real-time configuration change detection and automation of compliance frameworks. • User Defined Deployment Procedures (UDDP) to automate custom processes by creating a procedure from the start by inserting the required phases, steps, and variables. With the purchase of the Configuration Management Pack for Applications you also are entitled to the following features. These features are restricted to the host software and hardware configurations and deployments for Oracle and non-Oracle software, excluding the Oracle Database. • Self Update to update Enterprise Manager with new features or fixes based on new versions of software available on Oracle Technology Network (OTN) or My Oracle Support (MOS). The downloading and applying any updates associated with, host, Oracle and non-Oracle software, excluding the Oracle Database, for Configuration and Compliance are licensed as part of the Configuration Management Pack for Applications.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Applications	Licensed Links	The following licensed pages, links, features and functions of this pack apply to host software, platform, Oracle software, and non-Oracle software excluding the Oracle Database. For management of the Oracle Database or to extend these features and functions to the Oracle Database, you must purchase the Database Lifecycle Management Pack for Oracle Database. The following are the licensed pages, links, features and functions that can be use with an existing Configuration Management Pack for Applications License: **Configuration Search** • From the **Enterprise** menu, select **Configuration and Search**. All features, functions, links, buttons and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed as part of the Configuration Management Pack for Applications. **Configuration Instance Browser** • From the **Targets** menu, select **All Targets**, and then select a target, excluding Oracle Database. From the Target home page, select the drop-down under the **Target Type** then select **Configuration**. All features, functions, links, buttons and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed as part of the Configuration Management Pack for Applications. **Configuration History** • From the **Enterprise** menu, select **Configuration and History**. All features, functions, links, buttons and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed as part of the Configuration Management Pack for Applications. **Configuration Compare** • From the **Enterprise** menu, select **Configuration and Compare**. All features, functions, links, buttons and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed as part of the Configuration Management Pack for Applications. **File Synchronization** • When viewing comparison results differences as described in the Configuration Compare feature, select the configuration specification in the tree on the left. Select **Enable File Synchronization**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Configuration Management Pack for Applications.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Applications	Licensed Links (continued)	**Configuration Topology** • From the target home page, select the drop-down under the **Target Type** and **Configuration**, **Topology**. In the View drop-down, **Used By** is licensed as part of the Configuration Management Pack for Applications. • From the target home page, select the drop-down under the **Target Type** and **Configuration**, **Topology** and **Customization**. All features, functions, links, buttons and drill-downs on this page are licensed as part of the Configuration Management Pack for Applications. **Configuration Save** • From the **Enterprise** menu, select **Configuration and Save**. All features, functions, links, buttons, and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed as part of the Configuration Management Pack for Applications. **Configuration Collection Extensibility** • From the **Enterprise** menu, select **Configuration and Custom**. All features, functions, links, buttons, and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed as part of the Configuration Management Pack for Applications. **Compliance** • From the **Enterprise** menu, select **Compliance**. All features, functions, links, buttons, and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed as part of the Configuration Management Pack for Applications. **Real-time Configuration Change Detection** • From the **Enterprise** menu, select **Compliance**. All features, functions, links, buttons, and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed as part of the Configuration Management Pack for Applications. **User Defined Deployment Procedures (UDDP)** • From the **Enterprise** menu, select **Provisioning and Patching**, and then select **Procedure Library**. On the Provisioning Library page, from the list of actions, the Create New option is licensed as part of the Configuration Management Pack for Applications.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information

Configuration Management Pack for Applications	Licensed CLI Verbs	The following Enterprise Manager Command Line Interface (CLI) verbs are licensed as part of the Configuration Management Pack for Applications:
		
		`confirm_instance`
		`describe_instance`
		`describe_procedure_input`
		`get_executions`
		`get_instance_data`
		`get_instance_status`
		`get_instances`
		`get_procedure_types`
		`get_procedure_xml`
		`get_procedures`
		`get_retry_argument`
		`ignore_instance`
		`reschedule_instance`
		`resume_instance`
		`save_procedure`
		`stop_instance`
		`submit_procedure`
		`suspend_instance`
		`update_and_retry_step`
		`update_procedure_input`

Configuration Management Pack for Applications	Licensed Reports	The following reports are part of the Configuration Management Pack for Applications. All reports, excluding reports associated with, or for the Oracle Database, are licensed as part of this pack. To access the reports, go to the **Enterprise Manager** home page, and from the **Enterprise** menu, select **Reports**, and then select **Information Publisher Reports**. If you have Oracle Analytics Server installed and configured with Oracle Enterprise Manager along with the out-of-the-box reports, go to Oracle Analytics Server. The following reporting areas, reports, and sub-reports under **Information Publisher Reports** are licensed as part of the Configuration Management Pack for Applications: • Compliance • Configuration The following reporting areas, reports, and sub-reports under your independently configured Oracle Analytics Server installation are licensed as part of the Configuration Management Pack for Applications: • Compliance • Configuration

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Applications	Licensed Configuration Repository Views	The following Configuration repository views are part of the Configuration Management Pack for Applications: MGMT$CCS_DATA MGMT$CCS_DATA_SOURCE MGMT$CCS_DATA_SOURCE_VISIBLE MGMT$CCS_DATA_VISIBLE MGMT$CS_ASM_DISKGRP_SETTINGS MGMT$CS_DB_CONTROL_FILE_COUNT MGMT$CS_DB_INIT_PARAMS MGMT$CS_DB_RBS_IN_SYSTEM MGMT$CS_DB_REC_SEG_SETTINGS MGMT$CS_DB_REC_TS_SETTINGS MGMT$CS_DB_REC_USER_SETTINGS MGMT$CS_DB_REDO_LOG_COUNT MGMT$CS_DB_REDO_LOGS MGMT$CS_DB_TABLESPACES MGMT$CS_DB_TBSP_SEGSPACE_MGMT MGMT$CS_FEATURE_USAGE MGMT$CS_HA_INFO MGMT$ECM_CURRENT_SNAPSHOTS MGMT$ECM_VISIBLE_SNAPSHOTS MGMT$HW_CPU_DETAILS MGMT$HW_IO_DEVICES MGMT$HW_NIC_BONDS MGMT$J2EE_APPLICATION MGMT$J2EEAPP_EJBCOMPONENT MGMT$J2EEAPP_JRFWS MGMT$J2EEAPP_JRFWSOPER MGMT$J2EEAPP_JRFWSPOLICY MGMT$J2EEAPP_JRFWSPORT MGMT$J2EEAPP_WEBAPPCOMPONENT MGMT$J2EEAPP_WSCONFIG

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Applications	Licensed Oracle Home Patching Repository Views	The following Oracle Home Patching repository views are part of the Configuration Management Pack for Applications: MGMT$OH_CLONE_PROPERTIES MGMT$OH_COMPONENT MGMT$OH_COMP_DEP_RULE MGMT$OH_COMP_INST_TYPE MGMT$OH_CRS_NODES MGMT$OH_DEP_HOMES MGMT$OH_FILE MGMT$OH_HOME_INFO MGMT$OH_INSTALLED_TARGETS MGMT$OH_INV_SUMMARY MGMT$OH_PATCH MGMT$OH_PATCHED_COMPONENT MGMT$OH_PATCHED_FILE MGMT$OH_PATCHSET MGMT$OH_PATCH_FIXED_BUG MGMT$OH_VERSIONED_PATCHV MGMT$CPF_ADVISORY_INFO MGMT$CPF_HOMES_INFO MGMT$CPF_PATCH_INFO MGMT$EM_HOMES_PLATFORM MGMT$HOMES_AFFECTED MGMT$PATCH_ADVISORIES MGMT$APPL_PATCH_AND_PATCHSET MGMT$APPLIED_PATCHES MGMT$APPLIED_PATCHSETS
Configuration Management Pack for Applications	Licensed Compliance Repository Views	The following Compliance repository views are part of the Configuration Management Pack for Applications: MGMT$COMPLIANCE_STANDARD_RULE MGMT$COMPLIANCE_STANDARD MGMT$COMPLIANCE_STANDARD_GROUP MGMT$CS_EVAL_SUMMARY MGMT$COMPOSITE_CS_EVAL_SUMMARY MGMT$CS_ASM_DISKGRP_SETTINGS MGMT$CS_DB_CONTROL_FILE_COUNT MGMT$CS_DB_INIT_PARAMS MGMT$CS_DB_RBS_IN_SYSTEM MGMT$CS_DB_REC_SEG_SETTINGS MGMT$CS_DB_REC_TS_SETTINGS MGMT$CS_DB_REC_USER_SETTINGS MGMT$CS_DB_REDO_LOG_COUNT MGMT$CS_DB_REDO_LOGS MGMT$CS_DB_TABLESPACES MGMT$CS_DB_TBSP_SEGSPACE_MGMT MGMT$CS_FEATURE_USAGE MGMT$CS_HA_INFO MGMT$CS_GROUP_EVAL_SUMMARY MGMT$CS_RULE_EVAL_SUMMARY MGMT$CS_TARGET_ASSOC MGMT$CCC_ALL_OBSERVATIONS MGMT$CCC_ALL_OBS_BUNDLES MGMT$CCC_DIAG_ANALYTICS MGMT$CCC_DIAG_QUEUEBACKLOG

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information

Configuration Management Pack for Applications	Licensed Client Configuration Repository Views	The following Client Configuration repository views are part of the Configuration Management Pack for Applications:
		`MGMT$CSA_COLLECTIONS`
		`MGMT$CSA_FAILED`
		`MGMT$CSA_HOST_OS_COMPONENTS`
		`MGMT$CSA_HOST_SW`
		`MGMT$CSA_HOST_COOKIES`
		`MGMT$CSA_HOST_CUSTOM`
		`MGMT$CSA_HOST_RULES`
		`MGMT$CSA_HOST_CPUS`
		`MGMT$CSA_HOST_IOCARDS`
		`MGMT$CSA_HOST_NICS`
		`MGMT$CSA_HOST_OS_PROPERTIES`
		`MGMT$CSA_HOST_OS_FILESYSEMS`
		`MGMT$ECM_CONFIG_HISTORY`

Configuration Management Pack for Applications	Previous Configuration Management Packs	If you have an older Configuration Management pack including: • Configuration Management Pack • Configuration Management Pack for Oracle Middleware • Configuration Management Pack for Non-Oracle Systems You may use all of the features licensed as part of the Configuration Management Pack for Applications only against the previously licensed targets except for the following: • Application Configuration Console • Configuration Collection Extensibility • Creating a custom Comparison Template • Using a Comparison Template as part of a Configuration Comparison specification

Management Pack for Non-Oracle Middleware

This pack improves the availability and performance of Java applications with low overhead deployed on Non-Oracle Middleware (such as, IBM WebSphere Application Server, JBoss Application Server, and Apache Tomcat), and provides in-depth diagnostics.

The following table describes this management pack offered by Enterprise Manager:

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for non-Oracle Middleware	Components	The Management Pack for Non-Oracle Middleware includes the following components: • Enterprise Manager system monitoring functionality for IBM WebSphere Application Server, JBoss Application Server, and Apache Tomcat. • Enterprise Manager monitoring plug-ins for Microsoft Internet Information Services. • Oracle Support Document 2117445.1 (Java and OS platform support for JVM Diagnostics (JVMD) Agent in Enterprise Manager) can be found at: https://support.oracle.com/rs?type=doc&id=2117445.1 • Java Mission Control (JMC), which is applicable for Application Servers and standalone Java applications. • Configuration Management: track inventory, configuration drift and detailed configuration search (excluding all versions of JBoss AS and JBoss EAP). • Configuration extensions collect details about targets then the Configuration Management features are licensable. • **Note** Configuration Management features do not apply to JBoss Application Server nor JBoss Enterprise Application Platform.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for non-Oracle Middleware	Features	The Management Pack for Non-Oracle Middleware includes the following features: • Blackouts to suspend monitoring on targets to support scheduled maintenance periods. This includes the use of Blackouts in the Enterprise Manager console, EMCLI and REST APIs. • Configuration Collection Extensibility to create custom configuration collections and extend current collections • Configuration Compare, one-to-one and one-to-many (excluding all versions of JBoss AS and JBoss EAP). • Configuration History to report on configuration or relations changes during a specific time frame (excluding all versions of JBoss AS and JBoss EAP). • Configuration Instance Browser to view configuration items and associations associated with a target (excluding all versions of JBoss AS and JBoss EAP). • Configuration Save for reference, baselines, or Gold Standards (excluding all versions of JBoss AS and JBoss EAP). • Configuration Search on a specific target or across relationships (excluding all versions of JBoss AS and JBoss EAP). Configuration Topology of a specified target and its dependencies along with other targets that are dependent on it (excluding all versions of JBoss AS and JBoss EAP). • Management Connectors, such as ticketing connectors and event connectors, integrate Enterprise Manager with other management systems. Ticketing connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other event management systems. • Memory leak detection and analysis in production environments. • Metric and Alert/Event History. This includes the use of metrics in the Enterprise Manager console, EMCLI and REST APIs. • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets for standardization. This includes the use of Monitoring Templates in the Enterprise Manager console and EMCLI. • Dynamic Runbooks enable subject matter experts to encapsulate best practice steps for diagnosing and resolving issues into a runbook that can be executed directly inside Enterprise Manager. • Event Compression reduces incidents by correlating and combining related events into a smaller set of incidents. • Template Collections (with Administration Groups) automate the deployment of management settings on targets as they join the group. This includes the use of Template Collections in the Enterprise Manager console and EMCLI. • Notifications that define and use different notification methods including e-mail, OS scripts, PL/SQL procedures,

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
		SNMP traps, Webhooks and Slack. Also includes repeat notifications, use of notification-related actions in incident rule sets, and administrator notification schedules.
Management Pack for non-Oracle Middleware	Features	• Performance monitoring provides real-time and historical performance monitoring. • Real-time monitoring of JVM provides a summary view of resource bottlenecks affecting performance, such as the database, I/O, CPU, and locks. • Trace in-flight transactions to view request performance problems in real time. Analyze time spent in each resource bottleneck (extend to each Java method). • User Defined Deployment Procedures (UDDP) to automate custom processes by creating a procedure from the start by inserting the required phases, steps, and variables.
Management Pack for non-Oracle Middleware	Restricted-Use License	Management Pack for Non-Oracle Middleware includes the full capabilities of Enterprise Manager Service Level Management. See Enterprise Manager Service Level Management in End-User Monitoring for more information.

System Monitoring Plug-ins for Non-Oracle Middleware

The Enterprise Manager System Monitoring Plug-ins for Non-Oracle Middleware provide performance and availability data collection, real-time and historical monitoring, event management/monitoring, notifications, and reporting for Non-Oracle Middleware.

The following table describes this management pack offered by Enterprise Manager:

System Monitoring Plug-in	Type of Licensing Information	Licensing Information
Apache HTTP Server	Documentation Resources	See Discovering and Monitoring Apache HTTP Server in *Enterprise Manager Middleware Management Guide*.

Copyright © 2015, 2025, Oracle and/or its affiliates.

System Monitoring Plug-in	Type of Licensing Information	Licensing Information
Apache HTTP Server	Features	The following features are available for Apache HTTP Server management: • Real-time and historical availability monitoring • Event management/monitoring • Notifications that define and use different notification methods including e-mail, OS scripts, PL/SQL procedures, SNMP traps, Webhooks and Slack. Also includes repeat notifications, use of notification-related actions in incident rule sets, and administrator notification schedules. • Metric and Alert/Event History. This includes the use of metrics in the Enterprise Manager console, EMCLI and REST APIs. • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Blackouts to suspend monitoring on targets to support scheduled maintenance periods. This includes the use of Blackouts in the Enterprise Manager console, EMCLI and REST APIs. • Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets for standardization. This includes the use of Monitoring Templates in the Enterprise Manager console and EMCLI. • Availability and event reports • Repository tables and views that store or expose the above data • Configuration Management: Configuration Collection Extensibility, Configuration Compare (not including the use of Comparison Templates), Configuration History, Configuration Instance Browser, Configuration Save, and Configuration Search

Copyright © 2015, 2025, Oracle and/or its affiliates.

System Monitoring Plug-in	Type of Licensing Information	Licensing Information
Apache HTTP Server	General Monitoring Licensed Links	The following list of links and navigation to them correspond with managing Apache HTTP Server in Oracle Enterprise Manager 24ai and are licensed as part of the System Monitoring Plug-in for Non-Oracle Middleware. **Home page** • From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, all links are licensed. **Create Blackout** • From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page, then select **Blackout**. All links, menu items, tabs, and sections on this page are licensed. • From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page, then select the **Target** menu, then **Control**, and finally **Create Blackout**. All links, menu items, tabs, and sections on this page are licensed **End Blackout** • From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page, then select **End Blackout**. All links, menu items, tabs, and sections on this page are licensed. • From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page, then select the **Target** menu, then **Control**, and finally **End Blackout**. All links, menu items, tabs, and sections on this page are licensed. **All Metrics** • From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Monitoring**, and finally **All Metrics**. All links, menu items, tabs, and sections on this page are licensed. **Status History** • From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Monitoring**, and finally **Status History**. All links, menu items, tabs, and sections on this page are licensed. **Alert History**

Copyright © 2015, 2025, Oracle and/or its affiliates.

System Monitoring Plug-in	Type of Licensing Information	Licensing Information
		• From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an **Apache HTTP Server** target to navigate to its home page. On this page, select the **Target** menu, then **Monitoring**, and finally **Alert History**. All links, menu items, tabs, and sections on this page are licensed. **Blackouts** • From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Monitoring**, and finally **Blackouts**. All links, menu items, tabs, and sections on this page are licensed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

System Monitoring Plug-in	Type of Licensing Information	Licensing Information
Apache HTTP Server	Configuration Management Licensed Links	The following list of links and navigation to them correspond with managing Apache HTTP Server in Oracle Enterprise Manager 24ai and are licensed as part of the System Monitoring Plug-in for Non-Oracle Middleware. **Last Collected** • From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Configuration**, and finally **Last Collected**. All links, menu items, tabs, and sections on this page are licensed. **Compare** • From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Configuration**, and finally **Compare**. All links, menu items, tabs, and sections on this page are licensed. **Search** • From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Configuration**, and finally **Search**. All links, menu items, tabs, and sections on this page are licensed. **History** • From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Configuration**, and finally **History**. All links, menu items, tabs, and sections on this page are licensed. **Save…** • From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Configuration**, and finally **Save…**. All links, menu items, tabs, and sections on this page are licensed. **Saved** • From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Configuration**, and finally **Saved**. All links, menu items, tabs, and sections on this page are licensed. **Topology** • From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all

Copyright © 2015, 2025, Oracle and/or its affiliates.

System Monitoring Plug-in	Type of Licensing Information	Licensing Information
		Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Configuration**, and finally **Topology**. All links, menu items, tabs, and sections on this page are licensed.
Apache HTTP Server	Compliance Management Licensed Links	The following list of links and navigation to them correspond with managing Apache HTTP Server in Oracle Enterprise Manager and are licensed as part of the System Monitoring Plug-in for Non-Oracle Middleware. **Results** • From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Compliance**, and finally **Results**. All links, menu items, tabs, and sections on this page are licensed. **Standard Associations** • From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Compliance**, and finally **Standard Associations**. All links, menu items, tabs, and sections on this page are licensed.

System Monitoring Plug-ins for Non-Oracle Databases

The following plug-ins for non-Oracle databases are available:

- Oracle System Monitoring Plug-in for Microsoft SQL Server
- Oracle System Monitoring Plug-in for IBM DB2

For information on licensing Oracle Enterprise Manager for MySQL, see Oracle Enterprise Manager for MySQL.

The following table describes this management pack offered by Enterprise Manager:

Copyright © 2015, 2025, Oracle and/or its affiliates.

System Monitoring Plug-in	Type of Licensing Information	Licensing Information
System Monitoring Plug-ins for non-Oracle Database	Features	The following features are available for these plug-ins: • Performance monitoring and trending • Management Connectors, such as ticketing connectors and event connectors, integrate Enterprise Manager with other management systems. Ticketing connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other event management systems. • Metric alert management: metric history and associated drill-downs, alert history and associated drill-downs, event history and associated drill-downs. • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Notifications that define and use different notification methods including e-mail, OS scripts, PL/SQL procedures, SNMP traps, Webhooks and Slack. Also includes repeat notifications, use of notification-related actions in incident rule sets, and administrator notification schedules. • Blackouts to suspend monitoring on targets to support scheduled maintenance periods. This includes the use of Blackouts in the Enterprise Manager console, EMCLI and REST APIs. • Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets for standardization. This includes the use of Monitoring Templates in the Enterprise Manager console and EMCLI. • Performance and event reports • Configuration Management: Configuration Collection Extensibility for licensed target types, Configuration Compare (not including the use of Comparison Templates), Configuration History, Configuration Instance Browser, Configuration Save, and Configuration Search for licensed target types. • Repository tables/views that store/expose the above data • User Defined Deployment Procedures (UDDP): Automate custom processes by creating a procedure from the start by inserting the required phases, steps, and variables. • Dynamic Runbooks enable subject matter experts to encapsulate best practice steps for diagnosing and resolving issues into a runbook that can be executed directly inside Enterprise Manager. • Event Compression reduces incidents by correlating and combining related events into a smaller set of incidents. To use these features, you must license the System Monitoring Plug-ins for Non-Oracle Database.

Copyright © 2015, 2025, Oracle and/or its affiliates.

System Monitoring Plug-in	Type of Licensing Information	Licensing Information
System Monitoring Plug-ins for non-Oracle Database	Licensed Links	The list that follows itemizes the links that require licensing of the plug-ins. You can navigate to these features in several ways. The list that follows assumes that you begin from the main Enterprise Manager home page. From the **Setup** menu, select **Add Target** and then select **Add Targets Manually**. On this page, select the **Add Non-Host Targets by Specifying Target Monitoring Properties** option. The following selections from the Target Type drop-down menu are licensed features of the System Monitoring Plug-in for Non-Oracle Databases: • Microsoft SQL Server • IBM DB2 Database
System Monitoring Plug-ins for non-Oracle Database	Licensed CLI Verbs	The following command line interface (CLI) verb is licensed as part of the System Monitoring Plug-in for Non-Oracle Databases: • `add_target` The internal names to be used with the add_target verb are: • `microsoft_sqlserver_database` • `ibm_db2_database`

Oracle Enterprise Manager for MySQL

Oracle Enterprise Manager for MySQL is included with MySQL Enterprise Edition and MySQL Cluster Carrier Grade Edition.

> **Note**
>
> To use Oracle Enterprise Manager for MySQL with MySQL Community Edition, you must purchase licensing for MySQL Enterprise Edition or MySQL Cluster Carrier Grade Edition.

Copyright © 2015, 2025, Oracle and/or its affiliates.

7

Packaged Application Management

This chapter describes the licensed features and access points of the Application products available for Oracle Enterprise Manager. The following management packs are included:

- Application Management Suite for Siebel
- Application Management Suite for Oracle E-Business Suite
- Application Management Suite for JD Edwards EnterpriseOne
- Application Management Suite for PeopleSoft Enterprise

Application Management Suite for Siebel

This product offers comprehensive application management capabilities that help IT organizations simplify the administration and monitoring of their Siebel Enterprise environments. The Application Management Suite for Siebel is composed of the following physical components:

- Siebel Plug-in (built into Enterprise Manager)
- Oracle Real User Experience Insight (RUEI)

Siebel Diagnostic Tool, a standalone utility released with the Siebel Media Pack since Siebel 8.0, is licensed as part of Oracle Application Management Suite for Siebel. All features and capabilities of this tool require the Oracle Application Management Suite for Siebel license.

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Restricted-Use License	The management suite contains a restricted use license of RUEI for use against the core Siebel application. The management suite also includes a restricted use license of Siebel Test Automation (STA) for running synthetic transaction monitoring scripts. The STA license does not cover the use of test automation tools to perform neither functional nor load tests against the Siebel application.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Features	The Application Management Suite for Siebel includes the following features: • Automatic discovery of Siebel components. Create system and services targets with all of the associated infrastructure components • Blackouts to suspend monitoring on targets to support scheduled maintenance periods. This includes the use of Blackouts in the Enterprise Manager console, EMCLI and REST APIs. • Configuration management to track configuration parameters, take configuration snapshots, and compare configurations • Event log analysis to find relevant log files to troubleshoot problems faster. • Management Connectors, such as ticketing connectors and event connectors, integrate Enterprise Manager with other management systems. Ticketing connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other event management systems. • Metric and Alert/Event History. This includes the use of metrics in the Enterprise Manager console, EMCLI and REST APIs. • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Monitoring and diagnostics receive real-time metrics, historical data, and alerts. Examine log files and analyze SARM data. • Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets for standardization. This includes the use of Monitoring Templates in the Enterprise Manager console and EMCLI. • Dynamic Runbooks enable subject matter experts to encapsulate best practice steps for diagnosing and resolving issues into a runbook that can be executed directly inside Enterprise Manager. • Event Compression reduces incidents by correlating and combining related events into a smaller set of incidents. • Template Collections (with Administration Groups) automate the deployment of management settings on targets as they join the group. This includes the use of Template Collections in the Enterprise Manager console and EMCLI. • Notifications that define and use different notification methods including e-mail, OS scripts, PL/SQL procedures, SNMP traps, Webhooks and Slack. Also includes repeat notifications, use of notification-related actions in incident rule sets, and administrator notification schedules. • Oracle HTTP Server monitoring. • Real user monitoring for comprehensive insights on how end-users use the application and the experience that is delivered. • Service level management to monitor Siebel applications using beacon transactions and service dashboards.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
		• Workflow process and policy monitoring identify the first indication of problems before they cause major disruptions to business processing.
Application Management Suite for Siebel	Support for Real User Monitoring	Application Management Suite for Siebel's Real User Monitoring provides an out-of-the-box real-user monitoring solution for Siebel applications that automatically discovers Siebel applications and translates network objects to business functions, thereby allowing measurement and monitoring of real-user transactions — from clicks to views into business transactions. Each individual user action is automatically matched to the correct screen, applet, or view to provide contextual analyses. This state-of-the-art monitoring solution captures and reports all functional errors, discovers end-user performance issues, and discovers Siebel application issues. Application managers can set up Key Performance Indicators (KPIs) and report views of interest of their critical packaged applications. All the capabilities for Oracle Real User Experience Insight as documented in End-User Monitoring are available as part of the Application Management Suite for Siebel license. However, the restricted license for Real User Experience Insight only allows RUEI to be used for monitoring Siebel applications developed using the Siebel Smart Client High Interactivity (HI), Standard Interactivity (SI), or ADF framework for Siebel self-service applications. Customers who want to use Real User Experience Insight to monitor other applications need to obtain a full use license of the product. **Features** • Provides an out-of-the-box real-user monitoring solution for Siebel applications. • Provides out-of-box translation and reporting of error messages in the user's window. • Enables application managers to set up KPIs for critical packaged applications. • Enables specification and monitoring of real-user business transactions.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Licensed Links	The following information describes the Enterprise Manager links that require licensing of the Application Management Suite for Siebel. **Siebel System Targets page** • From the **Targets** menu, select **Siebel**. Select **Enterprise** from the View drop-down list. This page is a licensed feature of the Application Management Suite for Siebel. **Add Siebel Enterprise page** • From the **Targets** menu, select **Siebel**. Select **Enterprise** from the View drop-down list. From the Siebel System Targets page, click **Add Siebel Enterprise**. This page and all subsequent pages within the process are licensed features. **Siebel Enterprise Home** • From the **Targets** menu, select **Siebel**. Select **Enterprise** from the View drop-down list. From the Siebel System Targets page, select a link for a **Siebel Enterprise**. This page and all subsequent pages accessed through the Home Page are licensed features. **Siebel Server Home** • From the **Targets** menu, select **Siebel**. Select **Enterprise** from the View drop-down list. From the Siebel System Targets page, select a link for a **Siebel Server**. This page and all subsequent pages accessed through the Home Page are licensed features. **Siebel Enterprise resultant page** • From the **Targets** menu, select **Systems**. On the Systems page, click the link in the **Name** column for a system with **Type of Siebel Enterprise**. The resultant page contents are licensed features. **Siebel Gateway Server Home Page** • From the **Targets** menu, select **All Targets**. On the All Targets page, click **Siebel Gateway Server** under Applications. The resultant page contents are licensed features. **Siebel Component Page** • From the **Targets** menu, select **All Targets**. On the All Targets page, click **Siebel Component** under Applications. The resultant page contents are licensed features. **Siebel Database Repository Page** • From the **Targets** menu, select **All Targets**. On the All Targets page, click **Siebel Database Repository** under Applications. The resultant page contents are licensed features.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Support for Service Level Management (SLM)	Features associated with Enterprise Manager Service Level Management (SLM) are also licensed as part of the Oracle Application Management Suite for Siebel. These SLM features are restricted for use with Siebel applications and only for the CPUs licensed. They cannot be used for extensions to Siebel. Extensions include but are not limited to custom forms, JSPs, Java/J2EE code, and integrations using BPEL. SLM actively monitors and reports on the availability and performance of services, including end-user business functions, applications, and infrastructure components. In addition, SLM assesses the business impact of any service problem or failure and indicates whether service-level goals have been met. See Enterprise Manager Service Level Management in End-User Monitoring for more information.

Application Management Suite for Siebel	SLM Licensed CLI Verbs	The following Enterprise Manager CLI verbs are licensed as part of Service Level Management within the Application Management Suite for Siebel:
		
		`emcli apply_template_tests`
		`emcli create_service`
		`emcli add_target`

Application Management Suite for Siebel	Support for Configuration Management	Configuration management automates the process of managing host software and hardware configurations and deployments. The configuration management features that are licensed as part of the Oracle Application Management Suite for Siebel provides capabilities such as search and compare across all systems, configuration monitoring, policy management and compliance support, security configuration scoring and dashboards, and comprehensive reporting for Siebel-specific software components, which include: • Siebel Enterprise • Siebel Server • Siebel Component Group • Siebel Component • Siebel Required Component Group • Siebel Functional Component Group • Siebel Database Repository • Siebel Gateway Server • Siebel Application Service (HI) • Siebel Application Service (SI)

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Configuration Management Features	Configuration Management features of the Application Management Suite for Siebel enable users to: • View and analyze configuration • View and analyze deployments/installations • Search configuration • Compare configuration • Manage policies, including policy notifications • Provide configuration reports • Provide repository tables/views that store/expose configuration data Application Management Suite for Siebel provides comprehensive configuration management capabilities for operating system targets and Siebel application targets as specified above.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Configuration Management Licensed Links	The following licensed pages and links of this product apply to Siebel-specific targets within Enterprise Manager. These targets include Siebel Enterprise, Siebel Server, Siebel Component Group, Siebel Component, Siebel Required Component Group, Siebel Functional Component Group, Siebel Database Repository, Siebel Gateway Server, Siebel Application Service (HI), and Siebel Application Service (SI). **All Targets Policy Violations links** • From the Enterprise Summary page, all links in the All Targets Policy Violations section are licensed. **Hardware and Operating System related information** • From the Enterprise Summary page, all Hardware and Operating System related information in the Deployment Summary section are licensed. • From the Enterprise Summary home page, click the **Deployments** menu. On the Deployments page, all Hardware and Operating System related information in the Deployment Summary section are licensed. • From the Groups home page, click the **Administration** tab. All Hardware and Operating System related information in the Deployment Summary section are licensed. **Security Policy Violations links** • From the Enterprise Summary page, all links in the Security Policy Violations section are licensed. **Configuration section links** • From the Enterprise Summary home page, click the **Deployments** menu. On the Deployments page, all links in the Configuration section are licensed. **Client Configuration section links** • From the Enterprise Summary home page, click the **Deployments** menu. On the Deployments page, all links in the Client Configuration section are licensed **Policy Violation page links** • From the Enterprise Summary home page, click the **Compliance** menu, then **Policies**. On the Policy Violations page, all links, sub-navigation tabs, and features available on or linked to from the Policies Violations page for information related to hosts are licensed. **Security at a Glance host links** • From the Enterprise Summary home page, click the **Compliance** menu, then **Security at a Glance**. On the Security at a Glance page, all links related to information on the host are licensed. **Policy Violations link and Compliance Score (%)** • From the **Targets** menu, select **Hosts**. On the Hosts page, these links are licensed. **Configuration section links, Policy Violations section links, Security section links, Deployments link, and Metric and Policy Settings link (Related Links)** • From the Hosts page, click a specific host to display the **Host Home** page. These links are licensed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Configuration Management Licensed Links (continued)	**Configuration page** • From the Host page, click the **Configuration** tab. All features, links, and information on the page are licensed. **Policy Violations link** • From the **Targets** menu, select **Systems**. On the Systems page, this link is licensed. • From the **Targets** menu, select **Groups**. On the Groups page, this link is licensed. **Configuration Changes, Policy Violations, Security Policy Violations sections** • From the **Targets** menu, select **Groups**. Select a group. On the Group Home page, all links in these sections are licensed. **Configuration Searches for host and operating system** • From the Groups home page, click the **Administration** tab. This feature is licensed. **Policy Violations column** • From the Groups home page, click the **Members** tab. All links and information in this column is licensed
Application Management Suite for Siebel	Configuration Management Licensed Reports	The following reports are part of the licensed features of Configuration Management within the Application Management Suite for Siebel. All reports in each of these sections are features of Configuration Management within the Application Management Suite for Siebel. To display the Report Definitions page, click the **Reports** menu on the Enterprise Summary home page. • All reports under **Deployment and Configuration** • Monitoring reports: **Alerts and Policy Violations** **Disabled Policies** • Security reports: **Security Policy Overview**

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information

Application Management Suite for Siebel	Configuration Management Licensed Policy Repository Views	The following policy repository views are licensed features of Configuration Management within the Application Management Suite for Siebel:
		Policy Definition Views
		`mgmt$policies`
		`mgmt$policy_parameters`
		`mgmt$policy_violation_ctxt`
		`mgmt$policy_viol_annotations`
		`mgmt$policy_viol_notif_log`
		Policy Association Views
		`mgmt$target_policies`
		`mgmt$target_policy_settings`
		`mgmt$target_policy_eval_sum`
		`mgmt$target_compliance_score`
		Policy Violation Views
		`mgmt$policy_violation_current`
		`mgmt$policy_violation_history`
		`mgmt$policy_violation_context`

Application Management Suite for Siebel	Configuration Management Licensed Patching Repository Views	The following patching repository views are licensed features of Configuration Management within the Application Management Suite for Siebel:
		Linux Patching
		`MGMT$HOSTPATCH_HOSTS`
		`MGMT$HOSTPATCH_GROUPS`
		`MGMT$HOSTPATCH_GRP_COMPL_HIST`
		`MGMT$HOSTPATCH_HOST_COMPL`
		Oracle Home Patching
		`MGMT$CPF_ADVISORY_INFO`
		`MGMT$CPF_HOMES_INFO`
		`MGMT$CPF_PATCH_INFO`
		`MGMT$EM_HOMES_PLATFORM`
		`MGMT$HOMES_AFFECTED`
		`MGMT$PATCH_ADVISORIES`
		`MGMT$APPL_PATCH_AND_PATCHSET`
		`MGMT$APPLIED_PATCHES`
		`MGMT$APPLIED_PATCHSETS`

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Configuration Management Licensed Security Repository Views	The following security repository views are licensed features of Configuration Management within the Application Management Suite for Siebel: MGMT$ESA_ALL_PRIVS_REPORT MGMT$ESA_ANY_DICT_REPORT MGMT$ESA_ANY_PRIV_REPORT MGMT$ESA_AUDIT_SYSTEM_REPORT MGMT$ESA_BECOME_USER_REPORT MGMT$ESA_CATALOG_REPORT MGMT$ESA_CONN_PRIV_REPORT MGMT$ESA_CREATE_PRIV_REPORT MGMT$ESA_DBA_GROUP_REPORT MGMT$ESA_DBA_ROLE_REPORT MGMT$ESA_DIRECT_PRIV_REPORT MGMT$ESA_EXMPT_ACCESS_REPORT MGMT$ESA_KEY_OBJECTS_REPORT MGMT$ESA_OH_OWNERSHIP_REPORT MGMT$ESA_OH_PERMISSION_REPORT MGMT$ESA_POWER_PRIV_REPORT MGMT$ESA_PUB_PRIV_REPORT MGMT$ESA_SYS_PUB_PKG_REPORT MGMT$ESA_TABSP_OWNERS_REPORT MGMT$ESA_TRC_AUD_PERM_REPORT MGMT$ESA_WITH_ADMIN_REPORT MGMT$ESA_WITH_GRANT_REPORT

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information

Application Management Suite for Siebel	Configuration Management Licensed Configuration Repository Views	The following configuration repository views are licensed features of Configuration Management within the Application Management Suite for Siebel:
		Configuration Views
		`mgmt$db_tablespaces`
		`mgmt$db_datafiles`
		`mgmt$db_controlfiles`
		Client Configuration Views
		`MGMT$CSA_COLLECTIONS`
		`MGMT$CSA_FAILED`
		`MGMT$CSA_HOST_OS_COMPONENTS`
		`MGMT$CSA_HOST_SW`
		`MGMT$CSA_HOST_COOKIES`
		`MGMT$CSA_HOST_CUSTOM`
		`MGMT$CSA_HOST_RULES`
		`MGMT$CSA_HOST_CPUS`
		`MGMT$CSA_HOST_IOCARDS`
		`MGMT$CSA_HOST_NICS`
		`MGMT$CSA_HOST_OS_PROPERTIES`
		`MGMT$CSA_HOST_OS_FILESYSEMS`
		`MGMT$ECM_CONFIG_HISTORY`
		`MGMT$ECM_CONFIG_HISTORY_KEY1`
		`MGMT$ECM_CONFIG_HISTORY_KEY2`
		`MGMT$ECM_CONFIG_HISTORY_KEY3`
		`MGMT$ECM_CONFIG_HISTORY_KEY4`
		`MGMT$ECM_CONFIG_HISTORY_KEY5`
		`MGMT$ECM_CONFIG_HISTORY_KEY6`
		`MGMT$HW_NIC`
		`MGMT$OS_COMPONENTS`
		`MGMT$OS_FS_MOUNT`
		`MGMT$OS_HW_SUMMARY`
		`MGMT$OS_PATCHES`
		`MGMT$OS_SUMMARY`
		`MGMT$SOFTWARE_COMP_PATCHSET`
		`MGMT$SOFTWARE_COMPONENT_ONEOFF`
		`MGMT$SOFTWARE_COMPONENTS`
		`MGMT$SOFTWARE_DEPENDENCIES`
		`MGMT$SOFTWARE_HOMES`
		`MGMT$SOFTWARE_ONEOFF_PATCHES`
		`MGMT$SOFTWARE_OTHERS`
		`MGMT$SOFTWARE_PATCHES_IN_HOMES`
		`MGMT$SOFTWARE_PATCHSETS`

Application Management Suite for Siebel	Support for Oracle HTTP Server	You can only use the following pages against Oracle HTTP Servers, which are front ending Siebel applications. You must obtain a full use license of the Oracle Middleware Management Pack to manage Oracle HTTP Servers, which are used for other purposes. • All pages in Oracle HTTP Server home page and subsequent pages within the process are licensed features of Application Management Suite for Siebel.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Application Management Suite for Oracle E-Business Suite

This product offers capabilities to manage Oracle E-Business Suite environments on Oracle Cloud and/or on-premise including automation for provisioning new environments, lift & shift, backup, restore, and comprehensive change management functions.

The following table lists some of the key features of Application Management suite for Oracle E-Business suite:

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Features	The Application Management Suite for Oracle E-Business Suite includes the following features: • Automatic discovery of Oracle E-Business Suite components. Create a system with all of the associated infrastructure components. • Blackouts to suspend monitoring on targets to support scheduled maintenance periods. This includes the use of Blackouts in the Enterprise Manager console, EMCLI and REST APIs. • Change Approval Framework provides tracking and auditing with respect to change control requests and historical data. The change-control mechanism involves a hierarchical approval process for any change that results in a configuration or code change of an Oracle E-Business Suite instance. • Change Management Dashboard provides quick access to the Change Management most commonly-used functions, and summaries of recent activity. • Cloning to automate cloning, create and manage cloned images. • Concurrent Processing Dashboard provides a complete picture of concurrent processing on your system, both current activities and usage statistics. Monitor related activities for concurrent managers and concurrent programs. • Configuration management to track configuration parameters, take configuration snapshots, and compare configurations. • Customization Manager automates the process of packaging, releasing, deploying, and migrating customizations for a single Oracle E-Business Suite instance or multiple Oracle E-Business Suite instances. • Customization Discovery and Reporting to view and generate reports on the inventory of customizations in a given Oracle E-Business Suite environment. Customizations are organized by specific Oracle E-Business Suite module and by customization type. This inventory of customizations can help in the planning process for Oracle E-Business Suite upgrades. • Monitoring and diagnostics to receive real-time metrics and historical data and alert notifications. Access JVM statistics. Run E-Business Suite diagnostic tests through Oracle Applications Manager integration. • Metric and Alert/Event History. This includes the use of metrics in the Enterprise Manager console, EMCLI and REST APIs. • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Monitoring of real-time metrics, historical data, and alerts for Fusion Middleware targets. • Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets for standardization. This includes the use of Monitoring Templates in the Enterprise Manager console and EMCLI.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Features (continued)	• Template Collections (with Administration Groups) automate the deployment of management settings on targets as they join the group. This includes the use of Template Collections in the Enterprise Manager console and EMCLI. • Notifications that define and use different notification methods including e-mail, OS scripts, PL/SQL procedures, SNMP traps, Webhooks and Slack. Also includes repeat notifications, use of notification-related actions in incident rule sets, and administrator notification schedules. • Patch Manager to manually or automatically download and deploy patches across single or multiple Oracle E-Business Suite instances from a single console. • Real user monitoring on how end users use the application and the experience that is delivered. • Service level management of Oracle E-Business Suite applications using beacon transactions and service dashboards. • User Monitoring of database session performance issues for Concurrent Programs requests, Forms sessions, and Oracle Application Framework. • Automated Customization Discovery: – Patch Recommendations for E-Business Suite applications, database and applications tier technology. – Automated patch deployments for applications, database and WLS servers. – Automated Cloning of applications with ability to include database cloning as part of the deployment procedure. – Instance administration to allow adding of managed servers, services and apps tier nodes. • Automation of key processes to enable Cloud deployment, monitoring and management of Oracle E-Business Suite using EMCLI. Following is a list of the key automation in the latest release of Application Management Suite: – Auto discovery of EBS instances. – Monitoring of EBS targets. – Automated EBS and Database patch recommendations. – Deployment of EBS, Database, and WebLogic patches. – Build and Deploy Custom Packages. – Deploying EBS patches. – Creating Custom Packages.
Application Management Suite for Oracle E-Business Suite	Support for Real User Experience Insight (RUEI)	All of the capabilities for Oracle Real User Experience Insight as documented in End-User Monitoring are available as part of the Application Management Suite for Oracle E-Business Suite license. However, the restricted license for Real User Experience Insight only allows RUEI to be used for monitoring Oracle E-Business Suite applications developed using Oracle Forms or the OA Framework. Customers who want to use Real User Experience Insight to monitor other applications need to obtain a full use license of the product.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	RUEI Features	• Automatically discovers Oracle E-Business Suite modules running both an OA and JTT framework, and Oracle Forms applications. • Provides out-of-box translation and reporting of error messages in the user's window. • Enables application manager to set up Key Performance Indicators (KPIs) to critical packaged applications. • Enables specification and monitoring of real-user business transactions.
Application Management Suite for Oracle E-Business Suite	Licensed Links	The following information describes the Enterprise Manager links that require licensing of the Application Management Suite for Oracle E-Business Suite: **All Oracle E-Business Suite Systems page** • From the **Targets** menu, select **Oracle E-Business Suite**. This page is licensed. **Add All Oracle E-Business Suite Targets page** • From the **Targets** menu, select **Oracle E-Business Suite**. From the all Oracle E-Business Suite Systems page, click **Add**. This page and all subsequent pages within the process are licensed. **Oracle E-Business Suite Home Page, Monitoring, Topology pages, Oracle Application Manager, User Monitoring, Start and Stop Services, Service Level Reports, E-Business Suite Dashboard, Configuration, and Compliance** • From the **Targets** menu, select **Oracle E-Business Suite**. From the All Oracle E-Business Suite Systems page, select a link for an Oracle E-Business Suite system to drill down to the home page of an Oracle E-Business Suite System. These pages, and subsequent pages associated with drilling down the targets that comprise an E-Business Suite system are licensed. • From the **Targets** menu, select **Systems**. On the Systems page, click the link in the Name column for a system with an Oracle E-Business Suite System type. These pages and subsequent pages associated with drilling down the targets that comprise an E-Business Suite system are licensed. **Change Approval Request, Patch Manager, and Customization Manager** • From the Oracle E-Business System page, click a link for **Change Management**. On the Change Management page, the summary and links to these items are licensed. **Oracle E-Business Suite Nodes System Home, Charts, Administration, Components and Topology pages** • From the **Targets** menu, select **Systems**. On the Systems page, click the **Name** column for a system with an Oracle E-Business Suite Nodes System type. These pages are licensed. **Oracle E-Business Suite System Home, Charts, Administration, Components and Topology pages** • From the **Targets** menu, select **Systems**. On the Systems page, click the **Name** column for a system with an Oracle E-Business Suite System type. These pages are licensed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Support for Service Level Management (SLM)	Features associated with Enterprise Manager Service Level Management (SLM) are also licensed as part of the Oracle Application Management Suite for Oracle E-Business Suite. These SLM features are restricted for use with Oracle E-Business Suite applications and only for the CPUs licensed. They cannot be used for extensions to Oracle E-Business Suite. Extensions include but are not limited to custom forms, JSPs, Java/J2EE code, and integrations using BPEL. SLM actively monitors and reports on the availability and performance of services, including end-user business functions, applications, and infrastructure components. Using service tests or synthetic transactions executed from remote user locations (beacons), businesses can monitor services from the end user's perspective and its correlation to the underlying IT infrastructure. In addition, SLM assesses the business impact of any service problem or failure and indicates whether service-level goals have been met. See Enterprise Manager Service Level Management in End-User Monitoring for more information.

Application Management Suite for Oracle E-Business Suite	SLM Licensed CLI Verbs	The following Enterprise Manager CLI verbs are licensed as part of Service Level Management within the Application Management Suite for Oracle E-Business Suite:
		`emcli apply_template_tests`
		`emcli create_service`
		`emcli add_target`

Application Management Suite for Oracle E-Business Suite	Support for Configuration Management	Configuration Management automates the time-consuming and often error-prone process of managing software configurations and deployments. The Configuration Management features that are licensed as part of the Application Management Suite for Oracle E-Business Suite provide capabilities such as search and compare across all systems, configuration monitoring, policy management and compliance support, security configuration scoring and dashboards, and comprehensive reporting for E-Business Suite-specific software components, which include: • Oracle Concurrent Manager • Oracle E-Business Suite • Oracle E-Business Suite Custom Objects Definition • Oracle E-Business Suite System • Oracle E-Business Suite Patch Information Configuration • Oracle E-Business Suite Workflow

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Features	The Configuration Management features of the Application Management Suite for E-Business Suite enable users to: • View and analyze configurations • View and analyze deployments and installations • Search configurations • Compare configurations • Provide configuration reports • Provide repository tables and views that store and expose configuration data • History to view a list of configuration changes made to the target • Refresh option to manually refresh the configuration data Application Management Suite for Oracle E-Business Suite includes a limited use license of Application Configuration Console (ACC) and Configuration Change Console (CCC). These two tools can be used against Oracle E-Business Suite application targets as specified above, and operating system targets. Licensing information for ACC and CCC is available in Other Infrastructure Management in the Configuration Management Pack for Applications section.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Links	The following licensed pages and links of this pack apply to Oracle E-Business Suite-specific software components within Enterprise Manager. These components include those listed above. **Note:** The features in the Patching and Cloning sections are licensed under the Provisioning and Patch Automation Pack. The Agent Installation features do not require licensing. The security links are shared by the Provisioning and Patch Automation Pack, Database Configuration Pack, Configuration Management Pack for Non-Oracle Systems, Applications Management Pack for Siebel, Application Management Suite for Oracle E-Business Suite, and Configuration Pack for Oracle Middleware. **All Targets Policy Violations section** • On the Enterprise Summary home page, all links in this section are licensed. **All Oracle E-Business Suite Targets page** • From the **Targets** menu, select **Oracle Applications**. From the all Oracle E-Business Suite Systems page, click **Add**. This page and all subsequent pages within the process are licensed. **Deployment Summary section** • From the Enterprise Summary home page, click the **Deployments** menu. On the Deployments page, all Hardware and Operating System related information in this section are licensed. • From the **Targets** menu, select **Groups**. On the Groups page, click the **Administration** tab. All Hardware and Operating System related information in this section are licensed. • On the Enterprise Summary home page, all Hardware and Operating System related information in this section are licensed. **Security Policy Violations section** • On the Enterprise Summary home page, all links in this section are licensed. **Configuration section** • From the Enterprise Summary home page, click the **Deployments** menu. On the Deployments page, all links in this section are licensed. • From the **Targets** menu, select **Hosts**. On the Hosts page, all links in this section are licensed. **Client Configuration section** • From the Enterprise Summary home page, click the **Deployments** menu. On the Deployments page, all links in this section are licensed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Links (continued)	**Policy Violations page** • From the Enterprise Summary home page, click the **Compliance** menu, then **Policies**. The links associated with this page are grouped in the Violations sub-tab. All links, sub-navigation tabs, and features available on or linked to from the Policies Violations page for information related to hosts are licensed. • From the **Targets** menu, select **Hosts**. On the Hosts page, all links in this section are licensed. **Security at a Glance** • From the Enterprise Summary home page, click the **Compliance** menu, then **Security at a Glance**. All links related to information on the host are licensed. **Policy Violations link and Compliance Score (%)** • From the **Targets** menu, select **Hosts**. On the Hosts page, these links are licensed. **Security section** • From the **Targets** menu, select **Hosts**. On the Hosts page, all links in this section are licensed. **Deployments link, Metric and Policy Settings link** • From the **Targets** menu, select **Hosts**. On the Hosts page, these links under Related Links are licensed. **Configuration page** • From the Enterprise Summary home page, click the **Configurations** menu. All features, links, and information on this page are licensed. **Policy Violations link** • From the **Targets** menu, select **Systems**. On the Systems page, this link is licensed. • From the **Targets** menu, select **Groups**. On the Groups page, this link is licensed. **Configuration Changes, Policy Violations, Security Policy Violations sections** • From the **Targets** menu, select **Groups**. On the Groups page, these sections are licensed. **Configuration Searches** • From the **Targets** menu, select **Groups**. On the Groups page, click the **Administration** tab. This feature is licensed. **Policy Violations column** • From the **Targets** menu, select **Groups**. On the Groups page, click the **Members** tab. All links and information this column are licensed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Reports	The following reports are part of the licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite. All reports in each of these sections are features of Configuration Management within the Application Management Suite for Oracle E-Business Suite. To display the Report Definitions page, click the Reports tab on the Enterprise Summary home page. • All reports under **Deployment and Configuration** • Monitoring reports: **Alerts and Policy Violations** **Disabled Policies** • Security reports: **Security Policy Overview**

Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Policy Repository Views	The following policy repository views are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:
		Policy Definition Views
		`mgmt$policies`
		`mgmt$policy_parameters`
		`mgmt$policy_violation_ctxt`
		`mgmt$policy_viol_annotations`
		`mgmt$policy_viol_notif_log`
		Policy Association Views
		`mgmt$target_policies`
		`mgmt$target_policy_settings`
		`mgmt$target_policy_eval_sum`
		`mgmt$target_compliance_score`
		Policy Violation Views
		`mgmt$policy_violation_current`
		`mgmt$policy_violation_history`
		`mgmt$policy_violation_context`

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information

Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Patching Repository Views	The following patching repository views are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:
		Linux Patching
		`MGMT$HOSTPATCH_HOSTS`
		`MGMT$HOSTPATCH_GROUPS`
		`MGMT$HOSTPATCH_GRP_COMPL_HIST`
		`MGMT$HOSTPATCH_HOST_COMPL`
		Oracle Home Patching
		`MGMT$CPF_ADVISORY_INFO`
		`MGMT$CPF_HOMES_INFO`
		`MGMT$CPF_PATCH_INFO`
		`MGMT$EM_HOMES_PLATFORM`
		`MGMT$HOMES_AFFECTED`
		`MGMT$PATCH_ADVISORIES`
		`MGMT$APPL_PATCH_AND_PATCHSET`
		`MGMT$APPLIED_PATCHES`
		`MGMT$APPLIED_PATCHSETS`

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information

Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Configuration Repository Views	The following configuration repository views are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:
		Configuration Views
		`mgmt$db_tablespaces`
		`mgmt$db_datafiles`
		`mgmt$db_controlfiles`
		Client Configuration Views
		`MGMT$CSA_COLLECTIONS`
		`MGMT$CSA_FAILED`
		`MGMT$CSA_HOST_OS_COMPONENTS`
		`MGMT$CSA_HOST_SW`
		`MGMT$CSA_HOST_COOKIES`
		`MGMT$CSA_HOST_CUSTOM`
		`MGMT$CSA_HOST_RULES`
		`MGMT$CSA_HOST_CPUS`
		`MGMT$CSA_HOST_IOCARDS`
		`MGMT$CSA_HOST_NICS`
		`MGMT$CSA_HOST_OS_PROPERTIES`
		`MGMT$CSA_HOST_OS_FILESYSEMS`
		`MGMT$ECM_CONFIG_HISTORY`
		`MGMT$ECM_CONFIG_HISTORY_KEY1`
		`MGMT$ECM_CONFIG_HISTORY_KEY2`
		`MGMT$ECM_CONFIG_HISTORY_KEY3`
		`MGMT$ECM_CONFIG_HISTORY_KEY4`
		`MGMT$ECM_CONFIG_HISTORY_KEY5`
		`MGMT$ECM_CONFIG_HISTORY_KEY6`
		`MGMT$HW_NIC`
		`MGMT$OS_COMPONENTS`
		`MGMT$OS_FS_MOUNT`
		`MGMT$OS_HW_SUMMARY`
		`MGMT$OS_PATCHES`
		`MGMT$OS_SUMMARY`
		`MGMT$SOFTWARE_COMP_PATCHSET`
		`MGMT$SOFTWARE_COMPONENT_ONEOFF`
		`MGMT$SOFTWARE_COMPONENTS`
		`MGMT$SOFTWARE_DEPENDENCIES`
		`MGMT$SOFTWARE_HOMES`
		`MGMT$SOFTWARE_ONEOFF_PATCHES`
		`MGMT$SOFTWARE_OTHERS`
		`MGMT$SOFTWARE_PATCHES_IN_HOMES`
		`MGMT$SOFTWARE_PATCHSETS`

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Security Repository Views	The following security repository views are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite: MGMT$ESA_ALL_PRIVS_REPORT MGMT$ESA_ANY_DICT_REPORT MGMT$ESA_ANY_PRIV_REPORT MGMT$ESA_AUDIT_SYSTEM_REPORT MGMT$ESA_BECOME_USER_REPORT MGMT$ESA_CATALOG_REPORT MGMT$ESA_CONN_PRIV_REPORT MGMT$ESA_CREATE_PRIV_REPORT MGMT$ESA_DBA_GROUP_REPORT MGMT$ESA_DBA_ROLE_REPORT MGMT$ESA_DIRECT_PRIV_REPORT MGMT$ESA_EXMPT_ACCESS_REPORT MGMT$ESA_KEY_OBJECTS_REPORT MGMT$ESA_OH_OWNERSHIP_REPORT MGMT$ESA_OH_PERMISSION_REPORT MGMT$ESA_POWER_PRIV_REPORT MGMT$ESA_PUB_PRIV_REPORT MGMT$ESA_SYS_PUB_PKG_REPORT MGMT$ESA_TABSP_OWNERS_REPORT MGMT$ESA_TRC_AUD_PERM_REPORT MGMT$ESA_WITH_ADMIN_REPORT MGMT$ESA_WITH_GRANT_REPORT

Application Management Suite for JD Edwards EnterpriseOne

This product offers comprehensive application management capabilities that help IT organizations simplify the administration and monitoring of their JD Edwards EnterpriseOne environments. The Application Management Suite for JD Edwards EnterpriseOne is composed of the following physical components:

- JD Edwards EnterpriseOne Plug-in (built into Enterprise Manager).
- Real User Experience Insight (RUEI).

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Restricted-Use License	The management suite contains a restricted use license of RUEI for use against the core JD Edwards EnterpriseOne application.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Features	The Application Management Suite for JD Edwards EnterpriseOne includes the following features: • Automatic discovery of JD Edwards EnterpriseOne components. Create system and services targets with all of the associated infrastructure components • Blackouts to suspend monitoring on targets to support scheduled maintenance periods. This includes the use of Blackouts in the Enterprise Manager console, EMCLI and REST APIs. • Configuration management to track configuration parameters, take configuration snapshots, and compare configurations • Management Connectors, such as ticketing connectors and event connectors, integrate Enterprise Manager with other management systems. Ticketing connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other event management systems. • Metric and Alert/Event History. This includes the use of metrics in the Enterprise Manager console, EMCLI and REST APIs. • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Monitoring and diagnostics to receive real-time metrics, historical data, and alert notifications. Examine log files for information pertinent to identifying problem root causes. • Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets for standardization. This includes the use of Monitoring Templates in the Enterprise Manager console and EMCLI. • Dynamic Runbooks enable subject matter experts to encapsulate best practice steps for diagnosing and resolving issues into a runbook that can be executed directly inside Enterprise Manager. • Event Compression reduces incidents by correlating and combining related events into a smaller set of incidents. • Template Collections (with Administration Groups) automate the deployment of management settings on targets as they join the group. This includes the use of Template Collections in the Enterprise Manager console and EMCLI. • Notifications that define and use different notification methods including e-mail, OS scripts, PL/SQL procedures, SNMP traps, Webhooks and Slack. Also includes repeat notifications, use of notification-related actions in incident rule sets, and administrator notification schedules. • Real user monitoring on how end-users use the application and the experience that is delivered. • Service level management to monitor JD Edwards EnterpriseOne applications using beacon transactions and service dashboards.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Support for Real User Experience Insight (REUI) Monitoring	The Application Management Suite for JD Edwards EnterpriseOne's Real User Monitoring provides an out-of-the-box real-user monitoring solution for JD Edwards EnterpriseOne. It automatically discovers JD Edwards EnterpriseOne applications and translates network objects into manageable business services and functions. This accelerator supports real-user monitoring of JD Edwards EnterpriseOne application components. Each individual user action is automatically matched to the correlating JD Edwards EnterpriseOne node, site, or view to provide detailed and rich contextual analysis. This monitoring solution captures and reports all functional errors, discovers end-user performance issues, and identifies application issues specific to JD Edwards EnterpriseOne applications. Application managers can set up Key Performance Indicators (KPIs) and report views of interest to their critical packaged applications to gain a complete understanding of their usage, and automatically be alerted in case of KPI events. All of the capabilities for Oracle Real User Experience Insight as documented in End-User Monitoring are available as part of the Application Management Suite for JD Edwards EnterpriseOne license. However, the restricted license for Real User Experience Insight only allows RUEI to be used for monitoring JD Edwards EnterpriseOne applications developed using JD Edwards EnterpriseOne Tool Set. Customers who want to use Real User Experience Insight to monitor other applications need to obtain a full use license of the product.
Application Management Suite for JD Edwards EnterpriseOne	REUI Features	• Provides an out-of-the-box real-user monitoring solution for JD Edwards EnterpriseOne applications. • Provides out-of-box translation and reporting of error messages in the user's window. • Enables application managers to set up KPIs for critical packaged applications. • Enables specification and monitoring of real-user business transactions.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	REUI Licensed Links	The following information describes the Enterprise Manager links that require licensing of the Application Management Suite for JD Edwards EnterpriseOne: **All JD Edwards EnterpriseOne Systems page** • From **Targets** menu, select **JD Edwards EnterpriseOne**. This page is licensed. **Add All JD Edwards EnterpriseOne Targets page** • From the **Targets** menu, select **JD Edwards EnterpriseOne**. From the All JD Edwards EnterpriseOne page, click **Add**. This page and all subsequent pages within the process are licensed. **JD Edwards EnterpriseOne System Home, Performance, Administration, Maintenance, Diagnostic, User Monitoring, and Topology pages** • From the **Targets** menu, select **JD Edwards EnterpriseOne**. From the All JD Edwards EnterpriseOne Systems page, select a link for a **JD Edwards EnterpriseOne system** to drill down to the home page of a JD Edwards EnterpriseOne System. These pages and subsequent pages associated with drilling down the targets that comprise a JD Edwards EnterpriseOne system are licensed. • From the **Targets** menu, select **Systems**. On the Systems page, click the link in the **Name** column for a system with an Oracle E-Business Suite System type. These pages and subsequent pages associated with drilling down the targets that comprise an JD Edwards EnterpriseOne system are licensed **JD Edwards EnterpriseOne Nodes System Home, Charts, Administration, Components and Topology pages** • From the **Targets** menu, select **Systems**. On the Systems page, click the **Name** column for a system with a JD Edwards EnterpriseOne Nodes System type. These pages are licensed. **JD Edwards EnterpriseOne System Home, Charts, Administration, Components, Topology and Report pages** • From the **Targets** menu, select **Systems**. On the Systems page, click the **Name** column for a system with a JD Edwards EnterpriseOne System type. These pages are licensed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Support for Service Level Management (SLM)	Features associated with Service Level Management (SLM) for JD Edwards EnterpriseOne are also licensed as part of the Application Management Suite for JD Edwards EnterpriseOne. These SLM features are restricted for use with JD Edwards EnterpriseOne applications and only for the CPUs licensed. They cannot be used for extensions to JD Edwards EnterpriseOne. Extensions include but are not limited to custom forms, JSPs, Java/J2EE code, and integrations using BPEL. SLM offers a comprehensive monitoring solution that helps IT organizations achieve high availability and performance, and optimized service levels for their business services. SLM actively monitors and reports on the availability and performance of services, including end-user business functions, applications, and infrastructure components. Using service tests or synthetic transactions executed from remote user locations (beacons), businesses can monitor services from the end user's perspective and its correlation to the underlying IT infrastructure. In addition, SLM assesses the business impact of any service problem or failure and indicates whether service-level goals have been met. See Enterprise Manager Service Level Management in End-User Monitoring for more information.

Application Management Suite for JD Edwards EnterpriseOne	SLM Licensed CLI Verbs	The following Enterprise Manager CLI verbs are licensed as part of Service Level Management within the Application Management Suite for JD Edwards EnterpriseOne:
		`emcli apply_template_tests`
		`emcli create_service`
		`emcli add_target`

Application Management Suite for JD Edwards EnterpriseOne	Support for Configuration Management	• JD Edwards EnterpriseOne HTML Server • JD Edwards EnterpriseOne Enterprise Server • JD Edwards EnterpriseOne Business Services Server • JD Edwards EnterpriseOne Server Manager
Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Features	Configuration Management features of the Application Management Suite for JD Edwards EnterpriseOne enable users to: • View and analyze configuration • View and analyze deployments/installations • Search configuration • Compare configuration • Manage policies, including policy notifications • Provide configuration reports • Provide repository tables/views that store/expose configuration data

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Links	The following licensed pages and links of this pack apply to for JD Edwards EnterpriseOne-specific targets within Enterprise Manager. These targets include JD Edwards EnterpriseOne HTML Server, JD Edwards EnterpriseOne Enterprise Server, JD Edwards EnterpriseOne Business Services Server, and JD Edwards EnterpriseOne Server Manager. **All Targets Policy Violations section** • On the Enterprise Summary page, all links in this section are licensed. **Deployment Summary section** • On the Enterprise Summary page, all Hardware and Operating System related information in this section are licensed. • From the Enterprise Summary page, click the **Deployments** menu. On the Deployments page, all Hardware and Operating System related information in this section are licensed. • From the **Targets** menu, select **Groups**. On the Groups home page, click the **Administration** tab. All Hardware and Operating System related information in this section are licensed. **Security Policy Violations section** • On the Enterprise Summary page, all links in this section are licensed. **Configuration section** • From the Enterprise Summary page, click the **Deployments** menu. On the Deployments page, all links in this section are licensed. **Client Configuration section** • From the Enterprise Summary page, click the **Deployments** menu. On the Deployments page, all links in this section are licensed. **Violations sub-tab page** • From the Enterprise Summary page, click the **Compliance** menu, then **Policies**. On the Policy Violations page, all links, sub-navigation tabs, and features available on or linked to from the Policies Violations page for information related to hosts are licensed. **Security at a Glance page** • From the Enterprise Summary page, click the **Compliance** menu, then **Security at a Glance**. All links related to information on the host are licensed. **Policy Violations link and Compliance Score (%)** • From the **Targets** menu, select **Hosts**. On the Hosts page, these items are licensed. **Configuration, Policy Violations, Security sections** • From the **Targets** menu, select **Hosts**. On the Hosts page, the links in these sections are licensed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Links (continued)	**Deployments link, Metric and Policy Settings link** • From the **Targets** menu, select **Hosts**. On the Hosts page under Related Links, these links are licensed. **Configuration page** • From the **Targets** menu, select **Hosts**. On the Hosts page, click **Configuration**. All features, links, and information on this page are licensed. **Policy Violation link** • From the **Targets** menu, select **Systems**. On the Systems page, this link is licensed. • From the **Targets** menu, select **Groups**. On the Groups page, this link is licensed. **Configuration Changes, Policy Violations, Security Policy Violations sections** • From the **Targets** menu, select **Groups**. On the Groups home page, all links in these sections are licensed. **Configuration Searches** • From the **Targets** menu, select **Groups**. On the Groups home page, click the **Administration** tab. For host and operating systems, this feature is licensed. **Policy Violations column** • From the **Targets** menu, select **Groups**. On the Groups home page, click the **Members** tab. All links and information in this column are licensed.
Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Reports	The following reports are part of the licensed features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne. All reports in each of these sections are features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne. To display the Report Definitions page, click the **Reports** tab on the Enterprise Manager Home page. • All reports under **Deployment and Configuration** • Monitoring reports: **Alerts and Policy Violations** **Disabled Policies** • Security reports: **Security Policy Overview**

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information

Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Policy Repository Views	The following policy repository views are licensed features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne:
		Policy Definition Views
		`mgmt$policies`
		`mgmt$policy_parameters`
		`mgmt$policy_violation_ctxt`
		`mgmt$policy_viol_annotations`
		`mgmt$policy_viol_notif_log`
		Policy Association Views
		`mgmt$target_policies`
		`mgmt$target_policy_settings`
		`mgmt$target_policy_eval_sum`
		`mgmt$target_compliance_score`
		Policy Violation Views
		`mgmt$policy_violation_current`
		`mgmt$policy_violation_history`
		`mgmt$policy_violation_context`

Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Patching Repository Views	The following patching repository views are licensed features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne:
		Linux Patching
		`MGMT$HOSTPATCH_HOSTS`
		`MGMT$HOSTPATCH_GROUPS`
		`MGMT$HOSTPATCH_GRP_COMPL_HIST`
		`MGMT$HOSTPATCH_HOST_COMPL`
		Oracle Home Patching
		`MGMT$CPF_ADVISORY_INFO`
		`MGMT$CPF_HOMES_INFO`
		`MGMT$CPF_PATCH_INFO`
		`MGMT$EM_HOMES_PLATFORM`
		`MGMT$HOMES_AFFECTED`
		`MGMT$PATCH_ADVISORIES`
		`MGMT$APPL_PATCH_AND_PATCHSET`
		`MGMT$APPLIED_PATCHES`
		`MGMT$APPLIED_PATCHSETS`

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information

Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Configuration Repository Views	The following configuration repository views are licensed features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne:
		Configuration Views
		`mgmt$db_tablespaces`
		`mgmt$db_datafiles`
		`mgmt$db_controlfiles`
		Client Configuration Views
		`MGMT$CSA_COLLECTIONS`
		`MGMT$CSA_FAILED`
		`MGMT$CSA_HOST_OS_COMPONENTS`
		`MGMT$CSA_HOST_SW`
		`MGMT$CSA_HOST_COOKIES`
		`MGMT$CSA_HOST_CUSTOM`
		`MGMT$CSA_HOST_RULES`
		`MGMT$CSA_HOST_CPUS`
		`MGMT$CSA_HOST_IOCARDS`
		`MGMT$CSA_HOST_NICS`
		`MGMT$CSA_HOST_OS_PROPERTIES`
		`MGMT$CSA_HOST_OS_FILESYSEMS`
		`MGMT$ECM_CONFIG_HISTORY`
		`MGMT$ECM_CONFIG_HISTORY_KEY1`
		`MGMT$ECM_CONFIG_HISTORY_KEY2`
		`MGMT$ECM_CONFIG_HISTORY_KEY3`
		`MGMT$ECM_CONFIG_HISTORY_KEY4`
		`MGMT$ECM_CONFIG_HISTORY_KEY5`
		`MGMT$ECM_CONFIG_HISTORY_KEY6`
		`MGMT$HW_NIC`
		`MGMT$OS_COMPONENTS`
		`MGMT$OS_FS_MOUNT`
		`MGMT$OS_HW_SUMMARY`
		`MGMT$OS_PATCHES`
		`MGMT$OS_SUMMARY`
		`MGMT$SOFTWARE_COMP_PATCHSET`
		`MGMT$SOFTWARE_COMPONENT_ONEOFF`
		`MGMT$SOFTWARE_COMPONENTS`
		`MGMT$SOFTWARE_DEPENDENCIES`
		`MGMT$SOFTWARE_HOMES`
		`MGMT$SOFTWARE_ONEOFF_PATCHES`
		`MGMT$SOFTWARE_OTHERS`
		`MGMT$SOFTWARE_PATCHES_IN_HOMES`
		`MGMT$SOFTWARE_PATCHSETS`

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Security Repository Views	The following security repository views are licensed features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne: MGMT$ESA_ALL_PRIVS_REPORT MGMT$ESA_ANY_DICT_REPORT MGMT$ESA_ANY_PRIV_REPORT MGMT$ESA_AUDIT_SYSTEM_REPORT MGMT$ESA_BECOME_USER_REPORT MGMT$ESA_CATALOG_REPORT MGMT$ESA_CONN_PRIV_REPORT MGMT$ESA_CREATE_PRIV_REPORT MGMT$ESA_DBA_GROUP_REPORT MGMT$ESA_DBA_ROLE_REPORT MGMT$ESA_DIRECT_PRIV_REPORT MGMT$ESA_EXMPT_ACCESS_REPORT MGMT$ESA_KEY_OBJECTS_REPORT MGMT$ESA_OH_OWNERSHIP_REPORT MGMT$ESA_OH_PERMISSION_REPORT MGMT$ESA_POWER_PRIV_REPORT MGMT$ESA_PUB_PRIV_REPORT MGMT$ESA_SYS_PUB_PKG_REPORT MGMT$ESA_TABSP_OWNERS_REPORT MGMT$ESA_TRC_AUD_PERM_REPORT MGMT$ESA_WITH_ADMIN_REPORT MGMT$ESA_WITH_GRANT_REPORT

Application Management Suite for PeopleSoft Enterprise

This product offers comprehensive applications management capabilities that help IT organizations simplify the administration and monitoring of their PeopleSoft Enterprise environments. By building PeopleSoft management and monitoring on top of Oracle's rich and comprehensive management solution, the Application Management Suite for PeopleSoft Enterprise significantly reduces the cost and complexity of managing PeopleSoft Enterprise environments.

The Application Management Suite for PeopleSoft Enterprise consists of the following physical components:

- PeopleSoft plug-in (built into Enterprise Manager)
- Real User Experience Insight (RUEI)

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Restricted-Use License	The management suite contains a restricted use license of RUEI for use against the core PeopleSoft application.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Features	The Application Management Suite for PeopleSoft Enterprise includes the following features: • Automatic discovery of PeopleSoft Enterprise components. Create a system with all of the associated infrastructure components. • Monitoring and diagnostics to receive real-time metrics, Tuxedo queues, and historical data and alert notifications. Examine log files for information pertinent to identifying problem root causes. • Configuration management to track configuration parameters, take configuration snapshots, and compare configurations. • Service level management to monitor PeopleSoft Enterprise applications using beacon transactions and service dashboards. • Administration to start and stop PeopleSoft components, define PeopleSoft domains, and clear cache. • Real user monitoring on how end users use the application and the experience that is delivered.
Application Management Suite for PeopleSoft Enterprise	Support for Real User Experience Insight (REUI) Monitoring	The Application Management Suite for PeopleSoft Enterprise's Real User Monitoring provides an out-of-the-box real-user monitoring solution for PeopleSoft. It automatically discovers PeopleSoft applications and translates network objects into manageable business services and functions. It provides a method for IT operators and managers at all business levels to easily measure and monitor real-user transactions — literally from clicks to views and business transactions. This accelerator supports real-user monitoring of PeopleSoft application components. Each individual user action is automatically matched to the correlating PeopleSoft node, site, or view to provide detailed and rich contextual analyses. This state-of-the-art monitoring solution captures and reports all functional errors, discovers end-user performance issues, and identifies application issues specific to PeopleSoft applications. Application managers can set up Key Performance Indicators (KPIs) and report views of interest to their critical packaged applications to gain a complete understanding of their usage, and automatically be alerted in case of KPI events. All of the capabilities for Oracle Real User Experience Insight as documented in End-User Monitoring are available as part of the Application Management Suite for PeopleSoft license. However, the restricted license for Real User Experience Insight only allows RUEI to be used for monitoring PeopleSoft applications developed using PeopleSoft Internet Architecture. Customers who want to use Real User Experience Insight to monitor other applications need to obtain a full use license of the product.
Application Management Suite for PeopleSoft Enterprise	REUI Features	• Provides an out-of-the-box real-user monitoring solution for PeopleSoft applications. • Provides out-of-box translation and reporting of error messages in the user's window. • Enables application managers to set up KPIs for critical packaged applications. • Enables specification and monitoring of real-user business transactions.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Licensed Links	The following information describes the Enterprise Manager links that require licensing of the Application Management Suite for PeopleSoft Enterprise: **All PeopleSoft Targets page** • From the **Targets** menu, select **PeopleSoft**. The All PeopleSoft Targets page is a licensed feature of the Application Management Suite for PeopleSoft. **PeopleSoft target home page** • From the **Targets** menu, select **PeopleSoft**. On the All PeopleSoft Targets page, select a PeopleSoft target from the from the Name column. • On the PeopleSoft target home page, all links, reports, and features available on or linked to from this page are licensed as part of the Application Management Suite for PeopleSoft **Monitoring** • From the **Targets** menu, select **PeopleSoft**. From the PeopleSoft target menu, select **Monitoring**. All submenu items listed here are licensed as part of the Application Management Suite for PeopleSoft: Charts All Metrics Metric and Collection Settings Metric Collection Errors Status History Incident Manager Alert History Blackouts **Create/End Blackout** • From the **Targets** menu, select **PeopleSoft**. From the PeopleSoft target menu, select **Control**, then select Create Blackout. The Create Blackout wizard is licensed as part of the Application Management Suite for PeopleSoft. • From the **Targets** menu, select **PeopleSoft**. From the PeopleSoft target menu, select **Control**, then select End Blackout. The End Blackout functionality is licensed as part of the Application Management Suite for PeopleSoft **Job Activity** • From the **Targets** menu, select **PeopleSoft**. From the PeopleSoft target menu, select **Job Activity**. All functionality, links, and reports included on the Job Activity page are licensed as part of the Application Management Suite for PeopleSoft.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Licensed Links (continued)	**Members** • From the **Targets** menu, select **PeopleSoft**. From the PeopleSoft target menu, select **Members**. All submenu items listed here are licensed as part of the Application Management Suite for PeopleSoft: Show All Topology Dashboard Operations History **Target Information** • From the **Targets** menu, select **PeopleSoft**. From the PeopleSoft target menu, select **Target Information**. The Target Information pop-up is licensed as part of the Application Management Suite for PeopleSoft. **Configuration** • From the **Targets** menu, select **PeopleSoft**. From the PeopleSoft target menu, select **Configuration**. All submenu items listed here are licensed as part of the Application Management Suite for PeopleSoft: Last Collected Topology Search Compare Comparison Job Activity History Save Saved **Compliance** • From the **Targets** menu, select **PeopleSoft**. From the PeopleSoft target menu, select **Compliance**. All submenu items listed here are licensed as part of the Application Management Suite for PeopleSoft. Results Standard Associations Real-time Observations **Target Setup** • From the **Targets** menu, select **PeopleSoft**. From the PeopleSoft target menu, select **Target Setup**. All submenu items listed here are licensed as part of the Application Management Suite for PeopleSoft. Monitoring Configuration Administrator Access Remove Target Add to Group Properties

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Support for Service Level Management (SLM)	Features associated with Service Level Management for PeopleSoft are also licensed as part of the Application Management Suite for PeopleSoft Enterprise. These SLM features are restricted for use with PeopleSoft Enterprise applications and only for the CPUs licensed. They cannot be used for extensions to the PeopleSoft Enterprise. Extensions include but are not limited to custom forms, JSPs, Java/J2EE code, and integrations using BPEL. SLM offers a comprehensive monitoring solution that helps IT organizations achieve high availability and performance, and optimized service levels for their business services. SLM actively monitors and reports on the availability and performance of services, including end-user business functions, applications, and infrastructure components. Using service tests or synthetic transactions executed from remote user locations (beacons), businesses can monitor services from the end user's perspective and its correlation to the underlying IT infrastructure. In addition, SLM assesses the business impact of any service problem or failure and indicates whether service-level goals have been met. See Enterprise Manager Service Level Management in End-User Monitoring for more information.
Application Management Suite for PeopleSoft Enterprise	SLM Licensed CLI Verbs	The following Enterprise Manager CLI verbs are licensed as part of Service Level Management within the Application Management Suite for PeopleSoft: • `emcli apply_template_tests` • `emcli create_service` • `emcli add_target`
Application Management Suite for PeopleSoft Enterprise	Support for Configuration Management	Configuration management automates the time-consuming and often error-prone process of managing host software and hardware configurations and deployments. The configuration management features that are licensed as part of the Application Management Suite for PeopleSoft Enterprise provides capabilities such as search and compare across all systems, configuration monitoring, policy management and compliance support, security configuration scoring and dashboards, and comprehensive reporting for PeopleSoft-specific software components, which include: • PeopleSoft System • PS Application Server Database • PS Application Server Domain • PS Process Monitor • PS Process Scheduler Domain • PS Search Server Domain • PS Web Site • PS PIA

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Configuration Management Features	Configuration Management features of the Application Management Suite for PeopleSoft enable users to: • View and analyze configuration • View and analyze deployments/installations • Search configuration • Compare configuration • Manage policies, including policy notifications • Provide configuration reports • Provide repository tables/views that store/expose configuration data
Application Management Suite for PeopleSoft Enterprise	Configuration Management Licensed Reports	The following reports are part of the licensed features the Application Management Suite for PeopleSoft. To display the Report page, from the Enterprise Summary home page, click the **Targets** menu, then **PeopleSoft**. On the All PeopleSoft Targets page, select a PeopleSoft target from the from the Name column. From the PeopleSoft target menu, select **Information Publisher Reports**. • **License Pack Usage** under **Feature and License Pack Usage** • Monitoring reports: **Aggregate Targets** **Alerts** **Availability History** **Availability Metrics Report**

Application Management Suite for PeopleSoft Enterprise	Configuration Management Licensed Policy Repository Views	The following policy repository views are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:
		Policy Definition Views
		`mgmt$policies`
		`mgmt$policy_parameters`
		`mgmt$policy_violation_ctxt`
		`mgmt$policy_viol_annotations`
		`mgmt$policy_viol_notif_log`
		Policy Association Views
		`mgmt$target_policies`
		`mgmt$target_policy_settings`
		`mgmt$target_policy_eval_sum`
		`mgmt$target_compliance_score`
		Policy Violation Views
		`mgmt$policy_violation_current`
		`mgmt$policy_violation_history`
		`mgmt$policy_violation_context`

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information

Application Management Suite for PeopleSoft Enterprise	Configuration Management Licensed Patching Repository Views	The following patching repository views are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:
		Linux Patching
		`MGMT$HOSTPATCH_HOSTS`
		`MGMT$HOSTPATCH_GROUPS`
		`MGMT$HOSTPATCH_GRP_COMPL_HIST`
		`MGMT$HOSTPATCH_HOST_COMPL`
		Oracle Home Patching
		`MGMT$CPF_ADVISORY_INFO`
		`MGMT$CPF_HOMES_INFO`
		`MGMT$CPF_PATCH_INFO`
		`MGMT$EM_HOMES_PLATFORM`
		`MGMT$HOMES_AFFECTED`
		`MGMT$PATCH_ADVISORIES`
		`MGMT$APPL_PATCH_AND_PATCHSET`
		`MGMT$APPLIED_PATCHES`
		`MGMT$APPLIED_PATCHSETS`

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information

Application Management Suite for PeopleSoft Enterprise	Configuration Management Licensed Configuration Repository Views	The following configuration repository views are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:
		Configuration Views
		`mgmt$db_tablespaces`
		`mgmt$db_datafiles`
		`mgmt$db_controlfiles`
		Client Configuration Views
		`MGMT$CSA_COLLECTIONS`
		`MGMT$CSA_FAILED`
		`MGMT$CSA_HOST_OS_COMPONENTS`
		`MGMT$CSA_HOST_SW`
		`MGMT$CSA_HOST_COOKIES`
		`MGMT$CSA_HOST_CUSTOM`
		`MGMT$CSA_HOST_RULES`
		`MGMT$CSA_HOST_CPUS`
		`MGMT$CSA_HOST_IOCARDS`
		`MGMT$CSA_HOST_NICS`
		`MGMT$CSA_HOST_OS_PROPERTIES`
		`MGMT$CSA_HOST_OS_FILESYSEMS`
		`MGMT$ECM_CONFIG_HISTORY`
		`MGMT$ECM_CONFIG_HISTORY_KEY1`
		`MGMT$ECM_CONFIG_HISTORY_KEY2`
		`MGMT$ECM_CONFIG_HISTORY_KEY3`
		`MGMT$ECM_CONFIG_HISTORY_KEY4`
		`MGMT$ECM_CONFIG_HISTORY_KEY5`
		`MGMT$ECM_CONFIG_HISTORY_KEY6`
		`MGMT$HW_NIC`
		`MGMT$OS_COMPONENTS`
		`MGMT$OS_FS_MOUNT`
		`MGMT$OS_HW_SUMMARY`
		`MGMT$OS_PATCHES`
		`MGMT$OS_SUMMARY`
		`MGMT$SOFTWARE_COMP_PATCHSET`
		`MGMT$SOFTWARE_COMPONENT_ONEOFF`
		`MGMT$SOFTWARE_COMPONENTS`
		`MGMT$SOFTWARE_DEPENDENCIES`
		`MGMT$SOFTWARE_HOMES`
		`MGMT$SOFTWARE_ONEOFF_PATCHES`
		`MGMT$SOFTWARE_OTHERS`
		`MGMT$SOFTWARE_PATCHES_IN_HOMES`
		`MGMT$SOFTWARE_PATCHSETS`

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Configuration Management Licensed Security Repository Views	The following security repository views are licensed features of Configuration Management within the Application Management Suite for PeopleSoft: MGMT$ESA_ALL_PRIVS_REPORT MGMT$ESA_ANY_DICT_REPORT MGMT$ESA_ANY_PRIV_REPORT MGMT$ESA_AUDIT_SYSTEM_REPORT MGMT$ESA_BECOME_USER_REPORT MGMT$ESA_CATALOG_REPORT MGMT$ESA_CONN_PRIV_REPORT MGMT$ESA_CREATE_PRIV_REPORT MGMT$ESA_DBA_GROUP_REPORT MGMT$ESA_DBA_ROLE_REPORT MGMT$ESA_DIRECT_PRIV_REPORT MGMT$ESA_EXMPT_ACCESS_REPORT MGMT$ESA_KEY_OBJECTS_REPORT MGMT$ESA_OH_OWNERSHIP_REPORT MGMT$ESA_OH_PERMISSION_REPORT MGMT$ESA_POWER_PRIV_REPORT MGMT$ESA_PUB_PRIV_REPORT MGMT$ESA_SYS_PUB_PKG_REPORT MGMT$ESA_TABSP_OWNERS_REPORT MGMT$ESA_TRC_AUD_PERM_REPORT MGMT$ESA_WITH_ADMIN_REPORT MGMT$ESA_WITH_GRANT_REPORT
Application Management Suite for PeopleSoft Enterprise	Licensed Components	You can only use the following pages against Java-based PeopleSoft Servers running PeopleSoft PIA-based applications. Customers must obtain a full-use license of the Oracle Middleware Management Pack to manage custom applications running on Java EE containers. • All of the pages in Oracle JVM Diagnostics are licensed features of the Application Management Suite for PeopleSoft. • All of the pages in the WebLogic Server are licensed features of the Application Management Suite for PeopleSoft.

Copyright © 2015, 2025, Oracle and/or its affiliates.

8

End-User Monitoring

This chapter describes the management packs offered by Enterprise Manager in support of end-user monitoring. The following management pack is included:

- Enterprise Manager Service Level Management

Enterprise Manager Service Level Management

Enterprise Manager Service Level Management (SLM) offers a rich monitoring solution that helps IT organizations achieve high availability and performance, and optimized service levels for their business services. SLM actively monitors and reports on the availability and performance of services, including end-user business functions, Web applications, and infrastructure components. Using service tests or synthetic transactions executed from remote user locations (beacons), businesses can monitor services from the end-users' perspectives and the services' correlation to the underlying IT infrastructure. In addition, SLM assesses the business impact of any service problem or failure, and indicates whether service level goals have been met.

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing information
Enterprise Manager Service Level Management (SLM)	Standalone Licensing	Enterprise Manager Service Level Management was introduced as a standalone Service Level Management Pack with Enterprise Manager version 10g release 2. Since Enterprise Manager 11g, Service Level Management is licensed as part of either: • Oracle Real User Experience Insight • WebLogic Server Management pack Enterprise Edition • SOA Management Pack Enterprise Edition • Management Pack for WebCenter • Management Pack for Non-Oracle Middleware • Business Intelligence Management Pack • Management Pack Plus for Identity Management A subset of functionality in the Service Level Management Pack was previously included as part of the Diagnostics Pack for Application Server license. Customers who had licensed the Diagnostics Pack for Application Server 10g Release 1 are entitled to continue to use the following specific functionality without licensing any of the packs above: • Web Application service test monitoring with HTTP and HTTPS protocols (test type itself has been deprecated, existing tests will continue to work). • Host monitoring with `ping` protocol.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing information
Enterprise Manager Service Level Management (SLM)	Features	Enterprise Manager Service Level Management (SLM) includes the following features: • Beacons measure availability and performance from representative key user locations. • Complete service monitoring of availability, performance, usage, and service level compliance. • Service Dashboards provide the ability to set up and store selections of Services and report them through the Service Dashboard page and detail page, allowing for direct review or mailing of the dashboard. • Service modeling of critical business functions based on a wide range of supported protocols.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing information
Enterprise Manager Service Level Management (SLM)	Licensed Services Links	The following information describes the Enterprise Manager links that require licensing of SLM. This information does not include feature links that may contain information derived from the creation of tests and beacons, but are considered part of SLM. The list that follows assumes that you begin from the main Enterprise Manager home page: For configuration pages, from the **Targets** menu, select **Services**: • On the Services page, as part of the Generic Service creation **Service Test** step, defining a service's availability based on the execution of a service test is a licensed feature of Oracle Real User Experience Insight (RUEI). • On the Services page, as part of the Generic Service creation, the **Beacons page** is a licensed feature of RUEI. • On the Services page, click any **Name** link (except for Aggregate Service) in the table. On the Service page that appears, select the **Monitoring Configuration** sub-tab. The **Service Tests and Beacons** link on the Monitoring Configuration page is a licensed feature of RUEI. • On the Services page, click either the **Name** link of a Generic Service or Forms Application in the table. On the Service page that appears, select the **Monitoring Configuration** sub-tab. On the Monitoring Configuration page, the **Enable Forms Transaction Monitoring** link is a licensed feature of RUEI. • On the Monitoring Configuration page, select **Availability Definition**. Select **Service Test** from the drop-down list on the **Availability Definition** page. Defining a service's availability based on the execution of a service test is a licensed feature of RUEI. For monitoring pages, from the Enterprise Manager home page, select the **Targets** menu, then **Services**: • On the Services page, select a service **Name** link in the table. On the Service page that appears, the **Test Performance** sub-tab and **Black Out** button are licensed features of RUEI. • On the Services page, select a service **Name** link in the table. On the Service page that appears, select the **Test Performance** sub-tab. All links and controls on this page are licensed as part of RUEI. The following **Related Links** are also part of RUEI: • Alert History • Blackouts • Metric Baselines • Past Changes • Pending Changes (where applicable)

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing information
Enterprise Manager Service Level Management (SLM)	Licensed Forms Applications Links	The following information describes the Enterprise Manager links that require licensing of SLM. This information does not include feature links that may contain information derived from the creation of tests and beacons, but are considered part of SLM. The list that follows assumes that you begin from the main Enterprise Manager home page: For configuration pages, from the **Targets** menu, select **Services**: • On the Services page, select **Forms Application** from the drop-down list and click **Go**. Select **Service Test** from the drop down-menu on the **Availability** page of the Create Forms Application wizard. Defining a form application's availability based on the execution of a service test is a licensed feature of Oracle Real User Experience Insight (RUEI). • On the Services page, select **Forms Application** from the drop-down list and click **Go**. The **Beacons page** of the Create Web Application wizard is a licensed feature of RUEI. • On the Services page, click any **Forms Application Name** link, then select the **Monitoring Configuration** sub-tab. The **Service Tests and Beacons** link in the **Generic Tasks** section of the Monitoring Configuration page is a licensed feature of RUEI. • On the Monitoring Configuration page, select **Availability Definition** from the **Generic Tasks** section. The **Service Test** choice from the drop-down list on the **Availability Definition** page is a licensed feature of RUEI. For monitoring pages, from the **Targets** menu, select **Services**: • On the Services page, click a Forms Application **Name** link in the table to go to the Forms Application Home page. The **Test Performance** link and **Black Out** button are licensed features of RUEI. The following **Related Links** are also part of RUEI: • Alert History • Blackouts • Metric Baselines • Past Changes • Pending Changes (where applicable)

Copyright © 2015, 2025, Oracle and/or its affiliates.

Management Pack	Type of Licensing Information	Licensing information

Enterprise Manager Service Level Management (SLM)	Licensed CLI Verbs	The following Enterprise Manager command line interface (CLI) verbs are licensed as part of Enterprise Manager Service Level Management:
		
		`add_beacon`
		`apply_template_tests`
		`assign_test_to_target`
		`delete_test`
		`disable_test`
		`enable_test`
		`extract_template`
		`remove_beacon`
		`set_availability`
		`set_key_beacons_and_tests`
		`sync_beacon`

Enterprise Manager Service Level Management (SLM)	Restricted-Use License	A restricted use license of Oracle Functional Testing is included for the purpose of recording test scripts only.

Copyright © 2015, 2025, Oracle and/or its affiliates.

9

Oracle Cloud Infrastructure Integration

This chapter describes the Oracle Cloud Infrastructure (OCI) cloud services that analyze target-level data managed by Enterprise Manager.

Enterprise Manager data stored in the Oracle Management Repository (OMR) can be uploaded to the OCI Object Storage, where it can be analyzed by cloud-native services. This allows you to avail the capabilities of OCI services for Enterprise Manager targets. Once OCI connectivity is set up, your target data is automatically uploaded to the OCI Object Storage on a periodic basis.

> **Note**
>
> The data extraction from Enterprise Manager and its managed data targets requires Oracle Database Diagnostics Pack license on the managed targets. For information, see Oracle Diagnostics Pack.

Ops Insights

Oracle Cloud Infrastructure Ops Insights is an OCI native service that provides holistic insight into database and host resource utilization and capacity.

Enterprise Manager databases and hosts can be discovered in Ops Insights once OCI connectivity is established. Using Enterprise Manager Cloud Extensions, you can access Ops Insights and perform resource analysis on these Enterprise Manager targets and view database SQL performance insights, database capacity planning, and forecasting information.

An active subscription to Ops Insights is required to configure and use **Ask EM**, which is an Oracle Cloud Infrastructure Generative AI-powered assistant built into the Enterprise Manager console. You can use **Ask EM** to obtain fast and reliable responses to various Enterprise Manager-related natural language queries.

For information on:

- Integrating Enterprise Manager with Ops Insights, see Integrating Enterprise Manager with OCI Services in *Oracle Enterprise Manager Administrator's Guide*.
- Oracle Cloud subscription, see Buy an Oracle Cloud Subscription in Oracle Cloud Infrastructure documentation.
- Usage cost, see Observability and Management Platform - Ops Insights and Oracle Cloud Storage Pricing.
- Ask EM, see Generative AI Assistant in *Oracle Enterprise Manager Administrator's Guide*.

Copyright © 2015, 2025, Oracle and/or its affiliates.

10

Enterprise Manager Base Functionality

This chapter outlines the list of features that are included with the base functionality of Oracle Enterprise Manager:

- Base Framework Feature Summary
- Base Database Management Feature Summary
- Base Middleware Management Feature Summary
- Base Engineered Systems Management Feature Summary
- Server, Storage, and Virtualization Management Feature Summary

The base installation of Enterprise Manager 24ai includes several features free of charge with the purchase of any Oracle software license or Support contract.

Base Framework Feature Summary

The following items are included as part of framework features of Oracle Enterprise Manager 24ai:

Base Framework Feature	Description
Agent-based Target Discovery	Discover targets running on a host automatically by deploying the agent.
Agent Management	Start, stop, restart, and modify agent configuration from Oracle Enterprise Manager. View agent health from agent home page.
Agent Provisioning and Patching	Automate deployment of agent software and patches to the target servers.
Alerts and Metric Threshold Management *(excludes notifications)*	Configure thresholds for metrics and view alerts (server generated or generated based on threshold violation). This excludes notifications which requires one or more licensed Packs.
Ask EM	Obtain fast and reliable responses to various Enterprise Manager-related natural language queries. **Ask EM** is an Oracle Cloud Infrastructure Generative AI-powered assistant in the Enterprise Manager console, which you can use to accelerate troubleshooting, obtain visibility into the health and performance of your targets or just answers to questions on Enterprise Manager features and functionality.
Auto-Discovery	Discover host on a network and promote to being managed by Enterprise Manager.
Dynamic Runbooks	Enable subject matter experts to encapsulate best practice steps for diagnosing and resolving issues into a runbook that can be executed directly inside Enterprise Manager. Dynamic Runbooks can be used in the context of hosts, agents, and the Enterprise Manager System (Managing the Manager). Dynamic Runbooks used in the context of jobs is not a part of the Enterprise Manager Base Functionality. The license required is based on the target type of the job, i.e., the Enterprise Manager management pack that contains the monitoring features for the target type will apply.
Enterprise Manager App for Grafana	Render Enterprise Manager's metric data onto Grafana for flexible dashboards and related analytics.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Base Framework Feature	Description
Enterprise Manager Dashboards	Use Enterprise Manager dashboards to gather real-time data from the enterprise and display them in easy-to-interpret widgets.
Enterprise Manager Federation	Define all your Enterprise Manager sites and access critical information from a single new interface.
Enterprise Manager Mobile	Monitor Enterprise Manager sites from a mobile application. The application can be downloaded from the App Store® for Apple mobile devices and from Google Play for Android mobile devices.
Enterprise Manager Self Management and Monitoring	View Management Services and Repository and Management Service target pages and reports. View Enterprise Manager topology.
Enterprise Manager Support Workbench	Access Checker Central diagnostics checks. Run EMDiag Kit. Package and send Problem information to Oracle Support.
Event Compression	Manage incidents better by compressing or grouping related events into a single incident. Event Compression can be used in the context of hosts, agents, and the Enterprise Manager System (Managing the Manager). When Event Compression is used in the context of jobs, licensing will be based on the target type of the job, i.e., the Enterprise Manager management pack that contains the monitoring features for the target type will apply. For example, if the target type of the job is a host, it will be covered under the Server, Storage, and Virtualization Management features.
Extensibility Development Kit (EDK)	Collection of tools, utilities, sample code, and documentation that enables creation of new plug-ins to extend Enterprise Manager's ability to monitor and manage new types of targets. In addition to the base framework features, the following features are available free of charge and for restricted use only for new targets created using the EDK, which are not Oracle supported targets such as Oracle Database and Oracle WebLogic Server: • Alert and Metric Threshold Management • Metric and Alert/Event History • Dynamic Metric Baselines and Adaptive Metric Thresholds • Metric Extensions • Monitoring Templates and Template Collections • Notifications • Blackouts • Dynamic Runbooks • Event Compression • Management Connectors
Groups and Systems Management	Enable administrators to manage multiple targets as one.
Information Publisher and Reporting	Create and manage reports in Enterprise Manager's embedded reporting solution or in the independently configured Oracle Analytics Server installation. Specific reports in Enterprise Manager may be licensed under Packs.
Job Diagnostics Dashboards	Diagnose problems and resolve job system performance issues using intuitive dashboards that provide an administrator view of the job system.
Job System and Corrective Actions	Automate routine (often repetitive) tasks. Enables automated response to metric alerts.
Monitoring and Incident Management	Provide administrators with ability to monitor targets individually or in groups or systems. View and manage incidents generate from events associated with targets.
My Oracle Support integration	Provide seamless access to My Oracle Support within the Enterprise Manager user interface. Manage Service Requests and review Knowledge Base articles, all without leaving the Enterprise Manager user interface.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Base Framework Feature	Description
Enterprise Manager–to-Oracle Cloud Infrastructure (OCI) Bridge	Enterprise Manager–to-Oracle Cloud Infrastructure (OCI) Bridge allows data transfer from Enterprise Manager targets and Oracle Management Repository (OMR) to OCI Object Storage where it can be accessed by cloud-native services.
Oracle Linux Virtualization (OLV)	Monitor Oracle Linux Virtualization Manager and its constituent parts. A comprehensive set of predefined performance and health metrics enables automated monitoring of the Oracle Linux Virtualization environment.
Parallel OMS Upgrades	Upgrade the primary OMS and then upgrade all additional OMS simultaneously.
Remote Agent	Use Enterprise Manager remote agents to remotely monitor and manage targets without requiring an agent to be installed on the same host as the targets.
Self-update *(functionality in plug-ins may be licensed under Packs)*	Update Enterprise Manager with new features or fixes based on new versions of software available on Oracle Technology Network (OTN) or My Oracle Support (MOS).
Software Library (excludes licensed software)	Manage software entities such as software patches, virtual appliance images, reference gold images, application software, and their associated directive scripts. This excludes any software entities that are a part of a licensed Pack.
User, Role and Credentials Management	Manage Enterprise Manager user access, the roles associated with users, and the credentials used by users to access targets.
vCPU Utilization Tracking	Track and report on Oracle product vCPU consumption on supported Oracle Engineered Systems.

Base Database Management Feature Summary

Users of Standard Edition and Enterprise Edition databases can use the Base Framework features and the Base Database Management Features. The following items are included as part of base database management features of Enterprise Manager 24ai:

Base Database Management Feature	Description
Add Protected Database for ZDLRA	Perform Recovery Appliance administration using the Add Protected Database operation verb, `manage_ra`.
Advisor Central	Initiate an Advisor operation for various database management tasks, such as Segment Advisor, Memory Advisor. Some Advisors may be licensed under Packs.
Data movement	Configure and manage movement of data between databases using features such streams, replication, data pump.
Database Migration Workbench	Migrate workloads from an on-premises database to an Autonomous Database using the Database Migration Workbench. Database Migration Workbench features include the actual migration, post-migration analysis, and post-migration performance comparison.
Error management	View error history reported in the database alert log. Manage and diagnose critical errors reported using Support Workbench. Package errors and associated trace files into incidents for reporting on My Oracle Support.
Execute SQL REST API	Use HTTP-based REST endpoints to execute SQL commands and extract data from the Oracle Management Repository or a database target configured in Enterprise Manager.
Grid Infrastructure management	Manage all components of Oracle Grid Infrastructure including Automatic Storage Management (ASM) and Clusterware (including Cluster Ready Services (CRS).
High availability	Configure and manage database backups, initiate recovery actions, configure flashback. View and configure standby databases. Analyze high availability configuration against Maximum Availability Architecture.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Base Database Management Feature	Description
Multi-OMS deployment for high availability	OMS deployed on the primary site in an active/active configuration. **Note:** In a high availability/disaster recovery configuration with primary and standby sites, additional licensing is required to use RAC or Data Guard for the Oracle Management Repository. For information, see Oracle Enterprise Manager Restricted-use License.
Non-structured data management	Manage multi-dimensional data such as OLAP, semi-structured data such as XML, and unstructured data such as text.
Object, program and initialization parameters management	Manage database objects such as tables, indexes, views, materialized views. Manage PL/SQL and Java-based database programs such as triggers, procedures, functions. View and manage database initialization parameters.
Optimizer Management	Manage optimizer statistics and SQL plans. Some capabilities under SQL Plan Control may be licensed under Packs.
Pluggable Database (PDB) Create/Plug/Unplug	Create PDB from seed, plug PDB from unplugged PDB and unplug PDB (single target operations only using non-customized deployment procedure).
Resource Management	Manage the distribution of operating system resources by defining and assigning resource plans to consumer groups within the database.
Scheduler Central	Manage automated jobs maintained by Oracle Database and Oracle Enterprise Manager including Automatic Maintenance Tasks.
Security	Manage database users, roles, profiles, configure Virtual Private Database (VPN) policies. Certain database security pages are licensed under the corresponding database security option, for example, Database Vault, Audit Vault.
SQL Execution	View SQL execution history, execute ad hoc SQL using Run SQL or SQL Worksheet.
Space and Undo Management	Manage control files, tablespaces, datafiles, log files, automatic undo management.
Support Workbench	View critical errors captured in the Automatic Diagnostic Repository, create incidents from errors to report to My Oracle Support.
Upgrade Planner	My Oracle Support Upgrade Planner.
Workspace management	Define and configure workspaces to maintain different versions of table row values in different workspaces.

Base Middleware Management Feature Summary

The following items are included as part of Enterprise Manager 24ai Middleware management:

> **Note**
>
> Only the target home page itself is unlicensed. All links including metric links to look at historical metrics are part of the appropriate middleware management pack and require a license.

Base Middleware Management Feature	Description
Discovery of Oracle Fusion Middleware Farm/WebLogic Domain	Allow for discovery of Oracle WebLogic Domains and Oracle Fusion Middleware Farms (includes discovery of Fusion Middleware components deployed to the domains as well).

Copyright © 2015, 2025, Oracle and/or its affiliates.

Base Middleware Management Feature	Description
Drilldowns to Administration Consoles	Provide links for launching and accessing administration consoles such as the Oracle Enterprise Manager Fusion Middleware Control console and Oracle WebLogic Server Administration Console.
Fusion Middleware targets home pages *(Exception is JVM and JVM Pool target home pages; these two home pages are part of a management pack and require a license.)*	View target home pages including, but not limited to the following target types: • WebLogic Domain • Fusion Middleware Farm • WebLogic Cluster and WebLogic Server • Application Deployment and Clustered Application Deployment • WebCenter • Oracle Service Bus target • SOA Infrastructure and Composite target
Process Control	Ability to start, stop, restart Oracle Fusion Middleware related components.
Refresh or Rediscovery of Oracle Fusion Middleware Farm/WebLogic Domain	Refresh or rediscover Oracle Fusion Middleware Farm/WebLogic Domain and its members - either manually or automatically with a predefined job.
Support Workbench	Automatic collection of diagnostic data when critical errors occur in WebLogic Server and SOA Infrastructure components. Data can then be quickly and easily packaged and sent to Oracle Support to reduce problem resolution time.
WLST Script job	Schedule and track the execution of WLST commands from the Enterprise Manager console.

Base Engineered Systems Management Feature Summary

Engineered Systems Management components include:

- Exadata Management Features
- Exalogic Management Features
- Private Cloud Appliance Management Features

Exadata Management Features

The following pages are included as part of Enterprise Manager 24ai Exadata management:

Exadata Management Feature	Description
Schematic	• Database Machine Schematic • Physical components • Physical placement • Temperature of cells • Alter physical placement of each component through Edit • Status summary of each component • List of alerts
Topology Viewer	• DB Machine Software Topology • System Members • InfiniBand Switch

Copyright © 2015, 2025, Oracle and/or its affiliates.

Exadata Management Feature	Description
Exadata Grid	• Overview – Target status, Cell health, release version and IORM status • Capacity – Disk capacity allocated to ASM, ASM Diskgroup summary and cell incidents **Note:** these regions are licensed by the Oracle Diagnostics Pack: • Workload Distribution by Databases • Cell level Performance charts – I/O, CPU, Network and Response Time
IB Network page	Overview – status, switches, firmware version, Schematic explaining the port status, Node status, List of alerts, incidents. **Note:** these regions are licensed by the Oracle Diagnostics Pack: • Throughput details
ILOM, KVM, Cisco Switch, PDU	Summary, Job Activity, list of alerts

Exalogic Management Features

The following items are included as part of Enterprise Manager 24ai Exalogic management:

Exalogic Management Feature	Description
Basic monitoring	• Component placement – schematic view, temperature, hardware up and down status • Software dashboard page • Virtualization pages within the Exalogic Navigation tree • Storage pages • Topology view of the system and components • Exalogic InfiniBand (IB) Fabric Page

Private Cloud Appliance Management Features

The following items are included as part of Enterprise Manager Private Cloud Appliance management:

Private Cloud Appliance Feature	Description
Chargeback	Chargeback for host only metrics (CPU, Memory and Storage etc).
Rack Monitoring	• Private cloud appliance schematic • Physical placement • Temperature and IP information • Status summary of each component • List of alerts and incidents
Topology Viewer	• Private cloud appliance topology • System members • Switch fabric

Server, Storage, and Virtualization Management Feature Summary

The following items are included as part of Enterprise Manager 24ai server and virtualization management. This also includes Oracle VM Server, Oracle VM Server for X86 with the Private Cloud Appliance and Oracle Linux Virtualization Manager.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Server, Storage, and Virtualization Features	Description
Administration	Provide remote administration capabilities for hosts.
Chargeback	Chargeback and Metering for guest virtual machines (VMs) and hosts. **Note:** Chargeback for VMs and hosts is free and does not require a license.
Configuration management	Provide hardware and software configuration data collection.
Consolidation Planner	Determine optimal server consolidation scenarios by leveraging data collected by Enterprise Manager against business and technical constraints.
Dynamic Topology	Maintain the child-to-parent relationship between the service processor, hypervisor, global zone, control domain, and virtual machine.
Guest VM/Linux OS Patching	Provide automated host patching and integration with an Unbreakable Linux network (ULN).
Historical Trending	View historical workload trends.
Host monitoring and management	Monitor of Enterprise Manager component services, such as jobs and notifications.
Infrastructure Management	Provide ready access to Home, Self-Service, Request Dashboard pages through the Infrastructure Cloud menu.
Metric Extensions	Create new metrics to monitor conditions specific to customer environments. **Note:** Metric Extensions are available free of charge only for the host target and not for other targets.
Monitoring Profiles for V12N	Provide monitoring attributes for issues associated with Oracle VM Server for SPARC and Oracle Solaris Container environments.
Notifications	Notification on events and incidents for infrastructure targets (hosts, storage, VMs).
Management Connectors	Management Connectors, such as ticketing connectors and event connectors, integrate Enterprise Manager with other management systems. Ticketing connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other event management systems. The use of Management Connectors are available specifically for events and incidents on infrastructure targets (hosts, storage, VMs).
Oracle VM and Guest VM provisioning	Deploy Oracle VM server software to bare-metal servers and create Guest VMs using operating system ISOs or using the PXE mode.
Performance monitoring	Provide real-time and historical performance monitoring.
Storage Plug-in	Manage storage assets more effectively.

Copyright © 2015, 2025, Oracle and/or its affiliates.

A

Third-Party Licenses for Oracle Enterprise Manager

This appendix contains licensing information about certain third-party products included with Oracle Enterprise Manager 24ai.

Open Source or Other Separately Licensed Software Distributed in Oracle Enterprise Manager

Required notices for open source software products or components distributed in Enterprise Manager 24ai are identified in the following table along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or readme files of the individual third-party open source software.

Provider	Components	Version	Licensing information
Bouncy Castle Inc.	bcpkix-jdk15to18	1.78	For a copy of the license, see Bouncy Castle Inc. - bcpkix-jdk15to18 License.
CERN - European Organization for Nuclear Research	Colt	1.2	For a copy of the license, see CERN - Colt License.
Coda Hale and Yammer, Inc.	Dropwizard-assets	2.1.11	For a copy of the license, see Coda Hale and Yammer, Inc. - Dropwizard-assets License.
Coda Hale and Yammer, Inc.	dropwizard-jersey	2.1.11	For a copy of the license, see Coda Hale and Yammer, Inc. - dropwizard-jersey License.
Coda Hale and Yammer, Inc.	DropWizard-core	2.1.11	For a copy of the license, see Coda Hale and Yammer, Inc. - DropWizard-core License.
Codehaus	Jettison	1.5.4	For a copy of the license, see Codehaus - Jettison License.
CPAN	Net-DNS	1.44	For a copy of the license, see CPAN - Net-DNS License.
CPAN	perl module: IO-tty	IO-tty 1.20	For a copy of the license, see CPAN - perl module: IO-tty License.
Eclipse Foundation	Jakarta Restful Web Services JAX-RS API	3.1.0	For a copy of the license, see Eclipse Foundation - Jakarta RESTful Web Services License.
Eclipse Foundation	Jakarta Bean Validation API	3.1.0	For a copy of the license, see Eclipse Foundation - Jakarta Bean Validation API License.
Eclipse Foundation	Jakarta Activation API (JAF)	2.0.1	For a copy of the license, see Eclipse Foundation - Jakarta Activation API (JAF) License.
Eclipse Foundation	hk2-locator	3.0.4	For a copy of the license, see Eclipse Foundation - hk2-locator License.
Eclipse Foundation	jersey-server	3.1.4	For a copy of the license, see Eclipse Foundation - jersey-server License.
Eclipse Foundation	jersey-media-multipart	3.1.4	For a copy of the license, see Eclipse Foundation - jersey-media-multipart License.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Provider	Components	Version	Licensing information
Eclipse Foundation	Jakarta Annotations API	3.0.0	For a copy of the license, see Eclipse Foundation - Jakarta Annotations API License.
Eclipse Foundation	jersey-common	3.1.4	For a copy of the license, see Eclipse Foundation - jersey-common License.
Eclipse Foundation	jersey-client	3.1.4	For a copy of the license, see Eclipse Foundation - jersey-client License.
Eclipse Foundation	Jetty	9.4.54.v20240208	For a copy of the license, see Eclipse Foundation - Jetty License.
Eclipse Foundation	hk2-api	3.1.0	For a copy of the license, see Eclipse Foundation - hk2-api License.
FasterXML, LLC	jackson-module-afterburner	2.13.4	For a copy of the license, see FasterXML, LLC - jackson-module-afterburner License.
FasterXML, LLC	Jackson Annotations	2.16.2	For a copy of the license, see FasterXML, LLC - Jackson Annotations License.
FasterXML, LLC	Jackson Databind	2.16.2	For a copy of the license, see FasterXML, LLC - Jackson Databind License.
FasterXML, LLC	jackson-datatype-jdk8	2.16.1	For a copy of the license, see FasterXML, LLC - jackson-datatype-jdk8 License.
FasterXML, LLC	Jackson Core	2.16.2	For a copy of the license, see FasterXML, LLC - Jackson Core License.
GlassFish	hk2-utils	3.0.3	For a copy of the license, see GlassFish - hk2-utils License.
Glen Smith	OpenCSV	5.9	For a copy of the license, see Glen Smith - OpenCSV License.
Google Inc.	Guice	6.0.0	For a copy of the license, see Google Inc. - Guice License.
Info-ZIP	UnZip	6.0-56.0.1	For a copy of the license, see Info-ZIP - UnZip License.
Info-ZIP	Zip	3.0-35	For a copy of the license, see Info-ZIP - Zip License.
JS Foundation and other contributors	JQuery	3.7.1	For a copy of the license, see JS Foundation - JQuery License.
Marc Prud'hommeaux	JLine	3.26.3	For a copy of the license, see Marc Prud'hommeaux - JLine License.
Marijn Haverbeke	CodeMirror	5.65.15	For a copy of the license, see Marijn Haverbeke - CodeMirror License.
Nodeca	Pako	2.1.0	For a copy of the license, see Nodeca - Pako License.
Open Source	Standard Performance Evaluation Corporation (SPEC) CPU 2017 benchmark results	1.1.9	For a copy of the license, see Open Source - Standard Performance Evaluation Corporation (SPEC) CPU 2017 benchmark results License.
Oracle	weblogic-deploy-tooling	3.2.3	For a copy of the license, see Oracle - weblogic-deploy-tooling License.
Project Lombok	Lombok	1.18.30	For a copy of the license, see Project Lombok License.
Python Software Foundation	Jython	2.7.3	For a copy of the license, see Python Software Foundation - Jython License.
QOS.ch	slf4j-api	2.0.12	For a copy of the license, see QOS.ch - slf4j-api License.
SnakeYAML.org	SnakeYAML	2.2	For a copy of the license, see SnakeYAML.org - SnakeYAML License.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Provider	Components	Version	Licensing information
SNMP4J.org	SNMP4J	2.8.18	For a copy of the license, see SNMP4J.org - SNMP4J License.
SNMP4J.org	SNMP4J Agent	2.7.9	For a copy of the license, see SNMP4J.org - SNMP4J Agent License.
Stephen Colebourne	Joda Time	2.12.6	For a copy of the license, see Stephen Colebourne - Joda Time License.
Tatsuhiro Tsujikawa	Argparse4j	0.9.0	For a copy of the license, see Tatsuhiro Tsujikawa - Argparse4j License.
Terence Parr	ANTLR4 Java Runtime	4.13.1	For a copy of the license, see Terence Parr - ANTLR4 Java Runtime License.
The Apache Software Foundation	HttpComponents HttpClient	4.5.14	For a copy of the license, see The Apache Software Foundation - HttpComponents HttpClient License.
The Apache Software Foundation	Commons IO	2.15.0, 2.15.1	For a copy of the license, see The Apache Software Foundation - Commons IO License.
The Apache Software Foundation	Commons Collections	4.4-259a834	For a copy of the license, see The Apache Software Foundation - Commons Collections License.
The Apache Software Foundation	Commons Logging	1.3.0	For a copy of the license, see The Apache Software Foundation - Commons Logging License.
The Apache Software Foundation	Commons Lang	3.13.0, 3.14.0	For a copy of the license, see The Apache Software Foundation - Commons Lang License.
The Apache Software Foundation	Commons Text	1.11.0	For a copy of the license, see The Apache Software Foundation - Commons Text License.
The Apache Software Foundation	Commons Math	3.6.2-9e7c7c1	For a copy of the license, see The Apache Software Foundation - Commons Math License.
The Apache Software Foundation	log4j-1.2-api	2.22.1	For a copy of the license, see The Apache Software Foundation - log4j-1.2-api License.
The Apache Software Foundation	Log4j-API	2.22.1	For a copy of the license, see The Apache Software Foundation - Log4j-API License.
The Apache Software Foundation	log4j-core	2.22.1	For a copy of the license, see The Apache Software Foundation - log4j-core License.
The Apache Software Foundation	Mina SSHD-core	2.12.0	For a copy of the license, see The Apache Software Foundation - Mina SSHD-core License.
The Apache Software Foundation	Mina SSHD-sftp	2.12.0	For a copy of the license, see The Apache Software Foundation - Mina SSHD-sftp License.
The Apache Software Foundation	Mina SSHD-common	2.12.0	For a copy of the license, see The Apache Software Foundation - Mina SSHD-common License.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Provider	Components	Version	Licensing information
The Apache Software Foundation	Xerces2 Java	2.12.2	For a copy of the license, see The Apache Software Foundation - Xerces2 Java License.
The Apache Software Foundation	httpclient5	5.2.1	For a copy of the license, see The Apache Software Foundation - httpclient5 License.
The MIT License (MIT)	JsonSurfer	1.6.5	For a copy of the license, see MIT - JsonSurfer License.
The Perl Foundation	Perl	5.38.2-Oracle	For a copy of the license, see The Perl Foundation - Perl License.
Typesafe Inc.	Typesafe config	1.4.3	For a copy of the license, see Typesafe Inc. - Typesafe config License.
Wildfly JBoss Application Server	wildfly-client-all	29.0.1.Final	For a copy of the license, see Wildfly JBoss Application Server - wildfly-client-all License.

Additional Licensing Information

For additional licensing information about other third party products included with Oracle Database, which is distributed with Enterprise Manager, go to Oracle Database documentation, select the Oracle Database release version, and access the Oracle Database bookshelf by clicking **Browse**. The *Oracle Database Licensing Information User Manual* for the selected release is available on the Books page.

For additional licensing information about other third party products included with JDK 7, which is distributed with Enterprise Manager, go to: `https://www.oracle.com/downloads/licenses/terms-thirdpartyreadme-java-license.html`

This documentation is in prerelease status and is intended for demonstration and preliminary use only. It may not be specific to the hardware on which you are using the software. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to this documentation and will not be responsible for any loss, costs, or damages incurred due to the use of this documentation.

Apache Software Foundation Licenses, Version 2.0

```
Version 2.0, January 2004
    http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

Copyright © 2015, 2025, Oracle and/or its affiliates.

institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

Bouncy Castle Inc. - bcpkix-jdk15to18 License

Please note this should be read in the same way as the MIT license.

Please also note this licensing model is made possible through funding from donations and the sale of support contracts.
License

Copyright (c) 2000 - 2024 The Legion of the Bouncy Castle Inc. (https://www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

CERN - Colt License

Packages cern.colt* , cern.jet*, cern.clhep

Copyright (c) 1999 CERN - European Organization for Nuclear Research.
Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. CERN makes no representations about the suitability of this software for any purpose. It is provided "as is" without expressed or implied warranty.

Packages hep.aida.*

Written by Pavel Binko, Dino Ferrero Merlino, Wolfgang Hoschek, Tony Johnson, Andreas Pfeiffer, and others. Check the FreeHEP home page for more info. Permission to use and/or redistribute this work is granted under the terms of the LGPL License, with the exception that any usage related to military applications is expressly forbidden. The software and documentation made available under the terms of this license are provided with no warranty.

Coda Hale and Yammer, Inc. - dropwizard-jersey License

------------------------------ Top-level license -------------------------
.
Apache License

For a copy of the license, see Apache Software Foundation Licenses, Version 2.0.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
.
.
------------------------------ Copyright notices -------------------------
.

Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

.
--------------------------- Fourth-party information ----------------------

== NAME OF DEPENDENCY
.
org.slf4j:slf4j-api
org.slf4j:jul-to-slf4j
.
== License
.
MIT
.

The MIT License

 Copyright (c) 2004-2023 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
org.checkerframework:checker-qual
.
== License
.
MIT
.

Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers

MIT License:
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
io.dropwizard:dropwizard-util
io.dropwizard:dropwizard-jackson
io.dropwizard:dropwizard-validation
io.dropwizard:dropwizard-logging
io.dropwizard.metrics:metrics-core
io.dropwizard.metrics:metrics-logback
io.dropwizard.metrics:metrics-jersey2
io.dropwizard.metrics:metrics-annotation
io.dropwizard.logback:logback-throttling-appender

.
== License
.
Apache 2.0
.

Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
com.github.ben-manes.caffeine:caffeine
.
== License
.
Apache 2.0
.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
com.fasterxml.jackson.datatype:jackson-datatype-guava
com.fasterxml.jackson.datatype:jackson-datatype-jsr310
com.fasterxml.jackson.datatype:jackson-datatype-jdk8
com.fasterxml.jackson.datatype:jackson-datatype-joda
com.fasterxml.jackson.core:jackson-core
com.fasterxml.jackson.core:jackson-databind
com.fasterxml.jackson.core:jackson-annotations
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
com.fasterxml.jackson.module:jackson-module-parameter-names
com.fasterxml.jackson.module:jackson-module-blackbird
com.fasterxml.jackson.module:jackson-module-jaxb-annotations
com.fasterxml.jackson.jaxrs:jackson-jaxrs-json-provider
com.fasterxml.jackson.jaxrs:jackson-jaxrs-base
.
== License
.
Apache 2.0
.

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

## FastDoubleParser

jackson-core bundles a shaded copy of FastDoubleParser <https://github.com/wrandelshofer/
FastDoubleParser>.
That code is available under an MIT license <https://github.com/wrandelshofer/
FastDoubleParser/blob/main/LICENSE>
under the following copyright.

Copyright © 2023 Werner Randelshofer, Switzerland. MIT License.

See FastDoubleParser-NOTICE for details of other source code included in FastDoubleParser
and the licenses and copyrights that apply to that code.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
ch.randelshofer:fastdoubleparser
.
== License
.
MIT
.

MIT License

Copyright (c) 2023 Werner Randelshofer, Switzerland.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

==Notice

# FastDoubleParser

This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and BigInteger values.

## Copyright

Copyright © 2023 Werner Randelshofer, Switzerland.

## Licensing

This code is licensed under MIT License.
https://github.com/wrandelshofer/FastDoubleParser/blob/
522be16e145f43308c43b23094e31d5efcaa580e/LICENSE
(The file 'LICENSE' is included in the sources and classes Jar files that are released
by this project
- as is required by that license.)

Some portions of the code have been derived from other projects.
All these projects require that we include a copyright notice, and some require that we
also include some text of their
license file.

fast_double_parser, Copyright (c) 2022 Daniel Lemire. BSL License.
https://github.com/lemire/fast_double_parser
https://github.com/lemire/fast_double_parser/blob/
07d9189a8fb815fe800cb15ca022e7a07093236e/LICENSE.BSL
(The file 'thirdparty-LICENSE' is included in the sources and classes Jar files that are
released by this project
- as is required by that license.)

fast_float, Copyright (c) 2021 The fast_float authors. MIT License.
https://github.com/fastfloat/fast_float
https://github.com/fastfloat/fast_float/blob/cc1e01e9eee74128e48d51488a6b1df4a767a810/
LICENSE-MIT
(The file 'thirdparty-LICENSE' is included in the sources and classes Jar files that are
released by this project
- as is required by that license.)

bigint, Copyright 2020 Tim Buktu. 2-clause BSD License.
https://github.com/tbuktu/bigint/tree/floatfft
https://github.com/tbuktu/bigint/blob/617c8cd8a7c5e4fb4d919c6a4d11e2586107f029/LICENSE
https://github.com/wrandelshofer/FastDoubleParser/blob/
39e123b15b71f29a38a087d16a0bc620fc879aa6/bigint-LICENSE
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
(We only use those portions of the bigint project that can be licensed under 2-clause
BSD License.)
(The file 'thirdparty-LICENSE' is included in the sources and classes Jar files that are
released by this project
- as is required by that license.)

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
com.fasterxml:classmate
.
== License
.
Apache 2.0
.

Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
com.google.guava:guava
com.google.guava:failureaccess
com.google.guava:listenablefuture
com.google.errorprone:error_prone_annotations
com.google.j2objc:j2objc-annotations
.
== License
.
Apache 2.0
.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
com.google.code.findbugs:jsr305
.
== License
.
BSD 3-Clause
.

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright notice,
      this list of conditions and the following disclaimer in the documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
org.slf4j:log4j-over-slf4j
org.slf4j:jcl-over-slf4j
.
== License
.
Apache 2.0
.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
org.jboss.logging:jboss-logging
.
== License
.
Apache 2.0
.

--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
org.javassist:javassist
.
== License
.
Apache 2.0
.

--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
joda-time:joda-time
.
== License
.
Apache 2.0
.

================================================================================
= NOTICE file corresponding to section 4d of the Apache License Version 2.0 =
================================================================================
This product includes software developed by
Joda.org (https://www.joda.org/).
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
org.hibernate.validator:hibernate-validator
.
== License
.
Apache 2.0
.

--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
jakarta.validation:jakarta.validation-api
jakarta.inject:jakarta.inject-api
.
== License
.
Apache 2.0
.

--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
jakarta.xml.bind:jakarta.xml.bind-api
jakarta.activation:jakarta.activation-api
.
== License
.
EDL 1.0
.

Eclipse Distribution License - v 1.0

Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are
permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice, this list of
conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright notice, this list
of conditions and the following disclaimer in the documentation and/or other materials
provided with the distribution.
    Neither the name of the Eclipse Foundation, Inc. nor the names of its contributors
may be used to endorse or promote products derived from this software without specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL
THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
.
org.glassfish:jakarta.el
.
== License
.
EPL 2.0 / GPL with CPE
.
# Eclipse Public License - v 2.0

        THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
        PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
        OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

    1. DEFINITIONS

    "Contribution" means:

      a) in the case of the initial Contributor, the initial content
         Distributed under this Agreement, and

      b) in the case of each subsequent Contributor:
         i) changes to the Program, and
         ii) additions to the Program;
      where such changes and/or additions to the Program originate from
      and are Distributed by that particular Contributor. A Contribution
      "originates" from a Contributor if it was added to the Program by
      such Contributor itself or anyone acting on such Contributor's behalf.
      Contributions do not include changes or additions to the Program that
      are not Modified Works.

    "Contributor" means any person or entity that Distributes the Program.

    "Licensed Patents" mean patent claims licensable by a Contributor which
    are necessarily infringed by the use or sale of its Contribution alone
    or when combined with the Program.

    "Program" means the Contributions Distributed in accordance with this
    Agreement.

    "Recipient" means anyone who receives the Program under this Agreement
    or any Secondary License (as applicable), including Contributors.

    "Derivative Works" shall mean any work, whether in Source Code or other
    form, that is based on (or derived from) the Program and for which the
    editorial revisions, annotations, elaborations, or other modifications
    represent, as a whole, an original work of authorship.

    "Modified Works" shall mean any work in Source Code or other form that
    results from an addition to, deletion from, or modification of the
    contents of the Program, including, for purposes of clarity any new file
    in Source Code form that contains any contents of the Program. Modified
    Works shall not include works that contain only declarations,
    interfaces, types, classes, structures, or files of the Program solely
    in each case in order to link to, bind by name, or subclass the Program
    or Modified Works thereof.

    "Distribute" means the acts of a) distributing or b) making available
    in any manner that enables the transfer of a copy.

    "Source Code" means the form of a Program preferred for making
    modifications, including but not limited to software source code,
    documentation source, and configuration files.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license

Copyright © 2015, 2025, Oracle and/or its affiliates.

different than this Agreement, provided that such license:
i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial

Copyright © 2015, 2025, Oracle and/or its affiliates.

Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    reserves the right to publish new versions (including revisions) of
    this Agreement from time to time. No one other than the Agreement
    Steward has the right to modify this Agreement. The Eclipse Foundation
    is the initial Agreement Steward. The Eclipse Foundation may assign the
    responsibility to serve as the Agreement Steward to a suitable separate
    entity. Each new version of the Agreement will be given a distinguishing
    version number. The Program (including Contributions) may always be
    Distributed subject to the version of the Agreement under which it was
    received. In addition, after a new version of the Agreement is published,
    Contributor may elect to Distribute the Program (including its
    Contributions) under the new version.

    Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
    receives no rights or licenses to the intellectual property of any
    Contributor under this Agreement, whether expressly, by implication,
    estoppel or otherwise. All rights in the Program not expressly granted
    under this Agreement are reserved. Nothing in this Agreement is intended
    to be enforceable by any entity that is not a Contributor or Recipient.
    No third-party beneficiary rights are created under this Agreement.

    Exhibit A - Form of Secondary Licenses Notice

    "This Source Code may also be made available under the following
    Secondary Licenses when the conditions for such availability set forth
    in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
    version(s), and exceptions or additional permissions here}."

      Simply including a copy of this Agreement, including this Exhibit A
      is not sufficient to license the Source Code under Secondary Licenses.

      If it is not possible or desirable to put the notice in a particular
      file, then You may include the notice in a location (such as a LICENSE
      file in a relevant directory) where a recipient would be likely to
      look for such a notice.

      You may add additional accurate notices of copyright ownership.

---

##    The GNU General Public License (GPL) Version 2, June 1991

    Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin Street, Fifth Floor
    Boston, MA 02110-1335
    USA

    Everyone is permitted to copy and distribute verbatim copies
    of this license document, but changing it is not allowed.

    Preamble

    The licenses for most software are designed to take away your freedom to
    share and change it. By contrast, the GNU General Public License is
    intended to guarantee your freedom to share and change free software--to
    make sure the software is free for all its users. This General Public
    License applies to most of the Free Software Foundation's software and
    to any other program whose authors commit to using it. (Some other Free
    Software Foundation software is covered by the GNU Library General
    Public License instead.) You can apply it to your programs, too.

    When we speak of free software, we are referring to freedom, not price.
    Our General Public Licenses are designed to make sure that you have the
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and

Copyright © 2015, 2025, Oracle and/or its affiliates.

you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

    c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to

Copyright © 2015, 2025, Oracle and/or its affiliates.

distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other

Copyright © 2015, 2025, Oracle and/or its affiliates.

circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    may consider it more useful to permit linking proprietary applications
    with the library. If this is what you want to do, use the GNU Library
    General Public License instead of this License.

---

## CLASSPATH EXCEPTION

    Linking this library statically or dynamically with other modules is
    making a combined work based on this library.  Thus, the terms and
    conditions of the GNU General Public License version 2 cover the whole
    combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
    modules, and to copy and distribute the resulting executable under
    terms of your choice, provided that you also meet, for each linked
    independent module, the terms and conditions of the license of that
    module.  An independent module is a module which is not derived from or
    based on this library.  If you modify this library, you may extend this
    exception to your version of the library, but you are not obligated to
    do so.  If you do not wish to do so, delete this exception statement
    from your version.


# Notices for Jakarta Expression Language

This content is produced and maintained by the Jakarta Expression Language project.

* Project home: https://projects.eclipse.org/projects/ee4j.el

## Trademarks

Jakarta Expression Language is a trademark of the Eclipse
Foundation.

## Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/el-ri

## Third-party Content
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
## Cryptography

Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
jakarta.ws.rs:jakarta.ws.rs-api
jakarta.annotation:jakarta.annotation-api
jakarta.servlet:jakarta.servlet-api
.
== License
.
EPL 2.0 / GPL  with CPE
.

# Notices for the Jakarta RESTful Web Services Project

This content is produced and maintained by the **Jakarta RESTful Web Services**
project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaxrs

## Trademarks

**Jakarta RESTful Web Services** is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxrs-api

## Third-party Content

This project leverages the following third party content.

javaee-api (7.0)
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
* License: Apache-2.0 AND W3C

JUnit (4.11)

* License: Common Public License 1.0

Mockito (2.16.0)

* Project: http://site.mockito.org
* Source: https://github.com/mockito/mockito/releases/tag/v2.16.0

## Cryptography

Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

# Notices for Jakarta Annotations

This content is produced and maintained by the Jakarta Annotations project.

 * Project home: https://projects.eclipse.org/projects/ee4j.ca

## Trademarks

Jakarta Annotations is a trademark of the Eclipse Foundation.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

 * https://github.com/eclipse-ee4j/common-annotations-api

## Third-party Content

## Cryptography

Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
.
org.glassfish.hk2:hk2-locator
org.glassfish.hk2:hk2-api
org.glassfish.hk2:hk2-utils
org.glassfish.hk2.external:aopalliance-repackaged
org.glassfish.hk2:osgi-resource-locator
.
== License
.
EPL 2.0 / GPL  with CPE
.

# Notices for Eclipse GlassFish

This content is produced and maintained by the Eclipse GlassFish project.

* Project home: https://projects.eclipse.org/projects/ee4j.glassfish

## Trademarks

Eclipse GlassFish, and GlassFish are trademarks of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
* https://github.com/eclipse-ee4j/glassfish-jsftemplating
* https://github.com/eclipse-ee4j/glassfish-hk2-extra
* https://github.com/eclipse-ee4j/glassfish-hk2
* https://github.com/eclipse-ee4j/glassfish-fighterfish

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

Content may contain encryption software. The country in which you are currently
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
org.glassfish.jersey.core:jersey-server
org.glassfish.jersey.ext:jersey-metainf-services
org.glassfish.jersey.inject:jersey-hk2
org.glassfish.jersey.containers:jersey-container-servlet
org.glassfish.jersey.containers:jersey-container-servlet-core
org.glassfish.jersey.core:jersey-client
org.glassfish.jersey.core:jersey-common
.
== License
.
EPL 2.0 / GPL  with CPE
.

# Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.

*  Project home: https://projects.eclipse.org/projects/ee4j.jersey

## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

## Third-party Content

Angular JS, v1.6.6
* License MIT (http://www.opensource.org/licenses/mit-license.php)
* Project: http://angularjs.org
* Coyright: (c) 2010-2017 Google, Inc.

aopalliance Version 1
* License: all the source code provided by AOP Alliance is Public Domain.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
* Project: http://aopalliance.sourceforge.net
* Copyright: Material in the public domain is not protected by copyright

Bean Validation API 2.0.2
* License: Apache License, 2.0
* Project: http://beanvalidation.org/1.1/
* Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual contributors
* by the @authors tag.

Hibernate Validator CDI, 6.2.5.Final
* License: Apache License, 2.0
* Project: https://beanvalidation.org/
* Repackaged in org.glassfish.jersey.server.validation.internal.hibernate

Bootstrap v3.3.7
* License: MIT license (https://github.com/twbs/bootstrap/blob/master/LICENSE)
* Project: http://getbootstrap.com
* Copyright: 2011-2016 Twitter, Inc

Google Guava Version 18.0
* License: Apache License, 2.0
* Copyright (C) 2009 The Guava Authors

javax.inject Version: 1
* License: Apache License, 2.0
* Copyright (C) 2009 The JSR-330 Expert Group

Javassist Version 3.30.2-GA
* License: Apache License, 2.0
* Project: http://www.javassist.org/
* Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

Jackson JAX-RS Providers Version 2.17.0
* License: Apache License, 2.0
* Project: https://github.com/FasterXML/jackson-jaxrs-providers
* Copyright: (c) 2009-2024 FasterXML, LLC. All rights reserved unless otherwise
indicated.

jQuery v1.12.4
* License: jquery.org/license
* Project: jquery.org
* Copyright: (c) jQuery Foundation

jQuery Barcode plugin 0.3
* License: MIT & GPL (http://www.opensource.org/licenses/mit-license.php & http://
www.gnu.org/licenses/gpl.html)
* Project:  http://www.pasella.it/projects/jQuery/barcode
* Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com

JSR-166 Extension - JEP 266
* License: CC0
* No copyright
* Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and
released to the public domain, as explained at http://creativecommons.org/publicdomain/
zero/1.0/

KineticJS, v4.7.1
* License: MIT license (http://www.opensource.org/licenses/mit-license.php)
* Project: http://www.kineticjs.com, https://github.com/ericdrowell/KineticJS
* Copyright: Eric Rowell

org.objectweb.asm Version 9.7
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
* License: Modified BSD (https://asm.ow2.io/license.html)
* Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.

org.osgi.core version 6.0.0
* License: Apache License, 2.0
* Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.

org.glassfish.jersey.server.internal.monitoring.core
* License: Apache License, 2.0
* Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
* Copyright 2010-2013 Coda Hale and Yammer, Inc.

W3.org documents
* License: W3C License
* Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts Institute
of Technology, Institut National de Recherche en Informatique et en Automatique, Keio
University). All Rights Reserved. http://www.w3.org/Consortium/Legal/

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
ch.qos.logback:logback-core
ch.qos.logback:logback-classic
.
== License
.
EPL 1.0 / LGPL 2.1
.

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE
("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES
RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation
distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by
that particular Contributor. A Contribution 'originates' from a Contributor if it was
added to the Program by such Contributor itself or anyone acting on such Contributor's
behalf. Contributions do not include additions to the Program which: (i) are separate
modules of software distributed in conjunction with the Program under their own license
agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily
infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all
Contributors.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

Copyright © 2015, 2025, Oracle and/or its affiliates.

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement , including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it

Copyright © 2015, 2025, Oracle and/or its affiliates.

shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

```
--------------------------------(separator)--------------------------------
<br/>== NAME OF DEPENDENCY
.
org.eclipse.jetty:jetty-util
org.eclipse.jetty:jetty-io
.
== License
.
EPL 2.0 / Apache 2.0
.

Notices for Eclipse Jetty
=========================
This content is produced and maintained by the Eclipse Jetty project.

Project home: https://eclipse.dev/jetty/

Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.

Copyright
---------
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).

Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:

  * the Eclipse Public License v2.0
    https://www.eclipse.org/legal/epl-2.0
    SPDX-License-Identifier: EPL-2.0

  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0
    SPDX-License-Identifier: Apache-2.0

The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

The following dependencies are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * jakarta.servlet:jakarta.servlet-api
 * javax.annotation:javax.annotation-api
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api

The following dependencies are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed.  Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * org.eclipse.jetty.toolchain:jetty-schemas

Cryptography
------------
Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.

--------------------------------(separator)--------------------------------
```

Coda Hale and Yammer, Inc. - Dropwizard-assets License

```
------------------------------ Top-level license -------------------------
.
Apache License

For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.
.
------------------------------ Copyright notices -------------------------
.

Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

.
---------------------------- Fourth-party information ----------------------

== NAME OF DEPENDENCY
.
org.slf4j:slf4j-api
org.slf4j:jul-to-slf4j
.
== License
.
MIT
.

The MIT License

 Copyright (c) 2004-2023 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
net.sourceforge.argparse4j:argparse4j
.
== License
.
MIT
.

/*
 * Copyright (C) 2011-2017 Tatsuhiro Tsujikawa
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
 */

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
org.checkerframework:checker-qual
.
== License
.
MIT
.

Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
io.dropwizard:dropwizard-core
io.dropwizard:dropwizard-util
io.dropwizard:dropwizard-jackson
io.dropwizard:dropwizard-validation
io.dropwizard:dropwizard-configuration
io.dropwizard:dropwizard-logging
io.dropwizard:dropwizard-metrics
io.dropwizard:dropwizard-jersey
io.dropwizard:dropwizard-servlets
io.dropwizard:dropwizard-jetty
io.dropwizard:dropwizard-lifecycle
io.dropwizard:dropwizard-health
io.dropwizard:dropwizard-request-logging
io.dropwizard.metrics:metrics-core
io.dropwizard.metrics:metrics-logback
io.dropwizard.metrics:metrics-jersey2
io.dropwizard.metrics:metrics-annotation
io.dropwizard.metrics:metrics-jetty9
io.dropwizard.metrics:metrics-jvm
io.dropwizard.metrics:metrics-jmx
io.dropwizard.metrics:metrics-json
io.dropwizard.metrics:metrics-servlets
io.dropwizard.metrics:metrics-healthchecks
io.dropwizard.logback:logback-throttling-appender

.
== License
.
Apache 2.0
.

Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
com.github.ben-manes.caffeine:caffeine
.
== License
.
Apache 2.0
.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
com.fasterxml.jackson.datatype:jackson-datatype-guava
com.fasterxml.jackson.datatype:jackson-datatype-jdk8
com.fasterxml.jackson.datatype:jackson-datatype-joda
com.fasterxml.jackson.datatype:jackson-core
com.fasterxml.jackson.datatype:jackson-databind
com.fasterxml.jackson.datatype:jackson-annotations
com.fasterxml.jackson.dataformat:jackson-dataformat-yaml
com.fasterxml.jackson.module:jackson-module-parameter-names
com.fasterxml.jackson.module:jackson-module-blackbird
com.fasterxml.jackson.module:jackson-module-jaxb-annotations
com.fasterxml.jackson.jaxrs:jackson-jaxrs-json-provider
com.fasterxml.jackson.jaxrs:jackson-jaxrs-base
.
== License
.
Apache 2.0
.

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson components are licensed under Apache (Software) License, version 2.0,
as per accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
com.fasterxml:classmate
.
== License
.
Apache 2.0
.

Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
com.google.guava:guava
com.google.guava:failureaccess
com.google.guava:listenablefuture
com.google.errorprone:error_prone_annotations
com.google.j2objc:j2objc-annotations
com.google.code.findbugs:jsr305
.
== License
.
Apache 2.0
.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
com.google.code.findbugs:jsr305
.
== License
.
BSD 3-Clause
.

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright notice,
      this list of conditions and the following disclaimer in the documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
org.slf4j:log4j-over-slf4j
org.slf4j:jcl-over-slf4j
.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
== License
.
Apache 2.0
.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
org.jboss.logging:jboss-logging
.
== License
.
Apache 2.0
.

--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
org.javassist:javassist
.
== License
.
Apache 2.0
.

--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
joda-time:joda-time
.
== License
.
Apache 2.0
.

================================================================================
= NOTICE file corresponding to section 4d of the Apache License Version 2.0 =
================================================================================
This product includes software developed by
Joda.org (https://www.joda.org/).

--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
com.helger:profiler
.
== License
.
Apache 2.0
.



--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
org.hibernate.validator:hibernate-validator
.
== License
.
Apache 2.0
.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
org.yaml:snakeyaml
.
== License
.
Apache 2.0
.
--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
org.apache.commons:commons-text
org.apache.commons:commons-lang3
.
== License
.
Apache 2.0
.
--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
jakarta.ws.rs:jakarta.ws.rs-api
jakarta.validation:jakarta.validation-api
jakarta.inject:jakarta.inject-api
jakarta.xml.bind:jakarta.xml.bind-api
jakarta.activation:jakarta.activation-api
jakarta.annotation:jakarta.annotation-api
.
== License
.
Apache 2.0
.

--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
jakarta.xml.bind:jakarta.xml.bind-api
jakarta.activation:jakarta.activation-api
.
== License
.
EDL 1.0
.

Eclipse Distribution License - v 1.0

Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are
permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice, this list of
conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright notice, this list
of conditions and the following disclaimer in the documentation and/or other materials
provided with the distribution.
    Neither the name of the Eclipse Foundation, Inc. nor the names of its contributors
may be used to endorse or promote products derived from this software without specific
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL
THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
org.glassfish:jakarta.el
.
== License
.
EPL 2.0 / GPL
.

   THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
jakarta.annotation:jakarta.annotation-api
jakarta.servlet:jakarta.servlet-api
.
== License
.
EPL 2.0 / GPL
.

--------------------------------(separator)--------------------------------
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
== NAME OF DEPENDENCY
.
org.glassfish.hk2:hk2-locator
org.glassfish.hk2:hk2-api
org.glassfish.hk2:hk2-utils
org.glassfish.hk2.external:aopalliance-repackaged
org.glassfish.hk2:osgi-resource-locator
.
== License
.
EPL 2.0 / GPL
.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
org.glassfish.jersey.core:jersey-server
org.glassfish.jersey.ext:jersey-metainf-services
org.glassfish.jersey.inject:jersey-hk2
org.glassfish.jersey.containers:jersey-container-servlet
org.glassfish.jersey.containers:jersey-container-servlet-core
org.glassfish.jersey.core:jersey-client
org.glassfish.jersey.ext:jersey-bean-validation
org.glassfish.jersey.core:jersey-common
.
== License
.
EPL 2.0 / GPL
.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
ch.qos.logback:logback-access
ch.qos.logback:logback-core
ch.qos.logback:logback-classic
.
== License
.
EPL 1.0 / LGPL 2.1
.

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE
("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES
RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation
distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by
that particular Contributor. A Contribution 'originates' from a Contributor if it was
added to the Program by such Contributor itself or anyone acting on such Contributor's
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost

Copyright © 2015, 2025, Oracle and/or its affiliates.

profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement , including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

Copyright © 2015, 2025, Oracle and/or its affiliates.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

```
org.eclipse.jetty:jetty-servlets
org.eclipse.jetty:jetty-http
org.eclipse.jetty.toolchain.setuid:jetty-setuid-java
.
== License
.
EPL 1.0 / Apache 2.0
.

--------------------------------(separator)--------------------------------
```

Coda Hale and Yammer, Inc. - DropWizard-core License

```
------------------------------ Top-level license -------------------------
.
Apache License

For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.
.
------------------------------ Copyright notices -------------------------
.
Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team
This product includes software developed by Coda Hale and Yammer, Inc.
.
---------------------------- Fourth-party information ----------------------
== NAME OF DEPENDENCY
.
org.slf4j:slf4j-api
org.slf4j:jul-to-slf4j
.
== License
.
MIT
.
The MIT License
 Copyright (c) 2004-2023 QOS.ch
 All rights reserved.
 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
net.sourceforge.argparse4j:argparse4j
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
.
== License
.
MIT
.
/*
 * Copyright (C) 2011-2017 Tatsuhiro Tsujikawa
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
 */
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
org.checkerframework:checker-qual
.
== License
.
MIT
.
Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers
MIT License:
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
io.dropwizard:dropwizard-util
io.dropwizard:dropwizard-jackson
io.dropwizard:dropwizard-validation
io.dropwizard:dropwizard-configuration
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
io.dropwizard:dropwizard-logging
io.dropwizard:dropwizard-metrics
io.dropwizard:dropwizard-jersey
io.dropwizard:dropwizard-servlets
io.dropwizard:dropwizard-jetty
io.dropwizard:dropwizard-lifecycle
io.dropwizard:dropwizard-health
io.dropwizard:dropwizard-request-logging
io.dropwizard.metrics:metrics-core
io.dropwizard.metrics:metrics-logback
io.dropwizard.metrics:metrics-jersey2
io.dropwizard.metrics:metrics-annotation
io.dropwizard.metrics:metrics-jetty9
io.dropwizard.metrics:metrics-jvm
io.dropwizard.metrics:metrics-jmx
io.dropwizard.metrics:metrics-json
io.dropwizard.metrics:metrics-servlets
io.dropwizard.metrics:metrics-healthchecks
io.dropwizard.logback:logback-throttling-appender
.
== License
.
Apache 2.0
.
Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team
This product includes software developed by Coda Hale and Yammer, Inc.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
com.github.ben-manes.caffeine:caffeine
.
== License
.
Apache 2.0
.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
com.fasterxml.jackson.datatype:jackson-datatype-guava
com.fasterxml.jackson.datatype:jackson-datatype-jsr310
com.fasterxml.jackson.datatype:jackson-datatype-jdk8
com.fasterxml.jackson.datatype:jackson-datatype-joda
com.fasterxml.jackson.core:jackson-core
com.fasterxml.jackson.core:jackson-databind
com.fasterxml.jackson.core:jackson-annotations
com.fasterxml.jackson.dataformat:jackson-dataformat-yaml
com.fasterxml.jackson.module:jackson-module-parameter-names
com.fasterxml.jackson.module:jackson-module-blackbird
com.fasterxml.jackson.module:jackson-module-jaxb-annotations
com.fasterxml.jackson.jaxrs:jackson-jaxrs-json-provider
com.fasterxml.jackson.jaxrs:jackson-jaxrs-base
.
== License
.
Apache 2.0
.
# Jackson JSON processor
Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
## Copyright
Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)
## Licensing
Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.
## Credits
A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
## FastDoubleParser
jackson-core bundles a shaded copy of FastDoubleParser <https://github.com/wrandelshofer/
FastDoubleParser>.
That code is available under an MIT license <https://github.com/wrandelshofer/
FastDoubleParser/blob/main/LICENSE>
under the following copyright.
Copyright © 2023 Werner Randelshofer, Switzerland. MIT License.
See FastDoubleParser-NOTICE for details of other source code included in FastDoubleParser
and the licenses and copyrights that apply to that code.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
ch.randelshofer:fastdoubleparser
.
== License
.
MIT
.
MIT License
Copyright (c) 2023 Werner Randelshofer, Switzerland.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
==Notice
# FastDoubleParser
This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and BigInteger values.
## Copyright
Copyright © 2023 Werner Randelshofer, Switzerland.
## Licensing
This code is licensed under MIT License.
https://github.com/wrandelshofer/FastDoubleParser/blob/
522be16e145f43308c43b23094e31d5efcaa580e/LICENSE
(The file 'LICENSE' is included in the sources and classes Jar files that are released
by this project
- as is required by that license.)
Some portions of the code have been derived from other projects.
All these projects require that we include a copyright notice, and some require that we
also include some text of their
license file.
fast_double_parser, Copyright (c) 2022 Daniel Lemire. BSL License.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
https://github.com/lemire/fast_double_parser
https://github.com/lemire/fast_double_parser/blob/
07d9189a8fb815fe800cb15ca022e7a07093236e/LICENSE.BSL
(The file 'thirdparty-LICENSE' is included in the sources and classes Jar files that are
released by this project
- as is required by that license.)
fast_float, Copyright (c) 2021 The fast_float authors. MIT License.
https://github.com/fastfloat/fast_float
https://github.com/fastfloat/fast_float/blob/cc1e01e9eee74128e48d51488a6b1df4a767a810/
LICENSE-MIT
(The file 'thirdparty-LICENSE' is included in the sources and classes Jar files that are
released by this project
- as is required by that license.)
bigint, Copyright 2020 Tim Buktu. 2-clause BSD License.
https://github.com/tbuktu/bigint/tree/floatfft
https://github.com/tbuktu/bigint/blob/617c8cd8a7c5e4fb4d919c6a4d11e2586107f029/LICENSE
https://github.com/wrandelshofer/FastDoubleParser/blob/
39e123b15b71f29a38a087d16a0bc620fc879aa6/bigint-LICENSE
(We only use those portions of the bigint project that can be licensed under 2-clause
BSD License.)
(The file 'thirdparty-LICENSE' is included in the sources and classes Jar files that are
released by this project
- as is required by that license.)
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
com.fasterxml:classmate
.
== License
.
Apache 2.0
.
Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)
Other developers who have contributed code are:
* Brian Langel
## Copyright
Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
com.google.guava:guava
com.google.guava:failureaccess
com.google.guava:listenablefuture
com.google.errorprone:error_prone_annotations
com.google.j2objc:j2objc-annotations
.
== License
.
Apache 2.0
.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
com.google.code.findbugs:jsr305
.
== License
.
BSD 3-Clause
.
Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.
Redistribution and use in source and binary forms, with or without
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright notice,
      this list of conditions and the following disclaimer in the documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
org.slf4j:log4j-over-slf4j
org.slf4j:jcl-over-slf4j
.
== License
.
Apache 2.0
.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
org.jboss.logging:jboss-logging
.
== License
.
Apache 2.0
.
--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
org.javassist:javassist
.
== License
.
Apache 2.0
.
--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
joda-time:joda-time
.
== License
.
Apache 2.0
.
============================================================================
= NOTICE file corresponding to section 4d of the Apache License Version 2.0 =
============================================================================
This product includes software developed by
Joda.org (https://www.joda.org/).
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
com.helger:profiler
.
== License
.
Apache 2.0
.
--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
org.hibernate.validator:hibernate-validator
.
== License
.
Apache 2.0
.
--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
org.yaml:snakeyaml
.
== License
.
Apache 2.0
.
--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
org.apache.commons:commons-text
org.apache.commons:commons-lang3
.
== License
.
Apache 2.0
.
--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
jakarta.validation:jakarta.validation-api
jakarta.inject:jakarta.inject-api
.
== License
.
Apache 2.0
.
--------------------------------(separator)--------------------------------
==  NAME OF DEPENDENCY
.
jakarta.xml.bind:jakarta.xml.bind-api
jakarta.activation:jakarta.activation-api
.
== License
.
EDL 1.0
.
Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.
All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are
permitted provided that the following conditions are met:
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    Redistributions of source code must retain the above copyright notice, this list of
conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright notice, this list
of conditions and the following disclaimer in the documentation and/or other materials
provided with the distribution.
    Neither the name of the Eclipse Foundation, Inc. nor the names of its contributors
may be used to endorse or promote products derived from this software without specific
prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL
THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
org.glassfish:jakarta.el
.
== License
.
EPL 2.0 / GPL with CPE
.
# Eclipse Public License - v 2.0
        THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
        PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
        OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
    1. DEFINITIONS
    "Contribution" means:
      a) in the case of the initial Contributor, the initial content
         Distributed under this Agreement, and
      b) in the case of each subsequent Contributor:
         i) changes to the Program, and
         ii) additions to the Program;
      where such changes and/or additions to the Program originate from
      and are Distributed by that particular Contributor. A Contribution
      "originates" from a Contributor if it was added to the Program by
      such Contributor itself or anyone acting on such Contributor's behalf.
      Contributions do not include changes or additions to the Program that
      are not Modified Works.
    "Contributor" means any person or entity that Distributes the Program.
    "Licensed Patents" mean patent claims licensable by a Contributor which
    are necessarily infringed by the use or sale of its Contribution alone
    or when combined with the Program.
    "Program" means the Contributions Distributed in accordance with this
    Agreement.
    "Recipient" means anyone who receives the Program under this Agreement
    or any Secondary License (as applicable), including Contributors.
    "Derivative Works" shall mean any work, whether in Source Code or other
    form, that is based on (or derived from) the Program and for which the
    editorial revisions, annotations, elaborations, or other modifications
    represent, as a whole, an original work of authorship.
    "Modified Works" shall mean any work in Source Code or other form that
    results from an addition to, deletion from, or modification of the
    contents of the Program, including, for purposes of clarity any new file
    in Source Code form that contains any contents of the Program. Modified
    Works shall not include works that contain only declarations,
    interfaces, types, classes, structures, or files of the Program solely
    in each case in order to link to, bind by name, or subclass the Program
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
or Modified Works thereof.
"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.
"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.
"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.
2. GRANT OF RIGHTS
  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.
  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.
  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.
  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.
  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).
3. REQUIREMENTS
3.1 If a Contributor Distributes the Program in any form, then:
  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and
  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

for a particular purpose;
ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and
iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:
a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and
b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the

Copyright © 2015, 2025, Oracle and/or its affiliates.

appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
      is not sufficient to license the Source Code under Secondary Licenses.
      If it is not possible or desirable to put the notice in a particular
      file, then You may include the notice in a location (such as a LICENSE
      file in a relevant directory) where a recipient would be likely to
      look for such a notice.
      You may add additional accurate notices of copyright ownership.
---
##    The GNU General Public License (GPL) Version 2, June 1991
    Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin Street, Fifth Floor
    Boston, MA 02110-1335
    USA
    Everyone is permitted to copy and distribute verbatim copies
    of this license document, but changing it is not allowed.
    Preamble
    The licenses for most software are designed to take away your freedom to
    share and change it. By contrast, the GNU General Public License is
    intended to guarantee your freedom to share and change free software--to
    make sure the software is free for all its users. This General Public
    License applies to most of the Free Software Foundation's software and
    to any other program whose authors commit to using it. (Some other Free
    Software Foundation software is covered by the GNU Library General
    Public License instead.) You can apply it to your programs, too.
    When we speak of free software, we are referring to freedom, not price.
    Our General Public Licenses are designed to make sure that you have the
    freedom to distribute copies of free software (and charge for this
    service if you wish), that you receive source code or can get it if you
    want it, that you can change the software or use pieces of it in new
    free programs; and that you know you can do these things.
    To protect your rights, we need to make restrictions that forbid anyone
    to deny you these rights or to ask you to surrender the rights. These
    restrictions translate to certain responsibilities for you if you
    distribute copies of the software, or if you modify it.
    For example, if you distribute copies of such a program, whether gratis
    or for a fee, you must give the recipients all the rights that you have.
    You must make sure that they, too, receive or can get the source code.
    And you must show them these terms so they know their rights.
    We protect your rights with two steps: (1) copyright the software, and
    (2) offer you this license which gives you legal permission to copy,
    distribute and/or modify the software.
    Also, for each author's protection and ours, we want to make certain
    that everyone understands that there is no warranty for this free
    software. If the software is modified by someone else and passed on, we
    want its recipients to know that what they have is not the original, so
    that any problems introduced by others will not reflect on the original
    authors' reputations.
    Finally, any free program is threatened constantly by software patents.
    We wish to avoid the danger that redistributors of a free program will
    individually obtain patent licenses, in effect making the program
    proprietary. To prevent this, we have made it clear that any patent must
    be licensed for everyone's free use or not licensed at all.
    The precise terms and conditions for copying, distribution and
    modification follow.
    TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
    0. This License applies to any program or other work which contains a
    notice placed by the copyright holder saying it may be distributed under
    the terms of this General Public License. The "Program", below, refers
    to any such program or work, and a "work based on the Program" means
    either the Program or any derivative work under copyright law: that is
    to say, a work containing the Program or a portion of it, either
    verbatim or with modifications and/or translated into another language.
    (Hereinafter, translation is included without limitation in the term
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

"modification".) Each licensee is addressed as "you".
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.
1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
    a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
    b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
    c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.
In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
    a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
    b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be

Copyright © 2015, 2025, Oracle and/or its affiliates.

distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the

Copyright © 2015, 2025, Oracle and/or its affiliates.

integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.
8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.
9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.
10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.
NO WARRANTY
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.
12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.
    One line to give the program's name and a brief idea of what it does.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
        Copyright (C) <year> <name of author>
        This program is free software; you can redistribute it and/or modify
        it under the terms of the GNU General Public License as published by
        the Free Software Foundation; either version 2 of the License, or
        (at your option) any later version.
        This program is distributed in the hope that it will be useful, but
        WITHOUT ANY WARRANTY; without even the implied warranty of
        MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
        General Public License for more details.
        You should have received a copy of the GNU General Public License
        along with this program; if not, write to the Free Software
        Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA
    Also add information on how to contact you by electronic and paper mail.
    If the program is interactive, make it output a short notice like this
    when it starts in an interactive mode:
        Gnomovision version 69, Copyright (C) year name of author
        Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
        `show w'. This is free software, and you are welcome to redistribute
        it under certain conditions; type `show c' for details.
    The hypothetical commands `show w' and `show c' should show the
    appropriate parts of the General Public License. Of course, the commands
    you use may be called something other than `show w' and `show c'; they
    could even be mouse-clicks or menu items--whatever suits your program.
    You should also get your employer (if you work as a programmer) or your
    school, if any, to sign a "copyright disclaimer" for the program, if
    necessary. Here is a sample; alter the names:
        Yoyodyne, Inc., hereby disclaims all copyright interest in the
        program `Gnomovision' (which makes passes at compilers) written by
        James Hacker.
        signature of Ty Coon, 1 April 1989
        Ty Coon, President of Vice
    This General Public License does not permit incorporating your program
    into proprietary programs. If your program is a subroutine library, you
    may consider it more useful to permit linking proprietary applications
    with the library. If this is what you want to do, use the GNU Library
    General Public License instead of this License.
---
## CLASSPATH EXCEPTION
    Linking this library statically or dynamically with other modules is
    making a combined work based on this library.  Thus, the terms and
    conditions of the GNU General Public License version 2 cover the whole
    combination.
    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
    modules, and to copy and distribute the resulting executable under
    terms of your choice, provided that you also meet, for each linked
    independent module, the terms and conditions of the license of that
    module.  An independent module is a module which is not derived from or
    based on this library.  If you modify this library, you may extend this
    exception to your version of the library, but you are not obligated to
    do so.  If you do not wish to do so, delete this exception statement
    from your version.
# Notices for Jakarta Expression Language
This content is produced and maintained by the Jakarta Expression Language project.
* Project home: https://projects.eclipse.org/projects/ee4j.el
## Trademarks
Jakarta Expression Language is a trademark of the Eclipse
Foundation.
## Copyright
All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
source code repository logs.
## Declared Project Licenses
This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
## Source Code
The project maintains the following source code repositories:
* https://github.com/eclipse-ee4j/el-ri
## Third-party Content
## Cryptography
Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.
-------------------------------(separator)-------------------------------
== NAME OF DEPENDENCY
.
jakarta.ws.rs:jakarta.ws.rs-api
jakarta.annotation:jakarta.annotation-api
jakarta.servlet:jakarta.servlet-api
.
== License
.
EPL 2.0 / GPL  with CPE
.
# Notices for the Jakarta RESTful Web Services Project
This content is produced and maintained by the **Jakarta RESTful Web Services**
project.
* Project home: https://projects.eclipse.org/projects/ee4j.jaxrs
## Trademarks
**Jakarta RESTful Web Services** is a trademark of the Eclipse Foundation.
## Copyright
All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.
## Declared Project Licenses
This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
## Source Code
The project maintains the following source code repositories:
* https://github.com/eclipse-ee4j/jaxrs-api
## Third-party Content
This project leverages the following third party content.
javaee-api (7.0)
* License: Apache-2.0 AND W3C
JUnit (4.11)
* License: Common Public License 1.0
Mockito (2.16.0)
* Project: http://site.mockito.org
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
* Source: https://github.com/mockito/mockito/releases/tag/v2.16.0
## Cryptography
Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.
# Notices for Jakarta Annotations
This content is produced and maintained by the Jakarta Annotations project.
 * Project home: https://projects.eclipse.org/projects/ee4j.ca
## Trademarks
Jakarta Annotations is a trademark of the Eclipse Foundation.
## Declared Project Licenses
This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
## Source Code
The project maintains the following source code repositories:
 * https://github.com/eclipse-ee4j/common-annotations-api
## Third-party Content
## Cryptography
Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
org.glassfish.hk2:hk2-locator
org.glassfish.hk2:hk2-api
org.glassfish.hk2:hk2-utils
org.glassfish.hk2.external:aopalliance-repackaged
org.glassfish.hk2:osgi-resource-locator
.
== License
.
EPL 2.0 / GPL  with CPE
.
# Notices for Eclipse GlassFish
This content is produced and maintained by the Eclipse GlassFish project.
* Project home: https://projects.eclipse.org/projects/ee4j.glassfish
## Trademarks
Eclipse GlassFish, and GlassFish are trademarks of the Eclipse Foundation.
## Copyright
All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.
## Declared Project Licenses
This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
available at https://www.gnu.org/software/classpath/license.html.
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
## Source Code
The project maintains the following source code repositories:
* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
* https://github.com/eclipse-ee4j/glassfish-jsftemplating
* https://github.com/eclipse-ee4j/glassfish-hk2-extra
* https://github.com/eclipse-ee4j/glassfish-hk2
* https://github.com/eclipse-ee4j/glassfish-fighterfish
## Third-party Content
This project leverages the following third party content.
None
## Cryptography
Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.
-------------------------------(separator)-------------------------------
== NAME OF DEPENDENCY
.
org.glassfish.jersey.core:jersey-server
org.glassfish.jersey.ext:jersey-metainf-services
org.glassfish.jersey.inject:jersey-hk2
org.glassfish.jersey.containers:jersey-container-servlet
org.glassfish.jersey.containers:jersey-container-servlet-core
org.glassfish.jersey.core:jersey-client
org.glassfish.jersey.ext:jersey-bean-validation
org.glassfish.jersey.core:jersey-common
.
== License
.
EPL 2.0 / GPL
.
# Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.
*  Project home: https://projects.eclipse.org/projects/ee4j.jersey
## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.
## Copyright
All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.
## Declared Project Licenses
This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
## Source Code
The project maintains the following source code repositories:
* https://github.com/eclipse-ee4j/jersey
## Third-party Content
Angular JS, v1.6.6
* License MIT (http://www.opensource.org/licenses/mit-license.php)
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
* Project: http://angularjs.org
* Coyright: (c) 2010-2017 Google, Inc.
aopalliance Version 1
* License: all the source code provided by AOP Alliance is Public Domain.
* Project: http://aopalliance.sourceforge.net
* Copyright: Material in the public domain is not protected by copyright
Bean Validation API 2.0.2
* License: Apache License, 2.0
* Project: http://beanvalidation.org/1.1/
* Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual contributors
* by the @authors tag.
Hibernate Validator CDI, 6.2.5.Final
* License: Apache License, 2.0
* Project: https://beanvalidation.org/
* Repackaged in org.glassfish.jersey.server.validation.internal.hibernate
Bootstrap v3.3.7
* License: MIT license (https://github.com/twbs/bootstrap/blob/master/LICENSE)
* Project: http://getbootstrap.com
* Copyright: 2011-2016 Twitter, Inc
Google Guava Version 18.0
* License: Apache License, 2.0
* Copyright (C) 2009 The Guava Authors
javax.inject Version: 1
* License: Apache License, 2.0
* Copyright (C) 2009 The JSR-330 Expert Group
Javassist Version 3.30.2-GA
* License: Apache License, 2.0
* Project: http://www.javassist.org/
* Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Jackson JAX-RS Providers Version 2.17.0
* License: Apache License, 2.0
* Project: https://github.com/FasterXML/jackson-jaxrs-providers
* Copyright: (c) 2009-2024 FasterXML, LLC. All rights reserved unless otherwise
indicated.
jQuery v1.12.4
* License: jquery.org/license
* Project: jquery.org
* Copyright: (c) jQuery Foundation
jQuery Barcode plugin 0.3
* License: MIT & GPL (http://www.opensource.org/licenses/mit-license.php & http://
www.gnu.org/licenses/gpl.html)
* Project:  http://www.pasella.it/projects/jQuery/barcode
* Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com
JSR-166 Extension - JEP 266
* License: CC0
* No copyright
* Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and
released to the public domain, as explained at http://creativecommons.org/publicdomain/
zero/1.0/
KineticJS, v4.7.1
* License: MIT license (http://www.opensource.org/licenses/mit-license.php)
* Project: http://www.kineticjs.com, https://github.com/ericdrowell/KineticJS
* Copyright: Eric Rowell
org.objectweb.asm Version 9.7
* License: Modified BSD (https://asm.ow2.io/license.html)
* Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.
org.osgi.core version 6.0.0
* License: Apache License, 2.0
* Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.
org.glassfish.jersey.server.internal.monitoring.core
* License: Apache License, 2.0
* Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
* Copyright 2010-2013 Coda Hale and Yammer, Inc.
W3.org documents
* License: W3C License
* Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts Institute
of Technology, Institut National de Recherche en Informatique et en Automatique, Keio
University). All Rights Reserved. http://www.w3.org/Consortium/Legal/
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
ch.qos.logback:logback-access
ch.qos.logback:logback-core
ch.qos.logback:logback-classic
.
== License
.
EPL 1.0 / LGPL 2.1
.
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE
("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES
RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and documentation
distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are distributed by
that particular Contributor. A Contribution 'originates' from a Contributor if it was
added to the Program by such Contributor itself or anyone acting on such Contributor's
behalf. Contributions do not include additions to the Program which: (i) are separate
modules of software distributed in conjunction with the Program under their own license
agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily
infringed by the use or sale of its Contribution alone or when combined with the Program.
"Program" means the Contributions distributed in accordance with this Agreement.
"Recipient" means anyone who receives the Program under this Agreement, including all
Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a
non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare
derivative works of, publicly display, publicly perform, distribute and sublicense the
Contribution of such Contributor, if any, and such derivative works, in source code and
object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a
non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make,
use, sell, offer to sell, import and otherwise transfer the Contribution of such
Contributor, if any, in source code and object code form. This patent license shall
apply to the combination of the Contribution and the Program if, at the time the
Contribution is added by the Contributor, such addition of the Contribution causes such
combination to be covered by the Licensed Patents. The patent license shall not apply to
any other combinations which include the Contribution. No hardware per se is licensed
hereunder.
c) Recipient understands that although each Contributor grants the licenses to its
Contributions set forth herein, no assurances are provided by any Contributor that the
Program does not infringe the patent or other intellectual property rights of any other
entity. Each Contributor disclaims any liability to Recipient for claims brought by any
other entity based on infringement of intellectual property rights or otherwise. As a
condition to exercising the rights and licenses granted hereunder, each Recipient hereby
assumes sole responsibility to secure any other intellectual property rights needed, if
any. For example, if a third party patent license is required to allow Recipient to
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.
d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within the Program.
Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.
For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement , including but not limited to the risks and costs of program errors, compliance with

Copyright © 2015, 2025, Oracle and/or its affiliates.

applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.
This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.
--------------------------------(separator)--------------------------------

== NAME OF DEPENDENCY
.
org.eclipse.jetty:jetty-continuation
org.eclipse.jetty:jetty-security
org.eclipse.jetty:jetty-server
org.eclipse.jetty:jetty-servlet
org.eclipse.jetty:jetty-util-ajax
org.eclipse.jetty:jetty-util
org.eclipse.jetty:jetty-io
org.eclipse.jetty:jetty-servlets
org.eclipse.jetty:jetty-http
org.eclipse.jetty.toolchain.setuid:jetty-setuid-java
.
== License
.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
EPL 2.0 / Apache 2.0
.
Notices for Eclipse Jetty
=========================
This content is produced and maintained by the Eclipse Jetty project.
Project home: https://eclipse.dev/jetty/
Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.
Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).
Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:
  * the Eclipse Public License v2.0
    https://www.eclipse.org/legal/epl-2.0
    SPDX-License-Identifier: EPL-2.0
  or
  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0
    SPDX-License-Identifier: Apache-2.0
The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core
The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message
The following dependencies are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish
The following dependencies are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
 * jakarta.servlet:jakarta.servlet-api
 * javax.annotation:javax.annotation-api
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api
The following dependencies are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html
 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm
The following dependencies are ASL2 licensed.
 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl
The following dependencies are ASL2 licensed.  Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.
 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api
The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
 * org.eclipse.jetty.toolchain:jetty-schemas
Cryptography
------------
Content may contain encryption software. The country in which you are currently
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.
The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.
--------------------------------(separator)--------------------------------
```

Codehaus - Jettison License

```
Apache License
For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

   Copyright 2006 Envoi Solutions LLC

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
```

CPAN - Net-DNS License

```
Permission to use, copy, modify, and distribute this software and its documentation for
any purpose and without fee is hereby granted, provided that the above copyright notice
appear in all copies and that both that copyright notice and this permission notice
appear in supporting documentation, and that the name of the author not be used in
advertising or publicity pertaining to distribution of the software without specific
prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

COPYRIGHT

Copyright (c)1997-2000 Michael Fuhr.

Portions Copyright (c)2002,2003 Chris Reinhardt.

Portions Copyright (c)2005 Olaf Kolkman (RIPE NCC)

Portions Copyright (c)2006 Olaf Kolkman (NLnet Labs)

Portions Copyright (c)2014 Dick Franks

All rights reserved.
```

CPAN - perl module: IO-tty License

```
------ Following Copyright notices are from multiple source code and text files in the
IO-Tty-1.20.tar.gz file ------
————————————————README————————————————
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
AUTHORS
    Originally by Graham Barr <gbarr@pobox.com>, based on the Ptty module by
    Nick Ing-Simmons <nik@tiuk.ti.com>.
    Now maintained and heavily rewritten by Roland Giersig
    <RGiersig@cpan.org>.
    Contains copyrighted stuff from openssh v3.0p1, authored by Tatu Ylonen
    <ylo@cs.hut.fi>, Markus Friedl and Todd C. Miller
    <Todd.Miller@courtesan.com>. I also got a lot of inspiration from the
    pty code in Xemacs.
COPYRIGHT
    Now all code is free software; you can redistribute it and/or modify it
    under the same terms as Perl itself.
    Nevertheless the above AUTHORS retain their copyrights to the various
    parts and want to receive credit if their source code is used. See the
    source for details.
DISCLAIMER
    THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
    WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
    MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
    NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY DIRECT, INDIRECT,
    INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
    NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
    USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
    ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
    THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
    In other words: Use at your own risk. Provided as is. Your mileage may
    vary. Read the source, Luke!
    And finally, just to be sure:
    Any Use of This Product, in Any Manner Whatsoever, Will Increase the
    Amount of Disorder in the Universe. Although No Liability Is Implied
    Herein, the Consumer Is Warned That This Process Will Ultimately Lead to
    the Heat Death of the Universe.
----------------Tty.xs --------------------------------------
/* from  $OpenBSD: misc.c,v 1.12 2001/06/26 17:27:24 markus Exp $        */
/*
 * Copyright (c) 2000 Markus Friedl.  All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */
/*  from  $OpenBSD: strlcpy.c,v 1.5 2001/05/13 15:40:16 deraadt Exp $     */
/*
 * Copyright (c) 1998 Todd C. Miller <Todd.Miller@courtesan.com>
 * All rights reserved.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. The name of the author may not be used to endorse or promote products
 *    derived from this software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES,
 * INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL
 * THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 * EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 * PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 * OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 * WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 * OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 * ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */
------------------------------ Pty.pm ------------------------------------
=head1 AUTHORS
Originally by Graham Barr E<lt>F<gbarr@pobox.com>E<gt>, based on the
Ptty module by Nick Ing-Simmons E<lt>F<nik@tiuk.ti.com>E<gt>.
Now maintained and heavily rewritten by Roland Giersig
E<lt>F<RGiersig@cpan.org>E<gt>.
Contains copyrighted stuff from openssh v3.0p1, authored by
Tatu Ylonen <ylo@cs.hut.fi>, Markus Friedl and Todd C. Miller
<Todd.Miller@courtesan.com>.
=head1 COPYRIGHT
Now all code is free software; you can redistribute it and/or modify
it under the same terms as Perl itself.
Nevertheless the above AUTHORS retain their copyrights to the various
parts and want to receive credit if their source code is used.
See the source for details.
=head1 DISCLAIMER
THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
In other words: Use at your own risk.  Provided as is.  Your mileage
may vary.  Read the source, Luke!
And finally, just to be sure:
Any Use of This Product, in Any Manner Whatsoever, Will Increase the
Amount of Disorder in the Universe. Although No Liability Is Implied
Herein, the Consumer Is Warned That This Process Will Ultimately Lead
to the Heat Death of the Universe.
-------------------------------- Tty.pm
-------------------------------------------------
=head1 AUTHORS
Originally by Graham Barr E<lt>F<gbarr@pobox.com>E<gt>, based on the
Ptty module by Nick Ing-Simmons E<lt>F<nik@tiuk.ti.com>E<gt>.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Now maintained and heavily rewritten by Roland Giersig
E<lt>F<RGiersig@cpan.org>E<gt>.
Contains copyrighted stuff from openssh v3.0p1, authored by Tatu
Ylonen <ylo@cs.hut.fi>, Markus Friedl and Todd C. Miller
<Todd.Miller@courtesan.com>.  I also got a lot of inspiration from
the pty code in Xemacs.
=head1 COPYRIGHT
Now all code is free software; you can redistribute it and/or modify
it under the same terms as Perl itself.
Nevertheless the above AUTHORS retain their copyrights to the various
parts and want to receive credit if their source code is used.
See the source for details.
=head1 DISCLAIMER
THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
In other words: Use at your own risk.  Provided as is.  Your mileage
may vary.  Read the source, Luke!
And finally, just to be sure:
Any Use of This Product, in Any Manner Whatsoever, Will Increase the
Amount of Disorder in the Universe. Although No Liability Is Implied
Herein, the Consumer Is Warned That This Process Will Ultimately Lead
to the Heat Death of the Universe.
```

Eclipse Foundation - Jakarta RESTful Web Services License

```
# Notices for Jakarta RESTful Web Services

This content is produced and maintained by the **Jakarta RESTful Web Services**
project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaxrs

## Trademarks

**Jakarta RESTful Web Services** is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxrs-api

## Cryptography

Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.
---
jakarta RESTful Web Services API (JAX-RS) (jakarta.ws.rs:jakarta.ws.rs-api)
Copyright (c) 2011, 2021 Oracle and/or its affiliates. All rights reserved.

    This program and the accompanying materials are made available under the
    terms of the Eclipse Public License v. 2.0, which is available at
    http://www.eclipse.org/legal/epl-2.0.

    This Source Code may also be made available under the following Secondary
    Licenses when the conditions for such availability set forth in the
    Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
    version 2 with the GNU Classpath Exception, which is available at
    https://www.gnu.org/software/classpath/license.html.

    SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

------------------------------------------
Eclipse Public License - v 2.0

    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

Copyright © 2015, 2025, Oracle and/or its affiliates.

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
---

##    The GNU General Public License (GPL) Version 2, June 1991

    Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin Street, Fifth Floor
    Boston, MA 02110-1335
    USA

    Everyone is permitted to copy and distribute verbatim copies
    of this license document, but changing it is not allowed.

    Preamble

    The licenses for most software are designed to take away your freedom to
    share and change it. By contrast, the GNU General Public License is
    intended to guarantee your freedom to share and change free software--to
    make sure the software is free for all its users. This General Public
    License applies to most of the Free Software Foundation's software and
    to any other program whose authors commit to using it. (Some other Free
    Software Foundation software is covered by the GNU Library General
    Public License instead.) You can apply it to your programs, too.

    When we speak of free software, we are referring to freedom, not price.
    Our General Public Licenses are designed to make sure that you have the
    freedom to distribute copies of free software (and charge for this
    service if you wish), that you receive source code or can get it if you
    want it, that you can change the software or use pieces of it in new
    free programs; and that you know you can do these things.

    To protect your rights, we need to make restrictions that forbid anyone
    to deny you these rights or to ask you to surrender the rights. These
    restrictions translate to certain responsibilities for you if you
    distribute copies of the software, or if you modify it.

    For example, if you distribute copies of such a program, whether gratis
    or for a fee, you must give the recipients all the rights that you have.
    You must make sure that they, too, receive or can get the source code.
    And you must show them these terms so they know their rights.

    We protect your rights with two steps: (1) copyright the software, and
    (2) offer you this license which gives you legal permission to copy,
    distribute and/or modify the software.

    Also, for each author's protection and ours, we want to make certain
    that everyone understands that there is no warranty for this free
    software. If the software is modified by someone else and passed on, we
    want its recipients to know that what they have is not the original, so
    that any problems introduced by others will not reflect on the original
    authors' reputations.

    Finally, any free program is threatened constantly by software patents.
    We wish to avoid the danger that redistributors of a free program will
    individually obtain patent licenses, in effect making the program
    proprietary. To prevent this, we have made it clear that any patent must
    be licensed for everyone's free use or not licensed at all.

    The precise terms and conditions for copying, distribution and
    modification follow.

    TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

    c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest

Copyright © 2015, 2025, Oracle and/or its affiliates.

your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    when it starts in an interactive mode:

        Gnomovision version 69, Copyright (C) year name of author
        Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
        `show w'. This is free software, and you are welcome to redistribute
        it under certain conditions; type `show c' for details.

    The hypothetical commands `show w' and `show c' should show the
    appropriate parts of the General Public License. Of course, the commands
    you use may be called something other than `show w' and `show c'; they
    could even be mouse-clicks or menu items--whatever suits your program.

    You should also get your employer (if you work as a programmer) or your
    school, if any, to sign a "copyright disclaimer" for the program, if
    necessary. Here is a sample; alter the names:

        Yoyodyne, Inc., hereby disclaims all copyright interest in the
        program `Gnomovision' (which makes passes at compilers) written by
        James Hacker.

        signature of Ty Coon, 1 April 1989
        Ty Coon, President of Vice

    This General Public License does not permit incorporating your program
    into proprietary programs. If your program is a subroutine library, you
    may consider it more useful to permit linking proprietary applications
    with the library. If this is what you want to do, use the GNU Library
    General Public License instead of this License.

---

## CLASSPATH EXCEPTION

    Linking this library statically or dynamically with other modules is
    making a combined work based on this library.  Thus, the terms and
    conditions of the GNU General Public License version 2 cover the whole
    combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
    modules, and to copy and distribute the resulting executable under
    terms of your choice, provided that you also meet, for each linked
    independent module, the terms and conditions of the license of that
    module.  An independent module is a module which is not derived from or
    based on this library.  If you modify this library, you may extend this
    exception to your version of the library, but you are not obligated to
    do so.  If you do not wish to do so, delete this exception statement
    from your version.

----------------------------------------------------------------------
/*
 * Copyright (c) 2018 Markus KARG. All rights reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v. 2.0, which is available at
 * http://www.eclipse.org/legal/epl-2.0.
 *
 * This Source Code may also be made available under the following Secondary
 * Licenses when the conditions for such availability set forth in the
 * Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
 * version 2 with the GNU Classpath Exception, which is available at
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
 * https://www.gnu.org/software/classpath/license.html.
 *
 * SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 */
-----------------------------------------
Fourth Party Dependencies
-----------------------------------------
Jakarta Activation API (JAF) (jakarta.activation:jakarta.activation-api)

Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Eclipse Foundation - Jakarta Bean Validation API License

```
Licensed under the Apache License, Version 2.0 (the "License");
For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

NOTICE
Notices for Eclipse Jakarta Validation
This content is produced and maintained by the Eclipse Jakarta Validation project.

Project home: https://projects.eclipse.org/projects/ee4j.validation
Trademarks
Jakarta Validation is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers. For more
information regarding authorship of content, please consult the listed source code
repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the terms of the
Apache License, Version 2.0 which is available at https://www.apache.org/licenses/
LICENSE-2.0.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
SPDX-License-Identifier: Apache-2.0

Source Code
The project maintains the following source code repositories:

The specification repository
The API repository
The TCK repository
Third-party Content
This project leverages the following third party content.
```

Eclipse Foundation - Jakarta Activation API (JAF) License

```
Jakarta Activation API jar (jakarta.activation:jakarta.activation-api)
  Copyright (c) 1997,2021 Oracle and/or its affiliates. All rights reserved.

# Notices for Jakarta Activation

This content is produced and maintained by Jakarta Activation project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaf

## Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Distribution License v. 1.0,
which is available at http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: BSD-3-Clause

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaf
----------------------------------------
Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
----------------------------------------
```

Eclipse Foundation - hk2-locator License

```
Copyright: Eclipse Foundation
License: EPL 2.0 + GPL v.2 with CPE

 ./LICENSE.md

# Eclipse Public License - v 2.0

        THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
        PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
        OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

    1. DEFINITIONS

    "Contribution" means:

      a) in the case of the initial Contributor, the initial content
         Distributed under this Agreement, and

      b) in the case of each subsequent Contributor:
         i) changes to the Program, and
         ii) additions to the Program;
      where such changes and/or additions to the Program originate from
      and are Distributed by that particular Contributor. A Contribution
      "originates" from a Contributor if it was added to the Program by
      such Contributor itself or anyone acting on such Contributor's behalf.
      Contributions do not include changes or additions to the Program that
      are not Modified Works.

    "Contributor" means any person or entity that Distributes the Program.

    "Licensed Patents" mean patent claims licensable by a Contributor which
    are necessarily infringed by the use or sale of its Contribution alone
    or when combined with the Program.

    "Program" means the Contributions Distributed in accordance with this
    Agreement.

    "Recipient" means anyone who receives the Program under this Agreement
    or any Secondary License (as applicable), including Contributors.

    "Derivative Works" shall mean any work, whether in Source Code or other
    form, that is based on (or derived from) the Program and for which the
    editorial revisions, annotations, elaborations, or other modifications
    represent, as a whole, an original work of authorship.

    "Modified Works" shall mean any work in Source Code or other form that
    results from an addition to, deletion from, or modification of the
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    All Recipient's rights under this Agreement shall terminate if it
    fails to comply with any of the material terms or conditions of this
    Agreement and does not cure such failure in a reasonable period of
    time after becoming aware of such noncompliance. If all Recipient's
    rights under this Agreement terminate, Recipient agrees to cease use
    and distribution of the Program as soon as reasonably practicable.
    However, Recipient's obligations under this Agreement and any licenses
    granted by Recipient relating to the Program shall continue and survive.

    Everyone is permitted to copy and distribute copies of this Agreement,
    but in order to avoid inconsistency the Agreement is copyrighted and
    may only be modified in the following manner. The Agreement Steward
    reserves the right to publish new versions (including revisions) of
    this Agreement from time to time. No one other than the Agreement
    Steward has the right to modify this Agreement. The Eclipse Foundation
    is the initial Agreement Steward. The Eclipse Foundation may assign the
    responsibility to serve as the Agreement Steward to a suitable separate
    entity. Each new version of the Agreement will be given a distinguishing
    version number. The Program (including Contributions) may always be
    Distributed subject to the version of the Agreement under which it was
    received. In addition, after a new version of the Agreement is published,
    Contributor may elect to Distribute the Program (including its
    Contributions) under the new version.

    Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
    receives no rights or licenses to the intellectual property of any
    Contributor under this Agreement, whether expressly, by implication,
    estoppel or otherwise. All rights in the Program not expressly granted
    under this Agreement are reserved. Nothing in this Agreement is intended
    to be enforceable by any entity that is not a Contributor or Recipient.
    No third-party beneficiary rights are created under this Agreement.

    Exhibit A - Form of Secondary Licenses Notice

    "This Source Code may also be made available under the following
    Secondary Licenses when the conditions for such availability set forth
    in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
    version(s), and exceptions or additional permissions here}."

      Simply including a copy of this Agreement, including this Exhibit A
      is not sufficient to license the Source Code under Secondary Licenses.

      If it is not possible or desirable to put the notice in a particular
      file, then You may include the notice in a location (such as a LICENSE
      file in a relevant directory) where a recipient would be likely to
      look for such a notice.

      You may add additional accurate notices of copyright ownership.

---

##    The GNU General Public License (GPL) Version 2, June 1991

    Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin Street, Fifth Floor
    Boston, MA 02110-1335
    USA

    Everyone is permitted to copy and distribute verbatim copies
    of this license document, but changing it is not allowed.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

    c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

Copyright © 2015, 2025, Oracle and/or its affiliates.

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or

Copyright © 2015, 2025, Oracle and/or its affiliates.

otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR

Copyright © 2015, 2025, Oracle and/or its affiliates.

OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    You should also get your employer (if you work as a programmer) or your
    school, if any, to sign a "copyright disclaimer" for the program, if
    necessary. Here is a sample; alter the names:

        Yoyodyne, Inc., hereby disclaims all copyright interest in the
        program `Gnomovision' (which makes passes at compilers) written by
        James Hacker.

        signature of Ty Coon, 1 April 1989
        Ty Coon, President of Vice

    This General Public License does not permit incorporating your program
    into proprietary programs. If your program is a subroutine library, you
    may consider it more useful to permit linking proprietary applications
    with the library. If this is what you want to do, use the GNU Library
    General Public License instead of this License.

---

## CLASSPATH EXCEPTION

    Linking this library statically or dynamically with other modules is
    making a combined work based on this library.  Thus, the terms and
    conditions of the GNU General Public License version 2 cover the whole
    combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
    modules, and to copy and distribute the resulting executable under
    terms of your choice, provided that you also meet, for each linked
    independent module, the terms and conditions of the license of that
    module.  An independent module is a module which is not derived from or
    based on this library.  If you modify this library, you may extend this
    exception to your version of the library, but you are not obligated to
    do so.  If you do not wish to do so, delete this exception statement
    from your version.

-------------- Separator --------------

 ./NOTICE.md

# Notices for Eclipse GlassFish

This content is produced and maintained by the Eclipse GlassFish project.

* Project home: https://projects.eclipse.org/projects/ee4j.glassfish

## Trademarks

Eclipse GlassFish, and GlassFish are trademarks of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
* https://github.com/eclipse-ee4j/glassfish-jsftemplating
* https://github.com/eclipse-ee4j/glassfish-hk2-extra
* https://github.com/eclipse-ee4j/glassfish-hk2
* https://github.com/eclipse-ee4j/glassfish-fighterfish

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

-------------- Separator --------------



Dependency: jakarta.annotation:jakarta.annotation-api
Copyright: Eclipse Foundation
License: EPL 2.0 + GPL v.2 with CPE

 ./LICENSE.md

EPL 2.0 + GPL v.2 with CPE ( same as org.glassfish.hk2:hk2-locator)

-------------- Separator --------------

 ./NOTICE.md

# Notices for Jakarta Annotations

This content is produced and maintained by the Jakarta Annotations project.

 * Project home: https://projects.eclipse.org/projects/ee4j.ca

## Trademarks

Jakarta Annotations is a trademark of the Eclipse Foundation.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

 * https://github.com/eclipse-ee4j/common-annotations-api

## Third-party Content

## Cryptography

Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.


-------------- Separator --------------



Dependency: jakarta.inject:jakarta.inject-api
Copyright: Eclipse Foundation
License: Apache 2.0

For a copy of the license, see Apache Software Foundation Licenses, Version
    2.0.

-------------- Separator --------------

 ./NOTICE.md

# Notices for Eclipse Jakarta Dependency Injection

This content is produced and maintained by the Eclipse Jakarta Dependency Injection
project.

* Project home: https://projects.eclipse.org/projects/cdi.batch

## Trademarks

Jakarta Dependency Injection is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Apache License, Version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

## Source Code

The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/injection-api
https://github.com/eclipse-ee4j/injection-spec
https://github.com/eclipse-ee4j/injection-tck

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

None


-------------- Separator --------------



Dependency: org.glassfish.hk2:hk2-api
Copyright: GlassFish
License: EPL 2.0 + GPL v.2 with CPE

 ./LICENSE.md

EPL 2.0 + GPL v.2 with CPE ( same as org.glassfish.hk2:hk2-locator)

-------------- Separator --------------

 ./NOTICE.md

(Notice same as org.glassfish.hk2:hk2-locator)

-------------- Separator --------------



Dependency: org.glassfish.hk2:hk2-utils
Copyright: GlassFish
License: EPL 2.0 + GPL v.2 with CPE

 ./LICENSE.md

EPL 2.0 + GPL v.2 with CPE ( same as org.glassfish.hk2:hk2-locator)

-------------- Separator --------------

 ./NOTICE.md

(Notice same as org.glassfish.hk2:hk2-locator)
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
-------------- Separator --------------


Dependency: org.glassfish.hk2.external:aopalliance-repackaged
Copyright: GlassFish
License: EPL 2.0 + GPL v.2 with CPE

 ./LICENSE.md

EPL 2.0 + GPL v.2 with CPE ( same as org.glassfish.hk2:hk2-locator)

-------------- Separator --------------

 ./NOTICE.md

(Notice same as org.glassfish.hk2:hk2-locator)

-------------- Separator --------------


Dependency: org.javassist:javassist
Copyright: Shigeru Chiba
License: Apache 2.0; LGPL v.2.1; MPL 1.1

 ./License.html

MOZILLA PUBLIC LICENSE
Version 1.1
1. Definitions.

1.0.1. "Commercial Use" means distribution or otherwise making the Covered Code
available to a third party.
1.1. ''Contributor'' means each entity that creates or contributes to the creation of
Modifications.

1.2. ''Contributor Version'' means the combination of the Original Code, prior
Modifications used by a Contributor, and the Modifications made by that particular
Contributor.

1.3. ''Covered Code'' means the Original Code or Modifications or the combination of the
Original Code and Modifications, in each case including portions thereof.

1.4. ''Electronic Distribution Mechanism'' means a mechanism generally accepted in the
software development community for the electronic transfer of data.

1.5. ''Executable'' means Covered Code in any form other than Source Code.

1.6. ''Initial Developer'' means the individual or entity identified as the Initial
Developer in the Source Code notice required by Exhibit A.

1.7. ''Larger Work'' means a work which combines Covered Code or portions thereof with
code not governed by the terms of this License.

1.8. ''License'' means this document.

1.8.1. "Licensable" means having the right to grant, to the maximum extent possible,
whether at the time of the initial grant or subsequently acquired, any and all of the
rights conveyed herein.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

1.9. ''Modifications'' means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:

A. Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.
B. Any new file that contains any part of the Original Code or previous Modifications.

1.10. ''Original Code'' means Source Code of computer software code which is described in the Source Code notice required by Exhibit A as Original Code, and which, at the time of its release under this License is not already Covered Code governed by this License.
1.10.1. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.11. ''Source Code'' means the preferred form of the Covered Code for making modifications to it, including all modules it contains, plus any associated interface definition files, scripts used to control compilation and installation of an Executable, or source code differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor's choice. The Source Code can be in a compressed or archival form, provided the appropriate decompression or de-archiving software is widely available for no charge.

1.12. "You'' (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License or a future version of this License issued under Section 6.1. For legal entities, "You'' includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control'' means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. Source Code License.
2.1. The Initial Developer Grant.
The Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license, subject to third party intellectual property claims:
(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer to use, reproduce, modify, display, perform, sublicense and distribute the Original Code (or portions thereof) with or without Modifications, and/or as part of a Larger Work; and
(b) under Patents Claims infringed by the making, using or selling of Original Code, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Code (or portions thereof).

(c) the licenses granted in this Section 2.1(a) and (b) are effective on the date Initial Developer first distributes Original Code under the terms of this License.
(d) Notwithstanding Section 2.1(b) above, no patent license is granted: 1) for code that You delete from the Original Code; 2) separate from the Original Code; or 3) for infringements caused by: i) the modification of the Original Code or ii) the combination of the Original Code with other software or devices.

2.2. Contributor Grant.
Subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor, to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof) either on an unmodified basis, with other Modifications, as Covered Code and/or as part of a Larger Work; and
(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version

Copyright © 2015, 2025, Oracle and/or its affiliates.

(or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: 1) Modifications made by that Contributor (or portions thereof); and 2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first makes Commercial Use of the Covered Code.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: 1) for any code that Contributor has deleted from the Contributor Version; 2) separate from the Contributor Version; 3) for infringements caused by: i) third party modifications of Contributor Version or ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or 4) under Patent Claims infringed by Covered Code in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Application of License.
The Modifications which You create or to which You contribute are governed by the terms of this License, including without limitation Section 2.2. The Source Code version of Covered Code may be distributed only under the terms of this License or a future version of this License released under Section 6.1, and You must include a copy of this License with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this License or the recipients' rights hereunder. However, You may include an additional document offering the additional rights described in Section 3.5.
3.2. Availability of Source Code.
Any Modification which You create or to which You contribute must be made available in Source Code form under the terms of this License either on the same media as an Executable version or via an accepted Electronic Distribution Mechanism to anyone to whom you made an Executable version available; and if made available via Electronic Distribution Mechanism, must remain available for at least twelve (12) months after the date it initially became available, or at least six (6) months after a subsequent version of that particular Modification has been made available to such recipients. You are responsible for ensuring that the Source Code version remains available even if the Electronic Distribution Mechanism is maintained by a third party.

3.3. Description of Modifications.
You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived, directly or indirectly, from Original Code provided by the Initial Developer and including the name of the Initial Developer in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code.

3.4. Intellectual Property Matters

(a) Third Party Claims.
If Contributor has knowledge that a license under a third party's intellectual property rights is required to exercise the rights granted by such Contributor under Sections 2.1 or 2.2, Contributor must include a text file with the Source Code distribution titled "LEGAL'' which describes the claim and the party making the claim in sufficient detail that a recipient will know whom to contact. If Contributor obtains such knowledge after the Modification is made available as described in Section 3.2, Contributor shall promptly modify the LEGAL file in all copies Contributor makes available thereafter and shall take other steps (such as notifying appropriate mailing lists or newsgroups) reasonably calculated to inform those who received the Covered Code that new knowledge has been obtained.
(b) Contributor APIs.

Copyright © 2015, 2025, Oracle and/or its affiliates.

If Contributor's Modifications include an application programming interface and Contributor has knowledge of patent licenses which are reasonably necessary to implement that API, Contributor must also include this information in the LEGAL file.

(c) Representations.
Contributor represents that, except as disclosed pursuant to Section 3.4(a) above, Contributor believes that Contributor's Modifications are Contributor's original creation(s) and/or Contributor has sufficient rights to grant the rights conveyed by this License.

3.5. Required Notices.
You must duplicate the notice in Exhibit A in each file of the Source Code. If it is not possible to put such notice in a particular Source Code file due to its structure, then You must include such notice in a location (such as a relevant directory) where a user would be likely to look for such a notice. If You created one or more Modification(s) You may add your name as a Contributor to the notice described in Exhibit A. You must also duplicate this License in any documentation for the Source Code where You describe recipients' rights or ownership rights relating to Covered Code. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Code. However, You may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear than any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.6. Distribution of Executable Versions.
You may distribute Covered Code in Executable form only if the requirements of Section 3.1-3.5 have been met for that Covered Code, and if You include a notice stating that the Source Code version of the Covered Code is available under the terms of this License, including a description of how and where You have fulfilled the obligations of Section 3.2. The notice must be conspicuously included in any notice in an Executable version, related documentation or collateral in which You describe recipients' rights relating to the Covered Code. You may distribute the Executable version of Covered Code or ownership rights under a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable version does not attempt to limit or alter the recipient's rights in the Source Code version from the rights set forth in this License. If You distribute the Executable version under a different license You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or any Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.7. Larger Works.
You may create a Larger Work by combining Covered Code with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.
If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Code due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be included in the LEGAL file described in Section 3.4 and must be included with all distributions of the Source Code. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.
5. Application of this License.

Copyright © 2015, 2025, Oracle and/or its affiliates.

This License applies to code to which the Initial Developer has attached the notice in Exhibit A and to related Covered Code.
6. Versions of the License.
6.1. New Versions.
Netscape Communications Corporation (''Netscape'') may publish revised and/or new versions of the License from time to time. Each version will be given a distinguishing version number.
6.2. Effect of New Versions.
Once Covered Code has been published under a particular version of the License, You may always continue to use it under the terms of that version. You may also choose to use such Covered Code under the terms of any subsequent version of the License published by Netscape. No one other than Netscape has the right to modify the terms applicable to Covered Code created under this License.

6.3. Derivative Works.
If You create or use a modified version of this License (which you may only do in order to apply it to code which is not already Covered Code governed by this License), You must (a) rename Your license so that the phrases ''Mozilla'', ''MOZILLAPL'', ''MOZPL'', ''Netscape'', "MPL", ''NPL'' or any confusingly similar phrase do not appear in your license (except to note that your license differs from this License) and (b) otherwise make it clear that Your version of the license contains terms which differ from the Mozilla Public License and Netscape Public License. (Filling in the name of the Initial Developer, Original Code or Contributor in the notice described in Exhibit A shall not of themselves be deemed to be modifications of this License.)

7. DISCLAIMER OF WARRANTY.
COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS'' BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.
8. TERMINATION.
8.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. All sublicenses to the Covered Code which are properly granted shall survive any termination of this License. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.
8.2. If You initiate litigation by asserting a patent infringement claim (excluding declatory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You file such action is referred to as "Participant") alleging that:

(a) such Participant's Contributor Version directly or indirectly infringes any patent, then any and all rights granted by such Participant to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively, unless if within 60 days after receipt of notice You either: (i) agree in writing to pay Participant a mutually agreeable reasonable royalty for Your past and future use of Modifications made by such Participant, or (ii) withdraw Your litigation claim with respect to the Contributor Version against such Participant. If within 60 days of notice, a reasonable royalty and payment arrangement are not mutually agreed upon in writing by the parties or the litigation claim is not withdrawn, the rights granted by Participant to You under Sections 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day notice period specified above.

(b) any software, hardware, or device, other than such Participant's Contributor Version, directly or indirectly infringes any patent, then any rights granted to You by such Participant under Sections 2.1(b) and 2.2(b) are revoked effective as of the date You first made, used, sold, distributed, or had made, Modifications made by that Participant.

Copyright © 2015, 2025, Oracle and/or its affiliates.

8.3. If You assert a patent infringement claim against Participant alleging that such Participant's Contributor Version directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or any distributor hereunder prior to termination shall survive termination.

9. LIMITATION OF LIABILITY.
UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.
10. U.S. GOVERNMENT END USERS.
The Covered Code is a ''commercial item,'' as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of ''commercial computer software'' and ''commercial computer software documentation,'' as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Code with only those rights set forth herein.
11. MISCELLANEOUS.
This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by California law provisions (except to the extent applicable law, if any, provides otherwise), excluding its conflict-of-law provisions. With respect to disputes in which at least one party is a citizen of, or an entity chartered or registered to do business in the United States of America, any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California, with venue lying in Santa Clara County, California, with the losing party responsible for costs, including without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License.
12. RESPONSIBILITY FOR CLAIMS.
As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.
13. MULTIPLE-LICENSED CODE.
Initial Developer may designate portions of the Covered Code as "Multiple-Licensed". "Multiple-Licensed" means that the Initial Developer permits you to utilize portions of the Covered Code under Your choice of the MPL or the alternative licenses, if any, specified by the Initial Developer in the file described in Exhibit A.

EXHIBIT A -Mozilla Public License.

The contents of this file are subject to the Mozilla Public License Version 1.1 (the "License"); you may not use this file except in compliance with the License. You may

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
obtain a copy of the License at
http://www.mozilla.org/MPL/
Software distributed under the License is distributed on an "AS IS" basis, WITHOUT
WARRANTY OF ANY KIND, either express or implied. See the License for the specific
language governing rights and limitations under the License.

The Original Code is Javassist.

The Initial Developer of the Original Code is Shigeru Chiba. Portions created by the
Initial Developer are
  Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

Contributor(s): __Bill Burke, Jason T. Greene_____________.

Alternatively, the contents of this software may be used under the terms of the GNU
Lesser General Public License Version 2.1 or later (the "LGPL"), or the Apache License
Version 2.0 (the "AL"), in which case the provisions of the LGPL or the AL are
applicable instead of those above. If you wish to allow use of your version of this
software only under the terms of either the LGPL or the AL, and not to allow others to
use your version of this software under the terms of the MPL, indicate your decision by
deleting the provisions above and replace them with the notice and other provisions
required by the LGPL or the AL. If you do not delete the provisions above, a recipient
may use your version of this software under the terms of any one of the MPL, the LGPL or
the AL.

If you obtain this software as part of JBoss, the contents of this software may be used
under only the terms of the LGPL. To use them under the MPL, you must obtain a separate
package including only Javassist but not the other part of JBoss.

All the contributors to the original source tree have agreed to the original license
term described above.

-------------- Separator --------------

 https://opensource.org/licenses/LGPL-2.1

GNU Lesser General Public License
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc. 59 Temple Place, Suite 330,
Boston, MA 02111-1307 USA Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor
of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble
The licenses for most software are designed to take away your freedom to share and
change it. By contrast, the GNU General Public Licenses are intended to guarantee your
freedom to share and change free software--to make sure the software is free for all its
users.

This license, the Lesser General Public License, applies to some specially designated
software packages--typically libraries--of the Free Software Foundation and other
authors who decide to use it. You can use it too, but we suggest you first think
carefully about whether this license or the ordinary General Public License is the
better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our
General Public Licenses are designed to make sure that you have the freedom to
distribute copies of free software (and charge for this service if you wish); that you
receive source code or can get it if you want it; that you can change the software and
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Copyright © 2015, 2025, Oracle and/or its affiliates.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure

Copyright © 2015, 2025, Oracle and/or its affiliates.

that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even

Copyright © 2015, 2025, Oracle and/or its affiliates.

though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a

Copyright © 2015, 2025, Oracle and/or its affiliates.

contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

Copyright © 2015, 2025, Oracle and/or its affiliates.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Libraries
If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and an idea of what it does.> Copyright (C) <year>

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
<name of author>

This library is free software; you can redistribute it and/or modify it under the terms
of the GNU Lesser General Public License as published by the Free Software Foundation;
either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY
WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A
PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this
library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite
330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any,
to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter
the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library
for tweaking knobs) written by James Random Hacker.

signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

-------------- Separator --------------
```

Eclipse Foundation - jersey-server License

```
------------------------------ Top-Level License ------------------------------
SPDX:Apache-2.0

---------------------------------- Copyright ----------------------------------
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Copyright (C) 2009 The Guava Authors
Copyright (C) 2009 The JSR-330 Expert Group
Copyright (C) <year> <name of author>
Copyright (C) year name of author
Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts Institute of
Technology, Institut National de Recherche en Informatique et en Automatique, Keio
University). All Rights Reserved. http://www.w3.org/Consortium/Legal/
Copyright (c) 2000-2011 INRIA, France Telecom
Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.
Copyright (c) 2010, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2010, 2019 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2010, 2020 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2010, 2021 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2010, 2022 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2010, 2023 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2011, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2011, 2019 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2011, 2020 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2011, 2021 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2011, 2022 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2011, 2023 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2011, 2024 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2012, 2018 Oracle and/or its affiliates. All rights reserved.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Copyright (c) 2012, 2019 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2012, 2020 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2012, 2021 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2012, 2022 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2012, 2023 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2012, 2024 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2013, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2013, 2019 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2013, 2020 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2013, 2021 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2013, 2022 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2014, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2014, 2019 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2014, 2022 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2014, 2023 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2015, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2015, 2019 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2015, 2022 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2017, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2017, 2021 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2017, 2024 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2018 Payara Foundation and/or its affiliates.
Copyright (c) 2020 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2021 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2021, 2022 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2023 Oracle and/or its affiliates. All rights reserved.
Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.
Copyright 2010, 2013 Coda Hale and Yammer, Inc.
Copyright 2010-2013 Coda Hale and Yammer, Inc.
Copyright 2015, 2021 Oracle and/or its affiliates. All rights reserved.

------------------------- Fourth Party Dependencies --------------------------

---------------------------------- Licenses ----------------------------------
-  Apache-2.0
-  BSD-3-Clause--modified-by-Google
-  EPL-2.0
-  GPL-2.0-with-classpath-exception

--------------------------------- (separator) --------------------------------

--------------------------------- (separator) --------------------------------

== Dependency
jakarta.annotation:jakarta.annotation-api

== License Type
# Eclipse Public License - v 2.0

        THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
        PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
        OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

    1. DEFINITIONS

    "Contribution" means:

      a) in the case of the initial Contributor, the initial content
         Distributed under this Agreement, and

      b) in the case of each subsequent Contributor:
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:
   i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

   ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

   iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

   iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the

Copyright © 2015, 2025, Oracle and/or its affiliates.

Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs

Copyright © 2015, 2025, Oracle and/or its affiliates.

or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    "This Source Code may also be made available under the following
    Secondary Licenses when the conditions for such availability set forth
    in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
    version(s), and exceptions or additional permissions here}."

      Simply including a copy of this Agreement, including this Exhibit A
      is not sufficient to license the Source Code under Secondary Licenses.

      If it is not possible or desirable to put the notice in a particular
      file, then You may include the notice in a location (such as a LICENSE
      file in a relevant directory) where a recipient would be likely to
      look for such a notice.

      You may add additional accurate notices of copyright ownership.

---

##    The GNU General Public License (GPL) Version 2, June 1991

    Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin Street, Fifth Floor
    Boston, MA 02110-1335
    USA

    Everyone is permitted to copy and distribute verbatim copies
    of this license document, but changing it is not allowed.

    Preamble

    The licenses for most software are designed to take away your freedom to
    share and change it. By contrast, the GNU General Public License is
    intended to guarantee your freedom to share and change free software--to
    make sure the software is free for all its users. This General Public
    License applies to most of the Free Software Foundation's software and
    to any other program whose authors commit to using it. (Some other Free
    Software Foundation software is covered by the GNU Library General
    Public License instead.) You can apply it to your programs, too.

    When we speak of free software, we are referring to freedom, not price.
    Our General Public Licenses are designed to make sure that you have the
    freedom to distribute copies of free software (and charge for this
    service if you wish), that you receive source code or can get it if you
    want it, that you can change the software or use pieces of it in new
    free programs; and that you know you can do these things.

    To protect your rights, we need to make restrictions that forbid anyone
    to deny you these rights or to ask you to surrender the rights. These
    restrictions translate to certain responsibilities for you if you
    distribute copies of the software, or if you modify it.

    For example, if you distribute copies of such a program, whether gratis
    or for a fee, you must give the recipients all the rights that you have.
    You must make sure that they, too, receive or can get the source code.
    And you must show them these terms so they know their rights.

    We protect your rights with two steps: (1) copyright the software, and
    (2) offer you this license which gives you legal permission to copy,
    distribute and/or modify the software.

    Also, for each author's protection and ours, we want to make certain
    that everyone understands that there is no warranty for this free
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

    c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these

Copyright © 2015, 2025, Oracle and/or its affiliates.

conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

Copyright © 2015, 2025, Oracle and/or its affiliates.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the

Copyright © 2015, 2025, Oracle and/or its affiliates.

limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
        it under the terms of the GNU General Public License as published by
        the Free Software Foundation; either version 2 of the License, or
        (at your option) any later version.

        This program is distributed in the hope that it will be useful, but
        WITHOUT ANY WARRANTY; without even the implied warranty of
        MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
        General Public License for more details.

        You should have received a copy of the GNU General Public License
        along with this program; if not, write to the Free Software
        Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

    Also add information on how to contact you by electronic and paper mail.

    If the program is interactive, make it output a short notice like this
    when it starts in an interactive mode:

        Gnomovision version 69, Copyright (C) year name of author
        Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
        `show w'. This is free software, and you are welcome to redistribute
        it under certain conditions; type `show c' for details.

    The hypothetical commands `show w' and `show c' should show the
    appropriate parts of the General Public License. Of course, the commands
    you use may be called something other than `show w' and `show c'; they
    could even be mouse-clicks or menu items--whatever suits your program.

    You should also get your employer (if you work as a programmer) or your
    school, if any, to sign a "copyright disclaimer" for the program, if
    necessary. Here is a sample; alter the names:

        Yoyodyne, Inc., hereby disclaims all copyright interest in the
        program `Gnomovision' (which makes passes at compilers) written by
        James Hacker.

        signature of Ty Coon, 1 April 1989
        Ty Coon, President of Vice

    This General Public License does not permit incorporating your program
    into proprietary programs. If your program is a subroutine library, you
    may consider it more useful to permit linking proprietary applications
    with the library. If this is what you want to do, use the GNU Library
    General Public License instead of this License.

---

## CLASSPATH EXCEPTION

    Linking this library statically or dynamically with other modules is
    making a combined work based on this library.  Thus, the terms and
    conditions of the GNU General Public License version 2 cover the whole
    combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
    modules, and to copy and distribute the resulting executable under
    terms of your choice, provided that you also meet, for each linked
    independent module, the terms and conditions of the license of that
    module.  An independent module is a module which is not derived from or
    based on this library.  If you modify this library, you may extend this
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    exception to your version of the library, but you are not obligated to
    do so.  If you do not wish to do so, delete this exception statement
    from your version.



== Copyright
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
Copyright (C) <year> <name of author>
Copyright (C) year name of author
Copyright (c) 2005, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2009, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

== Notices
# Notices for Jakarta Annotations

This content is produced and maintained by the Jakarta Annotations project.

 * Project home: https://projects.eclipse.org/projects/ee4j.ca

## Trademarks

Jakarta Annotations is a trademark of the Eclipse Foundation.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

 * https://github.com/eclipse-ee4j/common-annotations-api

## Third-party Content

## Cryptography

Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.


--------------------------------- (separator) ---------------------------------

== Dependency
jakarta.validation:jakarta.validation-api

== License Type
SPDX:Apache-2.0
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
== Copyright
(no copyright notices found)

-------------------------------- (separator) --------------------------------

== Dependency
jakarta.ws.rs:jakarta.ws.rs-api

== License Type
# Eclipse Public License - v 2.0

        THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
        PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
        OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

    1. DEFINITIONS

    "Contribution" means:

      a) in the case of the initial Contributor, the initial content
         Distributed under this Agreement, and

      b) in the case of each subsequent Contributor:
         i) changes to the Program, and
         ii) additions to the Program;
      where such changes and/or additions to the Program originate from
      and are Distributed by that particular Contributor. A Contribution
      "originates" from a Contributor if it was added to the Program by
      such Contributor itself or anyone acting on such Contributor's behalf.
      Contributions do not include changes or additions to the Program that
      are not Modified Works.

    "Contributor" means any person or entity that Distributes the Program.

    "Licensed Patents" mean patent claims licensable by a Contributor which
    are necessarily infringed by the use or sale of its Contribution alone
    or when combined with the Program.

    "Program" means the Contributions Distributed in accordance with this
    Agreement.

    "Recipient" means anyone who receives the Program under this Agreement
    or any Secondary License (as applicable), including Contributors.

    "Derivative Works" shall mean any work, whether in Source Code or other
    form, that is based on (or derived from) the Program and for which the
    editorial revisions, annotations, elaborations, or other modifications
    represent, as a whole, an original work of authorship.

    "Modified Works" shall mean any work in Source Code or other form that
    results from an addition to, deletion from, or modification of the
    contents of the Program, including, for purposes of clarity any new file
    in Source Code form that contains any contents of the Program. Modified
    Works shall not include works that contain only declarations,
    interfaces, types, classes, structures, or files of the Program solely
    in each case in order to link to, bind by name, or subclass the Program
    or Modified Works thereof.

    "Distribute" means the acts of a) distributing or b) making available
    in any manner that enables the transfer of a copy.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in
writing of such claim, and b) allow the Commercial Contributor to control,
and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    Everyone is permitted to copy and distribute copies of this Agreement,
    but in order to avoid inconsistency the Agreement is copyrighted and
    may only be modified in the following manner. The Agreement Steward
    reserves the right to publish new versions (including revisions) of
    this Agreement from time to time. No one other than the Agreement
    Steward has the right to modify this Agreement. The Eclipse Foundation
    is the initial Agreement Steward. The Eclipse Foundation may assign the
    responsibility to serve as the Agreement Steward to a suitable separate
    entity. Each new version of the Agreement will be given a distinguishing
    version number. The Program (including Contributions) may always be
    Distributed subject to the version of the Agreement under which it was
    received. In addition, after a new version of the Agreement is published,
    Contributor may elect to Distribute the Program (including its
    Contributions) under the new version.

    Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
    receives no rights or licenses to the intellectual property of any
    Contributor under this Agreement, whether expressly, by implication,
    estoppel or otherwise. All rights in the Program not expressly granted
    under this Agreement are reserved. Nothing in this Agreement is intended
    to be enforceable by any entity that is not a Contributor or Recipient.
    No third-party beneficiary rights are created under this Agreement.

    Exhibit A - Form of Secondary Licenses Notice

    "This Source Code may also be made available under the following
    Secondary Licenses when the conditions for such availability set forth
    in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
    version(s), and exceptions or additional permissions here}."

      Simply including a copy of this Agreement, including this Exhibit A
      is not sufficient to license the Source Code under Secondary Licenses.

      If it is not possible or desirable to put the notice in a particular
      file, then You may include the notice in a location (such as a LICENSE
      file in a relevant directory) where a recipient would be likely to
      look for such a notice.

      You may add additional accurate notices of copyright ownership.

---

##    The GNU General Public License (GPL) Version 2, June 1991

    Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin Street, Fifth Floor
    Boston, MA 02110-1335
    USA

    Everyone is permitted to copy and distribute verbatim copies
    of this license document, but changing it is not allowed.

    Preamble

    The licenses for most software are designed to take away your freedom to
    share and change it. By contrast, the GNU General Public License is
    intended to guarantee your freedom to share and change free software--to
    make sure the software is free for all its users. This General Public
    License applies to most of the Free Software Foundation's software and
    to any other program whose authors commit to using it. (Some other Free
    Software Foundation software is covered by the GNU Library General
    Public License instead.) You can apply it to your programs, too.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other

Copyright © 2015, 2025, Oracle and/or its affiliates.

recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium

Copyright © 2015, 2025, Oracle and/or its affiliates.

customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

Copyright © 2015, 2025, Oracle and/or its affiliates.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    This General Public License does not permit incorporating your program
    into proprietary programs. If your program is a subroutine library, you
    may consider it more useful to permit linking proprietary applications
    with the library. If this is what you want to do, use the GNU Library
    General Public License instead of this License.

---

## CLASSPATH EXCEPTION

    Linking this library statically or dynamically with other modules is
    making a combined work based on this library.  Thus, the terms and
    conditions of the GNU General Public License version 2 cover the whole
    combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
    modules, and to copy and distribute the resulting executable under
    terms of your choice, provided that you also meet, for each linked
    independent module, the terms and conditions of the license of that
    module.  An independent module is a module which is not derived from or
    based on this library.  If you modify this library, you may extend this
    exception to your version of the library, but you are not obligated to
    do so.  If you do not wish to do so, delete this exception statement
    from your version.



== Copyright
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
Copyright (C) <year> <name of author>
Copyright (C) year name of author
Copyright (c) 2006 Google Inc.
Copyright (c) 2010, 2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2011, 2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2011, 2019 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2012, 2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2012, 2019 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2013, 2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2015, 2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2017, 2018 Oracle and/or its affiliates. All rights reserved.

== Notices
# Notices for the Jakarta RESTful Web Services Project

This content is produced and maintained by the **Jakarta RESTful Web Services**
project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaxrs

## Trademarks

**Jakarta RESTful Web Services** is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxrs-api

## Third-party Content

This project leverages the following third party content.

javaee-api (7.0)

* License: Apache-2.0 AND W3C

JUnit (4.11)

* License: Common Public License 1.0

Mockito (2.16.0)

* Project: http://site.mockito.org
* Source: https://github.com/mockito/mockito/releases/tag/v2.16.0

## Cryptography

Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.



-------------------------------- (separator) ---------------------------------

== Dependency
jakarta.xml.bind:jakarta.xml.bind-api

== License Type

    Copyright (c) 2017, 2018 Oracle and/or its affiliates. All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:

      - Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    - Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.

    - Neither the name of the Eclipse Foundation, Inc. nor the names of its
      contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
  IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
  THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
  PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
  CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
  EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
  PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
  PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
  LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
  NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
  SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2003, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2003, 2019 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2003, 2020 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004, 2019 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2005, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2005, 2019 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2006, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2007, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2015, 2019 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2015, 2020 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2017, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2017, 2019 Oracle and/or its affiliates. All rights reserved.

--------------------------------- (separator) ---------------------------------

== Dependency
org.glassfish.hk2.external:jakarta.inject

== License Type
# Eclipse Public License - v 2.0

    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

  1. DEFINITIONS

  "Contribution" means:

    a) in the case of the initial Contributor, the initial content
       Distributed under this Agreement, and

    b) in the case of each subsequent Contributor:
       i) changes to the Program, and
       ii) additions to the Program;
    where such changes and/or additions to the Program originate from
    and are Distributed by that particular Contributor. A Contribution
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

"originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

Copyright © 2015, 2025, Oracle and/or its affiliates.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available

Copyright © 2015, 2025, Oracle and/or its affiliates.

under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

Copyright © 2015, 2025, Oracle and/or its affiliates.

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    version(s), and exceptions or additional permissions here}."

      Simply including a copy of this Agreement, including this Exhibit A
      is not sufficient to license the Source Code under Secondary Licenses.

      If it is not possible or desirable to put the notice in a particular
      file, then You may include the notice in a location (such as a LICENSE
      file in a relevant directory) where a recipient would be likely to
      look for such a notice.

      You may add additional accurate notices of copyright ownership.

---

##    The GNU General Public License (GPL) Version 2, June 1991

    Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin Street, Fifth Floor
    Boston, MA 02110-1335
    USA

    Everyone is permitted to copy and distribute verbatim copies
    of this license document, but changing it is not allowed.

    Preamble

    The licenses for most software are designed to take away your freedom to
    share and change it. By contrast, the GNU General Public License is
    intended to guarantee your freedom to share and change free software--to
    make sure the software is free for all its users. This General Public
    License applies to most of the Free Software Foundation's software and
    to any other program whose authors commit to using it. (Some other Free
    Software Foundation software is covered by the GNU Library General
    Public License instead.) You can apply it to your programs, too.

    When we speak of free software, we are referring to freedom, not price.
    Our General Public Licenses are designed to make sure that you have the
    freedom to distribute copies of free software (and charge for this
    service if you wish), that you receive source code or can get it if you
    want it, that you can change the software or use pieces of it in new
    free programs; and that you know you can do these things.

    To protect your rights, we need to make restrictions that forbid anyone
    to deny you these rights or to ask you to surrender the rights. These
    restrictions translate to certain responsibilities for you if you
    distribute copies of the software, or if you modify it.

    For example, if you distribute copies of such a program, whether gratis
    or for a fee, you must give the recipients all the rights that you have.
    You must make sure that they, too, receive or can get the source code.
    And you must show them these terms so they know their rights.

    We protect your rights with two steps: (1) copyright the software, and
    (2) offer you this license which gives you legal permission to copy,
    distribute and/or modify the software.

    Also, for each author's protection and ours, we want to make certain
    that everyone understands that there is no warranty for this free
    software. If the software is modified by someone else and passed on, we
    want its recipients to know that what they have is not the original, so
    that any problems introduced by others will not reflect on the original
    authors' reputations.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

    c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

Copyright © 2015, 2025, Oracle and/or its affiliates.

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will

Copyright © 2015, 2025, Oracle and/or its affiliates.

automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new

Copyright © 2015, 2025, Oracle and/or its affiliates.

versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
        This program is distributed in the hope that it will be useful, but
        WITHOUT ANY WARRANTY; without even the implied warranty of
        MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
        General Public License for more details.

        You should have received a copy of the GNU General Public License
        along with this program; if not, write to the Free Software
        Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

    Also add information on how to contact you by electronic and paper mail.

    If the program is interactive, make it output a short notice like this
    when it starts in an interactive mode:

        Gnomovision version 69, Copyright (C) year name of author
        Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
        `show w'. This is free software, and you are welcome to redistribute
        it under certain conditions; type `show c' for details.

    The hypothetical commands `show w' and `show c' should show the
    appropriate parts of the General Public License. Of course, the commands
    you use may be called something other than `show w' and `show c'; they
    could even be mouse-clicks or menu items--whatever suits your program.

    You should also get your employer (if you work as a programmer) or your
    school, if any, to sign a "copyright disclaimer" for the program, if
    necessary. Here is a sample; alter the names:

        Yoyodyne, Inc., hereby disclaims all copyright interest in the
        program `Gnomovision' (which makes passes at compilers) written by
        James Hacker.

        signature of Ty Coon, 1 April 1989
        Ty Coon, President of Vice

    This General Public License does not permit incorporating your program
    into proprietary programs. If your program is a subroutine library, you
    may consider it more useful to permit linking proprietary applications
    with the library. If this is what you want to do, use the GNU Library
    General Public License instead of this License.

---

## CLASSPATH EXCEPTION

    Linking this library statically or dynamically with other modules is
    making a combined work based on this library.  Thus, the terms and
    conditions of the GNU General Public License version 2 cover the whole
    combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
    modules, and to copy and distribute the resulting executable under
    terms of your choice, provided that you also meet, for each linked
    independent module, the terms and conditions of the license of that
    module.  An independent module is a module which is not derived from or
    based on this library.  If you modify this library, you may extend this
    exception to your version of the library, but you are not obligated to
    do so.  If you do not wish to do so, delete this exception statement
    from your version.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
== Copyright
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
Copyright (C) 2009 The JSR-330 Expert Group
Copyright (C) <year> <name of author>
Copyright (C) year name of author

== Notices
# Notices for Eclipse GlassFish

This content is produced and maintained by the Eclipse GlassFish project.

* Project home: https://projects.eclipse.org/projects/ee4j.glassfish

## Trademarks

Eclipse GlassFish, and GlassFish are trademarks of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
* https://github.com/eclipse-ee4j/glassfish-jsftemplating
* https://github.com/eclipse-ee4j/glassfish-hk2-extra
* https://github.com/eclipse-ee4j/glassfish-hk2
* https://github.com/eclipse-ee4j/glassfish-fighterfish

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

possession, or use, and re-export of encryption software, to see if this is permitted.

---------- (separator) ----------

== Dependency
org.glassfish.hk2:osgi-resource-locator

== License Type
Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and

b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

Copyright © 2015, 2025, Oracle and/or its affiliates.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily

Copyright © 2015, 2025, Oracle and/or its affiliates.

used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:
i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

Copyright © 2015, 2025, Oracle and/or its affiliates.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    Everyone is permitted to copy and distribute copies of this Agreement,
    but in order to avoid inconsistency the Agreement is copyrighted and
    may only be modified in the following manner. The Agreement Steward
    reserves the right to publish new versions (including revisions) of
    this Agreement from time to time. No one other than the Agreement
    Steward has the right to modify this Agreement. The Eclipse Foundation
    is the initial Agreement Steward. The Eclipse Foundation may assign the
    responsibility to serve as the Agreement Steward to a suitable separate
    entity. Each new version of the Agreement will be given a distinguishing
    version number. The Program (including Contributions) may always be
    Distributed subject to the version of the Agreement under which it was
    received. In addition, after a new version of the Agreement is published,
    Contributor may elect to Distribute the Program (including its
    Contributions) under the new version.

    Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
    receives no rights or licenses to the intellectual property of any
    Contributor under this Agreement, whether expressly, by implication,
    estoppel or otherwise. All rights in the Program not expressly granted
    under this Agreement are reserved. Nothing in this Agreement is intended
    to be enforceable by any entity that is not a Contributor or Recipient.
    No third-party beneficiary rights are created under this Agreement.

    Exhibit A - Form of Secondary Licenses Notice

    "This Source Code may also be made available under the following
    Secondary Licenses when the conditions for such availability set forth
    in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
    version(s), and exceptions or additional permissions here}."

      Simply including a copy of this Agreement, including this Exhibit A
      is not sufficient to license the Source Code under Secondary Licenses.

      If it is not possible or desirable to put the notice in a particular
      file, then You may include the notice in a location (such as a LICENSE
      file in a relevant directory) where a recipient would be likely to
      look for such a notice.

      You may add additional accurate notices of copyright ownership.

---

##    The GNU General Public License (GPL) Version 2, June 1991

    Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin Street, Fifth Floor
    Boston, MA 02110-1335
    USA

    Everyone is permitted to copy and distribute verbatim copies
    of this license document, but changing it is not allowed.

    Preamble

    The licenses for most software are designed to take away your freedom to
    share and change it. By contrast, the GNU General Public License is
    intended to guarantee your freedom to share and change free software--to
    make sure the software is free for all its users. This General Public
    License applies to most of the Free Software Foundation's software and
    to any other program whose authors commit to using it. (Some other Free
    Software Foundation software is covered by the GNU Library General
    Public License instead.) You can apply it to your programs, too.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other

Copyright © 2015, 2025, Oracle and/or its affiliates.

recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium

Copyright © 2015, 2025, Oracle and/or its affiliates.

customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

Copyright © 2015, 2025, Oracle and/or its affiliates.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    This General Public License does not permit incorporating your program
    into proprietary programs. If your program is a subroutine library, you
    may consider it more useful to permit linking proprietary applications
    with the library. If this is what you want to do, use the GNU Library
    General Public License instead of this License.

---

## CLASSPATH EXCEPTION

    Linking this library statically or dynamically with other modules is
    making a combined work based on this library.  Thus, the terms and
    conditions of the GNU General Public License version 2 cover the whole
    combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
    modules, and to copy and distribute the resulting executable under
    terms of your choice, provided that you also meet, for each linked
    independent module, the terms and conditions of the license of that
    module.  An independent module is a module which is not derived from or
    based on this library.  If you modify this library, you may extend this
    exception to your version of the library, but you are not obligated to
    do so.  If you do not wish to do so, delete this exception statement
    from your version.



== Copyright
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
Copyright (C) <year> <name of author>
Copyright (C) year name of author
Copyright (c) 2009, 2018 Oracle and/or its affiliates. All rights reserved.

-------------------------------- (separator) --------------------------------

-------------------------------- (separator) --------------------------------

-------------------------------- (separator) --------------------------------

== Dependency
org.osgi:org.osgi.core

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) OSGi Alliance (2000, 2013). All Rights Reserved.
Copyright (c) OSGi Alliance (2000, 2014). All Rights Reserved.
Copyright (c) OSGi Alliance (2001, 2013). All Rights Reserved.
Copyright (c) OSGi Alliance (2002, 2013). All Rights Reserved.
Copyright (c) OSGi Alliance (2004, 2013). All Rights Reserved.
Copyright (c) OSGi Alliance (2004, 2014). All Rights Reserved.
Copyright (c) OSGi Alliance (2005, 2013). All Rights Reserved.
Copyright (c) OSGi Alliance (2007, 2013). All Rights Reserved.
Copyright (c) OSGi Alliance (2007, 2014). All Rights Reserved.
Copyright (c) OSGi Alliance (2008, 2013). All Rights Reserved.
Copyright (c) OSGi Alliance (2008, 2014). All Rights Reserved.
Copyright (c) OSGi Alliance (2009, 2013). All Rights Reserved.
Copyright (c) OSGi Alliance (2010, 2012). All Rights Reserved.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Copyright (c) OSGi Alliance (2010, 2013). All Rights Reserved.
Copyright (c) OSGi Alliance (2010, 2014). All Rights Reserved.
Copyright (c) OSGi Alliance (2011, 2013). All Rights Reserved.
Copyright (c) OSGi Alliance (2012, 2013). All Rights Reserved.
Copyright (c) OSGi Alliance (2012, 2014). All Rights Reserved.
Copyright (c) OSGi Alliance (2014). All Rights Reserved.

---------------------------------- Licenses ----------------------------------

--------------------------------- (separator) ---------------------------------
== SPDX:Apache-2.0

For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.
```

Eclipse Foundation - jersey-media-multipart License

```
jersey-media-multipart 3.1.

Eclipse Public License - v 2.0
    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

Copyright © 2015, 2025, Oracle and/or its affiliates.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

  You may add additional accurate notices of copyright ownership.
The GNU General Public License (GPL) Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to

Copyright © 2015, 2025, Oracle and/or its affiliates.

make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

Copyright © 2015, 2025, Oracle and/or its affiliates.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

    c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

Copyright © 2015, 2025, Oracle and/or its affiliates.

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would

Copyright © 2015, 2025, Oracle and/or its affiliates.

not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.
CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.
--------------------------------------------------------------------------------
NOTICE

Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.

Project home: https://projects.eclipse.org/projects/ee4j.jersey
Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers. For more
information regarding authorship of content, please consult the listed source code
repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the terms of the
Eclipse Public License v. 2.0 which is available at http://www.eclipse.org/legal/
epl-2.0. This Source Code may also be made available under the following Secondary
Licenses when the conditions for such availability set forth in the Eclipse Public
License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU
Classpath Exception which is available at https://www.gnu.org/software/classpath/
license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jersey
Third-party Content
Angular JS, v1.6.6

License MIT (http://www.opensource.org/licenses/mit-license.php)
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Project: http://angularjs.org
Coyright: (c) 2010-2017 Google, Inc.
aopalliance Version 1

License: all the source code provided by AOP Alliance is Public Domain.
Project: http://aopalliance.sourceforge.net
Copyright: Material in the public domain is not protected by copyright
Bean Validation API 3.0.2

License: Apache License, 2.0
Project: https://projects.eclipse.org/projects/ee4j.bean-validation
Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual contributors
by the @authors tag.
Hibernate Validator CDI, 8.0.1.Final

License: Apache License, 2.0
Project: https://beanvalidation.org/
Repackaged in org.glassfish.jersey.server.validation.internal.hibernate
Bootstrap v3.3.7

License: MIT license (https://github.com/twbs/bootstrap/blob/master/LICENSE)
Project: http://getbootstrap.com
Copyright: 2011-2016 Twitter, Inc
Google Guava Version 18.0

License: Apache License, 2.0
Copyright (C) 2009 The Guava Authors
jakarta.inject Version: 1

License: Apache License, 2.0
Copyright (C) 2009 The JSR-330 Expert Group
Javassist Version 3.30.2-GA

License: Apache License, 2.0
Project: http://www.javassist.org/
Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Jackson JAX-RS Providers Version 2.17.0

License: Apache License, 2.0
Project: https://github.com/FasterXML/jackson-jaxrs-providers
Copyright: (c) 2009-2024 FasterXML, LLC. All rights reserved unless otherwise indicated.
jQuery v1.12.4

License: jquery.org/license
Project: jquery.org
Copyright: (c) jQuery Foundation
jQuery Barcode plugin 0.3

License: MIT & GPL (http://www.opensource.org/licenses/mit-license.php & http://
www.gnu.org/licenses/gpl.html)
Project: http://www.pasella.it/projects/jQuery/barcode
Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com
JSR-166 Extension - JEP 266

License: CC0
No copyright
Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and
released to the public domain, as explained at http://creativecommons.org/publicdomain/
zero/1.0/
KineticJS, v4.7.1

License: MIT license (http://www.opensource.org/licenses/mit-license.php)
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Project: http://www.kineticjs.com, https://github.com/ericdrowell/KineticJS
Copyright: Eric Rowell
org.objectweb.asm Version 9.7

License: Modified BSD (https://asm.ow2.io/license.html)
Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.
org.osgi.core version 6.0.0

License: Apache License, 2.0
Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.
org.glassfish.jersey.server.internal.monitoring.core

License: Apache License, 2.0
Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
Copyright 2010-2013 Coda Hale and Yammer, Inc.
W3.org documents

License: W3C License
Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts Institute
of Technology, Institut National de Recherche en Informatique et en Automatique, Keio
University). All Rights Reserved. http://www.w3.org/Consortium/Legal/
--------------------------------------------------------------------------------------
-----------------------------------------------
Fourth party dependencies:
org.glassfish.jersey.core » jersey-common    3.1.7

EPL 2.0
GPL2 w/ CPE
-------------------------------------------------------------------------------
jakarta.annotation » jakarta.annotation-api
EPL 2.0
GPL2 w/ CPE
Copyright (c) 2012, 2022 Oracle and/or its affiliates. All rights reserved.

Notice.txt
Notices for Jakarta Annotations
This content is produced and maintained by the Jakarta Annotations project.

Project home: https://projects.eclipse.org/projects/ee4j.ca
Trademarks
Jakarta Annotations is a trademark of the Eclipse Foundation.

Declared Project Licenses
This program and the accompanying materials are made available under the terms of the
Eclipse Public License v. 2.0 which is available at http://www.eclipse.org/legal/
epl-2.0. This Source Code may also be made available under the following Secondary
Licenses when the conditions for such availability set forth in the Eclipse Public
License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU
Classpath Exception which is available at https://www.gnu.org/software/classpath/
license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/common-annotations-api
Third-party Content
Cryptography
Content may contain encryption software. The country in which you are currently may have
restrictions on the import, possession, and use, and/or re-export to another country, of
encryption software. BEFORE using any encryption software, please check the country's
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
laws, regulations and policies concerning the import, possession, or use, and re-export
of encryption software, to see if this is permitted.
-----------------------------------------------
jakarta.ws.rs » jakarta.ws.rs-api
EPL 2.0
GPL2 w/ CPE
Copyright (c) 2011, 2019 Oracle and/or its affiliates. All rights reserved.

Notice.txt
Notices for Jakarta RESTful Web Services
This content is produced and maintained by the Jakarta RESTful Web Services project.

Project home: https://projects.eclipse.org/projects/ee4j.jaxrs
Trademarks
Jakarta RESTful Web Services is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers. For more
information regarding authorship of content, please consult the listed source code
repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the terms of the
Eclipse Public License v. 2.0 which is available at http://www.eclipse.org/legal/
epl-2.0. This Source Code may also be made available under the following Secondary
Licenses when the conditions for such availability set forth in the Eclipse Public
License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU
Classpath Exception which is available at https://www.gnu.org/software/classpath/
license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jaxrs-api
Third-party Content
This project leverages the following third party content.

javaee-api (7.0)

License: Apache-2.0 AND W3C
JUnit (4.11)

License: Common Public License 1.0
Mockito (2.16.0)

Project: http://site.mockito.org
Source: https://github.com/mockito/mockito/releases/tag/v2.16.0
Cryptography
Content may contain encryption software. The country in which you are currently may have
restrictions on the import, possession, and use, and/or re-export to another country, of
encryption software. BEFORE using any encryption software, please check the country's
laws, regulations and policies concerning the import, possession, or use, and re-export
of encryption software, to see if this is permitted.

-------------------------------------------
jakarta.inject:jakarta.inject-api

For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.
---------------------------
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
NOTICE
Notices for Eclipse Jakarta Dependency Injection
This content is produced and maintained by the Eclipse Jakarta Dependency Injection
project.

Project home: https://projects.eclipse.org/projects/cdi.batch
Trademarks
Jakarta Dependency Injection is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers. For more
information regarding authorship of content, please consult the listed source code
repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the terms of the
Apache License, Version 2.0 which is available at https://www.apache.org/licenses/
LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/injection-api https://github.com/eclipse-ee4j/injection-
spec https://github.com/eclipse-ee4j/injection-tck

Third-party Content
This project leverages the following third party content.

None

Cryptography
None
--------------------------------------------------------------------------------
-------------
org.glassfish.hk2 » osgi-resource-locator
EPL 2.0
GPL2 w/ CPE

Copyright (c) 2009, 2018 Oracle and/or its affiliates. All rights reserved.

Notice.txt
Notices for Eclipse GlassFish
This content is produced and maintained by the Eclipse GlassFish project.

Project home: https://projects.eclipse.org/projects/ee4j.glassfish
Trademarks
Eclipse GlassFish, and GlassFish are trademarks of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers. For more
information regarding authorship of content, please consult the listed source code
repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the terms of the
Eclipse Public License v. 2.0 which is available at http://www.eclipse.org/legal/
epl-2.0. This Source Code may also be made available under the following Secondary
Licenses when the conditions for such availability set forth in the Eclipse Public
License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU
Classpath Exception which is available at https://www.gnu.org/software/classpath/
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/glassfish-ha-api
https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
https://github.com/eclipse-ee4j/glassfish-shoal
https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
https://github.com/eclipse-ee4j/glassfish-jsftemplating
https://github.com/eclipse-ee4j/glassfish-hk2-extra
Third-party Content
This project leverages the following third party content.

None

Cryptography
Content may contain encryption software. The country in which you are currently may have
restrictions on the import, possession, and use, and/or re-export to another country, of
encryption software. BEFORE using any encryption software, please check the country's
laws, regulations and policies concerning the import, possession, or use, and re-export
of encryption software, to see if this is permitted.
--------------------------------------------------------------------------------
org.jvnet.mimepull » mimepull    1.9.15

Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are
permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of
conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of
conditions and the following disclaimer in the documentation and/or other materials
provided with the distribution.

Neither the name of the Eclipse Foundation, Inc. nor the names of its contributors may
be used to endorse or promote products derived from this software without specific prior
written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL
THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NOTICE
Notices for Eclipse Metro
This content is produced and maintained by the Eclipse Metro project.

Project home: https://projects.eclipse.org/projects/ee4j.metro
Trademarks
Eclipse Metro is a trademark of the Eclipse Foundation.

Copyright
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
All content is the property of the respective authors or their employers. For more
information regarding authorship of content, please consult the listed source code
repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the terms of the
Eclipse Distribution License v. 1.0 which is available at http://www.eclipse.org/org/
documents/edl-v10.php.

SPDX-License-Identifier: BSD-3-Clause

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/metro-xmlstreambuffer
https://github.com/eclipse-ee4j/metro-policy
https://github.com/eclipse-ee4j/metro-wsit
https://github.com/eclipse-ee4j/metro-mimepull
https://github.com/eclipse-ee4j/metro-ws-test-harness
https://github.com/eclipse-ee4j/metro-package-rename-task
https://github.com/eclipse-ee4j/metro-jax-ws
https://github.com/eclipse-ee4j/metro-saaj
https://github.com/eclipse-ee4j/metro-jwsdp-samples
https://github.com/eclipse-ee4j/jax-rpc-ri
Third-party Content
This project leverages the following third party content.

addressing.xml Version: 2004/10 (n/a)

License: W3C
Project: https://www.w3.org/Submission/ws-addressing/
Source: http://schemas.xmlsoap.org/ws/2004/08/addressing/
ant-launcher (1.10.2)

License: Apache-2.0 AND SAX-PD AND W3C
Project: https://ant.apache.org/
Source: http://central.maven.org/maven2/org/apache/ant/ant-launcher/1.10.2/ant-
launcher-1.10.2-sources.jar
Apache Ant (1.6)

License: Apache-1.1
Project: https://ant.apache.org/
Source: https://repo1.maven.org/maven2/ant/ant/1.6/ant-1.6-sources.jar
Apache Ant (1.10.2)

License: Apache-2.0 AND W3C AND LicenseRef-Public-Domain
commons-logging (1.1.2)

License: Apache-2.0
Project: https://commons.apache.org/proper/commons-logging/
Source: http://central.maven.org/maven2/commons-logging/commons-logging/1.1.2/commons-
logging-1.1.2-sources.jar
JUnit (4.12)

License: Eclipse Public License
maven-core (3.5.2)

License: Apache-2.0
maven-plugin-annotations (3.5.1)

License: Apache-2.0
Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/project-info.html
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Source: https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-
plugin-annotations
maven-plugin-api (3.5.2)

License: Apache-2.0
Project: https://maven.apache.org/
Source: https://github.com/apache/maven/tree/master/maven-plugin-api
maven-resolver-api (1.1.1)

License: Apache-2.0
maven-resolver-util (1.1.1)

License: Apache-2.0
maven-settings (3.5.2)

License: Apache-2.0
mex.xsd Version: 2004/09 (n/a)

License: Oasis Style
Project: https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II
Source: http://schemas.xmlsoap.org/ws/2004/09/mex/MetadataExchange.xsd
plexus-utils (3.1.0)

License: Apache- 2.0 or Apache- 1.1 or BSD or Public Domain or Indiana University
Extreme! Lab Software License V1.1.1 (Apache 1.1 style)
relaxng-datatype (1.0)

License: New BSD license
stax2-api (4.1)

License: Pending
Project: https://github.com/FasterXML/stax2-api
Source: http://central.maven.org/maven2/org/codehaus/woodstox/stax2-api/4.1/stax2-
api-4.1-sources.jar
testng (6.14.2)

License: Apache-2.0 AND MIT
Project: https://testng.org/doc/index.html
Source: https://github.com/cbeust/testng
woodstox-core-asl (4.4.1)

License: Apache-2.0
woodstox-core-asl (5.1.0)

License: Pending
Project: https://github.com/FasterXML/woodstox
Source: https://github.com/FasterXML/woodstox
ws-addr.wsd (1.0)

License: W3C
Project: https://www.w3.org/2005/08/addressing/
Source: https://www.w3.org/2006/03/addressing/ws-addr.xsd
wsat.xsd Version: 2004/10 (n/a)

License: Oasis Style
Project: http://schemas.xmlsoap.org/ws/2004/10/wsat/
Source: http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd
wscoor.xsd (1.0)

License: OASIS Style
wscoor.xsd (1.1)
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
License: Oasis (Custom)
Project: http://docs.oasis-open.org/ws-tx/wscoor/2006/06
Source: http://docs.oasis-open.org/ws-tx/wscoor/2006/06/wstx-wscoor-1.1-schema-200701.xsd
wsrm Version: 2005/02 (n/a)

License: Oasis (Custom)
Project: http://schemas.xmlsoap.org/ws/2005/02/rm/
Source: http://schemas.xmlsoap.org/ws/2005/02/rm/wsrm.xsd;%20http://
schemas.xmlsoap.org/ws/2005/02/rm/wsrm-policy.xsd
wsrm.xsd (1.2)

License: Oasis
wstx-wsat.xsd (1.1)

License: Oasis (Custom)
xmlsec (1.5.8)

License: Apache-2.0
Project: http://santuario.apache.org/
Source: https://repo1.maven.org/maven2/org/apache/santuario/xmlsec/1.5.8/xmlsec-1.5.8-
sources.jar
Cryptography
Content may contain encryption software. The country in which you are currently may have
restrictions on the import, possession, and use, and/or re-export to another country, of
encryption software. BEFORE using any encryption software, please check the country's
laws, regulations and policies concerning the import, possession, or use, and re-export
of encryption software, to see if this is permitted.
--------------------------------------------------------------------------------------
-----------------------------------------------
```

Eclipse Foundation - Jakarta Annotations API License

```
Jakarta Annotations API (jakarta.annotation:jakarta.annotation-api)

/*
 * Copyright (c) 2012, 2024 Oracle and/or its affiliates. All rights reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v. 2.0, which is available at
 * http://www.eclipse.org/legal/epl-2.0.
 *
 * This Source Code may also be made available under the following Secondary
 * Licenses when the conditions for such availability set forth in the
 * Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
 * version 2 with the GNU Classpath Exception, which is available at
 * https://www.gnu.org/software/classpath/license.html.
 *
 * SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 */

--------------------------------------------------------------------------------------
--
# Notices for Jakarta Annotations

This content is produced and maintained by the Jakarta Annotations project.

* Project home: https://projects.eclipse.org/projects/ee4j.ca

## Trademarks

Jakarta Annotations™ is a trademark of the Eclipse Foundation.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
## Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
https://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
GPL-2.0 with Classpath-exception-2.0 which is available at
https://openjdk.java.net/legal/gplv2+ce.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0-only with Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/jakartaee/common-annotations-api

## Cryptography

Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.
-------------------------------------------------------------------------
Eclipse Public License - v 2.0

    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual

Copyright © 2015, 2025, Oracle and/or its affiliates.

property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:
i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

Copyright © 2015, 2025, Oracle and/or its affiliates.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Copyright © 2015, 2025, Oracle and/or its affiliates.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

Copyright © 2015, 2025, Oracle and/or its affiliates.

You may add additional accurate notices of copyright ownership.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

Copyright © 2015, 2025, Oracle and/or its affiliates.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of

Copyright © 2015, 2025, Oracle and/or its affiliates.

this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code. (This alternative is
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are

Copyright © 2015, 2025, Oracle and/or its affiliates.

prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions

Copyright © 2015, 2025, Oracle and/or its affiliates.

either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program
  `Gnomovision' (which makes passes at compilers) written by James Hacker.

  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.
```

Eclipse Foundation - jersey-common License

```
------------------------------ Top-level license -------------------------
.

EPL 2.0 / GPL v2 with classpath exception

# Eclipse Public License - v 2.0
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:
   i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

   ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special,

Copyright © 2015, 2025, Oracle and/or its affiliates.

incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

Copyright © 2015, 2025, Oracle and/or its affiliates.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published,

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    Contributor may elect to Distribute the Program (including its
    Contributions) under the new version.

    Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
    receives no rights or licenses to the intellectual property of any
    Contributor under this Agreement, whether expressly, by implication,
    estoppel or otherwise. All rights in the Program not expressly granted
    under this Agreement are reserved. Nothing in this Agreement is intended
    to be enforceable by any entity that is not a Contributor or Recipient.
    No third-party beneficiary rights are created under this Agreement.

    Exhibit A - Form of Secondary Licenses Notice

    "This Source Code may also be made available under the following
    Secondary Licenses when the conditions for such availability set forth
    in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
    version(s), and exceptions or additional permissions here}."

      Simply including a copy of this Agreement, including this Exhibit A
      is not sufficient to license the Source Code under Secondary Licenses.

      If it is not possible or desirable to put the notice in a particular
      file, then You may include the notice in a location (such as a LICENSE
      file in a relevant directory) where a recipient would be likely to
      look for such a notice.

      You may add additional accurate notices of copyright ownership.

---

##    The GNU General Public License (GPL) Version 2, June 1991

    Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin Street, Fifth Floor
    Boston, MA 02110-1335
    USA

    Everyone is permitted to copy and distribute verbatim copies
    of this license document, but changing it is not allowed.

    Preamble

    The licenses for most software are designed to take away your freedom to
    share and change it. By contrast, the GNU General Public License is
    intended to guarantee your freedom to share and change free software--to
    make sure the software is free for all its users. This General Public
    License applies to most of the Free Software Foundation's software and
    to any other program whose authors commit to using it. (Some other Free
    Software Foundation software is covered by the GNU Library General
    Public License instead.) You can apply it to your programs, too.

    When we speak of free software, we are referring to freedom, not price.
    Our General Public Licenses are designed to make sure that you have the
    freedom to distribute copies of free software (and charge for this
    service if you wish), that you receive source code or can get it if you
    want it, that you can change the software or use pieces of it in new
    free programs; and that you know you can do these things.

    To protect your rights, we need to make restrictions that forbid anyone
    to deny you these rights or to ask you to surrender the rights. These
    restrictions translate to certain responsibilities for you if you
    distribute copies of the software, or if you modify it.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

Copyright © 2015, 2025, Oracle and/or its affiliates.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control

Copyright © 2015, 2025, Oracle and/or its affiliates.

compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to

Copyright © 2015, 2025, Oracle and/or its affiliates.

the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    possible use to the public, the best way to achieve this is to make it
    free software which everyone can redistribute and change under these terms.

    To do so, attach the following notices to the program. It is safest to
    attach them to the start of each source file to most effectively convey
    the exclusion of warranty; and each file should have at least the
    "copyright" line and a pointer to where the full notice is found.

        One line to give the program's name and a brief idea of what it does.
        Copyright (C) <year> <name of author>

        This program is free software; you can redistribute it and/or modify
        it under the terms of the GNU General Public License as published by
        the Free Software Foundation; either version 2 of the License, or
        (at your option) any later version.

        This program is distributed in the hope that it will be useful, but
        WITHOUT ANY WARRANTY; without even the implied warranty of
        MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
        General Public License for more details.

        You should have received a copy of the GNU General Public License
        along with this program; if not, write to the Free Software
        Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

    Also add information on how to contact you by electronic and paper mail.

    If the program is interactive, make it output a short notice like this
    when it starts in an interactive mode:

        Gnomovision version 69, Copyright (C) year name of author
        Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
        `show w'. This is free software, and you are welcome to redistribute
        it under certain conditions; type `show c' for details.

    The hypothetical commands `show w' and `show c' should show the
    appropriate parts of the General Public License. Of course, the commands
    you use may be called something other than `show w' and `show c'; they
    could even be mouse-clicks or menu items--whatever suits your program.

    You should also get your employer (if you work as a programmer) or your
    school, if any, to sign a "copyright disclaimer" for the program, if
    necessary. Here is a sample; alter the names:

        Yoyodyne, Inc., hereby disclaims all copyright interest in the
        program `Gnomovision' (which makes passes at compilers) written by
        James Hacker.

        signature of Ty Coon, 1 April 1989
        Ty Coon, President of Vice

    This General Public License does not permit incorporating your program
    into proprietary programs. If your program is a subroutine library, you
    may consider it more useful to permit linking proprietary applications
    with the library. If this is what you want to do, use the GNU Library
    General Public License instead of this License.

---

## CLASSPATH EXCEPTION

    Linking this library statically or dynamically with other modules is
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    making a combined work based on this library.  Thus, the terms and
    conditions of the GNU General Public License version 2 cover the whole
    combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
    modules, and to copy and distribute the resulting executable under
    terms of your choice, provided that you also meet, for each linked
    independent module, the terms and conditions of the license of that
    module.  An independent module is a module which is not derived from or
    based on this library.  If you modify this library, you may extend this
    exception to your version of the library, but you are not obligated to
    do so.  If you do not wish to do so, delete this exception statement
    from your version.


.
------------------------------ Copyright notices -------------------------
.

Jersey

# Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.

*  Project home: https://projects.eclipse.org/projects/ee4j.jersey

## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

## Third-party Content

Angular JS, v1.6.6
* License MIT (http://www.opensource.org/licenses/mit-license.php)
* Project: http://angularjs.org
* Coyright: (c) 2010-2017 Google, Inc.

aopalliance Version 1
* License: all the source code provided by AOP Alliance is Public Domain.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
* Project: http://aopalliance.sourceforge.net
* Copyright: Material in the public domain is not protected by copyright

Bean Validation API 2.0.2
* License: Apache License, 2.0
* Project: http://beanvalidation.org/1.1/
* Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual contributors
* by the @authors tag.

Hibernate Validator CDI, 6.2.5.Final
* License: Apache License, 2.0
* Project: https://beanvalidation.org/
* Repackaged in org.glassfish.jersey.server.validation.internal.hibernate

Bootstrap v3.3.7
* License: MIT license (https://github.com/twbs/bootstrap/blob/master/LICENSE)
* Project: http://getbootstrap.com
* Copyright: 2011-2016 Twitter, Inc

Google Guava Version 18.0
* License: Apache License, 2.0
* Copyright (C) 2009 The Guava Authors

javax.inject Version: 1
* License: Apache License, 2.0
* Copyright (C) 2009 The JSR-330 Expert Group

Javassist Version 3.30.2-GA
* License: Apache License, 2.0
* Project: http://www.javassist.org/
* Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

Jackson JAX-RS Providers Version 2.17.0
* License: Apache License, 2.0
* Project: https://github.com/FasterXML/jackson-jaxrs-providers
* Copyright: (c) 2009-2024 FasterXML, LLC. All rights reserved unless otherwise
indicated.

jQuery v1.12.4
* License: jquery.org/license
* Project: jquery.org
* Copyright: (c) jQuery Foundation

jQuery Barcode plugin 0.3
* License: MIT & GPL (http://www.opensource.org/licenses/mit-license.php & http://
www.gnu.org/licenses/gpl.html)
* Project:  http://www.pasella.it/projects/jQuery/barcode
* Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com

JSR-166 Extension - JEP 266
* License: CC0
* No copyright
* Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and
released to the public domain, as explained at http://creativecommons.org/publicdomain/
zero/1.0/

KineticJS, v4.7.1
* License: MIT license (http://www.opensource.org/licenses/mit-license.php)
* Project: http://www.kineticjs.com, https://github.com/ericdrowell/KineticJS
* Copyright: Eric Rowell

org.objectweb.asm Version 9.7
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
* License: Modified BSD (https://asm.ow2.io/license.html)
* Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.

org.osgi.core version 6.0.0
* License: Apache License, 2.0
* Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.

org.glassfish.jersey.server.internal.monitoring.core
* License: Apache License, 2.0
* Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
* Copyright 2010-2013 Coda Hale and Yammer, Inc.

W3.org documents
* License: W3C License
* Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts Institute
of Technology, Institut National de Recherche en Informatique et en Automatique, Keio
University). All Rights Reserved. http://www.w3.org/Consortium/Legal/

.
---------------------------- Fourth-party information ----------------------

== NAME OF DEPENDENCY
.
jakarta.ws.rs:jakarta.ws.rs-api
jakarta.annotation:jakarta.annotation-api
org.glassfish.hk2:osgi-resource-locator
.
== License
.
EPL 2.0 / GPL
.
== Notice
.
jakarta.ws.rs:jakarta.ws.rs-api
.
# Notices for the Jakarta RESTful Web Services Project

This content is produced and maintained by the **Jakarta RESTful Web Services**
project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaxrs

## Trademarks

**Jakarta RESTful Web Services** is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxrs-api

## Third-party Content

This project leverages the following third party content.

javaee-api (7.0)

* License: Apache-2.0 AND W3C

JUnit (4.11)

* License: Common Public License 1.0

Mockito (2.16.0)

* Project: http://site.mockito.org
* Source: https://github.com/mockito/mockito/releases/tag/v2.16.0

## Cryptography

Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.
.
jakarta.annotation:jakarta.annotation-api
.
# Notices for Jakarta Annotations

This content is produced and maintained by the Jakarta Annotations project.

 * Project home: https://projects.eclipse.org/projects/ee4j.ca

## Trademarks

Jakarta Annotations is a trademark of the Eclipse Foundation.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
 * https://github.com/eclipse-ee4j/common-annotations-api

## Third-party Content

## Cryptography

Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

--------------------------------(separator)--------------------------------

== NAME OF DEPENDENCY
.
jakarta.inject:jakarta.inject-api
.
== License
.
Apache 2.0
.
For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

== Notice

# Notices for Eclipse Jakarta Dependency Injection

This content is produced and maintained by the Eclipse Jakarta Dependency Injection
project.

* Project home: https://projects.eclipse.org/projects/cdi.batch

## Trademarks

Jakarta Dependency Injection is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Apache License, Version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

## Source Code

The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/injection-api
https://github.com/eclipse-ee4j/injection-spec
https://github.com/eclipse-ee4j/injection-tck

## Third-party Content
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
This project leverages the following third party content.

None

## Cryptography

None

--------------------------------(separator)--------------------------------
```

Eclipse Foundation - jersey-client License

```
Wherever there is an election between the EPL 2.0 and GPL 2.0 + CPE, Oracle elects to
use such program under the terms of the EPL 2.0.

Top level Component : jersey-client
    ==================================
    Copyright (c) 2010, 2022 Oracle and/or its affiliates. All rights reserved.

    # Notice for Jersey
    This content is produced and maintained by the Eclipse Jersey project.

    *  Project home: https://projects.eclipse.org/projects/ee4j.jersey

    ## Trademarks
    Eclipse Jersey is a trademark of the Eclipse Foundation.

    ## Copyright

    All content is the property of the respective authors or their employers. For
    more information regarding authorship of content, please consult the listed
    source code repository logs.

    ## Declared Project Licenses

    This program and the accompanying materials are made available under the terms
    of the Eclipse Public License v. 2.0 which is available at
    http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
    available under the following Secondary Licenses when the conditions for such
    availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
    General Public License, version 2 with the GNU Classpath Exception which is
    available at https://www.gnu.org/software/classpath/license.html.

    SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

    ## Source Code
    The project maintains the following source code repositories:

    * https://github.com/eclipse-ee4j/jersey

    ## Third-party Content

    Angular JS, v1.6.6
    * License MIT (http://www.opensource.org/licenses/mit-license.php)
    * Project: http://angularjs.org
    * Coyright: (c) 2010-2017 Google, Inc.

    aopalliance Version 1
    * License: all the source code provided by AOP Alliance is Public Domain.
    * Project: http://aopalliance.sourceforge.net
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    * Copyright: Material in the public domain is not protected by copyright

    Bean Validation API 3.0.2
    * License: Apache License, 2.0
    * Project: https://projects.eclipse.org/projects/ee4j.bean-validation
    * Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual contributors
    * by the @authors tag.

    Hibernate Validator CDI, 8.0.1.Final
    * License: Apache License, 2.0
    * Project: https://beanvalidation.org/
    * Repackaged in org.glassfish.jersey.server.validation.internal.hibernate

    Bootstrap v3.3.7
    * License: MIT license (https://github.com/twbs/bootstrap/blob/master/LICENSE)
    * Project: http://getbootstrap.com
    * Copyright: 2011-2016 Twitter, Inc

    Google Guava Version 18.0
    * License: Apache License, 2.0
    * Copyright (C) 2009 The Guava Authors

    jakarta.inject Version: 1
    * License: Apache License, 2.0
    * Copyright (C) 2009 The JSR-330 Expert Group

    Javassist Version 3.29.2-GA
    * License: Apache License, 2.0
    * Project: http://www.javassist.org/
    * Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

    Jackson JAX-RS Providers Version 2.15.3
    * License: Apache License, 2.0
    * Project: https://github.com/FasterXML/jackson-jaxrs-providers
    * Copyright: (c) 2009-2023 FasterXML, LLC. All rights reserved unless otherwise
indicated.

    jQuery v1.12.4
    * License: jquery.org/license
    * Project: jquery.org
    * Copyright: (c) jQuery Foundation

    jQuery Barcode plugin 0.3
    * License: MIT & GPL (http://www.opensource.org/licenses/mit-license.php & http://
www.gnu.org/licenses/gpl.html)
    * Project:  http://www.pasella.it/projects/jQuery/barcode
    * Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com

    JSR-166 Extension - JEP 266
    * License: CC0
    * No copyright
    * Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and
released to the public domain, as explained at http://creativecommons.org/publicdomain/
zero/1.0/

    KineticJS, v4.7.1
    * License: MIT license (http://www.opensource.org/licenses/mit-license.php)
    * Project: http://www.kineticjs.com, https://github.com/ericdrowell/KineticJS
    * Copyright: Eric Rowell

    org.objectweb.asm Version 9.6
    * License: Modified BSD (https://asm.ow2.io/license.html)
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    * Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.

    org.osgi.core version 6.0.0
    * License: Apache License, 2.0
    * Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.

    org.glassfish.jersey.server.internal.monitoring.core
    * License: Apache License, 2.0
    * Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
    * Copyright 2010-2013 Coda Hale and Yammer, Inc.

    W3.org documents
    * License: W3C License
    * Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts
Institute of Technology, Institut National de Recherche en Informatique et en
Automatique, Keio University).
    * All Rights Reserved. http://www.w3.org/Consortium/Legal/
    License
    -------
    EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

    Eclipse Public License - v 2.0
        THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
        PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
        OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
    1. DEFINITIONS
    "Contribution" means:
      a) in the case of the initial Contributor, the initial content
         Distributed under this Agreement, and
      b) in the case of each subsequent Contributor:
         i) changes to the Program, and
         ii) additions to the Program;
      where such changes and/or additions to the Program originate from
      and are Distributed by that particular Contributor. A Contribution
      "originates" from a Contributor if it was added to the Program by
      such Contributor itself or anyone acting on such Contributor's behalf.
      Contributions do not include changes or additions to the Program that
      are not Modified Works.
    "Contributor" means any person or entity that Distributes the Program.
    "Licensed Patents" mean patent claims licensable by a Contributor which
    are necessarily infringed by the use or sale of its Contribution alone
    or when combined with the Program.
    "Program" means the Contributions Distributed in accordance with this
    Agreement.
    "Recipient" means anyone who receives the Program under this Agreement
    or any Secondary License (as applicable), including Contributors.
    "Derivative Works" shall mean any work, whether in Source Code or other
    form, that is based on (or derived from) the Program and for which the
    editorial revisions, annotations, elaborations, or other modifications
    represent, as a whole, an original work of authorship.
    "Modified Works" shall mean any work in Source Code or other form that
    results from an addition to, deletion from, or modification of the
    contents of the Program, including, for purposes of clarity any new file
    in Source Code form that contains any contents of the Program. Modified
    Works shall not include works that contain only declarations,
    interfaces, types, classes, structures, or files of the Program solely
    in each case in order to link to, bind by name, or subclass the Program
    or Modified Works thereof.
    "Distribute" means the acts of a) distributing or b) making available
    in any manner that enables the transfer of a copy.
    "Source Code" means the form of a Program preferred for making
    modifications, including but not limited to software source code,
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

documentation source, and configuration files.
"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.
b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.
d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.
e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).
3. REQUIREMENTS
3.1 If a Contributor Distributes the Program in any form, then:
a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and
b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:
i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
iii) does not attempt to limit or alter the recipients' rights

Copyright © 2015, 2025, Oracle and/or its affiliates.

in the Source Code under section 3.2; and
iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:
a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and
b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

Copyright © 2015, 2025, Oracle and/or its affiliates.

6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.
Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.
Exhibit A - Form of Secondary Licenses Notice
"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."
  Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.
  If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
      You may add additional accurate notices of copyright ownership.


================================================================================
==
    4th party dependencies
    ----------------------
           org.glassfish.jersey.core » jersey-common    [EPL 2.0 + GPL v.2 with CPE]
    #01       jakarta.inject » jakarta.inject-api    [Apache 2.0]
    #02    jakarta.ws.rs » jakarta.ws.rs-api     [EPL 2.0 + GPL v.2 with CPE]
    #03    jakarta.annotation » jakarta.annotation-api [EPL 2.0 / GPL2 w CPE]
    #04    org.glassfish.hk2 » osgi-resource-locator [EPL 2.0 / GPL2 w
CPE]
================================================================================
==

    #01 Notices for Eclipse Jakarta Dependency Injection
    ---------------------------------------------------
    This content is produced and maintained by the Eclipse Jakarta Dependency Injection
project.
    Project home: https://projects.eclipse.org/projects/cdi.batch
    Trademarks
    Jakarta Dependency Injection is a trademark of the Eclipse Foundation.
    Copyright
    All content is the property of the respective authors or their employers. For more
information
    regarding authorship of content, please consult the listed source code repository
logs.
    Declared Project Licenses
    This program and the accompanying materials are made available under the terms of
the Apache License, Version 2.0
    which is available at https://www.apache.org/licenses/LICENSE-2.0.
    SPDX-License-Identifier: Apache-2.0
    Source Code
    The project maintains the following source code repositories:
    https://github.com/eclipse-ee4j/injection-api https://github.com/eclipse-ee4j/
injection-spec https://github.com/eclipse-ee4j/injection-tck
    Third-party Content
    This project leverages the following third party content.
    None
    Cryptography
    None

    #02 Notices for Jakarta RESTful Web Services
    --------------------------------------------
    This content is produced and maintained by the Jakarta RESTful Web Services project.
    Project home: https://projects.eclipse.org/projects/ee4j.jaxrs
    Trademarks
    Jakarta RESTful Web Services is a trademark of the Eclipse Foundation.
    Copyright
    All content is the property of the respective authors or their employers. For more
information
    regarding authorship of content, please consult the listed source code repository
logs.
    Declared Project Licenses
    This program and the accompanying materials are made available under the terms of
the
    Eclipse Public License v. 2.0 which is available at http://www.eclipse.org/legal/
epl-2.0.
    This Source Code may also be made available under the following Secondary Licenses
when the
    conditions for such availability set forth in the Eclipse Public License v. 2.0 are
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
satisfied:
    GNU General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.
    SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
    Source Code
    The project maintains the following source code repositories:
    https://github.com/eclipse-ee4j/jaxrs-api
    Third-party Content
    This project leverages the following third party content.
    javaee-api (7.0)
    License: Apache-2.0 AND W3C
    JUnit (4.11)
    License: Common Public License 1.0
    Mockito (2.16.0)
    Project: http://site.mockito.org
    Source: https://github.com/mockito/mockito/releases/tag/v2.16.0
    Cryptography
    Content may contain encryption software. The country in which you are currently may
have restrictions
    on the import, possession, and use, and/or re-export to another country, of
encryption software.
    BEFORE using any encryption software, please check the country's laws, regulations
and policies concerning
    the import, possession, or use, and re-export of encryption software, to see if this
is permitted.


#03 Notice for Jakarta Annotations API
-------------------------------------
Notices for Jakarta Annotations
This content is produced and maintained by the Jakarta Annotations project.
Project home: https://projects.eclipse.org/projects/ee4j.ca
Trademarks
Jakarta Annotations is a trademark of the Eclipse Foundation.
Declared Project Licenses
This program and the accompanying materials are made available under the terms of the
Eclipse Public License v. 2.0 which is available at http://www.eclipse.org/legal/
epl-2.0. This Source Code may also be made available under the following Secondary
Licenses when the conditions for such availability set forth in the Eclipse Public
License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU
Classpath Exception which is available at https://www.gnu.org/software/classpath/
license.html.
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
/*
 * Copyright (c) 2005, 2018 Oracle and/or its affiliates. All rights reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v. 2.0, which is available at
 * http://www.eclipse.org/legal/epl-2.0.
 *
 * This Source Code may also be made available under the following Secondary
 * Licenses when the conditions for such availability set forth in the
 * Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
 * version 2 with the GNU Classpath Exception, which is available at
 * https://www.gnu.org/software/classpath/license.html.
 *
 * SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 */
== License
EPL 2.0 / GPL2 w CPE
#04 Notice for osgi-resource-locator
------------------------------------
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
org.glassfish.hk2
# Notices for Eclipse GlassFish
This content is produced and maintained by the Eclipse GlassFish project.
* Project home: https://projects.eclipse.org/projects/ee4j.glassfish
## Trademarks
Eclipse GlassFish, and GlassFish are trademarks of the Eclipse Foundation.
## Copyright
All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.
## Declared Project Licenses
This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
## Source Code
The project maintains the following source code repositories:
* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
* https://github.com/eclipse-ee4j/glassfish-jsftemplating
* https://github.com/eclipse-ee4j/glassfish-hk2-extra
* https://github.com/eclipse-ee4j/glassfish-hk2
* https://github.com/eclipse-ee4j/glassfish-fighterfish
## Third-party Content
This project leverages the following third party content.
None
## Cryptography
Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.
== License
EPL 2.0 / GPL2 w CPE

================================================================================
==
For a copy of the license, see Apache Software Foundation Licenses, Version
    2.0.
================================================================================
==
```

Eclipse Foundation - Jetty License

```
Oracle elects to use Jetty under the terms of the Apache 2.0 license.

########## MAIN component is licensed under EPL and Apache 2.0 License ####

########################### LICENSE for MAIN component ##############

This program and the accompanying materials are made available under the
terms of the Eclipse Public License 1.0 which is available at
https://www.eclipse.org/org/documents/epl-1.0/EPL-1.0.txt
or the Apache Software License 2.0 which is available at
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
https://www.apache.org/licenses/LICENSE-2.0

For a copy of the license, see Apache Software Foundation Licenses, Version
    2.0.

SPDX-License-Identifier: EPL-2.0 OR Apache-2.0


########################### END OF LICENSE for MAIN component ##############



########################### NOTICE.txt for MAIN component ##############

Notices for Eclipse Jetty
=========================
This content is produced and maintained by the Eclipse Jetty project.

Project home: https://www.eclipse.org/jetty/

Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.

Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).

Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:

  * the Eclipse Public License v. 1.0
    http://www.eclipse.org/legal/epl-v10.html
    SPDX-License-Identifier: EPL-1.0

  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0.
    SPDX-License-Identifier: Apache-2.0

The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

If ALPN is used to negotiate HTTP/2 connections, then the following
distribution may be included in the distribution or downloaded when ALPN
module is selected. These artifacts replace/modify OpenJDK classes.
The modifications are hosted at github and both modified and original
are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

 * java.sun.security.ssl

The following dependencies are licensed by the OW2 Foundation according to the
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed.  Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * org.eclipse.jetty.toolchain:jetty-schemas

Cryptography
------------
Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.

############################ END OF NOTICE.txt for MAIN component ##############



########################License for 4th party component ASM ##############
##################License for 4th party component ASM-COOMON ##############

https://asm.ow2.io/license.html

License
ASM is released under the following 3-Clause BSD License:

ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

#########License.txt of 4th party component SLF4J-API ##############################

Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

###### License.txt of 4th party component org.conscrypt:conscrypt-openjdk-uber ######

License: Apache 2.0

Notice:

Copyright 2016 The Android Open Source Project

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

-----------------------------------------------------------------------
This product contains a modified portion of `Netty`, a configurable network
stack in Java, which can be obtained at:

  * LICENSE:
    * licenses/LICENSE.netty.txt (Apache License 2.0)
  * HOMEPAGE:
    * http://netty.io/

This product contains a modified portion of `Apache Harmony`, modular Java runtime,
which can be obtained at:

  * LICENSE:
    * licenses/LICENSE.harmony.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://harmony.apache.org/
=======================================================================
```

Eclipse Foundation - hk2-api License

```
Oracle elects to use hk2-api under the terms of the EPL 2.0.

------------------------------ Top-level license -------------------------
.

EPL 2.0 / GPL v2 with classpath exception

# Eclipse Public License - v 2.0

        THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
        PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
        OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

    1. DEFINITIONS

    "Contribution" means:

      a) in the case of the initial Contributor, the initial content
         Distributed under this Agreement, and

      b) in the case of each subsequent Contributor:
         i) changes to the Program, and
         ii) additions to the Program;
      where such changes and/or additions to the Program originate from
      and are Distributed by that particular Contributor. A Contribution
      "originates" from a Contributor if it was added to the Program by
      such Contributor itself or anyone acting on such Contributor's behalf.
      Contributions do not include changes or additions to the Program that
      are not Modified Works.

    "Contributor" means any person or entity that Distributes the Program.

    "Licensed Patents" mean patent claims licensable by a Contributor which
    are necessarily infringed by the use or sale of its Contribution alone
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby

Copyright © 2015, 2025, Oracle and/or its affiliates.

assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:
i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add

Copyright © 2015, 2025, Oracle and/or its affiliates.

their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Copyright © 2015, 2025, Oracle and/or its affiliates.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
      You may add additional accurate notices of copyright ownership.

---

.
------------------------------ Copyright notices -------------------------
.

hk2

# Notices for Eclipse GlassFish

This content is produced and maintained by the Eclipse GlassFish project.

* Project home: https://projects.eclipse.org/projects/ee4j.glassfish

## Trademarks

Eclipse GlassFish, and GlassFish are trademarks of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
* https://github.com/eclipse-ee4j/glassfish-jsftemplating
* https://github.com/eclipse-ee4j/glassfish-hk2-extra
* https://github.com/eclipse-ee4j/glassfish-hk2
* https://github.com/eclipse-ee4j/glassfish-fighterfish

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

.
---------------------------- Fourth-party information ----------------------

== NAME OF DEPENDENCY
.
jakarta.inject:jakarta.inject-api
.
== License
.
For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.
.
== Copyright Notice
.
jakarta.inject:jakarta.inject-api
.

# Notices for Eclipse Jakarta Dependency Injection

This content is produced and maintained by the Eclipse Jakarta Dependency Injection
project.

* Project home: https://projects.eclipse.org/projects/cdi.batch

## Trademarks

Jakarta Dependency Injection is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Apache License, Version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

## Source Code

The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/injection-api
https://github.com/eclipse-ee4j/injection-spec
https://github.com/eclipse-ee4j/injection-tck

## Third-party Content

This project leverages the following third party content.

None

## Cryptography
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
None
.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
.
org.glassfish.hk2:hk2-utils
jakarta.annotation:jakarta.annotation-api
org.glassfish.hk2.external:aopalliance-repackaged
.
== License
.
EPL 2.0 / GPL
.
== Copyright Notice
.
jakarta.annotation:jakarta.annotation-api
.
# Notices for Jakarta Annotations

This content is produced and maintained by the Jakarta Annotations project.

 * Project home: https://projects.eclipse.org/projects/ee4j.ca

## Trademarks

Jakarta Annotations is a trademark of the Eclipse Foundation.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

 * https://github.com/eclipse-ee4j/common-annotations-api

## Third-party Content

## Cryptography

Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.
.

--------------------------------(separator)--------------------------------
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

FasterXML, LLC - jackson-module-afterburner License

```
jackson-module-afterburner

------------------------------ Top-level license -------------------------
For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

Additional licensing information exists for following 3rd party library dependencies

### ASM

ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.
------------------------------ Copyright notices -------------------------
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components (as well their dependencies) may be licensed under
different licenses.
To find the details that apply to this artifact see the accompanying LICENSE file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

---------------------------- Fourth-party information ----------------------
== jackson-core
== License
Apache 2.0
== Copyright Notices
Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
--------------------------------(separator)--------------------------------
== jackson-databind
== License
Apache 2.0
== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
--------------------------------(separator)--------------------------------
== jackson-annotations
== License
== Copyright Notices
Apache 2.0
/*
 * Copyright 2007-present the original author or authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

FasterXML, LLC - Jackson Annotations License

```
jackson-annotations

For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
```

FasterXML, LLC - Jackson Databind License

```
------------------------------ Top-level license -------------------------

For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

## Credits
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.


--------------------------- Fourth-party information ----------------------

== com.fasterxml.jackson.core:jackson-annotations
.
== License

Apache License Version 2.0

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

-------------------------------------------------------------------------------

== com.fasterxml.jackson.core:jackson-core
.
== License

Apache License Version 2.0

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

## FastDoubleParser

jackson-core bundles a shaded copy of FastDoubleParser <https://github.com/wrandelshofer/
FastDoubleParser>.
That code is available under an MIT license <https://github.com/wrandelshofer/
FastDoubleParser/blob/main/LICENSE>
under the following copyright.

Copyright © 2023 Werner Randelshofer, Switzerland. MIT License.

See FastDoubleParser-NOTICE for details of other source code included in FastDoubleParser
and the licenses and copyrights that apply to that code.
---------------------------------------------------------------------------

== ch.randelshofer:fastdoubleparser
.
== License

MIT License

Copyright (c) 2023 Werner Randelshofer, Switzerland.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

== Copyright Notices

# FastDoubleParser

This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and BigInteger values.

## Copyright

Copyright © 2023 Werner Randelshofer, Switzerland.

## Licensing

This code is licensed under MIT License.
https://github.com/wrandelshofer/FastDoubleParser/blob/
522be16e145f43308c43b23094e31d5efcaa580e/LICENSE
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
(The file 'LICENSE' is included in the sources and classes Jar files that are released
by this project
- as is required by that license.)

Some portions of the code have been derived from other projects.
All these projects require that we include a copyright notice, and some require that we
also include some text of their
license file.

fast_double_parser, Copyright (c) 2022 Daniel Lemire. BSL License.
https://github.com/lemire/fast_double_parser
https://github.com/lemire/fast_double_parser/blob/
07d9189a8fb815fe800cb15ca022e7a07093236e/LICENSE.BSL
(The file 'thirdparty-LICENSE' is included in the sources and classes Jar files that are
released by this project
- as is required by that license.)

fast_float, Copyright (c) 2021 The fast_float authors. MIT License.
https://github.com/fastfloat/fast_float
https://github.com/fastfloat/fast_float/blob/cc1e01e9eee74128e48d51488a6b1df4a767a810/
LICENSE-MIT
(The file 'thirdparty-LICENSE' is included in the sources and classes Jar files that are
released by this project
- as is required by that license.)

bigint, Copyright 2020 Tim Buktu. 2-clause BSD License.
https://github.com/tbuktu/bigint/tree/floatfft
https://github.com/tbuktu/bigint/blob/617c8cd8a7c5e4fb4d919c6a4d11e2586107f029/LICENSE
https://github.com/wrandelshofer/FastDoubleParser/blob/
39e123b15b71f29a38a087d16a0bc620fc879aa6/bigint-LICENSE
(We only use those portions of the bigint project that can be licensed under 2-clause
BSD License.)
(The file 'thirdparty-LICENSE' is included in the sources and classes Jar files that are
released by this project
- as is required by that license.)

--------------------------------------------------------------------------------
```

FasterXML, LLC - jackson-datatype-jdk8 License

```
==License
For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

------------------------------ Copyright notices -------------------------
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
from the source code management (SCM) system project uses.

---------------------------- Fourth-party information ----------------------
== jackson-core
== License:
Apache 2.0
== Copyright Notices:
Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

## FastDoubleParser

jackson-core bundles a shaded copy of FastDoubleParser <https://github.com/wrandelshofer/
FastDoubleParser>.
That code is available under an MIT license <https://github.com/wrandelshofer/
FastDoubleParser/blob/main/LICENSE>
under the following copyright.

Copyright © 2023 Werner Randelshofer, Switzerland. MIT License.

See FastDoubleParser-NOTICE for details of other source code included in FastDoubleParser
and the licenses and copyrights that apply to that code.
---------------------------------(separator)---------------------------------
---------------------------- Fourth-party information ----------------------
== jackson-databind
== License:
Apache 2.0
== Copyright Notices:
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)--------------------------------
== jackson-annotations
== License:
Apache 2.0
== Copyright Notices:
Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)--------------------------------
== ch.randelshofer » fastdoubleparser
== License:
                MIT License

        Copyright (c) 2021 Werner Randelshofer, Switzerland.

        Permission is hereby granted, free of charge, to any person obtaining a copy
        of this software and associated documentation files (the "Software"), to deal
        in the Software without restriction, including without limitation the rights
        to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
        copies of the Software, and to permit persons to whom the Software is
        furnished to do so, subject to the following conditions:

        The above copyright notice and this permission notice shall be included in all
        copies or substantial portions of the Software.

        THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
        IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
        FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
        AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
        LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
        OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
        SOFTWARE.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
== Copyright Notices:

        # FastDoubleParser

        This is a Java port of Daniel Lemire's fast_float project.
        This project provides parsers for double, float, BigDecimal and BigInteger
values.

        ## Copyright

        Copyright © 2023 Werner Randelshofer, Switzerland.

        ## Licensing

        This code is licensed under MIT License.
        https://github.com/wrandelshofer/FastDoubleParser/blob/
522be16e145f43308c43b23094e31d5efcaa580e/LICENSE
        (The file 'LICENSE' is included in the sources and classes Jar files that are
released by this project
        - as is required by that license.)

        Some portions of the code have been derived from other projects.
        All these projects require that we include a copyright notice, and some require
that we also include some text of their
        license file.

        fast_double_parser, Copyright (c) 2022 Daniel Lemire. Apache 2.0 License.
        https://github.com/fastfloat/fast_float
        https://github.com/fastfloat/fast_float/blob/
dc88f6f882ac7eb8ec3765f633835cb76afa0ac2/LICENSE-APACHE

        fast_float, Copyright (c) 2021 The fast_float authors. Apache 2.0 License.
        https://github.com/fastfloat/fast_float
        https://github.com/lemire/fast_double_parser/blob/
07d9189a8fb815fe800cb15ca022e7a07093236e/LICENSE

        bigint, Copyright 2020 Tim Buktu. 2-clause BSD License.
        https://github.com/tbuktu/bigint/tree/floatfft
        https://github.com/tbuktu/bigint/blob/617c8cd8a7c5e4fb4d919c6a4d11e2586107f029/
LICENSE
        https://github.com/wrandelshofer/FastDoubleParser/blob/
39e123b15b71f29a38a087d16a0bc620fc879aa6/bigint-LICENSE
        (We only use those portions of the bigint project that can be licensed under 2-
clause BSD License.)
        (The file 'bigint-LICENSE' is included in the sources and classes Jar files that
are released by this project
        - as is required by that license.)
```

FasterXML, LLC - Jackson Core License

```
jackson-core

For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

   Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi

   # Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

## FastDoubleParser

jackson-core bundles a shaded copy of FastDoubleParser <https://github.com/wrandelshofer/
FastDoubleParser>.
That code is available under an MIT license <https://github.com/wrandelshofer/
FastDoubleParser/blob/main/LICENSE>
under the following copyright.

Copyright © 2023 Werner Randelshofer, Switzerland. MIT License.

See FastDoubleParser-NOTICE for details of other source code included in FastDoubleParser
and the licenses and copyrights that apply to that code.
--------------------------------------------------------------------------------
--------------------
Fourth Party Dependency

== Dependency
fastdoubleparser

==License:
MIT License

Copyright (c) 2023 Werner Randelshofer, Switzerland.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

== Notice:
# FastDoubleParser
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and BigInteger values.

## Copyright

Copyright © 2023 Werner Randelshofer, Switzerland.

## Licensing

This code is licensed under MIT License.
https://github.com/wrandelshofer/FastDoubleParser/blob/
522be16e145f43308c43b23094e31d5efcaa580e/LICENSE
(The file 'LICENSE' is included in the sources and classes Jar files that are released
by this project
- as is required by that license.)

Some portions of the code have been derived from other projects.
All these projects require that we include a copyright notice, and some require that we
also include some text of their
license file.

fast_double_parser, Copyright (c) 2022 Daniel Lemire. Apache 2.0 License.
https://github.com/fastfloat/fast_float
https://github.com/fastfloat/fast_float/blob/dc88f6f882ac7eb8ec3765f633835cb76afa0ac2/
LICENSE-APACHE

fast_float, Copyright (c) 2021 The fast_float authors. Apache 2.0 License.
https://github.com/fastfloat/fast_float
https://github.com/lemire/fast_double_parser/blob/
07d9189a8fb815fe800cb15ca022e7a07093236e/LICENSE

bigint, Copyright 2020 Tim Buktu. 2-clause BSD License.
https://github.com/tbuktu/bigint/tree/floatfft
https://github.com/tbuktu/bigint/blob/617c8cd8a7c5e4fb4d919c6a4d11e2586107f029/LICENSE
https://github.com/wrandelshofer/FastDoubleParser/blob/
39e123b15b71f29a38a087d16a0bc620fc879aa6/bigint-LICENSE
(We only use those portions of the bigint project that can be licensed under 2-clause
BSD License.)
(The file 'bigint-LICENSE' is included in the sources and classes Jar files that are
released by this project
- as is required by that license.)
------------------------------------------------------------------------------------------
--------------------------------
```

GlassFish - hk2-utils License

```
------------------------------ Top-Level License ------------------------------
Eclipse Public License - v 2.0
The GNU General Public License (GPL) Version 2, June 1991

---------------------------------- Copyright ----------------------------------
Copyright (c) 2007, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2012, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2013, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2014, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2015, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2015, 2019 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2016, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2017, 2018 Oracle and/or its affiliates. All rights reserved.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
------------------------- Fourth Party Dependencies -------------------------

---------------------------------- Licenses ----------------------------------

-  Eclipse Public License - v 2.0


-------------------------------- (separator) --------------------------------

== Dependency
jakarta.annotation:jakarta.annotation-api

== License Type
Eclipse Public License - v 2.0

== Copyright
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
Copyright (c) 2005, 2020 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2009, 2020 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2018, 2020 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2020 Oracle and/or its affiliates. All rights reserved.

== Notices
# Notices for Jakarta Annotations

This content is produced and maintained by the Jakarta Annotations project.

 * Project home: https://projects.eclipse.org/projects/ee4j.ca

## Trademarks

Jakarta Annotations is a trademark of the Eclipse Foundation.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

 * https://github.com/eclipse-ee4j/common-annotations-api

## Third-party Content

## Cryptography

Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
--------------------------------- (separator) ---------------------------------

== Dependency
jakarta.inject:jakarta.inject-api

== License Type
Eclipse Public License - v 2.0

== Copyright
Copyright (C) 2009 The JSR-330 Expert Group

== Notices
# Notices for Eclipse Jakarta Dependency Injection

This content is produced and maintained by the Eclipse Jakarta Dependency Injection
project.

* Project home: https://projects.eclipse.org/projects/cdi.batch

## Trademarks

Jakarta Dependency Injection is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Apache License, Version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

## Source Code

The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/injection-api
https://github.com/eclipse-ee4j/injection-spec
https://github.com/eclipse-ee4j/injection-tck

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

None

--------------------------------- Licenses ---------------------------------
 Eclipse Public License - v 2.0

        THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
        PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
        OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such

Copyright © 2015, 2025, Oracle and/or its affiliates.

Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights

Copyright © 2015, 2025, Oracle and/or its affiliates.

in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT

Copyright © 2015, 2025, Oracle and/or its affiliates.

PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
    receives no rights or licenses to the intellectual property of any
    Contributor under this Agreement, whether expressly, by implication,
    estoppel or otherwise. All rights in the Program not expressly granted
    under this Agreement are reserved. Nothing in this Agreement is intended
    to be enforceable by any entity that is not a Contributor or Recipient.
    No third-party beneficiary rights are created under this Agreement.

    Exhibit A - Form of Secondary Licenses Notice

    "This Source Code may also be made available under the following
    Secondary Licenses when the conditions for such availability set forth
    in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
    version(s), and exceptions or additional permissions here}."

      Simply including a copy of this Agreement, including this Exhibit A
      is not sufficient to license the Source Code under Secondary Licenses.

      If it is not possible or desirable to put the notice in a particular
      file, then You may include the notice in a location (such as a LICENSE
      file in a relevant directory) where a recipient would be likely to
      look for such a notice.

      You may add additional accurate notices of copyright ownership.

---

##    The GNU General Public License (GPL) Version 2, June 1991

    Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin Street, Fifth Floor
    Boston, MA 02110-1335
    USA

    Everyone is permitted to copy and distribute verbatim copies
    of this license document, but changing it is not allowed.

    Preamble

    The licenses for most software are designed to take away your freedom to
    share and change it. By contrast, the GNU General Public License is
    intended to guarantee your freedom to share and change free software--to
    make sure the software is free for all its users. This General Public
    License applies to most of the Free Software Foundation's software and
    to any other program whose authors commit to using it. (Some other Free
    Software Foundation software is covered by the GNU Library General
    Public License instead.) You can apply it to your programs, too.

    When we speak of free software, we are referring to freedom, not price.
    Our General Public Licenses are designed to make sure that you have the
    freedom to distribute copies of free software (and charge for this
    service if you wish), that you receive source code or can get it if you
    want it, that you can change the software or use pieces of it in new
    free programs; and that you know you can do these things.

    To protect your rights, we need to make restrictions that forbid anyone
    to deny you these rights or to ask you to surrender the rights. These
    restrictions translate to certain responsibilities for you if you
    distribute copies of the software, or if you modify it.

    For example, if you distribute copies of such a program, whether gratis
    or for a fee, you must give the recipients all the rights that you have.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part

Copyright © 2015, 2025, Oracle and/or its affiliates.

thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major

Copyright © 2015, 2025, Oracle and/or its affiliates.

components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

Copyright © 2015, 2025, Oracle and/or its affiliates.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    To do so, attach the following notices to the program. It is safest to
    attach them to the start of each source file to most effectively convey
    the exclusion of warranty; and each file should have at least the
    "copyright" line and a pointer to where the full notice is found.

        One line to give the program's name and a brief idea of what it does.
        Copyright (C) <year> <name of author>

        This program is free software; you can redistribute it and/or modify
        it under the terms of the GNU General Public License as published by
        the Free Software Foundation; either version 2 of the License, or
        (at your option) any later version.

        This program is distributed in the hope that it will be useful, but
        WITHOUT ANY WARRANTY; without even the implied warranty of
        MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
        General Public License for more details.

        You should have received a copy of the GNU General Public License
        along with this program; if not, write to the Free Software
        Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

    Also add information on how to contact you by electronic and paper mail.

    If the program is interactive, make it output a short notice like this
    when it starts in an interactive mode:

        Gnomovision version 69, Copyright (C) year name of author
        Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
        `show w'. This is free software, and you are welcome to redistribute
        it under certain conditions; type `show c' for details.

    The hypothetical commands `show w' and `show c' should show the
    appropriate parts of the General Public License. Of course, the commands
    you use may be called something other than `show w' and `show c'; they
    could even be mouse-clicks or menu items--whatever suits your program.

    You should also get your employer (if you work as a programmer) or your
    school, if any, to sign a "copyright disclaimer" for the program, if
    necessary. Here is a sample; alter the names:

        Yoyodyne, Inc., hereby disclaims all copyright interest in the
        program `Gnomovision' (which makes passes at compilers) written by
        James Hacker.

        signature of Ty Coon, 1 April 1989
        Ty Coon, President of Vice

    This General Public License does not permit incorporating your program
    into proprietary programs. If your program is a subroutine library, you
    may consider it more useful to permit linking proprietary applications
    with the library. If this is what you want to do, use the GNU Library
    General Public License instead of this License.

---

## CLASSPATH EXCEPTION

    Linking this library statically or dynamically with other modules is
    making a combined work based on this library.  Thus, the terms and
    conditions of the GNU General Public License version 2 cover the whole
    combination.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.
```

Glen Smith - OpenCSV License

```
Copyright 2005 Bytecode Pty Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.

For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

================================================================================
4th Party Dependencies

org.apache.commons.commons-lang3 (Apache 2.0)
org.apache.commons.commons-text (Apache 2.0)
commons-beanutils.commons-beanutils (Apache 2.0)
org.apache.commons.commons-logging (Apache 2.0)
org.apache.commons.commons-collections4 (Apache 2.0)

============================================================
org.apache.commons.commons-lang3 (Apache 2.0)
org.apache.commons.commons-text
commons-beanutils.commons-beanutils
org.apache.commons.commons-logging
org.apache.commons.commons-collections4

------------
org.apache.commons.commons-lang3

== Copyright
Apache Commons Lang
Copyright 2001-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

------------
org.apache.commons.commons-text

== Copyright
Apache Commons Text
Copyright 2014-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

------------
commons-beanutils.commons-beanutils
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
== Copyright
Apache Commons BeanUtils
Copyright 2000-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

------------
org.apache.commons.commons-logging

== Copyright
Apache Commons Logging
Copyright 2001-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

------------
org.apache.commons.commons-collections

== Copyright
Apache Commons Collections
Copyright 2001-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

================================================================================
```

Google Inc. - Guice License

```
------------------------------ Top-level license -------------------------

Apache 2.0

------------------------------ Copyright notices -------------------------

Copyright (c) 2006 Google, Inc. All rights reserved.

This program is licensed to you under the Apache License Version 2.0,
and you may not use this file except in compliance with the Apache License Version 2.0.
You may obtain a copy of the Apache License Version 2.0 at http://www.apache.org/
licenses/LICENSE-2.0.

Unless required by applicable law or agreed to in writing,
software distributed under the Apache License Version 2.0 is distributed on an
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the Apache License Version 2.0 for the specific language governing permissions and
limitations there under.

--------------------------- Fourth-party information ----------------------
== NAME OF DEPENDENCY 1
ASM

== License
 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.

== Copyright Notices
ASM: a very small and fast Java bytecode manipulation framework
 Copyright (c) 2000-2011 INRIA, France Telecom
 All rights reserved.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 2
aopalliance

== License
"LICENCE: all the source code provided by AOP Alliance is Public Domain."

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 3
Guava

== License
Apache 2.0

== Copyright Notices
Copyright (C) 2020 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 4
failureaccess

== License
Apache 2.0

== Copyright Notices
Copyright (C) 2018 The Guava Authors
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 5
listenablefuture

== License
Apache 2.0

== Copyright Notices
Copyright (C) 2018 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

         http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 6
com.google.code.findbugs:jsr305


The JSR-305 reference implementation (lib/jsr305.jar) is
distributed under the terms of the New BSD license:

  http://www.opensource.org/licenses/bsd-license.php

See the JSR-305 home page for more information:

  http://code.google.com/p/jsr-305/

Redistribution and use in source and binary forms, with or without modification, are
permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of
conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list
of conditions and the following disclaimer in the documentation and/or other materials
provided with the distribution.

3. Neither the name of the copyright holder nor the names of its contributors may be
used to endorse or promote products derived from this software without specific prior
written permission.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL
THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 7
com.google.errorprone:error_prone_annotations

== License
Apache 2.0

== Copyright Notices
Copyright 2015 The Error Prone Authors.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 8
com.google.j2objc:j2objc-annotations

== License
Apache 2.0

== Copyright Notices
Google Inc.
Daniel Connelly

Copyright 2012 Google Inc. All Rights Reserved.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 9
org.checkerframework:checker-qual

== License
MIT License:
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

== Copyright Notices
Copyright 2004-present by the Checker Framework developers

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 10
jakarta.inject » javax.inject

== License
Apache 2.0

== Copyright Notices
Copyright (C) 2009 The JSR-330 Expert Group

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 11
jakarta.inject » jakarta.inject-api

== License
Apache 2.0

== Copyright Notices
Copyright (C) 2009 The JSR-330 Expert Group

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------(separator)--------------------------------
== LICENSES
.
== Apache 2.0
```

For a copy of the license, see Apache Software Foundation Licenses, Version 2.0.

Info-ZIP - UnZip License

```
------------------------------ Top-level license -------------------------

This is version 2009-Jan-02 of the Info-ZIP license. The definitive version of this
document should be available at ftp://ftp.info-zip.org/pub/infozip/license.html
indefinitely and a copy at http://www.info-zip.org/pub/infozip/license.html.

Copyright (c) 1990-2009 Info-ZIP. All rights reserved.

For the purposes of this copyright and license, "Info-ZIP" is defined as the following
set of individuals:

    Mark Adler, John Bush, Karl Davis, Harald Denker, Jean-Michel Dubois, Jean-loup
Gailly, Hunter Goatley, Ed Gordon, Ian Gorman, Chris Herborth, Dirk Haase, Greg Hartwig,
Robert Heath, Jonathan Hudson, Paul Kienitz, David Kirschbaum, Johnny Lee, Onno van der
Linden, Igor Mandrichenko, Steve P. Miller, Sergio Monesi, Keith Owens, George Petrov,
Greg Roelofs, Kai Uwe Rommel, Steve Salisbury, Dave Smith, Steven M. Schweda, Christian
Spieler, Cosmin Truta, Antoine Verheijen, Paul von Behren, Rich Wales, Mike White.

This software is provided "as is," without warranty of any kind, express or implied. In
no event shall Info-ZIP or its contributors be held liable for any direct, indirect,
incidental, special or consequential damages arising out of the use of or inability to
use this software.

Permission is granted to anyone to use this software for any purpose, including
commercial applications, and to alter it and redistribute it freely, subject to the
above disclaimer and the following restrictions:

    Redistributions of source code (in whole or in part) must retain the above copyright
notice, definition, disclaimer, and this list of conditions.

    Redistributions in binary form (compiled executables and libraries) must reproduce
the above copyright notice, definition, disclaimer, and this list of conditions in
documentation and/or other materials provided with the distribution. Additional
documentation is not needed for executables where a command line license option provides
these and a note regarding this option is in the executable's startup banner. The sole
exception to this condition is redistribution of a standard UnZipSFX binary (including
SFXWiz) as part of a self-extracting archive; that is permitted without inclusion of
this license, as long as the normal SFX banner has not been removed from the binary or
disabled.

    Altered versions--including, but not limited to, ports to new operating systems,
existing ports with new graphical interfaces, versions with modified or added
functionality, and dynamic, shared, or static library versions not from Info-ZIP--must
be plainly marked as such and must not be misrepresented as being the original source
or, if binaries, compiled from the original source. Such altered versions also must not
be misrepresented as being Info-ZIP releases--including, but not limited to, labeling of
the altered versions with the names "Info-ZIP" (or any variation thereof, including, but
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

not limited to, different capitalizations), "Pocket UnZip," "WiZ" or "MacZip" without the explicit permission of Info-ZIP. Such altered versions are further prohibited from misrepresentative use of the Zip-Bugs or Info-ZIP e-mail addresses or the Info-ZIP URL(s), such as to imply Info-ZIP will provide support for the altered versions.

    Info-ZIP retains the right to use the names "Info-ZIP," "Zip," "UnZip," "UnZipSFX," "WiZ," "Pocket UnZip," "Pocket Zip," and "MacZip" for its own source and binary releases.

------------------------------ Copyright notices -------------------------

/*
  Copyright (c) 1990-2009 Info-ZIP. All rights reserved.

  See the accompanying file LICENSE, version 2009-Jan-02 or later
  (the contents of which are also included in unzip.h) for terms of use.
  If, for some reason, all these files are missing, the Info-ZIP license
  also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html
*/

--------------------------- Fourth-party information ---------------------

Info-ZIP - Zip License

------------------------------ Top-level license -------------------------

This is version 2009-Jan-02 of the Info-ZIP license. The definitive version of this document should be available at ftp://ftp.info-zip.org/pub/infozip/license.html indefinitely and a copy at http://www.info-zip.org/pub/infozip/license.html.

Copyright (c) 1990-2009 Info-ZIP. All rights reserved.

For the purposes of this copyright and license, "Info-ZIP" is defined as the following set of individuals:

    Mark Adler, John Bush, Karl Davis, Harald Denker, Jean-Michel Dubois, Jean-loup Gailly, Hunter Goatley, Ed Gordon, Ian Gorman, Chris Herborth, Dirk Haase, Greg Hartwig, Robert Heath, Jonathan Hudson, Paul Kienitz, David Kirschbaum, Johnny Lee, Onno van der Linden, Igor Mandrichenko, Steve P. Miller, Sergio Monesi, Keith Owens, George Petrov, Greg Roelofs, Kai Uwe Rommel, Steve Salisbury, Dave Smith, Steven M. Schweda, Christian Spieler, Cosmin Truta, Antoine Verheijen, Paul von Behren, Rich Wales, Mike White.

This software is provided "as is," without warranty of any kind, express or implied. In no event shall Info-ZIP or its contributors be held liable for any direct, indirect, incidental, special or consequential damages arising out of the use of or inability to use this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the above disclaimer and the following restrictions:

    Redistributions of source code (in whole or in part) must retain the above copyright notice, definition, disclaimer, and this list of conditions.

    Redistributions in binary form (compiled executables and libraries) must reproduce the above copyright notice, definition, disclaimer, and this list of conditions in documentation and/or other materials provided with the distribution. Additional documentation is not needed for executables where a command line license option provides these and a note regarding this option is in the executable's startup banner. The sole

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
exception to this condition is redistribution of a standard UnZipSFX binary (including
SFXWiz) as part of a self-extracting archive; that is permitted without inclusion of
this license, as long as the normal SFX banner has not been removed from the binary or
disabled.

    Altered versions--including, but not limited to, ports to new operating systems,
existing ports with new graphical interfaces, versions with modified or added
functionality, and dynamic, shared, or static library versions not from Info-ZIP--must
be plainly marked as such and must not be misrepresented as being the original source
or, if binaries, compiled from the original source. Such altered versions also must not
be misrepresented as being Info-ZIP releases--including, but not limited to, labeling of
the altered versions with the names "Info-ZIP" (or any variation thereof, including, but
not limited to, different capitalizations), "Pocket UnZip," "WiZ" or "MacZip" without
the explicit permission of Info-ZIP. Such altered versions are further prohibited from
misrepresentative use of the Zip-Bugs or Info-ZIP e-mail addresses or the Info-ZIP
URL(s), such as to imply Info-ZIP will provide support for the altered versions.

    Info-ZIP retains the right to use the names "Info-ZIP," "Zip," "UnZip," "UnZipSFX,"
"WiZ," "Pocket UnZip," "Pocket Zip," and "MacZip" for its own source and binary
releases.

------------------------------ Copyright notices -------------------------

/*
  zip.c - Zip 3

  Copyright (c) 1990-2008 Info-ZIP.  All rights reserved.

  See the accompanying file LICENSE, version 2007-Mar-4 or later
  (the contents of which are also included in zip.h) for terms of use.
  If, for some reason, all these files are missing, the Info-ZIP license
  also may be found at:  ftp://ftp.info-zip.org/pub/infozip/license.html
*/


---------------------------- Fourth-party information ----------------------
```

JS Foundation - JQuery License

```
Copyright OpenJS Foundation and other contributors, https://openjsf.org/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

Marc Prud'hommeaux - JLine License

```
Copyright (c) 2002-2023, the original author or authors.
All rights reserved.

https://opensource.org/licenses/BSD-3-Clause

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.
================================================================================
==



################################################################################

Apache License
For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

################################################################################

================================================================================
===
4th Party Dependency
com.googlecode.juniversalchardet » juniversalchardet

================================================================================
===


                          MOZILLA PUBLIC LICENSE
                             Version 1.1
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

---

1. Definitions.

1.0.1. "Commercial Use" means distribution or otherwise making the Covered Code available to a third party.

1.1. "Contributor" means each entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Code, prior Modifications used by a Contributor, and the Modifications made by that particular Contributor.

1.3. "Covered Code" means the Original Code or Modifications or the combination of the Original Code and Modifications, in each case including portions thereof.

1.4. "Electronic Distribution Mechanism" means a mechanism generally accepted in the software development community for the electronic transfer of data.

1.5. "Executable" means Covered Code in any form other than Source Code.

1.6. "Initial Developer" means the individual or entity identified as the Initial Developer in the Source Code notice required by Exhibit A.

1.7. "Larger Work" means a work which combines Covered Code or portions thereof with code not governed by the terms of this License.

1.8. "License" means this document.

1.8.1. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:

A. Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.

B. Any new file that contains any part of the Original Code or previous Modifications.

1.10. "Original Code" means Source Code of computer software code which is described in the Source Code notice required by Exhibit A as Original Code, and which, at the time of its release under this License is not already Covered Code governed by this License.

1.10.1. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.11. "Source Code" means the preferred form of the Covered Code for making modifications to it, including all modules it contains, plus any associated interface definition files, scripts used to control compilation and installation of an Executable, or source code

Copyright © 2015, 2025, Oracle and/or its affiliates.

differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor's choice. The Source Code can be in a compressed or archival form, provided the appropriate decompression or de-archiving software is widely available for no charge.

1.12. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License or a future version of this License issued under Section 6.1. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. Source Code License.

2.1. The Initial Developer Grant.
The Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license, subject to third party intellectual property claims:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer to use, reproduce, modify, display, perform, sublicense and distribute the Original Code (or portions thereof) with or without Modifications, and/or as part of a Larger Work; and

(b) under Patents Claims infringed by the making, using or selling of Original Code, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Code (or portions thereof).

(c) the licenses granted in this Section 2.1(a) and (b) are effective on the date Initial Developer first distributes Original Code under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: 1) for code that You delete from the Original Code; 2) separate from the Original Code; or 3) for infringements caused by: i) the modification of the Original Code or ii) the combination of the Original Code with other software or devices.

2.2. Contributor Grant.
Subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor, to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof) either on an unmodified basis, with other Modifications, as Covered Code and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: 1) Modifications made by that Contributor (or portions thereof); and 2) the combination of Modifications made by that Contributor with its Contributor

Copyright © 2015, 2025, Oracle and/or its affiliates.

Version (or portions of such combination).

(c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first makes Commercial Use of the Covered Code.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: 1) for any code that Contributor has deleted from the Contributor Version; 2) separate from the Contributor Version; 3) for infringements caused by: i) third party modifications of Contributor Version or ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or 4) under Patent Claims infringed by Covered Code in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Application of License.
The Modifications which You create or to which You contribute are governed by the terms of this License, including without limitation Section 2.2. The Source Code version of Covered Code may be distributed only under the terms of this License or a future version of this License released under Section 6.1, and You must include a copy of this License with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this License or the recipients' rights hereunder. However, You may include an additional document offering the additional rights described in Section 3.5.

3.2. Availability of Source Code.
Any Modification which You create or to which You contribute must be made available in Source Code form under the terms of this License either on the same media as an Executable version or via an accepted Electronic Distribution Mechanism to anyone to whom you made an Executable version available; and if made available via Electronic Distribution Mechanism, must remain available for at least twelve (12) months after the date it initially became available, or at least six (6) months after a subsequent version of that particular Modification has been made available to such recipients. You are responsible for ensuring that the Source Code version remains available even if the Electronic Distribution Mechanism is maintained by a third party.

3.3. Description of Modifications.
You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived, directly or indirectly, from Original Code provided by the Initial Developer and including the name of the Initial Developer in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code.

3.4. Intellectual Property Matters
(a) Third Party Claims.
If Contributor has knowledge that a license under a third party's intellectual property rights is required to exercise the rights granted by such Contributor under Sections 2.1 or 2.2, Contributor must include a text file with the Source Code distribution titled "LEGAL" which describes the claim and the party making the claim in sufficient detail that a recipient will

Copyright © 2015, 2025, Oracle and/or its affiliates.

know whom to contact. If Contributor obtains such knowledge after the Modification is made available as described in Section 3.2, Contributor shall promptly modify the LEGAL file in all copies Contributor makes available thereafter and shall take other steps (such as notifying appropriate mailing lists or newsgroups) reasonably calculated to inform those who received the Covered Code that new knowledge has been obtained.

(b) Contributor APIs.
If Contributor's Modifications include an application programming interface and Contributor has knowledge of patent licenses which are reasonably necessary to implement that API, Contributor must also include this information in the LEGAL file.

(c) Representations.
Contributor represents that, except as disclosed pursuant to Section 3.4(a) above, Contributor believes that Contributor's Modifications are Contributor's original creation(s) and/or Contributor has sufficient rights to grant the rights conveyed by this License.

3.5. Required Notices.
You must duplicate the notice in Exhibit A in each file of the Source Code. If it is not possible to put such notice in a particular Source Code file due to its structure, then You must include such notice in a location (such as a relevant directory) where a user would be likely to look for such a notice. If You created one or more Modification(s) You may add your name as a Contributor to the notice described in Exhibit A. You must also duplicate this License in any documentation for the Source Code where You describe recipients' rights or ownership rights relating to Covered Code. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Code. However, You may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear than any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.6. Distribution of Executable Versions.
You may distribute Covered Code in Executable form only if the requirements of Section 3.1-3.5 have been met for that Covered Code, and if You include a notice stating that the Source Code version of the Covered Code is available under the terms of this License, including a description of how and where You have fulfilled the obligations of Section 3.2. The notice must be conspicuously included in any notice in an Executable version, related documentation or collateral in which You describe recipients' rights relating to the Covered Code. You may distribute the Executable version of Covered Code or ownership rights under a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable version does not attempt to limit or alter the recipient's rights in the Source Code version from the rights set forth in this License. If You distribute the Executable version under a different license You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or any Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such

Copyright © 2015, 2025, Oracle and/or its affiliates.

terms You offer.

3.7. Larger Works.
You may create a Larger Work by combining Covered Code with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Code due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be included in the LEGAL file described in Section 3.4 and must be included with all distributions of the Source Code. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Application of this License.

This License applies to code to which the Initial Developer has attached the notice in Exhibit A and to related Covered Code.

6. Versions of the License.

6.1. New Versions.
Netscape Communications Corporation ("Netscape") may publish revised and/or new versions of the License from time to time. Each version will be given a distinguishing version number.

6.2. Effect of New Versions.
Once Covered Code has been published under a particular version of the License, You may always continue to use it under the terms of that version. You may also choose to use such Covered Code under the terms of any subsequent version of the License published by Netscape. No one other than Netscape has the right to modify the terms applicable to Covered Code created under this License.

6.3. Derivative Works.
If You create or use a modified version of this License (which you may only do in order to apply it to code which is not already Covered Code governed by this License), You must (a) rename Your license so that the phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape", "MPL", "NPL" or any confusingly similar phrase do not appear in your license (except to note that your license differs from this License) and (b) otherwise make it clear that Your version of the license contains terms which differ from the Mozilla Public License and Netscape Public License. (Filling in the name of the Initial Developer, Original Code or Contributor in the notice described in Exhibit A shall not of themselves be deemed to be modifications of this License.)

7. DISCLAIMER OF WARRANTY.

COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE

Copyright © 2015, 2025, Oracle and/or its affiliates.

IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

8. TERMINATION.

8.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. All sublicenses to the Covered Code which are properly granted shall survive any termination of this License. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

8.2. If You initiate litigation by asserting a patent infringement claim (excluding declatory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You file such action is referred to as "Participant") alleging that:

(a) such Participant's Contributor Version directly or indirectly infringes any patent, then any and all rights granted by such Participant to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively, unless if within 60 days after receipt of notice You either: (i) agree in writing to pay Participant a mutually agreeable reasonable royalty for Your past and future use of Modifications made by such Participant, or (ii) withdraw Your litigation claim with respect to the Contributor Version against such Participant. If within 60 days of notice, a reasonable royalty and payment arrangement are not mutually agreed upon in writing by the parties or the litigation claim is not withdrawn, the rights granted by Participant to You under Sections 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day notice period specified above.

(b) any software, hardware, or device, other than such Participant's Contributor Version, directly or indirectly infringes any patent, then any rights granted to You by such Participant under Sections 2.1(b) and 2.2(b) are revoked effective as of the date You first made, used, sold, distributed, or had made, Modifications made by that Participant.

8.3. If You assert a patent infringement claim against Participant alleging that such Participant's Contributor Version directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or any distributor hereunder prior to termination shall survive termination.

9. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE,

Copyright © 2015, 2025, Oracle and/or its affiliates.

OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

10. U.S. GOVERNMENT END USERS.

The Covered Code is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Code with only those rights set forth herein.

11. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by California law provisions (except to the extent applicable law, if any, provides otherwise), excluding its conflict-of-law provisions. With respect to disputes in which at least one party is a citizen of, or an entity chartered or registered to do business in the United States of America, any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California, with venue lying in Santa Clara County, California, with the losing party responsible for costs, including without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License.

12. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

13. MULTIPLE-LICENSED CODE.

Initial Developer may designate portions of the Covered Code as "Multiple-Licensed". "Multiple-Licensed" means that the Initial Developer permits you to utilize portions of the Covered Code under Your choice of the MPL or the alternative licenses, if any, specified by the Initial Developer in the file described in Exhibit A.

EXHIBIT A -Mozilla Public License.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
      ``The contents of this file are subject to the Mozilla Public License
      Version 1.1 (the "License"); you may not use this file except in
      compliance with the License. You may obtain a copy of the License at
      https://www.mozilla.org/MPL/

      Software distributed under the License is distributed on an "AS IS"
      basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
      License for the specific language governing rights and limitations
      under the License.

      The Original Code is _____________________________________________.

      The Initial Developer of the Original Code is ____________________.
      Portions created by _____________________ are Copyright (C) ______
      _____________________. All Rights Reserved.

      Contributor(s): _____________________________________.

      Alternatively, the contents of this file may be used under the terms
      of the _____ license (the  "[___] License"), in which case the
      provisions of [______] License are applicable instead of those
      above.  If you wish to allow use of your version of this file only
      under the terms of the [____] License and not to allow others to use
      your version of this file under the MPL, indicate your decision by
      deleting  the provisions above and replace  them with the notice and
      other provisions required by the [___] License.  If you do not delete
      the provisions above, a recipient may use your version of this file
      under either the MPL or the [___] License."

      [NOTE: The text of this Exhibit A may differ slightly from the text of
      the notices in the Source Code files of the Original Code. You should
      use the text of this Exhibit A rather than the text found in the
      Original Code Source Code for Your Modifications.]

================================================================================
Fourth Party dependencies
 net.java.dev.jna » jna

================================================================================



    GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright © 2007 Free Software Foundation, Inc. <https://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms
and conditions of version 3 of the GNU General Public License, supplemented
by the additional permissions listed below.

0. Additional Definitions.
As used herein, “this License” refers to version 3 of the GNU Lesser General
Public License, and the “GNU GPL” refers to version 3 of the GNU General Public
License.

“The Library” refers to a covered work governed by this License, other than an
Application or a Combined Work as defined below.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

An “Application” is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A “Combined Work” is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the “Linked Version”.

The “Minimal Corresponding Source” for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The “Corresponding Application Code” for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.
You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.
If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or
b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.
3. Object Code Incorporating Material from Library Header Files.
The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it
and that the Library and its use are covered by this License.
b) Accompany the object code with a copy of the GNU GPL and this license document.
4. Combined Works.
You may convey a Combined Work under terms of your choice that, taken together, effectively
do not restrict modification of the portions of the Library contained in the Combined Work
and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it
and that the Library and its use are covered by this License.
b) Accompany the Combined Work with a copy of the GNU GPL and this license document.
c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.
d) Do one of the following:
0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Version
to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL
for
conveying Corresponding Source.
1) Use a suitable shared library mechanism for linking with the Library. A suitable
mechanism
is one that (a) uses at run time a copy of the Library already present on the user's
computer system,
and (b) will operate properly with a modified version of the Library that is interface-
compatible
with the Linked Version.
e) Provide Installation Information, but only if you would otherwise be required to
provide such
information under section 6 of the GNU GPL, and only to the extent that such information
is necessary
to install and execute a modified version of the Combined Work produced by recombining
or relinking
the Application with a modified version of the Linked Version. (If you use option 4d0,
the Installation
Information must accompany the Minimal Corresponding Source and Corresponding
Application Code.
If you use option 4d1, you must provide the Installation Information in the manner
specified by
section 6 of the GNU GPL for conveying Corresponding Source.)
5. Combined Libraries.
You may place library facilities that are a work based on the Library side by side in a
single
library together with other library facilities that are not Applications and are not
covered
by this License, and convey such a combined library under terms of your choice, if you
do
both of the following:

a) Accompany the combined library with a copy of the same work based on the Library,
uncombined
with any other library facilities, conveyed under the terms of this License.
b) Give prominent notice with the combined library that part of it is a work based on
the Library,
and explaining where to find the accompanying uncombined form of the same work.
6. Revised Versions of the GNU Lesser General Public License.
The Free Software Foundation may publish revised and/or new versions
of the GNU Lesser General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may differ
in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
as you received it specifies that a certain numbered version of the
GNU Lesser General Public License “or any later version” applies to it,
you have the option of following the terms and conditions either of
that published version or of any later version published by the
Free Software Foundation. If the Library as you received it does
not specify a version number of the GNU Lesser General Public License,
you may choose any version of the GNU Lesser General Public License
ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the Library.

============================================================================
Fourth Party dependencies
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
org.slf4j: slf4j-api
org.slf4j: slf4j-jdk14

========================================================================

SLF4J source code and binaries are distributed under the MIT license.


 Copyright (c) 2004-2017 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

These terms are identical to those of the MIT License,
also called the X License or the X11 License, which is a simple,
permissive non-copyleft free software license.
It is deemed compatible with virtually all types of licenses, commercial or otherwise.
In particular, the Free Software Foundation has declared it compatible with GNU GPL.
It is also known to be approved by the Apache Software Foundation as compatible
with Apache Software License.

================================================================================
4th Party Dependency
com.google.code.findbugs » jsr305

================================================================================

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright notice,
      this list of conditions and the following disclaimer in the documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

================================================================================
=
4th Party Dependency
com.google.code.findbugs » jcip-annotations

================================================================================
=
Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright notice,
      this list of conditions and the following disclaimer in the documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
```

Marijn Haverbeke - CodeMirror License

```
Copyright (C) 2017 by Marijn Haverbeke <marijn@haverbeke.berlin> and others

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

MIT - JsonSurfer License

```
MIT License

Copyright (c) 2019 WANG Lingsong

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
```

Nodeca - Pako License

```
Copyright (C) 2014-2017 by Vitaly Puzrin and Andrei Tuputcyn

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

ZLib License

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

1. The origin of this software must not be misrepresented; you must not
   claim that you wrote the original software. If you use this software
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Open Source - Standard Performance Evaluation Corporation (SPEC) CPU 2017 benchmark results License

Fair Use Rules: http://www.spec.org/fairuse.html
****

 SPEC Fair Use Rules
Updated 9 February 2023

Change history
Introduction

Consistency and fairness are guiding principles for SPEC. To help assure that these principles are met, the following requirements must be met by any organization or individual who makes public use of SPEC benchmark results.

Section I lists general requirements that apply to public use of all SPEC benchmarks.
Section II lists additional specific requirements for individual benchmarks.

It is intended that this document provides the information needed for compliance with Fair Use, and in the event of any inconsistencies, this document takes precedence over individual benchmark run rules fair use requirements.

I. General Requirements For Public Use of All SPEC Benchmark Results
I.A. Requirements List

    Compliance. Claimed results must be compliant with that benchmark's rules. See definition: compliant result. (Certain Exceptions may apply.)

    Data Sources

        Source(s) must be stated for quoted SPEC results.

        Such sources must be publicly available, from SPEC or elsewhere.

        The licensee (the entity responsible for the result) must be clearly identifiable from the source.

        The date that the data was retrieved must be stated.

        The SPEC web site (http://www.spec.org) or a suitable sub page must be noted as a resource for additional information about the benchmark.

    Clear and correct, as of a specific date

        Statements regarding SPEC, its benchmarks, and results published by SPEC, must be clear and correct.

        A claim must state a date as of which data was retrieved.

        A claim may compare newly announced compliant results vs. data retrieved earlier.

Copyright © 2015, 2025, Oracle and/or its affiliates.

There is no requirement to update a claim when later results are published.

For example, an Acme web page dated 28 January 2011 announces performance results for the Model A and claims "the best SPECweb® 2009 benchmark performance when compared vs. results published at www.spec.org as of 26 January 2011". If SPEC publishes better results on 1 February, there is no requirement to update the page.

Trademarks.

Reference must be made to the SPEC trademark. Such reference may be included in a notes section with other trademark references (SPEC trademarks are listed at http://www.spec.org/spec/trademarks.html).

SPEC's trademarks may not be used to mislabel something that is not a SPEC metric.

For example, suppose that a Gaming Society compares performance using a composite of a weighted subset of the SPEC CPU 2006 benchmark plus a weighted subset of the SPECviewperf 11 benchmark, and calls its composite "GamePerfMark". The composite, weighting, and subsetting are done by the Society, not by SPEC. The composite may be useful and interesting, but it may not be represented as a SPEC metric. It would be a Fair Use violation to reference it as "SPECgame".

Required Metrics. In the tables below, some benchmarks have Required Metrics. Public statements must include these.

Comparisons. It is fair to compare compliant results to other compliant results. Enabling such comparisons is a core reason why the SPEC benchmarks exist. Each benchmark product has workloads, software tools, run rules, and review processes that are intended to improve the technical credibility and relevance of such comparisons.

When comparisons are made,

SPEC metrics may be compared only to SPEC metrics.

The basis for comparison must be stated.

Results of one benchmark are not allowed to be compared to a different benchmark (e.g. SPECjAppServer2004 to TPC-C; or SPECvirt_sc2010 to SPECweb2005).

Results of a benchmark may not be compared to a different major release of the same benchmark
(e.g. SPECweb2005 to SPECweb2009). Exception: normalized historical comparisons may be made as described under Retired Benchmarks.

Comparisons of non-compliant numbers. The comparison of non-compliant numbers to compliant results is restricted to certain exceptional cases described later in this Fair Use Rule (Academic/Research usage; Estimates, for those benchmarks that allow estimates; Normalized Historical Comparisons). Where allowed, comparisons that include non-compliant numbers must not be misleading or deceptive as to compliance. It must be clear from the context of the comparison which numbers are compliant and which are not.

Back to Contents
I.B. Generic Example

This example for a generic SPEC benchmark illustrates the points above. See also the examples for specific benchmarks below, for additional requirements that may apply.
Example: New York, NY, January 28, 2011: Acme Corporation announces that the Model A achieves 100 for SPECgeneric2011, a new record among systems running Linux [1].
[1] Comparison based on best performing systems using the Linux operating system published at www.spec.org as of 26 January 2011. SPEC® and the benchmark name SPECgeneric® are registered trademarks of the Standard Performance Evaluation

Copyright © 2015, 2025, Oracle and/or its affiliates.

Corporation. For more information about SPECgeneric2011, see www.spec.org/generic2011/.

Back to Contents
I.C. Compliance Exceptions

Exceptions regarding the compliance requirement are described in this section.

Academic/research usage. SPEC encourages use of its benchmarks in research and academic contexts, on the grounds that SPEC benchmarks represent important characteristics of real world applications and therefore research innovations measured with SPEC benchmarks may benefit real users. SPEC understands that academic use of the SPEC benchmarks may be seen as enhancing the credibility of both the researcher and SPEC.

Research use of SPEC benchmarks may not be able to meet the compliance requirement.

Examples: (1) Testing is done with a simulator rather than real hardware. (2) The software innovation is not generally available or is not of product quality. (3) The SPEC test harness is modified without approval of SPEC.

SPEC has an interest in protecting the integrity of the SPEC metrics, including consistency of methods of measurement and the meaning of the units of measure that are defined by SPEC benchmarks. It would be unfair to those who do meet the compliance requirements if non-compliant numbers were misrepresented as compliant results. Therefore, SPEC recommends that researchers consider using the SPEC workload, but do not call the measurements by the SPEC metric name.

The requirements for Fair Use in academic/research contexts are:
It is a Fair Use violation to imply, to the reasonable reader, that a non-compliant number is a compliant result.
Non-compliance must be clearly disclosed. If the SPEC metric name is used, it is recommended that (nc), for non-compliant, be added after each mention of the metric name. It is understood that there may be other ways to accomplish this in context, for example adding words such as "experimental" or "simulated" or "estimated" or "non-compliant".
Diagrams, Tables, and Abstracts (which, often, are excerpted and used separately) must have sufficient context on their own so that they are not misleading as to compliance.
If non-compliant numbers are compared to compliant results it must be clear from the context which is which.
Example: The Acme Corporation Model A achieves SPECint®2006 100 in testing published at www.spec.org. Our Research Compiler improves the same hardware to SPECint®2006 125(nc). The notation (nc), for non-compliant, is used because our compiler does not meet SPEC's requirements for general availability.

Other Fair Use Requirements Still Apply. This section discusses an exception to only the compliance requirement from the Requirements List. Fair Use in academic/research context must still meet the other requirements, including but not limited to making correct use of SPEC results with dated citations of sources.

Estimates. Some SPEC benchmarks allow estimates, as shown in the tables below. Only for those benchmarks, it is acceptable to compare estimates to compliant results provided that:

Estimates must be clearly identified as such.

Each use of a SPEC metric as an estimate must be clearly marked as an estimate.

If estimates are used in graphs, the word "estimated" or "est." must be plainly visible within the graph, for example in the title, the scale, the legend, or next to each individual number that is estimated.

Licensees are encouraged to give a rationale or methodology for any estimates,

Copyright © 2015, 2025, Oracle and/or its affiliates.

together with other information that may help the reader assess the accuracy of the estimate.

Example 1: The Acme Corporation Model A achieves SPECint®2006 100 in testing published at www.spec.org. The Bugle Corporation Model B will nearly double that performance to SPECint®2006 198(est). The notation (est), for estimated, is used because SPECint®2006 was run on pre-production hardware. Customer systems, planned for Q4, are expected to be similar.

Example 2: Performance estimates are modeled using the cycle simulator GrokSim Mark IV. It is likely that actual hardware, if built, would include significant differences.

Back to Contents
I.D. Derived Values

It is sometimes useful to define a numeric unit that includes a SPEC metric plus other information, and then use the new number to compare systems. This is called a Derived Value.
Examples: SPECint®_rate2006 per chip
SPECvirt_sc2010 per gigabyte

Note: the examples above are not intended to imply that all derived values use ratios of the form above. The definition is intentionally broad, and includes additional examples

Derived values are acceptable, provided that they follow this Fair Use rule, including but not limited to using compliant results, listing sources for SPEC result data, and including any required metrics.

A derived value must not be represented as a SPEC metric. The context must not give the appearance that SPEC has created or endorsed the derived value. In particular, it is a Fair Use violation, and may be a Trademark violation, to form a new word that looks like a SPEC metric name when there is no such metric.
Not Acceptable: SPECint®_chiprate2006
SPECvirt_sc2010gigs

If a derived value is used as the basis of an estimate, the estimate must be correctly labeled. A derived value may introduce seeming opportunities to extrapolate beyond measured data. For example, if 4 different systems all have the same ratio of SPECwhatever per chip, it can be tempting to estimate that another, unmeasured, system will have the same ratio. This may be a very good estimate; but it is still an estimate, and must be correctly labeled. If used in public, it must be for a benchmark that allows estimates.

Back to Contents
I.E. Non-SPEC Information

A basis of comparison or a derived value may use information from both SPEC and non-SPEC sources.

SPEC values truthfulness and clarity at all times:
When information from SPEC sources is used in public, SPEC requires that such information be reported correctly (per section I.A.3).
SPEC recommends that non-SPEC material should be accurate, relevant, and not misleading. Data and methods should be explained and substantiated.

Disclaimer. SPEC is not responsible for non-SPEC information. The SPEC Fair Use rule is limited to the information derived from SPEC sources. (Other rules may apply to the non-SPEC information, such as industry business standards, ethics, or Truth in Advertising law.)

SPEC may point out non-SPEC content. SPEC reserves the right to publicly comment

Copyright © 2015, 2025, Oracle and/or its affiliates.

to distinguish SPEC information from non-SPEC information.

Integrity of results and trademarks. The non-SPEC information must not be presented in a manner that may reasonably lead the reader to untrue conclusions about SPEC, its results, or its trademarks.

Examples

Example 1 (basis): ACME Corporation claims the best SPECjEnterprise 2010 benchmark performance for systems available as (example 1a) rack mount, or (1b) with more than 8 disk device slots, or (1c) with Art Deco paint. Bugle Corporation asserts that the basis of comparison is irrelevant or confusing or silly. Bugle may be correct. Nevertheless, such irrelevance, confusion, or silliness would not alone be enough to constitute a SPEC Fair Use violation.

Example 2 (derived value): ACME claims that its model A has better SPECint®_rate2006 per unit of cooling requirement than does the Bugle Model B. SPEC is not responsible for judging thermal characteristics.

Example 3: ACME claims the "best SPECmpi®M_2007 performance among industry-leading servers". This claim violates the requirement that the basis must be clear.

Example 4: ACME computes SPECint®_rate2006 per unit of cooling, but inexplicably selects SPECint®_rate_base2006 for some systems and SPECint®_rate2006 for others. The computation violates the requirement that the SPEC information must be accurate, and may also violate the requirement that a claim should not lead the reasonable reader to untrue conclusions about SPEC's results.

Back to Contents
I.F. Retired Benchmarks

Disclosure. If public claims are made using a retired benchmark, with compliant results that have not been previously reviewed and accepted by SPEC, then the fact that the benchmark has been retired and new results are no longer being accepted for review and publication by SPEC must be plainly disclosed.
Example: The Acme Corporation Model A achieves a score of 527 SPECjvm98. Note: SPECjvm98 has been retired and SPEC is no longer reviewing or publishing results with that benchmark. We are providing this result as a comparison to older hardware that may still be in use at some customer sites.

Benchmarks that require review. Some benchmarks require that SPEC review and accept results prior to public use. For such benchmarks, the review process is not available after benchmark retirement, and therefore no new results may be published.

Normalized historical comparisons. When SPEC releases a new major version of a benchmark, the SPEC metrics are generally not comparable to the previous version, and there is no formula for converting from one to the other. Nevertheless, SPEC recognizes that there is value in historical comparisons, which are typically done by normalizing performance across current and one or more generations of retired benchmarks, using systems that have been measured with both the older and newer benchmarks as the bridges for the normalization. Historical comparisons are inherently approximate because picking differing 'bridge' systems may yield differing ratios and because an older workload exercises different system capabilities than a more modern workload.

Normalized historical comparisons are acceptable only if their inherently approximate nature is not misrepresented. At minimum:
It must not be claimed that SPEC metrics for one benchmark generation are precisely comparable to metrics from another generation.
The approximate nature must be apparent from the context.
For example, a graph shown briefly in a presentation is labelled "Normalized Historic Trends for SPEC<benchmark>". As another example, in a white paper (where the expectation is for greater detail than presentations), the author explicitly calls out

Copyright © 2015, 2025, Oracle and/or its affiliates.

that workloads have differed over time, and explains how numbers are calculated.

==========

II. Requirements for Public Use of Individual Benchmark Results

For further detail about the meaning of SPEC metrics, the individual benchmark run rules may be consulted. The benchmark names at the top of each table are links to that benchmark's run rules.

SPEC CPU® 2017 benchmark
SPEC.org Submission
Requirements None. Submission to SPEC is encouraged, but is not required. Compliant results may be published independently.
SPEC Metrics

The geometric means for overall performance
Performance Geometric Means Energy Geometric Means
SPECspeed® SPECrate® SPECspeed® SPECrate®
SPECspeed®2017_int_base
SPECspeed®2017_int_peak
SPECspeed®2017_fp_base
SPECspeed®2017_fp_peak SPECrate®2017_int_base
SPECrate®2017_int_peak
SPECrate®2017_fp_base
SPECrate®2017_fp_peak SPECspeed®2017_int_energy_base
SPECspeed®2017_int_energy_peak
SPECspeed®2017_fp_energy_base
SPECspeed®2017_fp_energy_peak SPECrate®2017_int_energy_base
SPECrate®2017_int_energy_peak
SPECrate®2017_fp_energy_base
SPECrate®2017_fp_energy_peak
Individual benchmark SPECratios
Individual benchmark Energy Ratios
Individual benchmark run times in seconds
Individual benchmark energy consumption in kilojoules
Overall system maximum power consumption in watts
Overall system idle power consumption in watts

Required Metrics The baseline performance metric for whatever suite is reported.
Conditionally
Required Metrics
Condition Requirements
Comparison of idle power The overall maximum power, baseline Performance Geometric Mean, and baseline Energy Geometric Mean shall be disclosed in close proximity to the idle power.
Use of Estimates

Estimates are not allowed for any of the SPEC CPU 2017 energy metrics (neither the Energy Geometric Means nor the individual benchmark energy ratios). All public use of SPEC CPU 2017 energy metrics must be from rule-compliant results.
SPEC CPU 2017 performance metrics (Performance Geometric Means, Individual benchmark SPECratios, Individual benchmark run times in seconds) may be estimated, provided that they are clearly identified as estimates.
It is permitted to estimate a peak performance metric without providing a corresponding base performance estimate.

Disallowed
Comparisons Energy metrics generated with releases prior to SPEC CPU 2017 v1.1 are not comparable.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
================================================================================
=======

III. Definitions
Basis for Comparison     Information from a compliant result may be used to define a
basis for comparing a subset of systems, including but not limited to memory size,
number of CPU chips, operating system version, other software versions, or optimizations
used. Other information, not derived from SPEC, may also be used to define a basis, for
example, cost, size, cooling requirements, or other system characteristics. The basis
must be clearly disclosed.
By Location

For benchmarks designated as having a submission requirement "By location", these
requirements apply:

Each licensee test location (city, state/province and country) must measure and submit a
single compliant result for review, and have that result accepted by the technically
relevant subcommittee, before publicly disclosing or representing as compliant any
result for the benchmark.

After acceptance of a compliant result from a test location, the licensee may publicly
disclose future compliant results produced at that location without prior acceptance by
the subcommittee.

The intent of this requirement is that the licensee test location demonstrates the
ability to produce a compliant result.

Note that acceptance of a result for one SPEC benchmark does not relieve a licensee of
the requirement to complete the procedure for any other SPEC benchmark(s) that also
require initial acceptance by location.
Close Proximity     In the same paragraph or an adjacent paragraph for written
materials; or visible simultaneously for visual materials. The font must be legible to
the intended audience.
Compliant Result

(i) The set of measurements, logs, full disclosure report pages, and other artifacts
that are the output of a process that follows the run and reporting rules of a SPEC
benchmark. Depending on the benchmark and its rules, the process may have many steps and
many ingredients, such as specific software, hardware, tuning, documentation,
availability of support, and timeliness of shipment. To find the rules for a specific
benchmark, click its name in the tables above.

(ii) A number within such set that is labelled as a SPEC metric.

Note that benchmark reporting pages include other types of information, such as the
amount of memory on the system. It is not allowed to represent such other information as
a SPEC metric, although it may be used to define a Basis for Comparison.

SPEC reviews results prior to publication on its web site, but the accuracy and
compliance of the submission remains the responsibility of the benchmark licensee. See
the disclaimer.
Derived Value

A unit that is a numerical function of one or more SPEC Metrics, rather than the
original metric. The function may be a constant divisor, to normalize performance to a
comparison system of interest. The function may bring in quantities that are some other
characteristic(s) of the system. Such other characteristics may include information from
both SPEC result pages and from non-SPEC sources.
Examples:     "SPECint®_rate2006 per chip" (metric is divided by number of chips
reported on SPEC disclosure)
"Cubic feet per SPECint®_rate2006" (a non-SPEC quantity is divided by the metric)
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

"Normalized SPECsfs2008_cifs" (metric is divided by result for a comparison system) "GamePerfMark", from the trademark section above.

This definition is intentionally broad, encompassing any function that includes a SPEC metric as one of the inputs.
Disallowed Comparisons As mentioned above, results of one benchmark may not be compared to a different benchmark, nor to a different major release of the same benchmark. Individual benchmarks may forbid other comparisons, typically where such comparisons are considered inherently misleading.
Estimate

An estimate is an alleged value for a SPEC metric that was not produced by a run rule compliant test measurement.

For purposes of this definition, it does not matter whether the alleged value for the metric was produced by extrapolating from known systems, or by cycle accurate simulation, or by whiteboard or dartboard, or by normal testing with the exception of a single missing mandatory requirement (e.g. the 3 month availability window). If the alleged value is not from a rule-compliant run, then it is an estimate.

The usage of estimates is limited.
Major Release

For purposes of this fair use rule, the term "major release" references a change in the year component of a benchmark product name, for example SPECjvm98 vs. SPECjvm2008.
Non-Compliant Number

A value for a SPEC metric that fails to meet all the conditions for a compliant result.

Usage Note: By the definition of Estimate, above, a non-compliant number is also an estimate; and, of course, an estimate does not comply with the run rules. Therefore, the terms are sometimes interchangeable. In practical usage, an estimate may bear no relationship to any measurement activity; whereas a non-compliant number is typically the product of running the SPEC-supplied tools in a manner that does not comply with the run rules. In such cases, the tools may print out numbers that are labelled with SPEC metric units, but the values that are printed are not compliant results. Such values are sometimes informally called "non-compliant results", but for the sake of clarity, this document prefers the term "non-compliant number".
Required Metric A SPEC metric whose value must be supplied. Individual benchmark sections above list whether they have required metrics. If so, then when any data is used from a full disclosure report, then the values for this/these metric(s) must also be used.
SPEC Metric

(i) A unit of measurement defined by a benchmark, such as response time or throughput for a defined set of operations. The available units for each benchmark are named in the tables above, and are defined within the benchmark run rules (which can be found by clicking the benchmark name in the tables above).
Example: SPECjvm2008 Peak ops/m.

(ii) A specific value measured by such a unit.
Example: 320.52 SPECjvm2008 Peak ops/m.

Usage Note: Both senses are used in this document, and it is expected that the sense is clear from context. For example, the prohibition against calling a derived value by a SPEC metric name is sense (i): do not define your own unit of measurement and then apply SPEC's trademarks to that unit. As another example, the rules for SPECpower_ssj2008 require disclosure of SPECpower_ssj2008 overall ssj_ops/watt, which is sense (ii): one is required to supply the value measured for a particular system.

A printed SPEC metric value is not necessarily a Compliant Result: SPEC provides tools that display values for SPEC metrics, such as the above example of "320.52 SPECjvm2008

Copyright © 2015, 2025, Oracle and/or its affiliates.

Peak ops/m". Although SPEC's tools help to enforce benchmark run rules, they do not and cannot automatically enforce all rules. Prior to public use, the licensee remains responsible to ensure that all requirements for a compliant result are met. If the requirements are not met, then any printed values for the metrics are non-compliant numbers.

==========
IV. Violations Determination, Penalties, and Remedies

SPEC has a process for determining fair use violations and appropriate penalties and remedies that may be assessed.

==========
****
==========

TradeMark: http://www.spec.org/spec/trademarks.html
****

SPEC® Trademarks And Service Marks

The following list of trademarks and service marks shows the proper designation for each mark of SPEC, the Standard Performance Evaluation Corporation. This list is applicable worldwide; however, in certain countries variations on designations have been used. Please contact SPEC if you have questions.

ADASMark ™ MLMARK ® SPEC Cloud ® SPECjvm ® SPEC SIP_Infrastructure ®
AndEBench ™ MultiBench ™ SPEC CPU ® SPECmail ® SPECspeed ®
AudioMark ™ OABench ™ SPECENV ™ SPEC Mark ™ SPECstorage ®
AutoBench ™ OMPM ™ SPECfp ® SPEC MPI ® SPECviewperf ®
BROWSINGBENCH ® PTDaemon ® SPECglperf ™ SPEC OMP ® SPEC VIRT ®
Chauffeur ® SECUREMARK ® SPECgpc ® SPEC OMPL ™ SPEC VIRT_SC ®
COREMARK ® SERT ® SPEChpc ™ SPECpower ® SPECweb ®
DENBench ™ SPEC ® SPECint ® SPECpower_ssj ® SPECworkstation ®
EEMBC ® SPEC ACCEL ® SPECjAppServer ® SPECrate ® SPECwpc ®
ENERGYRUNNER ® SPECapc ® SPECjbb ® SPEC SDM ™ TeleBench ™
FPMark ™ SPECchem ™ SPECjEnterprise ® SPECseis ™ ULPMARK ®
IOTMARK ® SPECclimate ® SPEC JMS ® SPEC SFS ®

SPEC logo

[® = Registered Trademark, ™ = Trademark, SM = Service Mark]
Use of SPEC Trademarks and Service Marks

A trademark or service mark is a word or symbol used in commerce on goods or services to identify the source of those goods or services.

Copyright © 2015, 2025, Oracle and/or its affiliates.

All SPEC marks must be properly designated with the appropriate symbol (®, ™ or SM). SPEC's marks may not be used by others except in a factual and non-trademark manner in accordance with the following policy:

Persons who have used or are using SPEC's goods and services to obtain objective performance evaluations for their computer products may express that fact and may use the related SPEC marks in their expressions of that fact. SPEC's marks may also be used in media descriptions or reviews of SPEC's goods and services.
Example usages:

The SPEC Cloud® IaaS 2016 benchmark is SPEC's first benchmark suite to measure cloud performance.

The SPECapc® for Maya® 2017 benchmark benchmark is all-new new performance evaluation software for systems running Autodesk Maya 2017 3D animation software.

The Turboblaster 9000 was tested with the SPEC CPU® 2017 benchmark suite and produced a SPECint® 2017 int_base result of 9.30.

The SPEC ACCEL® benchmark suite tests performance with computationally intensive parallel applications running under the OpenCL, OpenACC, and OpenMP 4 target offloading APIs.

The term "Persons" in the policy includes both individuals and organizations, including, but not limited to, all commercial entities and corporations. The policy also applies to members of the press and any third party who desires to report, in a factual manner, the use of SPEC's products and services by another.

In practical terms, compliance with the policy consists of the use of the SPEC marks within the following guidelines:
How to use Trademark Symbols

All SPEC Marks must have a space between the SPEC mark's registration status symbol and year, e.g., The SPEC virt_sc® 2013 benchmark suites are used to measure performance of virtualized platforms.
In letters, memos, press releases, white papers, advertising, slides, foils, video, and other multimedia presentations:
Properly designate (with ®, ™ or SM) all of SPEC's marks at the most prominent use (usually a headline) and again on the first occurrence in copy
In the case of presentation graphics, marks should be designated with the proper mark registration status symbol on each page and slide
In newsletters, magazines, and publications containing multiple articles:
Properly designate (with ®, ™ or SM) all of SPEC's marks on the first occurrence in the Table of Contents, in headlines and on the first occurrence in every article in which they are used
In brochures, annual/quarterly reports, books, technical documentation, and other bound documents:
Properly designate SPEC's marks on the first occurrence in headlines and on the first occurrence in text with ®, ™ or SM.
In all charts or graphs, properly designate SPEC's marks with ®, ™ or SM, as they could be copied or pulled and used independently.

Trademark Acknowledgments

Properly footnote and acknowledge trademark and service mark ownership, preferably identifying SPEC marks as being owned by Standard Performance Evaluation Corporation (SPEC), e.g., SPEC CPU® is a registered trademark of SPEC.
SPEC's trademarks and service marks are SPEC's Intellectual property, and only SPEC may use its trademarks and service marks on goods and services.
Persons who desire to use SPEC's marks in any other manner must contact SPEC to inquire about written permission.
All SPEC marks must be properly designated with the appropriate symbol (®, ™ or SM).

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    Persons may not incorporate SPEC's marks into their own product names, service
names, company names, logos, or in any other manner.
    Persons may not adopt trademarks, service marks, product names, company names, or
logos that are substantially or confusingly similar to SPEC's marks.
    Persons may not license the use of SPEC's marks to others.

================================================================================================
=======
************************************************************************************************
*******
================================================================================================
=======

Copy Right: http://www.spec.org/spec/copyright.html
***********************************************



SPEC Copyright Notice

The Standard Performance Evaluation Corporation (SPEC) is the author and owner of all
material on this server and does reserve its rights.

Copyright © 1995 - 2024 Standard Performance Evaluation Corporation (SPEC). All rights
reserved.

Permission to copy without fee all or part of this material is granted provided that (a)
copies are not made or distributed for direct commercial advantage through distribution
for profit of materials that are substantially all derived from SPEC materials, (b) the
SPEC copyright notice appears, and (c) notice is given that copying is by permission of
the Standard Performance Evaluation Corporation (SPEC).

SPEC and the "performance chart" SPEC logo are registered trademarks of the Standard
Performance Evaluation Corporation.
```

Oracle - weblogic-deploy-tooling License

```
Copyright (c) 2021 Oracle and/or its affiliates.

The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to any
person obtaining a copy of this software, associated documentation and/or data
(collectively the "Software"), free of charge and under any and all copyright
rights in the Software, and any and all patent rights owned or freely
licensable by each licensor hereunder covering either (i) the unmodified
Software as contributed to or provided by such licensor, or (ii) the Larger
Works (as defined below), to deal in both

(a) the Software, and
(b) any piece of software and/or hardware listed in the lrgrwrks.txt file if
one is included with the Software (each a "Larger Work" to which the Software
is contributed by such licensors),

without restriction, including without limitation the rights to copy, create
derivative works of, display, perform, and distribute the Software and make,
use, sell, offer for sale, import, export, have made, and have sold the
Software and the Larger Work(s), and to sublicense the foregoing rights on
either these or other terms.

This license is subject to the following condition:
```

```
The above copyright notice and either this complete permission notice or at
a minimum a reference to the UPL must be included in all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

com.oracle.weblogic.lifecycle:weblogic-deploy
-------- Copyrights
Copyright (c) 2017, 2019, Oracle Corporation and/or its affiliates.  All rights reserved.
Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.
Copyright (c) 2017, 2021, Oracle Corporation and/or its affiliates.
Copyright (c) 2020 Oracle Corporation and/or its affiliates.
Copyright (c) 2019, Oracle Corporation and/or its affiliates.  All rights reserved.
Copyright (c) 2017, 2020, Oracle Corporation and/or its affiliates.  All rights reserved.
Copyright (c) 2017, 2021, Oracle and/or its affiliates.
Copyright (c) 2017, 2020, Oracle Corporation and/or its affiliates.
Copyright (c) 2019, 2020, Oracle Corporation and/or its affiliates.  All rights reserved.
Copyright (c) 2018, 2019, Oracle Corporation and/or its affiliates.  All rights reserved.
Copyright (c) 2021, Oracle and/or its affiliates.
Copyright (c) 2017, 2021, Oracle Corporation and/or its affiliates.  All rights reserved.
Copyright (c) 2020, Oracle Corporation and/or its affiliates.
Copyright (c) 2020, Oracle Corporation and/or its affiliates.  All rights reserved.
Copyright (c) 2014 Grav
Copyright (c) 2016 MATHIEU CORNIC
Copyright (c) 2017 Valere JEANTET
Copyright (c) 2018 Oracle Corporation and/or its affiliates.  All rights reserved.
Copyright 2019, 2021, Oracle Corporation and/or its affiliates.
Copyright 2019, Oracle Corporation and/or its affiliates.  All rights reserved.

-------- License
SPDX:MIT
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction, including without
limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons to whom
the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
com.oracle.weblogic.lifecycle:weblogic-deploy-core
-------- Copyrights

-------- Dependency
org.antlr:antlr4-runtime
-------- Copyrights
```

```
Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.

-------- Dependency
org.python:jython
-------- Copyrights
Copyright (c) 2001 brian zimmer <bzimmer@ziclix.com>
Copyright (c) 2003 brian zimmer <bzimmer@ziclix.com>
Copyright (c) 2002 brian zimmer <bzimmer@ziclix.com>
@copyright 2001 brian zimmer
Copyright (c) 2002 brian zimmer <mailto:bzimmer@ziclix.com>
Copyright (c) Corporation for National Research Initiatives
(C) Copyright 2001 Samuele Pedroni
Copyright 2001 Finn Bock
Copyright 2000 Samuele Pedroni
Copyright 2005 Andrew Howard
Copyright 2000 Finn Bock
Copyright (c) Finn Bock
Copyright (c) 2003 Jython project
Copyright 2002 Finn Bock
Copyright (c) 2000-2007, Jython Developers
Copyright (c) 2000 BeOpen.com.
Copyright (c) 2000 The Apache Software Foundation.  All rights
Copyright (c) 1995-2000 Corporation for National Research
Copyright (c) 1991-1995 Stichting Mathematisch Centrum
Copyright (c) 1997 Systemics Ltd
Copyright (c) 1995, 1996, 1997, 1998, 1999, 2000 The Cryptix Foundation
b>Copyright</b> &copy; 1995-1997
Copyright (c) 1997-2000 by Secret Labs AB.  All rights reserved.
Copyright 1998 Finn Bock.
Copyright (c) 1991, 1992, 1993, 1994 by Stichting Mathematisch Centrum,
Copyright (c) 1991-1995 by Stichting Mathematisch Centrum, Amsterdam,
@copyright 2002 brian zimmer
copyright 2001 Finn Bock
copyright 2003 Samuele Pedroni
copyright 2000 Finn Bock
Copyright (c) 1995, 1996, 1997, 1998, 1999, 2000 The Cryptix"+
Copyright 1999 Finn Bock.
Copyright 1991-1995 by Stichting Mathematisch Centrum, Amsterdam,
Copyright (c) 2001 Finn Bock.
Copyright (c) 2002 The Apache Software Foundation.  All rights
Copyright (c) 2002 The Apache Software Foundation. All rights reserved.

-------- Dependencies Summary
com.oracle.weblogic.lifecycle:weblogic-deploy-core
org.antlr:antlr4-runtime
org.python:jython

-------- License used by Dependencies
SPDX:Apache-2.0

For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.
```

Project Lombok License

```
========== COPYRIGHT NOTICE ===========

Copyright (C) 2009-2021 The Project Lombok Authors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

================================================================================
Licenses for included components:

org.ow2.asm:asm
org.ow2.asm:asm-analysis
org.ow2.asm:asm-commons
org.ow2.asm:asm-tree
org.ow2.asm:asm-util
ASM: a very small and fast Java bytecode manipulation framework
 Copyright (c) 2000-2011 INRIA, France Telecom
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
rzwitserloot/com.zwitserloot.cmdreader

 Copyright Â© 2010 Reinier Zwitserloot.

 Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to deal
 in the Software without restriction, including without limitation the rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the Software is
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------------------------------------------------------

========== COPYRIGHT NOTICE END ===========
```

Python Software Foundation - Jython License

```
#####LICENSE.TXT TOP-LEVEL  JYTHON COMPONENT######

A. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING JYTHON
=======================================================

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Jython") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Jython alone
or in any derivative version, provided, however, that PSF's License
Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2007
Python Software Foundation; All Rights Reserved" are retained in
Jython alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Jython or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Jython.

4. PSF is making Jython available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF JYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF JYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING JYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee. This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Jython, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

Jython 2.0, 2.1 License
==========

Copyright (c) 2000-2009 Jython Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 - Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

 - Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the distribution.

 - Neither the name of the Jython Developers nor the names of
   its contributors may be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

JPython 1.1.x Software License.
==========

IMPORTANT: PLEASE READ THE FOLLOWING AGREEMENT CAREFULLY.

BY CLICKING ON THE "ACCEPT" BUTTON WHERE INDICATED, OR BY INSTALLING,
COPYING OR OTHERWISE USING THE SOFTWARE, YOU ARE DEEMED TO HAVE AGREED TO
THE TERMS AND CONDITIONS OF THIS AGREEMENT.

JPython version 1.1.x

Copyright © 2015, 2025, Oracle and/or its affiliates.

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and using JPython version 1.1.x in source or binary form and its associated documentation as provided herein ("Software").

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a non-exclusive, non-transferable, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)1996-1999 Corporation for National Research Initiatives; All Rights Reserved" are both retained in the Software, alone or in any derivative version prepared by Licensee.

   Alternatively, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes), provided, however, that such text is displayed prominently in the Software alone or in any derivative version prepared by Licensee: "JPython (Version 1.1.x) is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1006. The License may also be obtained from a proxy server on the Web using the following URL: http://hdl.handle.net/1895.22/1006."

3. In the event Licensee prepares a derivative work that is based on or incorporates the Software or any part thereof, and wants to make the derivative work available to the public as provided herein, then Licensee hereby agrees to indicate in any such work, in a prominently visible way, the nature of the modifications made to CNRI's Software.

4. Licensee may not use CNRI trademarks or trade name, including JPython or CNRI, in a trademark sense to endorse or promote products or services of Licensee, or any third party. Licensee may use the mark JPython in connection with Licensee's derivative versions that are based on or incorporate the Software, but only in the form "JPython-based _____," or equivalent.

5. CNRI is making the Software available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

6. CNRI SHALL NOT BE LIABLE TO LICENSEE OR OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF. SOME STATES DO NOT ALLOW THE LIMITATION OR EXCLUSION OF LIABILITY SO THE ABOVE DISCLAIMER MAY NOT APPLY TO LICENSEE.

7. This License Agreement may be terminated by CNRI (i) immediately upon written notice from CNRI of any material breach by the Licensee, if the nature of the breach is such that it cannot be promptly remedied; or (ii) sixty (60) days following notice from CNRI to Licensee of a material remediable breach, if Licensee has not remedied such breach within that sixty-day period.

8. This License Agreement shall be governed by and interpreted in all respects by the law of the State of Virginia, excluding conflict of law

Copyright © 2015, 2025, Oracle and/or its affiliates.

provisions. Nothing in this Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee.

9. By clicking on the "ACCEPT" button where indicated, or by installing, copying or otherwise using the Software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

[ACCEPT BUTTON]

B. HISTORY OF THE SOFTWARE
==========

JPython was created in late 1997 by Jim Hugunin. Jim was also the primary developer while he was at CNRI. In February 1999 Barry Warsaw took over as primary developer and released JPython version 1.1.

In October 2000 Barry helped move the software to SourceForge where it was renamed to Jython. Jython 2.0 and 2.1 were developed under the Jython specific license below.

From the 2.2 release on, Jython contributors have licensed their contributions to the Python Software Foundation under a Contributor Agreement, so as to permit distribution under the Python Software Foundation license.

The Python standard library developed for CPython is also used in Jython, and (like Jython itself) is provided under the Python Software Foundation license. See the file LICENSE_CPython.txt for details.

The zxJDBC package was written by Brian Zimmer and originally licensed under the GNU Public License. The package is now licensed to the Python Software Foundation under a Contributor Agreement, so as to permit distribution under the Python Software Foundation license.

Elements of the supporting libraries (appearing renamed in some Jython JARs) are covered by the Apache Software License. See the file LICENSE_Apache.txt for details.

########NOTICE.TXT OF TOP-LEVEL JYTHON COMPONENT#########################
This product includes software developed by:
    o The Apache Software Foundation (http://www.apache.org/)

#####LICENSE.TXT FOR 4TH PARTY ORG.ANTLR:ANTLR ORG.ANTLR:ANTLR-RUNTIME AND ORG.ANTLR:ST4 COMPONENTS#####
[The "BSD licence"]
Copyright (c) 2003-2008 Terence Parr
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#####LICENSE.TXT FOR 4TH PARTY ORG.APACHE.COMMONS:COMMONS-COMPRESS,
COM.GOOGLE.GUAVA:GUAVA, COM.GOOGLE.GUAVA:FAILUREACCESS COM.GOOGLE.GUAVA:LISTENABLEFUTURE
COM.CARROTSEARCH:JAVA-SIZEOF    COM.GITHUB.JNR:JFFI, COM.GITHUB.JNR:JNR-CONSTANTS,
COM.GITHUB.JNR:JNR-FFI, COM.GITHUB.JNR:JFFI COM.GITHUB.JNR:JNR-CONSTANTS,
COM.GITHUB.JNR:JNR-A64ASM, COM.GITHUB.JNR:JNR-X86ASM, COM.GITHUB.JNR:JNR-NETDB,
COM.GITHUB.JNR:JNR-POSIX COM.GOOGLE.ERRORPRONE:ERROR_PRONE_ANNOTATIONS ,
COM.GOOGLE.J2OBJC:J2OBJC-ANNOTATIONS COMPONENT#####

For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

#####NOTICE.TXT FOR 4TH PARTY ORG.APACHE.COMMONS:COMMONS-COMPRESS COMPONENT#####
Apache Commons Compress
Copyright 2002-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

---

The files in the package org.apache.commons.compress.archivers.sevenz
were derived from the LZMA SDK, version 9.20 (C/ and CPP/7zip/),
which has been placed in the public domain:

"LZMA SDK is placed in the public domain." (http://www.7-zip.org/sdk.html)

---

The test file lbzip2_32767.bz2 has been copied from libbzip2's source
repository:

This program, "bzip2", the associated library "libbzip2", and all
documentation, are copyright (C) 1996-2019 Julian R Seward.  All
rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must
   not claim that you wrote the original software.  If you use this
   software in a product, an acknowledgment in the product
   documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior written
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
   permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, jseward@acm.org


##### NOTICE.TXT FOR 4TH PARTY COM.CARROTSEARCH:JAVA-SIZEOF COMPONENT#####
This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

This RamUsageEstimator is an extended clone of the one found in Apache Lucene.


#####LICENSE.TXT FOR 4TH PARTY JLINE:JLINE COMPONENT#####
Copyright (c) 2002-2018, the original author or authors.
All rights reserved.

https://opensource.org/licenses/BSD-3-Clause

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

#####LICENSE.TXT FOR 4TH PARTY ORG.BOUNCYCASTLE:BCPKIX-JDK18ON AND
ORG.BOUNCYCASTLE:BCPROV-JDK18ON COMPONENT#####
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
LICENSE
Copyright (c) 2000 - 2021 The Legion of the Bouncy Castle Inc. (https://
www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy of this
software and associated documentation files (the "Software"), to deal in the Software
without restriction, including without limitation the rights to use, copy, modify,
merge, publish, distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be included in all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

#####LICENSE.TXT FOR 4TH PARTY ORG.OW2.ASM:ASM, ORG.OW2.ASM:ASM-COMMONS, ORG.OW2.ASM:ASM-
TREE AND ORG.OW2.ASM:ASM-ANALYSIS COMPONENT#####

 ASM: a very small and fast Java bytecode manipulation framework
 Copyright (c) 2000-2011 INRIA, France Telecom
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.

#####LICENSE.TXT FOR 4TH PARTY ORG.CHECKERFRAMEWORK:CHECKER-QUAL COMPONENT#####
Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


#####LICENSE.TXT FOR 4TH PARTY COM.IBM.ICU:ICU4J COMPONENT#####
UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

See Terms of Use <https://www.unicode.org/copyright.html>
for definitions of Unicode Inc.’s Data Files and Software.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright © 1991-2022 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
--------------------------------------------------------------------

Third-Party Software Licenses

This section contains third-party software notices and/or additional
terms for licensed third-party software components included within ICU
libraries.

--------------------------------------------------------------------

ICU License - ICU 1.8.1 to ICU 57.1

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2016 International Business Machines Corporation and others
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY
SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER
RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF
CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale, use
or other dealings in this Software without prior written authorization
of the copyright holder.

All trademarks and registered trademarks mentioned herein are the
property of their respective owners.

--------------------------------------------------------------------

Chinese/Japanese Word Break Dictionary Data (cjdict.txt)

 #     The Google Chrome software developed by Google is licensed under
 # the BSD license. Other software included in this distribution is
 # provided under other licenses, as set forth below.
 #
 #  The BSD License
 #  http://opensource.org/licenses/bsd-license.php
 #  Copyright (C) 2006-2008, Google Inc.
 #
 #  All rights reserved.
 #
 #  Redistribution and use in source and binary forms, with or without
 # modification, are permitted provided that the following conditions are met:
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
#
#  Redistributions of source code must retain the above copyright notice,
# this list of conditions and the following disclaimer.
#  Redistributions in binary form must reproduce the above
# copyright notice, this list of conditions and the following
# disclaimer in the documentation and/or other materials provided with
# the distribution.
#  Neither the name of  Google Inc. nor the names of its
# contributors may be used to endorse or promote products derived from
# this software without specific prior written permission.
#
#
#  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
# CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
# INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
# MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
# DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
# LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
# CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
# SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
# BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
# LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
# NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
# SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#
#
#  The word list in cjdict.txt are generated by combining three word lists
# listed below with further processing for compound word breaking. The
# frequency is generated with an iterative training against Google web
# corpora.
#
#  * Libtabe (Chinese)
#    - https://sourceforge.net/project/?group_id=1519
#    - Its license terms and conditions are shown below.
#
#  * IPADIC (Japanese)
#    - http://chasen.aist-nara.ac.jp/chasen/distribution.html
#    - Its license terms and conditions are shown below.
#
#  ---------COPYING.libtabe ---- BEGIN--------------------
#
#  /*
#   * Copyright (c) 1999 TaBE Project.
#   * Copyright (c) 1999 Pai-Hsiang Hsiao.
#   * All rights reserved.
#   *
#   * Redistribution and use in source and binary forms, with or without
#   * modification, are permitted provided that the following conditions
#   * are met:
#   *
#   * . Redistributions of source code must retain the above copyright
#   *   notice, this list of conditions and the following disclaimer.
#   * . Redistributions in binary form must reproduce the above copyright
#   *   notice, this list of conditions and the following disclaimer in
#   *   the documentation and/or other materials provided with the
#   *   distribution.
#   * . Neither the name of the TaBE Project nor the names of its
#   *   contributors may be used to endorse or promote products derived
#   *   from this software without specific prior written permission.
#   *
#   * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
#   * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
#   * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
#   * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
#   * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
#   * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
#   * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
#   * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
#   * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
#   * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
#   * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
#   * OF THE POSSIBILITY OF SUCH DAMAGE.
#   */
#
#  /*
#   * Copyright (c) 1999 Computer Systems and Communication Lab,
#   *                    Institute of Information Science, Academia
#       *                    Sinica. All rights reserved.
#   *
#   * Redistribution and use in source and binary forms, with or without
#   * modification, are permitted provided that the following conditions
#   * are met:
#   *
#   * . Redistributions of source code must retain the above copyright
#   *   notice, this list of conditions and the following disclaimer.
#   * . Redistributions in binary form must reproduce the above copyright
#   *   notice, this list of conditions and the following disclaimer in
#   *   the documentation and/or other materials provided with the
#   *   distribution.
#   * . Neither the name of the Computer Systems and Communication Lab
#   *   nor the names of its contributors may be used to endorse or
#   *   promote products derived from this software without specific
#   *   prior written permission.
#   *
#   * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
#   * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
#   * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
#   * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
#   * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
#   * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
#   * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
#   * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
#   * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
#   * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
#   * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
#   * OF THE POSSIBILITY OF SUCH DAMAGE.
#   */
#
#  Copyright 1996 Chih-Hao Tsai @ Beckman Institute,
#      University of Illinois
#  c-tsai4@uiuc.edu  http://casper.beckman.uiuc.edu/~c-tsai4
#
#  ---------------COPYING.libtabe-----END--------------------------------
#
#
#  ---------------COPYING.ipadic-----BEGIN-------------------------------
#
#  Copyright 2000, 2001, 2002, 2003 Nara Institute of Science
#  and Technology.  All Rights Reserved.
#
#  Use, reproduction, and distribution of this software is permitted.
#  Any copy of this software, whether in its original form or modified,
#  must include both the above copyright notice and the following
#  paragraphs.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
#
#  Nara Institute of Science and Technology (NAIST),
#  the copyright holders, disclaims all warranties with regard to this
#  software, including all implied warranties of merchantability and
#  fitness, in no event shall NAIST be liable for
#  any special, indirect or consequential damages or any damages
#  whatsoever resulting from loss of use, data or profits, whether in an
#  action of contract, negligence or other tortuous action, arising out
#  of or in connection with the use or performance of this software.
#
#  A large portion of the dictionary entries
#  originate from ICOT Free Software.  The following conditions for ICOT
#  Free Software applies to the current dictionary as well.
#
#  Each User may also freely distribute the Program, whether in its
#  original form or modified, to any third party or parties, PROVIDED
#  that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
#  on, or be attached to, the Program, which is distributed substantially
#  in the same form as set out herein and that such intended
#  distribution, if actually made, will neither violate or otherwise
#  contravene any of the laws and regulations of the countries having
#  jurisdiction over the User or the intended distribution itself.
#
#  NO WARRANTY
#
#  The program was produced on an experimental basis in the course of the
#  research and development conducted during the project and is provided
#  to users as so produced on an experimental basis.  Accordingly, the
#  program is provided without any warranty whatsoever, whether express,
#  implied, statutory or otherwise.  The term "warranty" used herein
#  includes, but is not limited to, any warranty of the quality,
#  performance, merchantability and fitness for a particular purpose of
#  the program and the nonexistence of any infringement or violation of
#  any right of any third party.
#
#  Each user of the program will agree and understand, and be deemed to
#  have agreed and understood, that there is no warranty whatsoever for
#  the program and, accordingly, the entire risk arising from or
#  otherwise connected with the program is assumed by the user.
#
#  Therefore, neither ICOT, the copyright holder, or any other
#  organization that participated in or was otherwise related to the
#  development of the program and their respective officials, directors,
#  officers and other employees shall be held liable for any and all
#  damages, including, without limitation, general, special, incidental
#  and consequential damages, arising out of or otherwise in connection
#  with the use or inability to use the program or any product, material
#  or result produced or otherwise obtained by using the program,
#  regardless of whether they have been advised of, or otherwise had
#  knowledge of, the possibility of such damages at any time during the
#  project or thereafter.  Each user will be deemed to have agreed to the
#  foregoing by his or her commencement of use of the program.  The term
#  "use" as used herein includes, but is not limited to, the use,
#  modification, copying and distribution of the program and the
#  production of secondary products from the program.
#
#  In the case where the program, whether in its original form or
#  modified, was distributed or delivered to or received by a user from
#  any person, organization or entity other than ICOT, unless it makes or
#  grants independently of ICOT any specific warranty to the user in
#  writing, such person, organization or entity, will also be exempted
#  from and not be held liable to the user for any such damages as noted
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
 #  above as far as the program is concerned.
 #
 #  --------------COPYING.ipadic-----END--------------------------------

------------------------------------------------------------------------

Lao Word Break Dictionary Data (laodict.txt)

 # Copyright (C) 2016 and later: Unicode, Inc. and others.
 # License & terms of use: http://www.unicode.org/copyright.html
 # Copyright (c) 2015 International Business Machines Corporation
 # and others. All Rights Reserved.
 #
 # Project: https://github.com/rober42539/lao-dictionary
 # Dictionary: https://github.com/rober42539/lao-dictionary/laodict.txt
 # License: https://github.com/rober42539/lao-dictionary/LICENSE.txt
 #          (copied below)
 #
 #    This file is derived from the above dictionary version of Nov 22, 2020
 #  --------------------------------------------------------------------
 #  Copyright (C) 2013 Brian Eugene Wilson, Robert Martin Campbell.
 #  All rights reserved.
 #
 #  Redistribution and use in source and binary forms, with or without
 #  modification, are permitted provided that the following conditions are met:
 #
 #  Redistributions of source code must retain the above copyright notice, this
 #  list of conditions and the following disclaimer. Redistributions in binary
 #  form must reproduce the above copyright notice, this list of conditions and
 #  the following disclaimer in the documentation and/or other materials
 #  provided with the distribution.
 #
 # THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 # "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 # LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
 # FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 # COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 # INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 # (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 # SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 # HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 # STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 # ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
 # OF THE POSSIBILITY OF SUCH DAMAGE.
 #  --------------------------------------------------------------------------

------------------------------------------------------------------------

Burmese Word Break Dictionary Data (burmesedict.txt)

 #  Copyright (c) 2014 International Business Machines Corporation
 #  and others. All Rights Reserved.
 #
 #  This list is part of a project hosted at:
 #    github.com/kanyawtech/myanmar-karen-word-lists
 #
 #  ------------------------------------------------------------------------
 #  Copyright (c) 2013, LeRoy Benjamin Sharon
 #  All rights reserved.
 #
 #  Redistribution and use in source and binary forms, with or without
 #  modification, are permitted provided that the following conditions
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
 #  are met: Redistributions of source code must retain the above
 #  copyright notice, this list of conditions and the following
 #  disclaimer.  Redistributions in binary form must reproduce the
 #  above copyright notice, this list of conditions and the following
 #  disclaimer in the documentation and/or other materials provided
 #  with the distribution.
 #
 #    Neither the name Myanmar Karen Word Lists, nor the names of its
 #    contributors may be used to endorse or promote products derived
 #    from this software without specific prior written permission.
 #
 #  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 #  CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
 #  INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 #  MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 #  DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 #  BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 #  EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
 #  TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 #  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
 #  ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 #  TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
 #  THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 #  SUCH DAMAGE.
 #  ------------------------------------------------------------------------------

-------------------------------------------------------------------------

Time Zone Database

  ICU uses the public domain data and code derived from Time Zone
Database for its time zone support. The ownership of the TZ database
is explained in BCP 175: Procedure for Maintaining the Time Zone
Database section 7.

 # 7.  Database Ownership
 #
 #    The TZ database itself is not an IETF Contribution or an IETF
 #    document.  Rather it is a pre-existing and regularly updated work
 #    that is in the public domain, and is intended to remain in the
 #    public domain.  Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do
 #    not apply to the TZ Database or contributions that individuals make
 #    to it.  Should any claims be made and substantiated against the TZ
 #    Database, the organization that is providing the IANA
 #    Considerations defined in this RFC, under the memorandum of
 #    understanding with the IETF, currently ICANN, may act in accordance
 #    with all competent court orders.  No ownership claims will be made
 #    by ICANN or the IETF Trust on the database or the code.  Any person
 #    making a contribution to the database or code waives all rights to
 #    future claims in that contribution or in the TZ Database.

-------------------------------------------------------------------------

Google double-conversion

Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------------------

File: aclocal.m4 (only for ICU4C)
Section: pkg.m4 - Macros to locate and utilise pkg-config.


Copyright © 2004 Scott James Remnant <scott@netsplit.com>.
Copyright © 2012-2015 Dan Nicholson <dbn.lists@gmail.com>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA
02111-1307, USA.

As a special exception to the GNU General Public License, if you
distribute this file as part of a program that contains a
configuration script generated by Autoconf, you may include it under
the same distribution terms that you use for the rest of that
program.


(The condition for the exception is fulfilled because
ICU4C includes a configuration script generated by Autoconf,
namely the `configure` script.)

------------------------------------------------------------------------

File: config.guess (only for ICU4C)


This file is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License as published by
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
the Free Software Foundation; either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, see <https://www.gnu.org/licenses/>.

As a special exception to the GNU General Public License, if you
distribute this file as part of a program that contains a
configuration script generated by Autoconf, you may include it under
the same distribution terms that you use for the rest of that
program.  This Exception is an additional permission under section 7
of the GNU General Public License, version 3 ("GPLv3").


(The condition for the exception is fulfilled because
ICU4C includes a configuration script generated by Autoconf,
namely the `configure` script.)

------------------------------------------------------------------------

File: install-sh (only for ICU4C)


Copyright 1991 by the Massachusetts Institute of Technology

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name of M.I.T. not be used in advertising or
publicity pertaining to distribution of the software without specific,
written prior permission.  M.I.T. makes no representations about the
suitability of this software for any purpose.  It is provided "as is"
without express or implied warranty.



#####LICENSE.TXT FOR 4TH PARTY IO.NETTY:NETTY-BUFFER IO.NETTY:NETTY-COMMON
IO.NETTY:NETTY-CODEC IO.NETTY:NETTY-TRANSPORT IO.NETTY:NETTY-RESOLVER IO.NETTY:NETTY-
HANDLER IO.NETTY:NETTY-TCNATIVE-CLASSES COMPONENTS#####
Netty (io.netty:netty-*)
  Copyright 2012,2021 The Netty Project
  Copyright 2014 Twitter, Inc.
  Copyright (c) 2011, Joe Walnes and contributors
  Copyright (c) 2008-2009 Bjoern Hoehrmann <bjoern@hoehrmann.de>
  Copyright (c) 2004-2011 QOS.ch
-------------------------------------------
For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.
-------------------------------------------

                          The Netty Project
                          =================

Please visit the Netty web site for more information:

  * https://netty.io/
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

  https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in
the 'license' directory of the distribution file, for the license terms of the
components that this product depends on.

-------------------------------------------------------------------------------
This product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

  * LICENSE:
    * license/LICENSE.jsr166y.txt (Public Domain)
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates whatever
copyright the dedicators holds in the work of authorship identified below (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this
work. Certifier recognizes that his good faith efforts may not shield him from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to
the detriment of the Dedicator's heirs and successors. Dedicator intends this
dedication to be an overt act of relinquishment in perpetuity of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.
  * HOMEPAGE:
    * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
    * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/jsr166/
-------------------------------------------------------------------------------
This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:

  * LICENSE:
    * license/LICENSE.base64.txt (Public Domain)
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates whatever
copyright the dedicators holds in the work of authorship identified below (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this
work. Certifier recognizes that his good faith efforts may not shield him from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to
the detriment of the Dedicator's heirs and successors. Dedicator intends this
dedication to be an overt act of relinquishment in perpetuity of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.
  * HOMEPAGE:
    * http://iharder.sourceforge.net/current/java/base64/
--------------------------------------------------------------------------------
This product contains a modified portion of 'Webbit', an event based
WebSocket and HTTP server, which can be obtained at:

  * LICENSE:
    * license/LICENSE.webbit.txt (BSD License)
(BSD License: https://www.opensource.org/licenses/bsd-license)

Copyright (c) 2011, Joe Walnes, Aslak Hellesøy and contributors
All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the
following conditions are met:

* Redistributions of source code must retain the above
  copyright notice, this list of conditions and the
  following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the
  following disclaimer in the documentation and/or other
  materials provided with the distribution.

* Neither the name of the Webbit nor the names of
  its contributors may be used to endorse or promote products
  derived from this software without specific prior written
  permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * https://github.com/joewalnes/webbit
--------------------------------------------------------------------------------
This product contains a modified portion of 'SLF4J', a simple logging
facade for Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.slf4j.txt (MIT License)
/*
 * Copyright (c) 2004-2007 QOS.ch
 * All rights reserved.
 *
 * Permission is hereby granted, free  of charge, to any person obtaining
 * a  copy  of this  software  and  associated  documentation files  (the
 * "Software"), to  deal in  the Software without  restriction, including
 * without limitation  the rights to  use, copy, modify,  merge, publish,
 * distribute,  sublicense, and/or sell  copies of  the Software,  and to
 * permit persons to whom the Software  is furnished to do so, subject to
 * the following conditions:
 *
 * The  above  copyright  notice  and  this permission  notice  shall  be
 * included in all copies or substantial portions of the Software.
 *
 * THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 * EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 * MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 * LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 * OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 * WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
 */
  * HOMEPAGE:
    * https://www.slf4j.org/
--------------------------------------------------------------------------------
-------
This product contains a modified portion of 'Apache Harmony', an open source
Java SE, which can be obtained at:

  * NOTICE:
    * license/NOTICE.harmony.txt
Apache Harmony

Copyright 2006, 2010 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
  * LICENSE:
    * license/LICENSE.harmony.txt (Apache License 2.0)

  * HOMEPAGE:
    * https://archive.apache.org/dist/harmony/
--------------------------------------------------------------------------------
-
This product contains a modified portion of 'jbzip2', a Java bzip2 compression
and decompression library written by Matthew J. Francis. It can be obtained at:
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
  * LICENSE:
    * license/LICENSE.jbzip2.txt (MIT License)
Copyright (c) 2010-2011 Matthew J. Francis and Contributors of the jbzip2 Project

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
  * HOMEPAGE:
    * https://code.google.com/p/jbzip2/
--------------------------------------------------------------------------------
---------------
This product contains a modified portion of 'libdivsufsort', a C API library to construct
the suffix array and the Burrows-Wheeler transformed string for any input string of
a constant-size alphabet written by Yuta Mori. It can be obtained at:

  * LICENSE:
    * license/LICENSE.libdivsufsort.txt (MIT License)
Copyright (c) 2003-2008 Yuta Mori All Rights Reserved.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/y-256/libdivsufsort
--------------------------------------------------------------------------------
--------
This product contains a modified portion of Nitsan Wakart's 'JCTools', Java Concurrency
Tools for the JVM,
 which can be obtained at:
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
  * LICENSE:
    * license/LICENSE.jctools.txt (ASL2 License)
  * HOMEPAGE:
    * https://github.com/JCTools/JCTools
--------------------------------------------------------------------------------
------------
This product optionally depends on 'JZlib', a re-implementation of zlib in
pure Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jzlib.txt (BSD style License)
Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in
     the documentation and/or other materials provided with the distribution.

  3. The names of the authors may not be used to endorse or promote products
     derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT,
INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * http://www.jcraft.com/jzlib/
--------------------------------------------------------------------------------
-----------
This product optionally depends on 'Compress-LZF', a Java library for encoding and
decoding data in LZF format, written by Tatu Saloranta. It can be obtained at:

  * LICENSE:
    * license/LICENSE.compress-lzf.txt (Apache License 2.0)
Copyright 2009-2010 Ning, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not
use this file except in compliance with the License. You may obtain a copy of
the License at https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations under
the License.
  * HOMEPAGE:
    * https://github.com/ning/compress
--------------------------------------------------------------------------------
This product optionally depends on 'lz4', a LZ4 Java compression
and decompression library written by Adrien Grand. It can be obtained at:
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
  * LICENSE:
    * license/LICENSE.lz4.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jpountz/lz4-java
--------------------------------------------------------------------------------
This product optionally depends on 'lzma-java', a LZMA Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.lzma-java.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jponge/lzma-java
--------------------------------------------------------------------------------
------------
This product optionally depends on 'zstd-jni', a zstd-jni Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.zstd-jni.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/luben/zstd-jni

--------------------------------------------------------------------------------
------------
This product contains a modified portion of 'jfastlz', a Java port of FastLZ compression
and decompression library written by William Kinney. It can be obtained at:

  * LICENSE:
    * license/LICENSE.jfastlz.txt (MIT License)
The MIT License

Copyright (c) 2009 William Kinney

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://code.google.com/p/jfastlz/
--------------------------------------------------------------------------------
--------------
This product contains a modified portion of and optionally depends on 'Protocol
Buffers', Google's data
interchange format, which can be obtained at:

  * LICENSE:
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    * license/LICENSE.protobuf.txt (New BSD License)
Protocol Buffers - Google's data interchange format
Copyright 2013 Google Inc.  All rights reserved.
https://developers.google.com/protocol-buffers/

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
  * HOMEPAGE:
    * https://github.com/google/protobuf
--------------------------------------------------------------------------------
-------
This product optionally depends on 'Bouncy Castle Crypto APIs' to generate
a temporary self-signed X.509 certificate when the JVM does not provide the
equivalent functionality.  It can be obtained at:

  * LICENSE:
    * license/LICENSE.bouncycastle.txt (MIT License)
The MIT License (MIT)

Copyright (c) 2000 - 2013 The Legion of the Bouncy Castle Inc.
                          (https://www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
  * HOMEPAGE:
    * https://www.bouncycastle.org/
--------------------------------------------------------------------------------
------------
This product optionally depends on 'Snappy', a compression library produced
by Google Inc, which can be obtained at:

  * LICENSE:
    * license/LICENSE.snappy.txt (New BSD License)
Copyright 2011, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * https://github.com/google/snappy
--------------------------------------------------------------------------------
--------------
This product optionally depends on 'JBoss Marshalling', an alternative Java
serialization API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jboss-marshalling.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jboss-remoting/jboss-marshalling
--------------------------------------------------------------------------------
------------------
This product optionally depends on 'Caliper', Google's micro-
benchmarking framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.caliper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/google/caliper
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
--------------------------------------------------------------------------------
---------------
This product optionally depends on 'Apache Commons Logging', a logging
framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-logging.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://commons.apache.org/logging/
--------------------------------------------------------------------------------
----------
This product optionally depends on 'Apache Log4J', a logging framework, which
can be obtained at:

  * LICENSE:
    * license/LICENSE.log4j.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://logging.apache.org/log4j/
--------------------------------------------------------------------------------
--------
This product optionally depends on 'Aalto XML', an ultra-high performance
non-blocking XML processor, which can be obtained at:

  * LICENSE:
    * license/LICENSE.aalto-xml.txt (Apache License 2.0)
This copy of Aalto XML processor is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

https://www.apache.org/licenses/

A copy is also included with both the the downloadable source code package
and jar that contains class bytecodes, as file "ASL 2.0". In both cases,
that file should be located next to this file: in source distribution
the location should be "release-notes/asl"; and in jar "META-INF/"
  * HOMEPAGE:
    * http://wiki.fasterxml.com/AaltoHome
--------------------------------------------------------------------------------
---
This product contains a modified version of 'HPACK', a Java implementation of
the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hpack.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/twitter/hpack

--------------------------------------------------------------------------------
---------
This product contains a modified version of 'HPACK', a Java implementation of
the HTTP/2 HPACK algorithm written by Cory Benfield. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hyper-hpack.txt (MIT License)
The MIT License (MIT)

Copyright (c) 2014 Cory Benfield

Permission is hereby granted, free of charge, to any person obtaining a copy
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/python-hyper/hpack/
--------------------------------------------------------------------------------
---------------
This product contains a modified version of 'HPACK', a Java implementation of
the HTTP/2 HPACK algorithm written by Tatsuhiro Tsujikawa. It can be obtained at:

  * LICENSE:
    * license/LICENSE.nghttp2-hpack.txt (MIT License)
The MIT License

Copyright (c) 2012, 2014, 2015, 2016 Tatsuhiro Tsujikawa
Copyright (c) 2012, 2014, 2015, 2016 nghttp2 contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/nghttp2/nghttp2/
--------------------------------------------------------------------------------
-------------
This product contains a modified portion of 'Apache Commons Lang', a Java library
provides utilities for the java.lang API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-lang.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://commons.apache.org/proper/commons-lang/

--------------------------------------------------------------------------------
------------------
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
This product contains the Maven wrapper scripts from 'Maven Wrapper', that provides an
easy way to ensure a user has everything necessary to run the Maven build.

  * LICENSE:
    * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/takari/maven-wrapper
--------------------------------------------------------------------------------------
------------------
This product contains the dnsinfo.h header file, that provides a way to retrieve the
system DNS configuration on MacOS.
This private header is also used by Apple's open source
 mDNSResponder (https://opensource.apple.com/tarballs/mDNSResponder/).

 * LICENSE:
    * license/LICENSE.dnsinfo.txt (Apple Public Source License 2.0)
/*
 * Copyright (c) 2004-2006, 2008, 2009, 2011 Apple Inc. All rights reserved.
 *
 * @APPLE_LICENSE_HEADER_START@
 *
 * This file contains Original Code and/or Modifications of Original Code
 * as defined in and that are subject to the Apple Public Source License
 * Version 2.0 (the 'License'). You may not use this file except in
 * compliance with the License. Please obtain a copy of the License at
 * https://www.opensource.apple.com/apsl/ and read it before using this
 * file.
 *
 * The Original Code and all software distributed under the License are
 * distributed on an 'AS IS' basis, WITHOUT WARRANTY OF ANY KIND, EITHER
 * EXPRESS OR IMPLIED, AND APPLE HEREBY DISCLAIMS ALL SUCH WARRANTIES,
 * INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT OR NON-INFRINGEMENT.
 * Please see the License for the specific language governing rights and
 * limitations under the License.
 *
 * @APPLE_LICENSE_HEADER_END@
 */
  * HOMEPAGE:
    * https://www.opensource.apple.com/source/configd/configd-453.19/dnsinfo/dnsinfo.h
--------------------------------------------------------------------------------------
----------------------
This product optionally depends on 'Brotli4j', Brotli compression and
decompression for Java., which can be obtained at:

  * LICENSE:
    * license/LICENSE.brotli4j.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/hyperxpro/Brotli4j

#####LICENSE.TXT FOR 4TH PARTY ORG.APACHE.ANT:ANT AND ORG.APACHE.ANT:ANT-LAUNCHER
COMPONENT#####
For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

W3C SOFTWARE NOTICE AND LICENSE
https://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other
related items) is being provided by the copyright holders under the following
license. By obtaining, using and/or copying this work, you (the licensee) agree
that you have read, understood, and will comply with the following terms and
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

conditions.

Permission to copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications:

1. The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.
2. Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, the W3C Software Short Notice should be included (hypertext is preferred, text is permitted) within the body of any redistributed or derivative code.
3. Notice of any changes or modifications to the files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

This formulation of W3C's notice and license became active on December 31 2002. This version removes the copyright ownership notice such that this license can be used with materials other than those owned by the W3C, reflects that ERCIM is now a host of the W3C, includes references to this specific dated version of the license, and removes the ambiguous grant of "use". Otherwise, this version is the same as the previous version and is written so as to preserve the Free Software Foundation's assessment of GPL compatibility and OSI's certification under the Open Source Definition. Please see our Copyright FAQ for common questions about using materials from our site, including specific terms and conditions for packages like libwww, Amaya, and Jigsaw. Other questions about this notice can be directed to site-policy@w3.org.

Joseph Reagle <site-policy@w3.org>

This license came from: http://www.megginson.com/SAX/copying.html
  However please note future versions of SAX may be covered
  under http://saxproject.org/?selected=pd

SAX2 is Free!

I hereby abandon any property rights to SAX 2.0 (the Simple API for XML), and release all of the SAX 2.0 source code, compiled code, and documentation contained in this distribution into the Public Domain. SAX comes with NO WARRANTY or guarantee of fitness for any purpose.

David Megginson, david@megginson.com
2000-05-05
NOTICE.TXT FOR 4TH PARTY ORG.APACHE.ANT:ANT AND ORG.APACHE.ANT:ANT-LAUNCHER

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
COMPONENT#####
Apache Ant
Copyright 1999-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

The <sync> task is based on code Copyright (c) 2002, Landmark
Graphics Corp that has been kindly donated to the Apache Software
Foundation.

#####LICENSE.TXT FOR 4TH PARTY COM.GOOGLE.CODE.FINDBUGS:JSR305 COMPONENTS#####
Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright notice,
      this list of conditions and the following disclaimer in the documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

#####NOTICE.TXT FOR 4TH PARTY ORG.ANTLR:ANTLR ORG.ANTLR:ANTLR-RUNTIME AND ORG.ANTLR:ST4
COMPONENTS#####

Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.
Use of this file is governed by the BSD 3-clause license that
can be found in the LICENSE.txt file in the project root.




##### NOTICE.TXT FOR 4TH PARTY COM.GOOGLE.GUAVA:GUAVA, COM.GOOGLE.GUAVA:FAILUREACCESS
COM.GOOGLE.GUAVA:LISTENABLEFUTURE #####

Copyright (C) 2010 The Guava Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this
file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under
the License
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
or implied. See the License for the specific language governing permissions and
limitations under
the License.



##### NOTICE.TXT FOR 4TH PARTY COM.GITHUB.JNR:JFFI #####

Copyright (C) 2009 Wayne Meissner

This file is part of jffi.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


Alternatively, you can redistribute it and/or modify it under
the terms of the GNU Lesser General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU Lesser General Public License
for more details.

You should have received a copy of the GNU Lesser General Public License
along with this work.  If not, see <http://www.gnu.org/licenses/>.



##### NOTICE.TXT FOR 4TH PARTY COM.GITHUB.JNR:JNR-CONSTANTS #####

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.



##### NOTICE.TXT FOR 4TH PARTY COM.GITHUB.JNR:JNR-A64ASM #####

 Copyright (C) 2018 Ossdev07
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
 This file is part of the JNR project.

 Licensed under the Apache License, Version 2.0 (the "License");
 you may not use this file except in compliance with the License.
 You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.



##### NOTICE.TXT FOR 4TH PARTY COM.GITHUB.JNR:JNR-X86ASM#####

 Copyright (C) 2010 Wayne Meissner

 Permission is hereby granted, free of charge, to any person
 obtaining a copy of this software and associated documentation
 files (the "Software"), to deal in the Software without
 restriction, including without limitation the rights to use,
 copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following
 conditions:

 The above copyright notice and this permission notice shall be
 included in all copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
 OTHER DEALINGS IN THE SOFTWARE.



##### NOTICE.TXT FOR 4TH PARTY COM.GITHUB.JNR:JNR-NETDB###

Copyright (C) 2010 Wayne Meissner

This file is part of jnr.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
#####NOTICE.TXT FOR 4TH PARTY JLINE:JLINE COMPONENT#####


Copyright (c) 2002-2021, the original author or authors.

This software is distributable under the BSD license. See the terms of the
BSD license in the documentation provided with this software.

https://opensource.org/licenses/BSD-3-Clause


#####NOTICE.TXT FOR 4TH PARTY ORG.OW2.ASM:ASM ORG.OW2.ASM:ASM-COMMONS, ORG.OW2.ASM:ASM-
TREE AND ORG.OW2.ASM:ASM-ANALYSIS COMPONENT#####

ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.


#####NOTICE.TXT FOR 4TH PARTY COM.IBM.ICU:ICU4J COMPONENT#####

// © 2016 and later: Unicode, Inc. and others.
// License & terms of use: http://www.unicode.org/copyright.html

**************************************************************************
  Copyright (C) 2005-2006, International Business Machines
  Corporation and others.  All Rights Reserved.
**************************************************************************


#####NOTICE.TXT FOR 4TH PARTY COM.GOOGLE.ERRORPRONE:ERROR_PRONE_ANNOTATIONS#####

Copyright 2017 The Error Prone Authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


#####NOTICE.TXT FOR 4TH PARTY COM.GOOGLE.J2OBJC:J2OBJC-ANNOTATIONS #####

Copyright 2012 Google Inc. All Rights Reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

QOS.ch - slf4j-api License

```
Copyright (c) 2004-2023 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

SnakeYAML.org - SnakeYAML License

```
SnakeYAML
For a copy of the license, see Apache Software Foundation Licenses, Version
    2.0.

========================================================================

COPYRIGHT:
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
/**
* Copyright (c) 2008, SnakeYAML
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this
file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under
the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND,
either express
* or implied. See the License for the specific language governing permissions and
limitations under
* the License.
*/
```

SNMP4J.org - SNMP4J License

Apache License
For a copy of the license, see Apache Software Foundation Licenses, Version 2.0.

```
 Copyright 2005-2022 Frank Fock (SNMP4J.org)

 NOTICE:
   ==========================================================================
   ==  NOTICE file corresponding to the section 4 d of                     ==
   ==  the Apache License, Version 2.0,                                    ==
   ==  in this case for the SNMP4J distribution.                           ==
   ==========================================================================

   This product includes software developed by
   SNMP4J.org (http://www.snmp4j.org/).

   Please read the different LICENSE files present in the root directory of
   this distribution.

   The names "SNMP4J" and  "Apache Software Foundation"  must not be used to
   endorse  or promote  products derived  from this  software without prior
   written permission. For written permission, please contact
   info@snmp4j.org (SNMP4J) or apache@apache.org.
   ==========================================================================
```

SNMP4J.org - SNMP4J Agent License

```
==========================================================================
   ==  NOTICE file corresponding to the section 4 d of                   ==
   ==  the Apache License, Version 2.0,                                  ==
   ==  in this case for the SNMP4J distribution.                         ==
   ========================================================================

   This product includes software developed by
   SNMP4J.org (http://www.snmp4j.org/).

   Please read the different LICENSE files present in the root directory of
   this distribution.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
   The names "SNMP4J", "SNMP4J-Agent" and "Apache Software Foundation" must
   not be used to endorse  or promote  products derived  from this  software
   without prior written permission. For written permission, please contact
   info@snmp4j.org (SNMP4J) or apache@apache.org.



********************************************************************************
>>>>>> License SNMP4j Agent and SNMP4J
********************************************************************************
```

For a copy of the license, see Apache Software Foundation Licenses, Version 2.0.

Stephen Colebourne - Joda Time License

```
------------------------------ Copyright notices -------------------------

/*
 *  Copyright 2001-2013 Stephen Colebourne
 *
 *  Licensed under the Apache License, Version 2.0 (the "License");
 *  you may not use this file except in compliance with the License.
 *  You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 *  Unless required by applicable law or agreed to in writing, software
 *  distributed under the License is distributed on an "AS IS" BASIS,
 *  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 *  See the License for the specific language governing permissions and
 *  limitations under the License.
 */


=============================================================================
= NOTICE file corresponding to section 4d of the Apache License Version 2.0 =
=============================================================================
This product includes software developed by
Joda.org (https://www.joda.org/).



------------------------------ Top-level license -------------------------
```

For a copy of the license, see Apache Software Foundation Licenses, Version 2.0.

Tatsuhiro Tsujikawa - Argparse4j License

```
/*
 * Copyright (C) 2011-2021 The contributors: https://github.com/argparse4j/argparse4j/
graphs/contributors
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
 */
```

Terence Parr - ANTLR4 Java Runtime License

```
Copyright: Terence Parr
License: BSD 3-Clause

 ./LICENSE.txt

Copyright (c) 2012-2022 The ANTLR Project. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. Neither name of copyright holders nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------
```

The Apache Software Foundation - HttpComponents HttpClient License

```
Notice file:
Apache HttpComponents Client
Copyright 1999-2021 The Apache Software Foundation
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

http://www.apache.org/licenses/LICENSE-2.0

Apache License

For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

================================================================================

This project includes Public Suffix List copied from
<https://publicsuffix.org/list/effective_tld_names.dat>
licensed under the terms of the Mozilla Public License, v. 2.0

Full license text: <http://mozilla.org/MPL/2.0/>

Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

    (a) that the initial Contributor has attached the notice described
        in Exhibit B to the Covered Software; or

    (b) that the Covered Software was made available under the terms of
        version 1.1 or earlier of the License, but not also under the
        terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.

1.8. "License"
    means this document.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
    means any of the following:

    (a) any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered
        Software; or

    (b) any new file in Source Code Form that contains any Covered
        Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
recipient of ordinary skill to be able to understand it.

5. Termination
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
  defined by the Mozilla Public License, v. 2.0.

--------------------4th party dependencies---------------------------------

Apache HttpComponents Core
From the Notice File:
    Apache HttpComponents Core
    Copyright 2005-2020 The Apache Software Foundation

    This product includes software developed at
    The Apache Software Foundation (http://www.apache.org/).
License File:
    Apache License Version 2.0


Apache Commons Logging
From the Notice File:
    Apache Commons Logging
    Copyright 2003-2014 The Apache Software Foundation

    This product includes software developed at
    The Apache Software Foundation (http://www.apache.org/).
License File:
    Apache License Version 2.0


Apache Commons Codec
From the Notice File:
    Apache Commons Codec
    Copyright 2002-2017 The Apache Software Foundation

    This product includes software developed at
    The Apache Software Foundation (http://www.apache.org/).

    src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
    contains test data from http://aspell.net/test/orig/batch0.tab.
    Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

    ===============================================================================

    The content of package org.apache.commons.codec.language.bm has been translated
    from the original php source code available at http://stevemorse.org/phoneticinfo.htm
    with permission from the original authors.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    Original source copyright:
    Copyright (c) 2008 Alexander Beider & Stephen P. Morse.
License File:
    Apache License Version 2.0
```

The Apache Software Foundation - Commons IO License

```
Apache Commons IO
Copyright 2002-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
--
Apache License
For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.
```

The Apache Software Foundation - Commons Collections License

```
NOTICE
Apache Commons Collections
Copyright 2001-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

LICENSE
For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.
```

The Apache Software Foundation - Commons Logging License

```
Apache Commons Logging
Copyright 2001-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

  Apache License
For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.
```

The Apache Software Foundation - Commons Lang License

```
NOTICE:
Apache Commons Lang
Copyright 2001-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).


LICENSE: Apache 2.0
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

For a copy of the license, see Apache Software Foundation Licenses, Version 2.0.

The Apache Software Foundation - Commons Text License

Copyright: The Apache Software Foundation
License: Apache 2.0

./LICENSE.txt

For a copy of the license, see Apache Software Foundation Licenses, Version 2.0.

---------- Separator ----------

./NOTICE.txt

Apache Commons Text
Copyright 2014-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

---------- Separator ----------

Dependency: org.apache.commons:commons-lang3
Copyright: The Apache Software Foundation
License: Apache 2.0

./LICENSE.txt

Apache 2.0 (same as org.apache.commons:commons-text)

---------- Separator ----------

./NOTICE.txt

Apache Commons Lang
Copyright 2001-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

---------- Separator ----------

The Apache Software Foundation - Commons Math License

Apache Commons Math
Copyright 2001-2019 The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
This product includes software developed for Orekit by
CS Systèmes d'Information (http://www.c-s.fr/)
Copyright 2010-2012 CS Systèmes d'Information

For a copy of the license, see Apache Software Foundation Licenses, Version 2.0.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Apache Commons Math includes the following code provided to the ASF under the
Apache License 2.0:
 - The inverse error function implementation in the Erf class is based on CUDA
   code developed by Mike Giles, Oxford-Man Institute of Quantitative Finance,
   and published in GPU Computing Gems, volume 2, 2010 (grant received on
   March 23th 2013)
 - The LinearConstraint, LinearObjectiveFunction, LinearOptimizer,
   RelationShip, SimplexSolver and SimplexTableau classes in package
   org.apache.commons.math3.optimization.linear include software developed by
   Benjamin McCann (http://www.benmccann.com) and distributed with
   the following copyright: Copyright 2009 Google Inc. (grant received on
   March 16th 2009)
 - The class "org.apache.commons.math3.exception.util.LocalizedFormatsTest" which
   is an adapted version of "OrekitMessagesTest" test class for the Orekit library
 - The "org.apache.commons.math3.analysis.interpolation.HermiteInterpolator"
   has been imported from the Orekit space flight dynamics library.
================================================================================

APACHE COMMONS MATH DERIVATIVE WORKS:
The Apache commons-math library includes a number of subcomponents
whose implementation is derived from original sources written
in C or Fortran.  License terms of the original sources
are reproduced below.
================================================================================
For the lmder, lmpar and qrsolv Fortran routine from minpack and translated in
the LevenbergMarquardtOptimizer class in package
org.apache.commons.math3.optimization.general
Original source copyright and license statement:
Minpack Copyright Notice (1999) University of Chicago.  All rights reserved
Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the
following conditions are met:
1. Redistributions of source code must retain the above
copyright notice, this list of conditions and the following
disclaimer.
2. Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials
provided with the distribution.
3. The end-user documentation included with the
redistribution, if any, must include the following
acknowledgment:
   "This product includes software developed by the
   University of Chicago, as Operator of Argonne National
   Laboratory.
Alternately, this acknowledgment may appear in the software
itself, if and wherever such third-party acknowledgments
normally appear.
4. WARRANTY DISCLAIMER. THE SOFTWARE IS SUPPLIED "AS IS"
WITHOUT WARRANTY OF ANY KIND. THE COPYRIGHT HOLDER, THE
UNITED STATES, THE UNITED STATES DEPARTMENT OF ENERGY, AND
THEIR EMPLOYEES: (1) DISCLAIM ANY WARRANTIES, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE
OR NON-INFRINGEMENT, (2) DO NOT ASSUME ANY LEGAL LIABILITY
OR RESPONSIBILITY FOR THE ACCURACY, COMPLETENESS, OR
USEFULNESS OF THE SOFTWARE, (3) DO NOT REPRESENT THAT USE OF
THE SOFTWARE WOULD NOT INFRINGE PRIVATELY OWNED RIGHTS, (4)
DO NOT WARRANT THAT THE SOFTWARE WILL FUNCTION
UNINTERRUPTED, THAT IT IS ERROR-FREE OR THAT ANY ERRORS WILL
BE CORRECTED.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
5. LIMITATION OF LIABILITY. IN NO EVENT WILL THE COPYRIGHT
HOLDER, THE UNITED STATES, THE UNITED STATES DEPARTMENT OF
ENERGY, OR THEIR EMPLOYEES: BE LIABLE FOR ANY INDIRECT,
INCIDENTAL, CONSEQUENTIAL, SPECIAL OR PUNITIVE DAMAGES OF
ANY KIND OR NATURE, INCLUDING BUT NOT LIMITED TO LOSS OF
PROFITS OR LOSS OF DATA, FOR ANY REASON WHATSOEVER, WHETHER
SUCH LIABILITY IS ASSERTED ON THE BASIS OF CONTRACT, TORT
(INCLUDING NEGLIGENCE OR STRICT LIABILITY), OR OTHERWISE,
EVEN IF ANY OF SAID PARTIES HAS BEEN WARNED OF THE
POSSIBILITY OF SUCH LOSS OR DAMAGES.
===============================================================================
Copyright and license statement for the odex Fortran routine developed by
E. Hairer and G. Wanner and translated in GraggBulirschStoerIntegrator class
in package org.apache.commons.math3.ode.nonstiff:
Copyright (c) 2004, Ernst Hairer
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
- Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
===============================================================================
Copyright and license statement for the original Mersenne twister C
routines translated in MersenneTwister class in package
org.apache.commons.math3.random:
   Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
   All rights reserved.
   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions
   are met:
     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.
     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in the
        documentation and/or other materials provided with the distribution.
     3. The names of its contributors may not be used to endorse or promote
        products derived from this software without specific prior written
        permission.
   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
   CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
   EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
   PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
   PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
   LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
   NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
   SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
================================================================================
The initial code for shuffling an array (originally in class
"org.apache.commons.math3.random.RandomDataGenerator", now replaced by
a method in class "org.apache.commons.math3.util.MathArrays") was
inspired from the algorithm description provided in
"Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999).
The textbook (containing a proof that the shuffle is uniformly random) is
available here:
  http://citeseerx.ist.psu.edu/viewdoc/download;?doi=10.1.1.173.1898&rep=rep1&type=pdf
================================================================================
License statement for the direction numbers in the resource files for Sobol sequences.
--------------------------------------------------------------------------------
Licence pertaining to sobol.cc and the accompanying sets of direction numbers
--------------------------------------------------------------------------------
Copyright (c) 2008, Frances Y. Kuo and Stephen Joe
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the names of the copyright holders nor the names of the
      University of New South Wales and the University of Waikato
      and its contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS ``AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
================================================================================
The initial commit of package "org.apache.commons.math3.ml.neuralnet" is
an adapted version of code developed in the context of the Data Processing
and Analysis Consortium (DPAC) of the "Gaia" project of the European Space
Agency (ESA).
================================================================================
The initial commit of the class "org.apache.commons.math3.special.BesselJ" is
an adapted version of code translated from the netlib Fortran program, rjbesl
http://www.netlib.org/specfun/rjbesl by R.J. Cody at Argonne National
Laboratory (USA).  There is no license or copyright statement included with the
original Fortran sources.
================================================================================
The BracketFinder (package org.apache.commons.math3.optimization.univariate)
and PowellOptimizer (package org.apache.commons.math3.optimization.general)
classes are based on the Python code in module "optimize.py" (version 0.5)
developed by Travis E. Oliphant for the SciPy library (http://www.scipy.org/)
Copyright © 2003-2009 SciPy Developers.
SciPy license
Copyright © 2001, 2002 Enthought, Inc.
All rights reserved.
Copyright © 2003-2013 SciPy Developers.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of Enthought nor the names of the SciPy Developers may
      be used to endorse or promote products derived from this software without
      specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS “AS IS” AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

The Apache Software Foundation - log4j-1.2-api License

```
Top Level Component Name : log4j-1.2-api
Dependency Component Name : org.apache.logging.log4j » log4j-api
Top Level Component License and Dependency Component License:
Apache License
For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

Top Level Component and dependency Copyright:

Apache Log4j
Copyright 1999-2023 Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

ResolverUtil.java
Copyright 2005-2006 Tim Fennell

Dumbster SMTP test server
Copyright 2004 Jason Paul Kitchen

TypeUtil.java
Copyright 2002-2012 Ramnivas Laddad, Juergen Hoeller, Chris Beams

picocli (http://picocli.info)
Copyright 2017 Remko Popma

Apache Log4j
Copyright 1999-2021 Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

ResolverUtil.java
Copyright 2005-2006 Tim Fennell

Dumbster SMTP test server
Copyright 2004 Jason Paul Kitchen

TypeUtil.java
Copyright 2002-2012 Ramnivas Laddad, Juergen Hoeller, Chris Beams
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
picocli (http://picocli.info)
Copyright 2017 Remko Popma

TimeoutBlockingWaitStrategy.java and parts of Util.java
Copyright 2011 LMAX Ltd.

-------------------------- Fourth Party dependencies --------------------------
Dependency: org.apache.logging.log4j:log4j-api
```

The Apache Software Foundation - Log4j-API License

```
Apache License
For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

---------- Notice.txt Log4j-api -------

Apache Log4j API
Copyright 1999-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


---------- Notice.txt Log4j -------

Apache Log4j
Copyright 1999-2023 Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

ResolverUtil.java
Copyright 2005-2006 Tim Fennell

Dumbster SMTP test server
Copyright 2004 Jason Paul Kitchen

TypeUtil.java
Copyright 2002-2012 Ramnivas Laddad, Juergen Hoeller, Chris Beams

picocli (http://picocli.info)
Copyright 2017 Remko Popma

TimeoutBlockingWaitStrategy.java and parts of Util.java
Copyright 2011 LMAX Ltd.
```

The Apache Software Foundation - log4j-core License

```
Apache License
For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

------------------------------------------------------------------------------
Notice:
Apache Log4j Core
Copyright 1999-2012 Apache Software Foundation

This product includes software developed at
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
The Apache Software Foundation (http://www.apache.org/).

ResolverUtil.java
Copyright 2005-2006 Tim Fennell

---------------------------------------------------------------------------------------

Apache Log4j
Copyright 1999-2023 Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

ResolverUtil.java
Copyright 2005-2006 Tim Fennell

Dumbster SMTP test server
Copyright 2004 Jason Paul Kitchen

TypeUtil.java
Copyright 2002-2012 Ramnivas Laddad, Juergen Hoeller, Chris Beams

picocli (http://picocli.info)
Copyright 2017 Remko Popma

TimeoutBlockingWaitStrategy.java and parts of Util.java
Copyright 2011 LMAX Ltd.
---------------------------------------------------------------------------------------

Fourth Party Dependencies

org.apache.logging.log4j » log4j-api
The Apache License, Version 2.0

Notice:

Apache Log4j API
Copyright 1999-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

The Apache Software Foundation - Mina SSHD-core License

```
NOTICE.TXT
========
Apache MINA SSHD
Copyright 2008-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Please refer to each LICENSE.<component>.txt file for the
license terms of the components that Apache MINA depends on.

Message logging is provided by the SLF4J library package,
which is open source software, written by Ceki GÃ¼lcÃ¼, and
copyright by SLF4J.ORG and QOS.ch.  The original software is
available from

   http://www.slf4j.org/
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
************************************
Apache License
For a copy of the license, see Apache Software Foundation Licenses, Version
    2.0.

*****************************************************

== NAME OF DEPENDENCY 1 : sshd-common
.
== License Type : Apache-2.0

== NAME OF DEPENDENCY 2: slf4j-api

== License Type: MIT
.
slf4j-api
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

The Apache Software Foundation - Mina SSHD-sftp License

```
Apache License
For a copy of the license, see Apache Software Foundation Licenses, Version
    2.0.
.
.
------------------------------ Copyright notices -------------------------
Apache MINA SSHD
Copyright 2008-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Please refer to each LICENSE.<component>.txt file for the
license terms of the components that Apache MINA depends on.
.
.
.
--------------------------- Fourth-party information ----------------------

Fourth-Party Dependencies
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
org.apache.sshd:sshd-core
org.apache.sshd:sshd-common

== Copyright Notices
Apache MINA SSHD
Copyright 2008-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Please refer to each LICENSE.<component>.txt file for the
license terms of the components that Apache MINA depends on.

License: Apache 2.0 (see above)

================================================================================================
==================

Fourth-Party Dependencies

  org.slf4j slf4j-api


  License : MIT License

  Common Copyright:
  Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
  All rights reserved.

  Permission is hereby granted, free  of charge, to any person obtaining
  a  copy  of this  software  and  associated  documentation files  (the
  "Software"), to  deal in  the Software without  restriction, including
  without limitation  the rights to  use, copy, modify,  merge, publish,
  distribute,  sublicense, and/or sell  copies of  the Software,  and to
  permit persons to whom the Software  is furnished to do so, subject to
  the following conditions:

  The  above  copyright  notice  and  this permission  notice  shall  be
  included in all copies or substantial portions of the Software.

  THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
  EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
  MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
  NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
  LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
  OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
  WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

================================================================================================
==================
org.slf4j jcl-over-slf4j

Notice:
/*
 * Copyright 2001-2004 The Apache Software Foundation.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */


License: Apache 2.0 (See above)
```

The Apache Software Foundation - Mina SSHD-common License

```
Apache MINA SSHD
Copyright 2018-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

################################################################################

Apache License
For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

################################################################################

// ------------------------------------------------------------------
// Transitive dependencies of this project determined from the
// maven pom organized by organization.
// ------------------------------------------------------------------

Apache MINA SSHD

From: 'QOS.ch' (http://www.qos.ch)
  - JCL 1.2 implemented over SLF4J (http://www.slf4j.org) org.slf4j:jcl-over-
slf4j:jar:1.7.32
    License: Apache License, Version 2.0  (https://www.apache.org/licenses/
LICENSE-2.0.txt)

From: 'Simple Logging Facade for Java' (https://www.slf4j.org/)
  - SLF4J API Module (http://www.slf4j.org/slf4j-api) org.slf4j:slf4j-
api:jar:1.7.32:compile
    License: MIT style  (http://www.slf4j.org/license.html)


SLF4J source code and binaries are distributed under the MIT license.
Copyright (c) 2004-2017 QOS.ch All rights reserved. Permission is hereby granted, free
of charge, to any person obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without restriction, including without
limitation the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions: The above copyright notice and
this permission notice shall be included in all copies or substantial portions of the
Software. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.
These terms are identical to those of the MIT License, also called the X License or the
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
X11 License, which is a simple, permissive non-copyleft free software license. It is
deemed compatible with virtually all types of licenses, commercial or otherwise. In
particular, the Free Software Foundation has declared it compatible with GNU GPL. It is
also known to be approved by the Apache Software Foundation as compatible with Apache
Software License.

################################################################################
```

The Apache Software Foundation - Xerces2 Java License

```
Apache License
For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

------------------------------------------------------------
 Top Level Notice :
 ============================================================================
   ==  NOTICE file corresponding to section 4(d) of the Apache License,   ==
   ==  Version 2.0, in this case for the Apache Xerces Java distribution. ==
   ======================================================

   Apache Xerces Java
   Copyright 1999-2022 The Apache Software Foundation

   This product includes software developed at
   The Apache Software Foundation (http://www.apache.org/).

   Portions of this software were originally based on the following:
     - software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
     - software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
     - voluntary contributions made by Paul Eng on behalf of the
       Apache Software Foundation that were originally developed at iClick, Inc.,
       software copyright (c) 1999.
```

The Apache Software Foundation - httpclient5 License

```
Apache License
For a copy of the license, see Apache Software Foundation Licenses, Version
   2.0.

============================================================================

This project includes Public Suffix List copied from
<https://publicsuffix.org/list/effective_tld_names.dat>
licensed under the terms of the Mozilla Public License, v. 2.0

Full license text: <http://mozilla.org/MPL/2.0/>

Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
means Covered Software of a particular Contributor.

1.4. "Covered Software"
means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

(a) that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"
means any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"
means the form of the work preferred for making modifications.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

Copyright © 2015, 2025, Oracle and/or its affiliates.

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  ------------------------                                            *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
  defined by the Mozilla Public License, v. 2.0.
Footer
© 2023 GitHub, Inc.
Footer navigation
Terms
Privacy
Security
Status
Docs
------------------------------------------------------------------------------------------------
-----------------------------------------------
Notice.txt
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Apache HttpComponents Client
Copyright 1999-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
--------------------------------------------------------------------------------
--------------------------------------------
Fourth Party Dependencies
org.apache.httpcomponents.core5 » httpcore5
Apache License, Version 2.0

Notice.txt
Apache HttpComponents Core
Copyright 2005-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
--------------------------------------------------------------------------
org.apache.httpcomponents.core5 » httpcore5-h2
Apache License, Version 2.0

Notice.txt
Apache HttpComponents Core
Copyright 2005-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

--------------------------------------------------------------------------
org.slf4j » slf4j-api

Copyright (c) 2004-2023 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

These terms are identical to those of the MIT License, also called the X License or the
X11 License, which is a simple, permissive non-copyleft free software license. It is
deemed compatible with virtually all types of licenses, commercial or otherwise. In
particular, the Free Software Foundation has declared it compatible with GNU GPL. It is
also known to be approved by the Apache Software Foundation as compatible with Apache
Software License.
--------------------------------------------------------------------------------
--------------------------------------------
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

The Perl Foundation - Perl License

```
PERL License details -

Perl is Copyright (C) 1993 - 2023 by Larry Wall and others.

All rights reserved.

# ABOUT PERL

Perl is a general-purpose programming language originally developed for
text manipulation and now used for a wide range of tasks including
system administration, web development, network programming, GUI
development, and more.

The language is intended to be practical (easy to use, efficient,
complete) rather than beautiful (tiny, elegant, minimal).  Its major
features are that it's easy to use, supports both procedural and
object-oriented (OO) programming, has powerful built-in support for text
processing, and has one of the world's most impressive collections of
third-party modules.

For an introduction to the language's features, see pod/perlintro.pod.

For a discussion of the important changes in this release, see
pod/perldelta.pod.

There are also many Perl books available, covering a wide variety of topics,
from various publishers.  See pod/perlbook.pod for more information.
# LICENSING

This program is free software; you can redistribute it and/or modify
it under the terms of either:

a.  the GNU General Public License as published by the Free
    Software Foundation; either version 1, or (at your option) any
    later version, or

b.  the "Artistic License" which comes with this Kit.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See either
the GNU General Public License or the Artistic License for more details.

You should have received a copy of the Artistic License with this
Kit, in the file named "Artistic".  If not, I'll be glad to provide one.

You should also have received a copy of the GNU General Public License
along with this program in the file named "Copying". If not, write to the
Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor,
Boston, MA 02110-1301, USA or visit their web page on the internet at
https://www.gnu.org/copyleft/gpl.html.

For those of you that choose to use the GNU General Public License,
my interpretation of the GNU General Public License is that no Perl
script falls under the terms of the GPL unless you explicitly put
said script under the terms of the GPL yourself.  Furthermore, any
object code linked with perl does not automatically fall under the
terms of the GPL, provided such object code only adds definitions
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

of subroutines and variables, and does not otherwise impair the
resulting interpreter from executing any standard Perl script. I
consider linking in C subroutines in this manner to be the moral
equivalent of defining subroutines in the Perl language itself. You
may sell such an object file as proprietary provided that you provide
or offer to provide the Perl source, as specified by the GNU General
Public License. (This is merely an alternate way of specifying input
to the program.) You may also sell a binary produced by the dumping of
a running Perl script that belongs to you, provided that you provide or
offer to provide the Perl source as specified by the GPL. (The
fact that a Perl interpreter and your code are in the same binary file
is, in this case, a form of mere aggregation.) This is my interpretation
of the GPL. If you still have concerns or difficulties understanding
my intent, feel free to contact me. Of course, the Artistic License
spells all this out for your protection, so you may prefer to use that.

                    GNU GENERAL PUBLIC LICENSE
                     Version 1, February 1989

 Copyright (C) 1989 Free Software Foundation, Inc.
                    51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                             Preamble

  The license agreements of most software companies try to keep users
at the mercy of those companies. By contrast, our General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. The
General Public License applies to the Free Software Foundation's
software and to any other program whose authors commit to using it.
You can use it for your programs, too.

  When we speak of free software, we are referring to freedom, not
price. Specifically, the General Public License is designed to make
sure that you have the freedom to give away or sell copies of free
software, that you receive source code or can get it if you want it,
that you can change the software or use pieces of it in new free
programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of a such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must tell them their rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
  The precise terms and conditions for copying, distribution and
modification follow.
                    GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any program or other work which
contains a notice placed by the copyright holder saying it may be
distributed under the terms of this General Public License.  The
"Program", below, refers to any such program or work, and a "work based
on the Program" means either the Program or any work containing the
Program or a portion of it, either verbatim or with modifications.  Each
licensee is addressed as "you".

  1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and
disclaimer of warranty; keep intact all the notices that refer to this
General Public License and to the absence of any warranty; and give any
other recipients of the Program a copy of this General Public License
along with the Program.  You may charge a fee for the physical act of
transferring a copy.

  2. You may modify your copy or copies of the Program or any portion of
it, and copy and distribute such modifications under the terms of Paragraph
1 above, provided that you also do the following:

    a) cause the modified files to carry prominent notices stating that
    you changed the files and the date of any change; and

    b) cause the whole of any work that you distribute or publish, that
    in whole or in part contains the Program or any part thereof, either
    with or without modifications, to be licensed at no charge to all
    third parties under the terms of this General Public License (except
    that you may choose to grant warranty protection to some or all
    third parties, at your option).

    c) If the modified program normally reads commands interactively when
    run, you must cause it, when started running for such interactive use
    in the simplest and most usual way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this General
    Public License.

    d) You may charge a fee for the physical act of transferring a
    copy, and you may at your option offer warranty protection in
    exchange for a fee.

Mere aggregation of another independent work with the Program (or its
derivative) on a volume of a storage or distribution medium does not bring
the other work under the scope of these terms.
  3. You may copy and distribute the Program (or a portion or derivative of
it, under Paragraph 2) in object code or executable form under the terms of
Paragraphs 1 and 2 above provided that you also do one of the following:

    a) accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of
    Paragraphs 1 and 2 above; or,

    b) accompany it with a written offer, valid for at least three
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

years, to give any third party free (except for a nominal charge
for the cost of distribution) a complete machine-readable copy of the
corresponding source code, to be distributed under the terms of
Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the
corresponding source code may be obtained. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making
modifications to it. For an executable file, complete source code means
all the source code for all modules it contains; but, as a special
exception, it need not include source code for modules which are standard
libraries that accompany the operating system on which the executable
file runs, or for standard header files or definitions files that
accompany that operating system.

4. You may not copy, modify, sublicense, distribute or transfer the
Program except as expressly provided under this General Public License.
Any attempt otherwise to copy, modify, sublicense, distribute or transfer
the Program is void, and will automatically terminate your rights to use
the Program under this License. However, parties who have received
copies, or rights to use copies, from you under this General Public
License will not have their licenses terminated so long as such parties
remain in full compliance.

5. By copying, distributing or modifying the Program (or any work based
on the Program) you indicate your acceptance of this license to do so,
and all its terms and conditions.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the original
licensor to copy, distribute or modify the Program subject to these
terms and conditions. You may not impose any further restrictions on the
recipients' exercise of the rights granted herein.
7. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of the license which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
the license, you may choose any version ever published by the Free Software
Foundation.

8. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

9. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

                    END OF TERMS AND CONDITIONS


Exceptions
------------
The Perl distribution contains the Perl interpreter and many Perl modules.
Most Perl modules  use the "perl license" as described in the section LICENSING above.
There are a few modules whose licensing or Copyright text is different.

If a Perl module has the same licensing terms as Perl itself, but has a different
Copyright text, the module name along with the Copyright text is presented.

If a Perl module has a different Copyright text and a different license, then both
the Copyright text and the license text is presented for the module.

These modules are noted below:

bin/streamzip
-----------------
Copyright (c) 2019-2021 Paul Marquess. All rights reserved.


bin/zipdetails
-----------------
Copyright (c) 2011-2021 Paul Marquess. All rights reserved.


bin/encguess
-----------------
Copyright 2015 Michael LaGrasta and Dan Kogai.


bin/pod2text
-----------------
Copyright 1999-2001, 2004, 2006, 2008, 2010, 2012-2019, 2022 Russ Allbery


bin/corelist
-----------------
Copyright (c) 2002-2007 by D.H. aka PodMaster


bin/pod2man
-----------------
Copyright 1999-2001, 2004, 2006, 2008, 2010, 2012-2019, 2022 Russ Allbery
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
bin/cpan
-----------------
Copyright (c) 2001-2015, brian d foy, All Rights Reserved.


bin/dbiproxy
-----------------
    Copyright (c) 1997    Jochen Wiedmann


bin/podchecker
-----------------
# Copyright (c) 1998-2000 by Bradford Appleton. All rights reserved.


bin/json_pp
-----------------
Copyright 2010 by Makamaka Hannyaharamitu


bin/shasum
-----------------
    ## Copyright (C) 2003-2023 Mark Shelor, All Rights Reserved
Copyright (C) 2003-2023 Mark Shelor <mshelor@cpan.org>.


bin/dbiprof
-----------------
Copyright (C) 2002 Sam Tregar


bin/h2xs
-----------------
Copyright (C) ${\(1900 + (localtime) [5])} by $author


bin/ptargrep
-----------------
Copyright 2010 Grant McLean E<lt>grantm@cpan.orgE<gt>


bin/pod2usage
-----------------
# Copyright (c) 1996-2000 by Bradford Appleton. All rights reserved.
# Copyright (c) 2001-2016 by Marek Rouchal.


expat/lib/cmake/expat-2.5.0/expat-config.cmake
-----------------
# Copyright (c) 2019 Expat development team
# Licensed under the MIT license:
#
# Permission is  hereby granted,  free of charge,  to any  person obtaining
# a  copy  of  this  software  and  associated  documentation  files  (the
# "Software"),  to  deal in  the  Software  without restriction,  including
# without  limitation the  rights  to use,  copy,  modify, merge,  publish,
# distribute, sublicense, and/or sell copies of the Software, and to permit
# persons  to whom  the Software  is  furnished to  do so,  subject to  the
# following conditions:
#
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
# The above copyright  notice and this permission notice  shall be included
# in all copies or substantial portions of the Software.
#
# THE  SOFTWARE  IS  PROVIDED  "AS  IS",  WITHOUT  WARRANTY  OF  ANY  KIND,
# EXPRESS  OR IMPLIED,  INCLUDING  BUT  NOT LIMITED  TO  THE WARRANTIES  OF
# MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN
# NO EVENT SHALL THE AUTHORS OR  COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
# DAMAGES OR  OTHER LIABILITY, WHETHER  IN AN  ACTION OF CONTRACT,  TORT OR
# OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
# USE OR OTHER DEALINGS IN THE SOFTWARE.
#


expat/include/expat_external.h
----------------
   Copyright (c) 1997-2000 Thai Open Source Software Center Ltd
   Copyright (c) 2000      Clark Cooper <coopercc@users.sourceforge.net>
   Copyright (c) 2000-2004 Fred L. Drake, Jr. <fdrake@users.sourceforge.net>
   Copyright (c) 2001-2002 Greg Stein <gstein@users.sourceforge.net>
   Copyright (c) 2002-2006 Karl Waclawek <karl@waclawek.net>
   Copyright (c) 2016      Cristian Rodríguez <crrodriguez@opensuse.org>
   Copyright (c) 2016-2019 Sebastian Pipping <sebastian@pipping.org>
   Copyright (c) 2017      Rhodri James <rhodri@wildebeest.org.uk>
   Copyright (c) 2018      Yury Gribov <tetra2005@gmail.com>
   Licensed under the MIT license:

   Permission is  hereby granted,  free of charge,  to any  person obtaining
   a  copy  of  this  software  and  associated  documentation  files  (the
   "Software"),  to  deal in  the  Software  without restriction,  including
   without  limitation the  rights  to use,  copy,  modify, merge,  publish,
   distribute, sublicense, and/or sell copies of the Software, and to permit
   persons  to whom  the Software  is  furnished to  do so,  subject to  the
   following conditions:

   The above copyright  notice and this permission notice  shall be included
   in all copies or substantial portions of the Software.

   THE  SOFTWARE  IS  PROVIDED  "AS  IS",  WITHOUT  WARRANTY  OF  ANY  KIND,
   EXPRESS  OR IMPLIED,  INCLUDING  BUT  NOT LIMITED  TO  THE WARRANTIES  OF
   MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN
   NO EVENT SHALL THE AUTHORS OR  COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
   DAMAGES OR  OTHER LIABILITY, WHETHER  IN AN  ACTION OF CONTRACT,  TORT OR
   OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
   USE OR OTHER DEALINGS IN THE SOFTWARE.


expat/include/expat.h
----------------
   Copyright (c) 1997-2000 Thai Open Source Software Center Ltd
   Copyright (c) 2000      Clark Cooper <coopercc@users.sourceforge.net>
   Copyright (c) 2000-2005 Fred L. Drake, Jr. <fdrake@users.sourceforge.net>
   Copyright (c) 2001-2002 Greg Stein <gstein@users.sourceforge.net>
   Copyright (c) 2002-2016 Karl Waclawek <karl@waclawek.net>
   Copyright (c) 2016-2022 Sebastian Pipping <sebastian@pipping.org>
   Copyright (c) 2016      Cristian Rodríguez <crrodriguez@opensuse.org>
   Copyright (c) 2016      Thomas Beutlich <tc@tbeu.de>
   Copyright (c) 2017      Rhodri James <rhodri@wildebeest.org.uk>
   Copyright (c) 2022      Thijs Schreijer <thijs@thijsschreijer.nl>
   Licensed under the MIT license:

   Permission is  hereby granted,  free of charge,  to any  person obtaining
   a  copy  of  this  software  and  associated  documentation  files  (the
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
   "Software"),  to  deal in  the  Software  without restriction,  including
   without  limitation the  rights  to use,  copy,  modify, merge,  publish,
   distribute, sublicense, and/or sell copies of the Software, and to permit
   persons  to whom  the Software  is  furnished to  do so,  subject to  the
   following conditions:

   The above copyright  notice and this permission notice  shall be included
   in all copies or substantial portions of the Software.

   THE  SOFTWARE  IS  PROVIDED  "AS  IS",  WITHOUT  WARRANTY  OF  ANY  KIND,
   EXPRESS  OR IMPLIED,  INCLUDING  BUT  NOT LIMITED  TO  THE WARRANTIES  OF
   MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN
   NO EVENT SHALL THE AUTHORS OR  COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
   DAMAGES OR  OTHER LIABILITY, WHETHER  IN AN  ACTION OF CONTRACT,  TORT OR
   OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
   USE OR OTHER DEALINGS IN THE SOFTWARE.


lib/5.38.2/x86_64-linux-thread-multi/IPC/Semaphore.pm
-----------------
#  Version 2.x, Copyright (C) 2007-2013, Marcus Holland-Moritz <mhx@cpan.org>.
#  Version 1.x, Copyright (C) 1997, Graham Barr <gbarr@pobox.com>.
Version 2.x, Copyright (C) 2007-2013, Marcus Holland-Moritz.
Version 1.x, Copyright (c) 1997, Graham Barr.


lib/5.38.2/x86_64-linux-thread-multi/IPC/SharedMem.pm
-----------------
#  Version 2.x, Copyright (C) 2007-2013, Marcus Holland-Moritz <mhx@cpan.org>.
#  Version 1.x, Copyright (C) 1997, Graham Barr <gbarr@pobox.com>.
Version 2.x, Copyright (C) 2007-2013, Marcus Holland-Moritz.
Version 1.x, Copyright (c) 1997, Graham Barr.


lib/5.38.2/x86_64-linux-thread-multi/IPC/SysV.pm
-----------------
#  Version 2.x, Copyright (C) 2007-2013, Marcus Holland-Moritz <mhx@cpan.org>.
#  Version 1.x, Copyright (C) 1997, Graham Barr <gbarr@pobox.com>.
Version 2.x, Copyright (C) 2007-2013, Marcus Holland-Moritz.
Version 1.x, Copyright (c) 1997, Graham Barr.


lib/5.38.2/x86_64-linux-thread-multi/IPC/Msg.pm
-----------------
#  Version 2.x, Copyright (C) 2007-2013, Marcus Holland-Moritz <mhx@cpan.org>.
#  Version 1.x, Copyright (C) 1997, Graham Barr <gbarr@pobox.com>.
Version 2.x, Copyright (C) 2007-2013, Marcus Holland-Moritz.
Version 1.x, Copyright (c) 1997, Graham Barr.


lib/5.38.2/x86_64-linux-thread-multi/MIME/QuotedPrint.pm
-----------------
Copyright 1995-1997,2002-2004 Gisle Aas.


lib/5.38.2/x86_64-linux-thread-multi/MIME/Base64.pm
-----------------
Copyright 1995-1999, 2001-2004, 2010 Gisle Aas.
This library is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

Distantly based on LWP::Base64 written by Martijn Koster
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
<m.koster@nexor.co.uk> and Joerg Reichelt <j.reichelt@nexor.co.uk> and
code posted to comp.lang.perl <3pd2lp$6gf@wsinti07.win.tue.nl> by Hans
Mulder <hansm@wsinti07.win.tue.nl>

The XS implementation uses code from metamail.  Copyright 1991 Bell
Communications Research, Inc. (Bellcore)


lib/5.38.2/x86_64-linux-thread-multi/Encode.pm
----------------
Copyright 2002-2014 Dan Kogai I<< <dankogai@cpan.org> >>.


lib/5.38.2/x86_64-linux-thread-multi/Time/HiRes.pm
----------------
Copyright (c) 1996-2002 Douglas E. Wegscheid.  All rights reserved.
Copyright (c) 2002, 2003, 2004, 2005, 2006, 2007, 2008 Jarkko Hietaniemi.
Copyright (C) 2011, 2012, 2013 Andrew Main (Zefram) <zefram@fysh.org>


lib/5.38.2/x86_64-linux-thread-multi/Time/Piece.pm
lib/5.38.2/x86_64-linux-thread-multi/Time/Seconds.pm
----------------
Copyright 2001, Larry Wall.


lib/5.38.2/x86_64-linux-thread-multi/Sys/Syslog.pm
----------------
Copyright (C) 1990-2012 by Larry Wall and others.


lib/5.38.2/x86_64-linux-thread-multi/Cwd.pm
----------------
Copyright (c) 2004 by the Perl 5 Porters.  All rights reserved.
Portions of the C code in this library are copyright (c) 1994 by the
Regents of the University of California.  All rights reserved.  The
license on this code is compatible with the licensing of the rest of
the distribution - please see the source code in F<Cwd.xs> for the
details.


lib/5.38.2/x86_64-linux-thread-multi/Scalar/Util.pm
----------------
# Copyright (c) 1997-2007 Graham Barr <gbarr@pobox.com>. All rights reserved.
Copyright (c) 1997-2007 Graham Barr <gbarr@pobox.com>. All rights reserved.
Copyright (c) 1999 Tuomas J. Lukka <lukka@iki.fi>. All rights reserved.
Copyright (C) 2004, 2008  Matthijs van Duin.  All rights reserved.
Copyright (C) 2014 cPanel Inc.  All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/Filter/Util/Call.pm
----------------
# Copyright (c) 1995-2011 Paul Marquess. All rights reserved.
# Copyright (c) 2011-2014, 2018-2022 Reini Urban. All rights reserved.
# Copyright (c) 2014-2017 cPanel Inc. All rights reserved.
Copyright (c) 1995-2011 Paul Marquess. All rights reserved.
Copyright (c) 2011-2014, 2018-2022 Reini Urban. All rights reserved.
Copyright (c) 2014-2017 cPanel Inc. All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/Errno.pm
----------------
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Copyright (c) 1997-8 Graham Barr. All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/File/Glob.pm
-----------------
Copyright (c) 1989, 1993 The Regents of the University of California.
Redistributions of source code must retain the above copyright
Redistributions in binary form must reproduce the above copyright


lib/5.38.2/x86_64-linux-thread-multi/File/Spec.pm
-----------------
Copyright (c) 2004-2013 by the Perl 5 Porters.  All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/File/Spec/Epoc.pm
-----------------
Copyright (c) 2004 by the Perl 5 Porters.  All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/File/Spec/VMS.pm
-----------------
Copyright (c) 2004-14 by the Perl 5 Porters.  All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/File/Spec/Functions.pm
lib/5.38.2/x86_64-linux-thread-multi/File/Spec/Unix.pm
lib/5.38.2/x86_64-linux-thread-multi/File/Spec/OS2.pm
lib/5.38.2/x86_64-linux-thread-multi/File/Spec/Mac.pm
-----------------
Copyright (c) 2004 by the Perl 5 Porters.  All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/File/Spec/Win32.pm
-----------------
Copyright (c) 2004,2007 by the Perl 5 Porters.  All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/File/Spec/Cygwin.pm
-----------------
Copyright (c) 2004,2007 by the Perl 5 Porters.  All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/mro.pm
-----------------
#      Copyright (c) 2007 Brandon L Black
#      Copyright (c) 2008,2009 Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/I18N/Langinfo.pm
-----------------
Copyright 2001 by Jarkko Hietaniemi


lib/5.38.2/x86_64-linux-thread-multi/Data/Dumper.pm
-----------------
Copyright (c) 1996-2019 Gurusamy Sarathy. All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/DB_File.pm
-----------------
#     Copyright (c) 1995-2022 Paul Marquess. All rights reserved.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/5.38.2/x86_64-linux-thread-multi/Sub/Util.pm
-----------------
# Copyright (c) 2014 Paul Evans <leonerd@leonerd.org.uk>. All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/CORE/util.h
-----------------
 *    Copyright (C) 1991, 1992, 1993, 1999, 2001, 2002, 2003, 2004, 2005,
 *    2007, by Larry Wall and others
 *
 *    You may distribute under the terms of either the GNU General Public
 *    License or the Artistic License, as specified in the README file.


lib/5.38.2/x86_64-linux-thread-multi/CORE/gv.h
-----------------
 *    Copyright (C) 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000,
 *    2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 by Larry Wall and others
 *
 *    You may distribute under the terms of either the GNU General Public
 *    License or the Artistic License, as specified in the README file.


lib/5.38.2/x86_64-linux-thread-multi/CORE/regexp.h
-----------------
 *    Copyright (C) 1993, 1994, 1996, 1997, 1999, 2000, 2001, 2003,
 *    2005, 2006, 2007, 2008 by Larry Wall and others
 *
 *    You may distribute under the terms of either the GNU General Public
 *    License or the Artistic License, as specified in the README file.


lib/5.38.2/x86_64-linux-thread-multi/CORE/thread.h
-----------------
 *    Copyright (C) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006,
 *    by Larry Wall and others
 *
 *    You may distribute under the terms of either the GNU General Public
 *    License or the Artistic License, as specified in the README file.


lib/5.38.2/x86_64-linux-thread-multi/CORE/perlsdio.h
-----------------
 *    Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001,
 *    2002, 2003, 2006, 2007, 2008 by Larry Wall and others
 *
 *    You may distribute under the terms of either the GNU General Public
 *    License or the Artistic License, as specified in the README file.


lib/5.38.2/x86_64-linux-thread-multi/CORE/EXTERN.h
-----------------
 *    Copyright (C) 1991, 1992, 1993, 1995, 1996, 1997, 1998, 1999,
 *    2000, 2001, by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/perl.h
-----------------
 *    Copyright (C) 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001
 *    2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009 by Larry Wall and others
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
 * https://bjoern.hoehrmann.de/utf-8/decoder/dfa/, which requires this copyright
 * notice:

Copyright (c) 2008-2009 Bjoern Hoehrmann <bjoern@hoehrmann.de>

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.


lib/5.38.2/x86_64-linux-thread-multi/CORE/dosish.h
-----------------
 *    Copyright (C) 1993, 1994, 1996, 1997, 1998, 1999,
 *    2000, 2001, 2002, 2007, by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/form.h
-----------------
 *    Copyright (C) 1991, 1992, 1993, 2000, 2004, 2011 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/perlstatic.h
-----------------
 *    Copyright (C) 2020 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/reentr.h
-----------------
 *    Copyright (C) 2002, 2003, 2005, 2006, 2007 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/regcomp.h
-----------------
 *    Copyright (C) 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999,
 *    2000, 2001, 2002, 2003, 2005, 2006, 2007, by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/embed.h
-----------------
 *    Copyright (C) 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001,
 *    2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013,
 *    2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022
 *    by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/sv_inline.h
lib/5.38.2/x86_64-linux-thread-multi/CORE/scope_types.h
-----------------
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
 *    Copyright (C) 2022 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/pad.h
----------------
 *    Copyright (C) 2002, 2003, 2005, 2006, 2007, 2008,
 *    2009, 2010, 2011 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/nostdio.h
----------------
 *    Copyright (C) 1996, 2000, 2001, 2005, by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/XSUB.h
----------------
 *    Copyright (C) 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002,
 *    2003, 2004, 2005, 2006, 2007, 2008 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/fakesdio.h
----------------
 *    Copyright (C) 2000, by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/mg.h
----------------
 *    Copyright (C) 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1999,
 *    2000, 2002, 2005, 2006, 2007, 2008 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/av.h
----------------
 *    Copyright (C) 1991, 1992, 1993, 1995, 1996, 1997, 1998, 1999, 2000,
 *    2001, 2002, 2005, 2006, 2007, 2008, by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/utfebcdic.h
----------------
 *    Copyright (C) 2001, 2002, 2003, 2005, 2006, 2007, 2009,
 *    2010, 2011 by Larry Wall, Nick Ing-Simmons, and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/INTERN.h
----------------
 *    Copyright (C) 1991, 1992, 1993, 1995, 1996, 1998, 2000, 2001,
 *    by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/invlist_inline.h
----------------
 *    Copyright (C) 2012 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/op.h
----------------
 *    Copyright (C) 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000,
 *    2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/pp.h
----------------
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
 *    Copyright (C) 1991, 1992, 1993, 1994, 1995, 1996, 1998, 1999, 2000, 2001,
 *    2002, 2003, 2004, 2005, 2006, 2007, 2008 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/perly.h
-----------------
   /* A Bison parser, made by GNU Bison 3.3.  */

/* Bison interface for Yacc-like parsers in C

   Copyright (C) 1984, 1989-1990, 2000-2015, 2018-2019 Free Software Foundation,
   Inc.

   This program is free software: you can redistribute it and/or modify
   it under the terms of the GNU General Public License as published by
   the Free Software Foundation, either version 3 of the License, or
   (at your option) any later version.

   This program is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
   GNU General Public License for more details.

   You should have received a copy of the GNU General Public License
   along with this program.  If not, see <http://www.gnu.org/licenses/>.  */

/* As a special exception, you may create a larger work that contains
   part or all of the Bison parser skeleton and distribute that work
   under terms of your choice, so long as that work isn't itself a
   parser generator using the skeleton or a modified version thereof
   as a parser skeleton.  Alternatively, if you modify or redistribute
   the parser skeleton itself, you may (at your option) remove this
   special exception, which will cause the skeleton and the resulting
   Bison output files to be licensed under the GNU General Public
   License without this special exception.

   This special exception was added by the Free Software Foundation in
   version 2.2 of Bison.  */

/* Undocumented macros, especially those whose name start with YY_,
   are private implementation details.  Do not rely on them.  */


lib/5.38.2/x86_64-linux-thread-multi/CORE/ebcdic_tables.h
-----------------
/* This file contains definitions for various tables used in EBCDIC handling.
 * More info is in utfebcdic.h
 *
 * Some of the tables are adapted from
 *      https://bjoern.hoehrmann.de/utf-8/decoder/dfa/
 * which requires this copyright notice:

Copyright (c) 2008-2009 Bjoern Hoehrmann <bjoern@hoehrmann.de>

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.


lib/5.38.2/x86_64-linux-thread-multi/CORE/parser.h
----------------
 *    Copyright (c) 2006, 2007, 2009, 2010, 2011 Larry Wall and others
 *
 *    You may distribute under the terms of either the GNU General Public
 *    License or the Artistic License, as specified in the README file.
 *
 * This file defines the layout of the parser object used by the parser
 * and lexer (perly.c, toke.c).


lib/5.38.2/x86_64-linux-thread-multi/CORE/intrpvar.h
----------------
 *    Copyright (C) 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005,
 *    2006, 2007, 2008 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/patchlevel.h
----------------
 *    Copyright (C) 1993, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002,
 *    2003, 2004, 2005, 2006, 2007, 2008, 2009, by Larry Wall and other


lib/5.38.2/x86_64-linux-thread-multi/CORE/hv.h
----------------
 *    Copyright (C) 1991, 1992, 1993, 1996, 1997, 1998, 1999,
 *    2000, 2001, 2002, 2003, 2005, 2006, 2007, 2008, by Larry Wall and others

lib/5.38.2/x86_64-linux-thread-multi/CORE/utf8.h
----------------
 *    Copyright (C) 2000, 2001, 2002, 2005, 2006, 2007, 2009,
 *    2010, 2011 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/cv.h
----------------
 *    Copyright (C) 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1999, 2000, 2001,
 *    2002, 2003, 2004, 2005, 2006, 2007, 2008 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/regcharclass.h
----------------
 *    Copyright (C) 2007, 2011 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/proto.h
----------------
 *    Copyright (C) 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001,
 *    2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013,
 *    2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022
 *    by Larry Wall and others
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/5.38.2/x86_64-linux-thread-multi/CORE/handy.h
-----------------
 *    Copyright (C) 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1999, 2000,
 *    2001, 2002, 2004, 2005, 2006, 2007, 2008, 2012 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/embedvar.h
-----------------
 *    Copyright (C) 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001,
 *    2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013,
 *    2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022
 *    by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/perlapi.h
-----------------
 *    Copyright (C) 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001,
 *    2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/op_reg_common.h
-----------------
 *    Copyright (C) 2010, 2011 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/perlvars.h
-----------------
 *    Copyright (C) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007,
 *    by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/keywords.h
-----------------
 *    Copyright (C) 1994, 1995, 1996, 1997, 1999, 2000, 2001, 2002, 2005,
 *    2006, 2007 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/cop.h
-----------------
 *    Copyright (C) 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000,
 *    2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/scope.h
-----------------
 *    Copyright (C) 1993, 1994, 1996, 1997, 1998, 1999, 2000, 2001,
 *    2002, 2004, 2005, 2006, 2007, 2008 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/sv.h
-----------------
 *    Copyright (C) 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000,
 *    2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/overload.h
-----------------
 *    Copyright (C) 1997, 1998, 2000, 2001, 2005, 2006, 2007, 2011
 *    by Larry Wall and others
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/5.38.2/x86_64-linux-thread-multi/CORE/mydtrace.h
----------------
 *    Copyright (C) 2008, 2010, 2011 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/opcode.h
----------------
 *    Copyright (C) 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001,
 *    2002, 2003, 2004, 2005, 2006, 2007 by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/perlio.h
----------------
 *    Copyright (C) 1996, 1997, 1999, 2000, 2001, 2002, 2003,
 *    2004, 2005, 2006, 2007, by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/inline.h
----------------
 *    Copyright (C) 2012 by Larry Wall and others
 *
 *    You may distribute under the terms of either the GNU General Public
 *    License or the Artistic License, as specified in the README file.
 *
 *    This file contains tables and code adapted from
 *    https://bjoern.hoehrmann.de/utf-8/decoder/dfa/, which requires this
 *    copyright notice:

Copyright (c) 2008-2009 Bjoern Hoehrmann <bjoern@hoehrmann.de>

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.


lib/5.38.2/x86_64-linux-thread-multi/CORE/unixish.h
----------------
 *    Copyright (C) 1993, 1994, 1995, 1996, 1997, 1999, 2000, 2001, 2002,
 *    2003, 2006, 2007, by Larry Wall and others


lib/5.38.2/x86_64-linux-thread-multi/CORE/opnames.h
----------------
 *    Copyright (C) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007,
 *    2008 by Larry Wall and others
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/5.38.2/x86_64-linux-thread-multi/Unicode/Collate/Locale.pm
----------------
This module is Copyright(C) 2004-2020, SADAHIRO Tomoyuki. Japan.


lib/5.38.2/x86_64-linux-thread-multi/Unicode/Normalize.pm
----------------
Copyright(C) 2001-2012, SADAHIRO Tomoyuki. Japan. All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/Unicode/Collate.pm
----------------
The Unicode::Collate module for perl was written by SADAHIRO Tomoyuki,
<SADAHIRO@cpan.org>. This module is Copyright(C) 2001-2021,
SADAHIRO Tomoyuki. Japan. All rights reserved.

This module is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

The file Unicode/Collate/allkeys.txt was copied verbatim
from L<http://www.unicode.org/Public/UCA/13.0.0/allkeys.txt>.
For this file, Copyright (c) 2020 Unicode, Inc.; distributed
under the Terms of Use in L<http://www.unicode.org/terms_of_use.html>


lib/5.38.2/x86_64-linux-thread-multi/List/Util.pm
----------------
# Copyright (c) 1997-2009 Graham Barr <gbarr@pobox.com>. All rights reserved.
Copyright (c) 1997-2007 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/List/Util/XS.pm
----------------
Copyright (c) 2008 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/B/Concise.pm
----------------
# Copyright (C) 2000-2003 Stephen McCamant. All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/Digest/MD5.pm
----------------
 Copyright 1998-2003 Gisle Aas.
 Copyright 1995-1996 Neil Winton.
 Copyright 1991-1992 RSA Data Security, Inc.
The MD5 algorithm is defined in RFC 1321. This implementation is
derived from the reference C code in RFC 1321 which is covered by
the following copyright statement:

Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
rights reserved.

License to copy and use this software is granted provided that it
is identified as the "RSA Data Security, Inc. MD5 Message-Digest
Algorithm" in all material mentioning or referencing this software
or this function.

License is also granted to make and use derivative works provided
that such works are identified as "derived from the RSA Data
Security, Inc. MD5 Message-Digest Algorithm" in all material
mentioning or referencing the derived work.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
RSA Data Security, Inc. makes no representations concerning either
the merchantability of this software or the suitability of this
software for any particular purpose. It is provided "as is"
without express or implied warranty of any kind.

These notices must be retained in any copies of any part of this
documentation and/or software.

lib/5.38.2/x86_64-linux-thread-multi/Digest/SHA.pm
-----------------
Copyright (C) 2003-2022 Mark Shelor


lib/5.38.2/x86_64-linux-thread-multi/Storable.pm
-----------------
#  Copyright (c) 1995-2001, Raphael Manfredi
#  Copyright (c) 2002-2014 by the Perl 5 Porters
#  Copyright (c) 2015-2016 cPanel Inc
#  Copyright (c) 2017 Reini Urban


lib/5.38.2/x86_64-linux-thread-multi/Compress/Raw/Bzip2.pm
lib/5.38.2/x86_64-linux-thread-multi/Compress/Raw/Zlib.pm
-----------------
Copyright (c) 2005-2023 Paul Marquess. All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/Devel/PPPort.pm
-----------------
#  Version 3.x, Copyright (C) 2004-2013, Marcus Holland-Moritz.
#               Copyright (C) 2018, The perl5 porters
#  Version 2.x, Copyright (C) 2001, Paul Marquess.
#  Version 1.x, Copyright (C) 1999, Kenneth Albanowski.
Version 3.x, Copyright (C) 2004-2013, Marcus Holland-Moritz.
             Copyright (C) 2018-2020, The perl5 porters
Version 2.x, Copyright (C) 2001, Paul Marquess.
Version 1.x, Copyright (C) 1999, Kenneth Albanowski.
|>Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.
|>Version 2.x, Copyright (C) 2001, Paul Marquess.
|>Version 1.x, Copyright (C) 1999, Kenneth Albanowski.


lib/5.38.2/x86_64-linux-thread-multi/Devel/Peek.pm
-----------------
Copyright (c) 1995-98 Ilya Zakharevich. All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/IO/Poll.pm
-----------------
# Copyright (c) 1997-8 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/IO/Select.pm
-----------------
# Copyright (c) 1997-8 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/IO/Pipe.pm
-----------------
# Copyright (c) 1996-8 Graham Barr <gbarr@pobox.com>. All rights reserved.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/5.38.2/x86_64-linux-thread-multi/IO/Socket.pm
-----------------
# Copyright (c) 1997-8 Graham Barr <gbarr@pobox.com>. All rights reserved.
The atmark() implementation: Copyright 2001, Lincoln Stein <lstein@cshl.org>.


lib/5.38.2/x86_64-linux-thread-multi/IO/Socket/UNIX.pm
-----------------
# Copyright (c) 1997-8 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/IO/Socket/INET.pm
-----------------
# Copyright (c) 1997-8 Graham Barr <gbarr@pobox.com>. All rights reserved.
Copyright (c) 1996-8 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/IO/Dir.pm
-----------------
# Copyright (c) 1997-8 Graham Barr <gbarr@pobox.com>. All rights reserved.
Copyright (c) 1997-2003 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/5.38.2/x86_64-linux-thread-multi/B.pm
-----------------
#      Copyright (c) 1996, 1997, 1998 Malcolm Beattie


lib/5.38.2/x86_64-linux-thread-multi/Hash/Util.pm
-----------------
hv_store() is from Array::RefElem, Copyright 2000 Gisle Aas.


lib/5.38.2/x86_64-linux-thread-multi/Hash/Util/FieldHash.pm
-----------------
Copyright (C) 2006-2007 by (Anno Siegel)


lib/5.38.2/Digest.pm
-----------------
    Copyright 1998-2006 Gisle Aas.
    Copyright 1995,1996 Neil Winton.


lib/5.38.2/App/Cpan.pm
-----------------
Copyright (c) 2001-2021, brian d foy, All Rights Reserved.


lib/5.38.2/encoding/warnings.pm
-----------------
Copyright 2004, 2005, 2006, 2007 by Audrey Tang E<lt>cpan@audreyt.orgE<gt>.


lib/5.38.2/SelfLoader.pm
-----------------
This package has the same copyright and license as the perl core:
Copyright (C) 1993, 1994, 1995, 1996, 1997, 1998, 1999,
2000, 2001, 2002, 2003, 2004, 2005, 2006 by Larry Wall and others
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/5.38.2/Text/Wrap.pm
-----------------
Copyright (C) 1996-2009 David Muir Sharnoff.
Copyright (C) 2012-2013 Google, Inc.


lib/5.38.2/Text/Balanced.pm
-----------------
# Copyright (C) 1997-2001 Damian Conway.  All rights reserved.
# Copyright (C) 2009 Adam Kennedy.
# Copyright (C) 2015, 2022 Steve Hay and other contributors.  All rights
Copyright (C) 1997-2001 Damian Conway.  All rights reserved.
Copyright (C) 2009 Adam Kennedy.
Copyright (C) 2015, 2020, 2022 Steve Hay and other contributors.  All rights


lib/5.38.2/Text/Tabs.pm
-----------------
Copyright (C) 1996-2002,2005,2006 David Muir Sharnoff.
Copyright (C) 2005 Aristotle Pagaltzis
Copyright (C) 2012-2013 Google, Inc.


lib/5.38.2/Time/Local.pm
-----------------
This software is copyright (c) 1997 - 2020 by Graham Barr & Dave Rolsky.


lib/5.38.2/constant.pm
-----------------
Copyright (C) 1997, 1999 Tom Phoenix


lib/5.38.2/Encode/README.e2x
-----------------
Copyright (C) 2002 Your Name <your@address.domain>


lib/5.38.2/overload/numbers.pm
-----------------
#    Copyright (C) 2008 by Larry Wall and others


lib/5.38.2/Filter/Simple.pm
-----------------
    Copyright (c) 2000-2014, Damian Conway. All Rights Reserved.


lib/5.38.2/Term/Cap.pm
-----------------
Copyright 1995-2015 (c) perl5 porters.


lib/5.38.2/Term/ANSIColor.pm
-----------------
Copyright 1996-1998, 2000-2002, 2005-2006, 2008-2018, 2020 Russ Allbery
Copyright 1996 Zenin
Copyright 2012 Kurt Starsinic <kstarsinic@gmail.com>
# copyright-at-end-flag: t


lib/5.38.2/File/Copy.pm
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
----------------
# Additions copyright 1996 by Charles Bailey.  Permission is granted


lib/5.38.2/File/Path.pm
----------------
This module is copyright (C) Charles Bailey, Tim Bunce, David Landgren,


lib/5.38.2/File/Temp.pm
----------------
This software is copyright (c) 2020 by Tim Jenness and the UK Particle Physics and
Astronomy Research Council.


lib/5.38.2/File/GlobMapper.pm
----------------
Copyright (c) 2005 Paul Marquess. All rights reserved.


lib/5.38.2/Test2.pm
----------------
Copyright 2020 Chad Granum E<lt>exodist@cpan.orgE<gt>.


lib/5.38.2/Parse/CPAN/Meta.pm
----------------
This software is copyright (c) 2010 by David Golden, Ricardo Signes, Adam Kennedy and
Contributors.


lib/5.38.2/XSLoader.pm
----------------
Copyright (C) 1990-2011 by Larry Wall and others.


lib/5.38.2/I18N/LangTags/Detect.pm
----------------
Copyright (c) 1998-2004 Sean M. Burke. All rights reserved.


lib/5.38.2/I18N/LangTags/List.pm
----------------
Copyright (c) 2001+ Sean M. Burke. All rights reserved.


lib/5.38.2/I18N/LangTags.pm
----------------
Copyright (c) 1998+ Sean M. Burke. All rights reserved.


lib/5.38.2/Module/Metadata.pm
----------------
Original code Copyright (c) 2001-2011 Ken Williams.
Additional code Copyright (c) 2010-2011 Matt Trout and David Golden.


lib/5.38.2/Module/CoreList.pod
----------------
Copyright (C) 2002-2009 Richard Clamp.  All Rights Reserved.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/5.38.2/Module/CoreList/Utils.pm
-----------------
Copyright (C) 2013 Chris Williams.  All Rights Reserved.


lib/5.38.2/Tie/File.pm
-----------------
C<Tie::File> version 0.96 is copyright (C) 2003 Mark Jason Dominus.


lib/5.38.2/Tie/RefHash.pm
-----------------
This software is copyright (c) 2006 by '  (Yuval Kogman) <nothingmuch@woobling.org>.


lib/5.38.2/JSON/PP.pm
-----------------
Copyright 2007-2016 by Makamaka Hannyaharamitu


lib/5.38.2/deprecate.pm
-----------------
Copyright (C) 2009, 2011
This library is free software; you can redistribute it and/or modify
it under the same terms as Perl itself, either Perl version 5.10.0 or,
at your option, any later version of Perl 5 you may have available.


lib/5.38.2/Carp.pm
-----------------
Copyright (C) 1994-2013 Larry Wall
Copyright (C) 2011, 2012, 2013 Andrew Main (Zefram) <zefram@fysh.org>


lib/5.38.2/Unicode/Collate/allkeys.txt
-----------------
# Copyright 2020 Unicode, Inc.


lib/5.38.2/NEXT.pm
-----------------
 Copyright (c) 2000-2001, Damian Conway. All Rights Reserved.


lib/5.38.2/Net/POP3.pm
-----------------
# Copyright (C) 1995-2004 Graham Barr.  All rights reserved.
# Copyright (C) 2013-2016, 2020 Steve Hay.  All rights reserved.
Copyright (C) 1995-2004 Graham Barr.  All rights reserved.
Copyright (C) 2013-2016, 2020 Steve Hay.  All rights reserved.


lib/5.38.2/Net/Domain.pm
-----------------
# Copyright (C) 1995-1998 Graham Barr.  All rights reserved.
# Copyright (C) 2013-2014, 2020 Steve Hay.  All rights reserved.
Copyright (C) 1995-1998 Graham Barr.  All rights reserved.
Copyright (C) 2013-2014, 2020 Steve Hay.  All rights reserved.


lib/5.38.2/Net/Time.pm
-----------------
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
# Copyright (C) 1995-2004 Graham Barr.  All rights reserved.
# Copyright (C) 2014, 2020 Steve Hay.  All rights reserved.
Copyright (C) 1995-2004 Graham Barr.  All rights reserved.
Copyright (C) 2014, 2020 Steve Hay.  All rights reserved.


lib/5.38.2/Net/FTP.pm
-----------------
# Copyright (C) 1995-2004 Graham Barr.  All rights reserved.
# Copyright (C) 2013-2017, 2020, 2022 Steve Hay.  All rights reserved.
Copyright (C) 1995-2004 Graham Barr.  All rights reserved.
Copyright (C) 2013-2017, 2020, 2022 Steve Hay.  All rights reserved.


lib/5.38.2/Net/Config.pm
-----------------
# Copyright (C) 2000 Graham Barr.  All rights reserved.
# Copyright (C) 2013-2014, 2016, 2020 Steve Hay.  All rights reserved.
Copyright (C) 2000 Graham Barr.  All rights reserved.
Copyright (C) 2013-2014, 2016, 2020 Steve Hay.  All rights reserved.


lib/5.38.2/Net/Cmd.pm
-----------------
# Copyright (C) 1995-2006 Graham Barr.  All rights reserved.
# Copyright (C) 2013-2016, 2020, 2022 Steve Hay.  All rights reserved.
Copyright (C) 1995-2006 Graham Barr.  All rights reserved.
Copyright (C) 2013-2016, 2020, 2022 Steve Hay.  All rights reserved.


lib/5.38.2/Net/Ping.pm
-----------------
Copyright (c) 2017-2020, Reini Urban.  All rights reserved.
Copyright (c) 2016, cPanel Inc.  All rights reserved.
Copyright (c) 2012, Steve Peters.  All rights reserved.
Copyright (c) 2002-2003, Rob Brown.  All rights reserved.
Copyright (c) 2001, Colin McMillen.  All rights reserved.


lib/5.38.2/Net/Netrc.pm
-----------------
# Copyright (C) 1995-1998 Graham Barr.  All rights reserved.
# Copyright (C) 2013-2014, 2020 Steve Hay.  All rights reserved.
Copyright (C) 1995-1998 Graham Barr.  All rights reserved.
Copyright (C) 2013-2014, 2020 Steve Hay.  All rights reserved.


lib/5.38.2/Net/FTP/dataconn.pm
-----------------
Copyright (C) 1997-2010 Graham Barr.  All rights reserved.
Copyright (C) 2013-2014, 2020 Steve Hay.  All rights reserved.


lib/5.38.2/Net/NNTP.pm
-----------------
# Copyright (C) 1995-1997 Graham Barr.  All rights reserved.
# Copyright (C) 2013-2016, 2020 Steve Hay.  All rights reserved.
Copyright (C) 1995-1997 Graham Barr.  All rights reserved.
Copyright (C) 2013-2016, 2020 Steve Hay.  All rights reserved.


lib/5.38.2/Net/SMTP.pm
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
----------------
# Copyright (C) 1995-2004 Graham Barr.  All rights reserved.
# Copyright (C) 2013-2016, 2020 Steve Hay.  All rights reserved.
Copyright (C) 1995-2004 Graham Barr.  All rights reserved.
Copyright (C) 2013-2016, 2020 Steve Hay.  All rights reserved.


lib/5.38.2/Net/libnetFAQ.pod
----------------
Copyright (C) 1997-1998 Graham Barr.  All rights reserved.


lib/5.38.2/AutoSplit.pm
----------------
This package has the same copyright and license as the perl core:
             Copyright (C) 1993, 1994, 1995, 1996, 1997, 1998, 1999,
    2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008
        by Larry Wall and others


lib/5.38.2/if.pm
----------------
This software is copyright (c) 2002 by Ilya Zakharevich.


lib/5.38.2/FindBin.pm
----------------
# Copyright (c) 1995 Graham Barr & Nick Ing-Simmons. All rights reserved.


lib/5.38.2/ExtUtils/MakeMaker/Locale.pm
----------------
Copyright 2010 Gisle Aas <gisle@aas.no>.


lib/5.38.2/ExtUtils/Typemaps/Type.pm
----------------
Copyright 2009, 2010, 2011, 2012 Steffen Mueller


lib/5.38.2/ExtUtils/Typemaps/Cmd.pm
----------------
Copyright 2012 Steffen Mueller


lib/5.38.2/ExtUtils/Typemaps/OutputMap.pm
----------------
Copyright 2009, 2010, 2011, 2012 Steffen Mueller


lib/5.38.2/ExtUtils/Typemaps/InputMap.pm
----------------
Copyright 2009, 2010, 2011, 2012 Steffen Mueller


lib/5.38.2/ExtUtils/Manifest.pm
----------------
This software is copyright (c) 1996- by Andreas Koenig.


lib/5.38.2/ExtUtils/CBuilder.pm
----------------
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Copyright (c) 2003-2005 Ken Williams.  All rights reserved.


lib/5.38.2/ExtUtils/PL2Bat.pm
-----------------
This software is copyright (c) 2015 by Leon Timmermans.


lib/5.38.2/ExtUtils/ParseXS.pod
-----------------
Copyright 2002-2014 by Ken Williams, David Golden and other contributors.


lib/5.38.2/ExtUtils/Miniperl.pm
-----------------
 *    Copyright (C) 1994, 1995, 1996, 1997, 1999, 2000, 2001, 2002, 2003,
 *    2004, 2005, 2006, 2007, 2016 by Larry Wall and others


lib/5.38.2/ExtUtils/Typemaps.pm
-----------------
Copyright 2009, 2010, 2011, 2012, 2013 Steffen Mueller


lib/5.38.2/Memoize.pm
-----------------
# Copyright 1998, 1999, 2000, 2001, 2012 M. J. Dominus.
This software is copyright (c) 2012 by Mark Jason Dominus.


lib/5.38.2/pod/perlthrtut.pod
-----------------
Journal #10, and is copyright 1998 The Perl Journal. It appears courtesy


lib/5.38.2/pod/perlreapi.pod
-----------------
Copyright 2006 Yves Orton and 2007 E<AElig>var ArnfjE<ouml>rE<eth> Bjarmason.


lib/5.38.2/pod/perlfilter.pod
-----------------
Journal #11, and is copyright 1998 The Perl Journal.


lib/5.38.2/pod/perlfaq5.pod
-----------------
Copyright (c) 1997-2010 Tom Christiansen, Nathan Torkington, and


lib/5.38.2/pod/perlperf.pod
-----------------
Richard Foley <richard.foley@rfi.net> Copyright (c) 2008


lib/5.38.2/pod/perlfaq8.pod
-----------------
Copyright (c) 1997-2010 Tom Christiansen, Nathan Torkington, and


lib/5.38.2/pod/perlfaq6.pod
-----------------
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Copyright (c) 1997-2010 Tom Christiansen, Nathan Torkington


lib/5.38.2/pod/perlootut.pod
----------------
Best Practices> (copyright 2004, Published by O'Reilly Media, Inc.),


lib/5.38.2/pod/perlrequick.pod
----------------
Copyright (c) 2000 Mark Kvale


lib/5.38.2/pod/perlmodstyle.pod
----------------
In I<Perl Best Practices> (copyright 2004, Published by O'Reilly Media, Inc.),


lib/5.38.2/pod/perlfaq4.pod
----------------
Copyright (c) 1997-2010 Tom Christiansen, Nathan Torkington, and


lib/5.38.2/pod/perlretut.pod
----------------
Copyright (c) 2000 Mark Kvale.


lib/5.38.2/pod/perlfaq2.pod
----------------
Copyright (c) 1997-2010 Tom Christiansen, Nathan Torkington, and


lib/5.38.2/pod/perlfaq7.pod
----------------
Copyright (c) 1997-2013 Tom Christiansen, Nathan Torkington, and


lib/5.38.2/pod/perlreftut.pod
----------------
Copyright 1998 The Perl Journal.


lib/5.38.2/pod/perlfaq9.pod
----------------
Copyright (c) 1997-2010 Tom Christiansen, Nathan Torkington, and


lib/5.38.2/pod/perlmodinstall.pod
----------------
Copyright (C) 1998, 2002, 2003 Jon Orwant.  All Rights Reserved.


lib/5.38.2/pod/perlembed.pod
----------------
Copyright (C) 1995, 1996, 1997, 1998 Doug MacEachern and Jon Orwant.  All


lib/5.38.2/pod/perlpodstyle.pod
----------------
For copyright
    Copyright YEAR(s) YOUR NAME(s)
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Copyright 1999, 2000, 2001, 2004, 2006, 2008, 2010, 2015, 2018 Russ


lib/5.38.2/pod/perlfaq1.pod
----------------
Copyright (c) 1997-2010 Tom Christiansen, Nathan Torkington, and


lib/5.38.2/pod/perlunicook.pod
----------------
Copyright © 2012 Tom Christiansen.
that is, from the 4 Edition of I<Programming Perl>, Copyright © 2012 Tom


lib/5.38.2/pod/perlopentut.pod
----------------
Copyright 2013 Tom Christiansen; now maintained by Perl5 Porters


lib/5.38.2/pod/perlglossary.pod
----------------
Copyright (c) 2000, 1996, 1991, 2012 O'Reilly Media, Inc.


lib/5.38.2/pod/perlexperiment.pod
----------------
Copyright 2010, brian d foy C<< <brian.d.foy@gmail.com> >>


lib/5.38.2/pod/perluniintro.pod
----------------
Copyright 2001-2011 Jarkko Hietaniemi E<lt>jhi@iki.fiE<gt>.


lib/5.38.2/pod/perlgpl.pod
----------------
  Copyright (C) 1989 Free Software Foundation, Inc.


lib/5.38.2/B/Op_private.pm
----------------
#    Copyright (C) 2014 by Larry Wall and others


lib/5.38.2/B/Deparse.pm
----------------
# Copyright (c) 1998-2000, 2002, 2003, 2004, 2005, 2006 Stephen McCamant.


lib/5.38.2/Getopt/Long.pm
----------------
This program is Copyright 1990,2015 by Johan Vromans.


lib/5.38.2/HTTP/Tiny.pm
----------------
This software is copyright (c) 2023 by Christian Hansen.


lib/5.38.2/Perl/OSType.pm
----------------
This software is copyright (c) 2016 by David Golden.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/5.38.2/AutoLoader.pm
----------------
This package has the same copyright and license as the perl core:
             Copyright (C) 1993, 1994, 1995, 1996, 1997, 1998, 1999,
        2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
        2011, 2012, 2013
        by Larry Wall and others


lib/5.38.2/experimental.pm
----------------
This software is copyright (c) 2013 by Leon Timmermans.


lib/5.38.2/Locale/Maketext.pod
----------------
Copyright (c) 1999-2004 Sean M. Burke.  All rights reserved.


lib/5.38.2/Locale/Maketext/Simple.pm
----------------
Copyright 2003, 2004, 2005, 2006 by Audrey Tang E<lt>cpan@audreyt.orgE<gt>.


lib/5.38.2/Locale/Maketext/TPJ13.pod
----------------
and is copyright 1999 The Perl Journal. It appears


lib/5.38.2/Test.pm
----------------
Copyright (c) 1998-2000 Joshua Nathaniel Pritikin.
Copyright (c) 2001-2002 Michael G. Schwern.
Copyright (c) 2002-2004 Sean M. Burke.


lib/5.38.2/TAP/Parser/YAMLish/Writer.pm
----------------
Copyright 2007-2011 Andy Armstrong.


lib/5.38.2/TAP/Parser/YAMLish/Reader.pm
----------------
Copyright 2007-2011 Andy Armstrong.
Portions copyright 2006-2008 Adam Kennedy.


lib/5.38.2/TAP/Parser.pm
----------------
Copyright 2006-2008 Curtis "Ovid" Poe, all rights reserved.


lib/5.38.2/PerlIO/via/QuotedPrint.pm
----------------
# Copyright (C) 2002-2004, 2012 Elizabeth Mattijsen.  All rights reserved.
# Copyright (C) 2015 Steve Hay.  All rights reserved.
Copyright (C) 2002-2004, 2012 Elizabeth Mattijsen.  All rights reserved.
Copyright (C) 2015, 2020 Steve Hay.  All rights reserved.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/5.38.2/autodie/exception.pm
-----------------
Copyright (C)2008 Paul Fenwick


lib/5.38.2/autodie/hints.pm
-----------------
Copyright 2009, Paul Fenwick E<lt>pjf@perltraining.com.auE<gt>


lib/5.38.2/autodie/skip.pm
-----------------
Copyright 2013, Paul Fenwick <pjf@cpan.org>


lib/5.38.2/autodie/Util.pm
-----------------
Copyright 2013-2014, Niels Thykier E<lt>niels@thykier.netE<gt>


lib/5.38.2/autodie/Scope/Guard.pm
-----------------
Copyright 2008-2009, Paul Fenwick E<lt>pjf@perltraining.com.auE<gt>


lib/5.38.2/autodie/Scope/GuardStack.pm
-----------------
Copyright 2013, Niels Thykier E<lt>niels@thykier.netE<gt>


lib/5.38.2/autodie/exception/system.pm
-----------------
Copyright (C)2008 Paul Fenwick


lib/5.38.2/autodie.pm
-----------------
Copyright 2008-2009, Paul Fenwick E<lt>pjf@perltraining.com.auE<gt>


lib/5.38.2/Compress/Zlib.pm
-----------------
Copyright (c) 1995-2023 Paul Marquess. All rights reserved.


lib/5.38.2/IO/Zlib.pm
-----------------
# Copyright (c) 1998-2004 Tom Hughes <tom@compton.nu>.
Copyright (c) 1998-2004 Tom Hughes E<lt>F<tom@compton.nu>E<gt>.


lib/5.38.2/IO/Uncompress/AnyUncompress.pm
lib/5.38.2/IO/Uncompress/Inflate.pm
lib/5.38.2/IO/Uncompress/AnyInflate.pm
lib/5.38.2/IO/Uncompress/RawInflate.pm
lib/5.38.2/IO/Uncompress/Unzip.pm
lib/5.38.2/IO/Uncompress/Base.pm
lib/5.38.2/IO/Uncompress/Gunzip.pm
lib/5.38.2/IO/Uncompress/Bunzip2.pm
lib/5.38.2/IO/Compress/Bzip2.pm
lib/5.38.2/IO/Compress/RawDeflate.pm
lib/5.38.2/IO/Compress/FAQ.pod
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/5.38.2/IO/Compress/Zip.pm
lib/5.38.2/IO/Compress/Base.pm
lib/5.38.2/IO/Compress/Gzip.pm
lib/5.38.2/IO/Compress/Deflate.pm
----------------
Copyright (c) 2005-2023 Paul Marquess. All rights reserved.


lib/5.38.2/Attribute/Handlers.pm
----------------
         Copyright (c) 2001-2014, Damian Conway. All Rights Reserved.


lib/5.38.2/stable.pm
----------------
This software is copyright (c) 2013 by Leon Timmermans.


lib/5.38.2/Test/Simple.pm
----------------
Copyright 2001-2008 by Michael G Schwern E<lt>schwern@pobox.comE<gt>.


lib/5.38.2/Test/Builder/TodoDiag.pm
lib/5.38.2/Test/Builder/Formatter.pm
----------------
Copyright 2020 Chad Granum E<lt>exodist@cpan.orgE<gt>.


lib/5.38.2/Test/Builder/Tester/Color.pm
----------------
Copyright Mark Fowler E<lt>mark@twoshortplanks.comE<gt> 2002.


lib/5.38.2/Test/Builder/IO/Scalar.pm
----------------
Copyright (c) 1996 by Eryq.  All rights reserved.
Copyright (c) 1999,2001 by ZeeGee Software Inc.  All rights reserved.


lib/5.38.2/Test/Builder/Tester.pm
----------------
Copyright Mark Fowler E<lt>mark@twoshortplanks.comE<gt> 2002, 2004.
Copyright Micheal G Schwern 2001.  Used and distributed with


lib/5.38.2/Test/Tutorial.pod
----------------
Copyright 2001 by Michael G Schwern E<lt>schwern@pobox.comE<gt>.


lib/5.38.2/Test/Harness.pm
----------------
Copyright (c) 2007-2011, Andy Armstrong C<< <andy@hexten.net> >>. All rights reserved.


lib/5.38.2/Test/More.pm
----------------
Copyright 2001-2008 by Michael G Schwern E<lt>schwern@pobox.comE<gt>.


lib/5.38.2/Test/Tester/CaptureRunner.pm
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
-----------------
Copyright 2003 by Fergal Daly <fergal@esatclear.ie>.


lib/5.38.2/Test/Builder.pm
-----------------
Copyright 2002-2008 by chromatic E<lt>chromatic@wgz.orgE<gt> and


lib/5.38.2/Test/Tester.pm
-----------------
This module is copyright 2005 Fergal Daly <fergal@esatclear.ie>, some parts


lib/5.38.2/parent.pm
-----------------
Copyright (c) 2007-2017 Max Maischein C<< <corion@cpan.org> >>


lib/5.38.2/Archive/Tar.pm
-----------------
This module is copyright (c) 2002 - 2009 Jos Boumans


lib/5.38.2/Config/Perl/V.pm
-----------------
Copyright (C) 2009-2023 H.Merijn Brand


lib/5.38.2/Pod/ParseLink.pm
-----------------
Copyright 2001, 2008, 2009, 2014, 2018-2019, 2022 Russ Allbery <rra@cpan.org>


lib/5.38.2/Pod/Simple/SimpleTree.pm
-----------------
Copyright (c) 2002 Sean M. Burke.


lib/5.38.2/Pod/Simple/Methody.pm
lib/5.38.2/Pod/Simple/PullParserTextToken.pm
lib/5.38.2/Pod/Simple/Debug.pm
lib/5.38.2/Pod/Simple/DumpAsText.pm
lib/5.38.2/Pod/Simple/DumpAsXML.pm
lib/5.38.2/Pod/Simple/Text.pm
lib/5.38.2/Pod/Simple/TextContent.pm
lib/5.38.2/Pod/Simple/PullParserToken.pm
lib/5.38.2/Pod/Simple/JustPod.pm
lib/5.38.2/Pod/Simple/Checker.pm
lib/5.38.2/Pod/Simple/Subclassing.pod
lib/5.38.2/Pod/Simple/Search.pm
lib/5.38.2/Pod/Simple/PullParser.pm
lib/5.38.2/Pod/Simple/RTF.pm
lib/5.38.2/Pod/Simple/PullParserEndToken.pm
lib/5.38.2/Pod/Simple/PullParserStartToken.pm
lib/5.38.2/Pod/Simple/HTMLBatch.pm
-----------------
Copyright (c) 2002 Sean M. Burke.


lib/5.38.2/Pod/Simple/XHTML.pm
-----------------
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Copyright (c) 2003-2005 Allison Randal.


lib/5.38.2/Pod/Simple/XMLOutStream.pm
lib/5.38.2/Pod/Simple/HTML.pm
-----------------
Copyright (c) 2002-2004 Sean M. Burke.


lib/5.38.2/Pod/Simple/LinkSection.pm
-----------------
Copyright (c) 2004 Sean M. Burke.


lib/5.38.2/Pod/Text/Overstrike.pm
-----------------
Copyright 2000 by Joe Smith <Joe.Smith@inwap.com>
Copyright 2001, 2004, 2008, 2014, 2018-2019, 2022 by Russ Allbery <rra@cpan.org>


lib/5.38.2/Pod/Text/Termcap.pm
-----------------
Copyright 1999, 2001-2002, 2004, 2006, 2008-2009, 2014-2015, 2018-2019, 2022


lib/5.38.2/Pod/Text/Color.pm
-----------------
Copyright 1999, 2001, 2004, 2006, 2008, 2009, 2018-2019, 2022 Russ Allbery


lib/5.38.2/Pod/Text.pm
-----------------
Copyright 1999-2002, 2004, 2006, 2008-2009, 2012-2016, 2018-2019, 2022 Russ


lib/5.38.2/Pod/Perldoc.pm
lib/5.38.2/Pod/Perldoc/BaseTo.pm
-----------------
Copyright (c) 2002-2007 Sean M. Burke.


lib/5.38.2/Pod/Perldoc/ToANSI.pm
-----------------
Copyright (c) 2011 Mark Allen.  All rights reserved.


lib/5.38.2/Pod/Perldoc/ToMan.pm
-----------------
Copyright (c) 2011 brian d foy. All rights reserved.
Copyright (c) 2002,3,4 Sean M. Burke.  All rights reserved.


lib/5.38.2/Pod/Perldoc/ToXml.pm
-----------------
Copyright (c) 2002 Sean M. Burke.  All rights reserved.


lib/5.38.2/Pod/Perldoc/ToChecker.pm
-----------------
Copyright (c) 2002 Sean M. Burke.  All rights reserved.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/5.38.2/Pod/Perldoc/ToTerm.pm
-----------------
Copyright (c) 2017 Mark Allen.


lib/5.38.2/Pod/Perldoc/GetOptsOO.pm
-----------------
Copyright (c) 2002-2007 Sean M. Burke.


lib/5.38.2/Pod/Perldoc/ToText.pm
-----------------
Copyright (c) 2002 Sean M. Burke.  All rights reserved.


lib/5.38.2/Pod/Perldoc/ToNroff.pm
-----------------
Copyright (c) 2002 Sean M. Burke.  All rights reserved.


lib/5.38.2/Pod/Perldoc/ToPod.pm
-----------------
Copyright (c) 2002 Sean M. Burke.  All rights reserved.


lib/5.38.2/Pod/Perldoc/ToRtf.pm
-----------------
Copyright (c) 2002 Sean M. Burke.  All rights reserved.


lib/5.38.2/Pod/Checker.pm
-----------------
# Copyright (C) 1994-2000 by Bradford Appleton. All rights reserved.


lib/5.38.2/Pod/Simple.pod
-----------------
Copyright (c) 2002 Sean M. Burke.


lib/5.38.2/Pod/Man.pm
-----------------
Copyright 1999-2010, 2012-2020, 2022 Russ Allbery <rra@cpan.org>


lib/5.38.2/Pod/Usage.pm
-----------------
# Copyright (c) 1996-2000 by Bradford Appleton. All rights reserved.
# Copyright (c) 2001-2016 by Marek Rouchal.


lib/5.38.2/Pod/Escapes.pm
-----------------
Copyright (c) 2001-2004 Sean M. Burke.  All rights reserved.


lib/5.38.2/CPAN/Meta/Validator.pm
-----------------
# _uri_split taken from URI::Split by Gisle Aas, Copyright 2003
This software is copyright (c) 2010 by David Golden, Ricardo Signes, Adam Kennedy and
Contributors.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/5.38.2/CPAN/Meta/Feature.pm
-----------------
This software is copyright (c) 2010 by David Golden, Ricardo Signes, Adam Kennedy and
Contributors.


lib/5.38.2/CPAN/Meta/YAML.pm
-----------------
This software is copyright (c) 2010 by Adam Kennedy.


lib/5.38.2/CPAN/Meta/Spec.pm
-----------------
This software is copyright (c) 2010 by David Golden, Ricardo Signes, Adam Kennedy and
Contributors.


lib/5.38.2/CPAN/Meta/Prereqs.pm
-----------------
This software is copyright (c) 2010 by David Golden, Ricardo Signes, Adam Kennedy and
Contributors.


lib/5.38.2/CPAN/Meta/History.pm
-----------------
This software is copyright (c) 2010 by David Golden, Ricardo Signes, Adam Kennedy and
Contributors.


lib/5.38.2/CPAN/Meta/Requirements.pm
-----------------
This software is copyright (c) 2010 by David Golden and Ricardo Signes.


lib/5.38.2/CPAN/Meta/Merge.pm
lib/5.38.2/CPAN/Meta/Converter.pm
lib/5.38.2/CPAN/Meta.pm
-----------------
This software is copyright (c) 2010 by David Golden, Ricardo Signes, Adam Kennedy and
Contributors.


lib/5.38.2/Test2/IPC/Driver/Files.pm
lib/5.38.2/Test2/IPC/Driver.pm
lib/5.38.2/Test2/EventFacet/About.pm
lib/5.38.2/Test2/EventFacet/Assert.pm
lib/5.38.2/Test2/EventFacet/Parent.pm
lib/5.38.2/Test2/EventFacet/Error.pm
lib/5.38.2/Test2/EventFacet/Plan.pm
lib/5.38.2/Test2/EventFacet/Trace.pm
lib/5.38.2/Test2/EventFacet/Amnesty.pm
lib/5.38.2/Test2/EventFacet/Info/Table.pm
lib/5.38.2/Test2/EventFacet/Control.pm
lib/5.38.2/Test2/EventFacet/Render.pm
lib/5.38.2/Test2/EventFacet/Info.pm
lib/5.38.2/Test2/EventFacet/Meta.pm
lib/5.38.2/Test2/EventFacet/Hub.pm
lib/5.38.2/Test2/Formatter.pm
lib/5.38.2/Test2/Formatter/TAP.pm
lib/5.38.2/Test2/Hub/Interceptor.pm
lib/5.38.2/Test2/Hub/Interceptor/Terminator.pm
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/5.38.2/Test2/Hub/Subtest.pm
lib/5.38.2/Test2/IPC.pm
lib/5.38.2/Test2/Event/Encoding.pm
lib/5.38.2/Test2/Event/Exception.pm
lib/5.38.2/Test2/Event/Diag.pm
lib/5.38.2/Test2/Event/Skip.pm
lib/5.38.2/Test2/Event/Plan.pm
lib/5.38.2/Test2/Event/Waiting.pm
lib/5.38.2/Test2/Event/Pass.pm
lib/5.38.2/Test2/Event/Fail.pm
lib/5.38.2/Test2/Event/Bail.pm
lib/5.38.2/Test2/Event/Subtest.pm
lib/5.38.2/Test2/Event/TAP/Version.pm
lib/5.38.2/Test2/Event/Ok.pm
lib/5.38.2/Test2/Event/Generic.pm
lib/5.38.2/Test2/Event/V2.pm
lib/5.38.2/Test2/Event/Note.pm
lib/5.38.2/Test2/API.pm
lib/5.38.2/Test2/Tools/Tiny.pm
lib/5.38.2/Test2/Event.pm
lib/5.38.2/Test2/EventFacet.pm
lib/5.38.2/Test2/Util.pm
lib/5.38.2/Test2/API/InterceptResult/Squasher.pm
lib/5.38.2/Test2/API/InterceptResult/Event.pm
lib/5.38.2/Test2/API/InterceptResult/Hub.pm
lib/5.38.2/Test2/API/Breakage.pm
lib/5.38.2/Test2/API/InterceptResult.pm
lib/5.38.2/Test2/API/Instance.pm
lib/5.38.2/Test2/API/Stack.pm
lib/5.38.2/Test2/API/Context.pm
lib/5.38.2/Test2/Util/ExternalMeta.pm
lib/5.38.2/Test2/Util/Trace.pm
lib/5.38.2/Test2/Util/Facets2Legacy.pm
lib/5.38.2/Test2/Util/HashBase.pm
lib/5.38.2/Test2/Hub.pm
lib/5.38.2/Test2/Transition.pod
-----------------
Copyright 2020 Chad Granum E<lt>exodist@cpan.orgE<gt>.


lib/site_perl/5.38.2/Try/Tiny.pm
-----------------
This software is Copyright (c) 2009 by '  (Yuval Kogman).


lib/site_perl/5.38.2/WWW/RobotRules.pm
-----------------
  Copyright 1995-2009, Gisle Aas
  Copyright 1995, Martijn Koster


lib/site_perl/5.38.2/x86_64-linux-thread-multi/MIME/QuotedPrint.pm
-----------------
Copyright 1995-1997,2002-2004 Gisle Aas.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/MIME/Base64.pm
-----------------
Copyright 1995-1999, 2001-2004, 2010 Gisle Aas.
The XS implementation uses code from metamail.  Copyright 1991 Bell
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/site_perl/5.38.2/x86_64-linux-thread-multi/CryptX.pm
-----------------
Copyright (c) 2013-2021 DCIT, a.s. L<https://www.dcit.cz> / Karel Miko


lib/site_perl/5.38.2/x86_64-linux-thread-multi/Time/HiRes.pm
-----------------
Copyright (c) 1996-2002 Douglas E. Wegscheid.  All rights reserved.
Copyright (c) 2002, 2003, 2004, 2005, 2006, 2007, 2008 Jarkko Hietaniemi.
Copyright (C) 2011, 2012, 2013 Andrew Main (Zefram) <zefram@fysh.org>


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Sponge.pm
-----------------
#   Copyright (c) 1994-2003 Tim Bunce Ireland
This module is Copyright (c) 2003 Tim Bunce


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Gofer/Transport/null.pm
-----------------
#   Copyright (c) 2007, Tim Bunce, Ireland
Copyright (c) 2007, Tim Bunce, Ireland. All rights reserved.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Gofer/Transport/corostream.pm
-----------------
Copyright (c) 2010, Tim Bunce, Ireland. All rights reserved.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Gofer/Transport/pipeone.pm
-----------------
#   Copyright (c) 2007, Tim Bunce, Ireland


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Gofer/Transport/Base.pm
-----------------
#   Copyright (c) 2007, Tim Bunce, Ireland
Copyright (c) 2007-2008, Tim Bunce, Ireland. All rights reserved.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Gofer/Transport/stream.pm
-----------------
#   Copyright (c) 2007, Tim Bunce, Ireland


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Gofer/Policy/classic.pm
-----------------
#   Copyright (c) 2007, Tim Bunce, Ireland


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Gofer/Policy/pedantic.pm
-----------------
#   Copyright (c) 2007, Tim Bunce, Ireland


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Gofer/Policy/rush.pm
-----------------
#   Copyright (c) 2007, Tim Bunce, Ireland


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Gofer/Policy/Base.pm
-----------------
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
#   Copyright (c) 2007, Tim Bunce, Ireland


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/File.pm
----------------
#  Copyright (C) 2009-2013 by H.Merijn Brand & Jens Rehsack
#  Copyright (C) 2004 by Jeff Zucker
#  Copyright (C) 1998 by Jochen Wiedmann
 Copyright (C) 2009-2013 by H.Merijn Brand & Jens Rehsack
 Copyright (C) 2004-2009 by Jeff Zucker
 Copyright (C) 1998-2004 by Jochen Wiedmann


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/File/Developers.pod
----------------
Copyright (C) 2010-2013 by H.Merijn Brand & Jens Rehsack


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/File/HowTo.pod
----------------
Copyright (C) 2010 by H.Merijn Brand & Jens Rehsack


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Oracle/Troubleshooting/Win32.pod
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Oracle/Troubleshooting/Win64.pod
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Oracle/Troubleshooting/Vms.pod
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Oracle/Troubleshooting/Hpux.pod
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Oracle/Troubleshooting/Sun.pod
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Oracle/Troubleshooting/Cygwin.pod
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Oracle/Troubleshooting/Aix.pod
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Oracle/Troubleshooting/Macos.pod
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Oracle/Troubleshooting/Linux.pod
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Oracle/Object.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Oracle/Troubleshooting.pod
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Oracle/GetInfo.pm
----------------
This software is copyright (c) 2022, 2021, 2019, 2014, 2013, 2012, 2011, 2010 by Tim
Bunce.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/DBM.pm
----------------
#  Copyright (c) 2004 by Jeff Zucker < jzucker AT cpan.org >
#  Copyright (c) 2010-2013 by Jens Rehsack & H.Merijn Brand
 Copyright (c) 2004 by Jeff Zucker, all rights reserved.
 Copyright (c) 2010-2013 by Jens Rehsack & H.Merijn Brand, all rights reserved.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/NullP.pm
----------------
#   Copyright (c) 1994-2007 Tim Bunce


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Proxy.pm
----------------
#   Copyright (c) 1997,1998  Jochen Wiedmann
This module is Copyright (c) 1997, 1998


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Oracle.pm
----------------
#   Copyright (c) 1994-2005 Tim Bunce, Ireland
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
#   Copyright (c) 2006-2008 John Scoles (The Pythian Group), Canada
This software is copyright (c) 2022, 2021, 2019, 2014, 2013, 2012, 2011, 2010 by Tim
Bunce.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/ExampleP.pm
----------------
#   Copyright (c) 1994,1997,1998 Tim Bunce


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Mem.pm
----------------
#  Copyright (C) 2016,2017 by Jens Rehsack
 Copyright (c) 2016- by Jens Rehsack, all rights reserved.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBD/Gofer.pm
----------------
#   Copyright (c) 2007, Tim Bunce, Ireland
Copyright (c) 2007, Tim Bunce, Ireland. All rights reserved.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/Term/ReadKey.pm
----------------
 Copyright (C) 1994-1999 Kenneth Albanowski.
              2001-2005 Jonathan Stowe and others

               Unlimited distribution and/or modification is allowed as long as this
               copyright notice remains intact.

And was only stated in the README file.

Because I believe the original author's intent was to be more open than the
other commonly used licenses I would like to leave that in place. However if
you or your lawyers require something with some more words you can optionally
choose to license this under the standard Perl license:

      This module is free software; you can redistribute it and/or modify it
      under the terms of the Artistic License. For details, see the full
      text of the license in the file "Artistic" that should have been provided
      with the version of perl you are using.

      This program is distributed in the hope that it will be useful, but
      without any warranty; without even the implied warranty of merchantability
      or fitness for a particular purpose.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/auto/DBD/Oracle/dbdimp.h
----------------
    Copyright (c) 1994-2006 Tim Bunce
    Copyright (c) 2006-2008 John Scoles (The Pythian Group), Canada


lib/site_perl/5.38.2/x86_64-linux-thread-multi/auto/DBD/Oracle/Oracle.h
----------------
   Copyright (c) 1994-2006  Tim Bunce


lib/site_perl/5.38.2/x86_64-linux-thread-multi/auto/DBI/dbi_sql.h
----------------
 * Copyright (c) 1997,1998,1999  Tim Bunce  England
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/site_perl/5.38.2/x86_64-linux-thread-multi/auto/DBI/Driver_xst.h
-----------------
#  Copyright (c) 2002  Tim Bunce  Ireland


lib/site_perl/5.38.2/x86_64-linux-thread-multi/auto/DBI/dbd_xsh.h
-----------------
 * Copyright 2000-2002 Tim Bunce
 * Copyright 2002      Jonathan Leffler


lib/site_perl/5.38.2/x86_64-linux-thread-multi/auto/DBI/dbipport.h
-----------------
Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.
Version 2.x, Copyright (C) 2001, Paul Marquess.
Version 1.x, Copyright (C) 1999, Kenneth Albanowski.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/auto/DBI/DBIXS.h
-----------------
 * Copyright (c) 1994-2010  Tim Bunce  Ireland


lib/site_perl/5.38.2/x86_64-linux-thread-multi/auto/DBI/Driver.xst
-----------------
#  Copyright (c) 1997-2002  Tim Bunce  Ireland
#  Copyright (c) 2002       Jonathan Leffler


lib/site_perl/5.38.2/x86_64-linux-thread-multi/HTML/HeadParser.pm
-----------------
Copyright 1996-2001 Gisle Aas. All rights reserved.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/HTML/Filter.pm
-----------------
Copyright 1997-1999 Gisle Aas.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/HTML/Entities.pm
-----------------
Copyright 1995-2006 Gisle Aas. All rights reserved.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/HTML/TokeParser.pm
-----------------
Copyright 1998-2005 Gisle Aas.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/HTML/PullParser.pm
-----------------
Copyright 1998-2001 Gisle Aas.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/HTML/Parser.pm
-----------------
 Copyright 1996-2016 Gisle Aas. All rights reserved.
 Copyright 1999-2000 Michael A. Chase.  All rights reserved.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/HTML/LinkExtor.pm
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
-----------------
Copyright 1996-2001 Gisle Aas.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/Crypt/Curve25519.pm
-----------------
This software is copyright (c) 2014 by Alex J. G. Burzyński <ajgb@cpan.org>.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/XML/Parser/LWPExternEnt.pl
-----------------
# Copyright (c) 2000 Clark Cooper


lib/site_perl/5.38.2/x86_64-linux-thread-multi/XML/Parser.pm
-----------------
# Copyright (c) 1998-2000 Larry Wall and Clark Cooper


lib/site_perl/5.38.2/x86_64-linux-thread-multi/Filesys/Df.pm
-----------------
Copyright (c) 2006 Ian Guthrie. All rights reserved.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl.pm
-----------------
Copyright (c) 2015-2017 Rythmos, Inc.
Copyright (c) 2001-2003 Benjamin Trott, Copyright (c) 2003-2008 David
Rolsky.  Copyright (c) David Robins.  All rights reserved.  This
program is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.

The full text of the license can be found in the LICENSE file included
with this module.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Key/Ed25519.pm
-----------------
Copyright (c) 2015-2016 Loyalty Methods, Inc.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Key/ECDSA.pm
-----------------
Copyright (c) 2016 Loyalty Methods, Inc.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Proxy.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Mac.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Kex/DHGEXSHA1.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Kex/DHGEXSHA256.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Kex/C25519.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Kex/DHGEX.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Cipher/CTR.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Cipher/AES_CBC.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Cipher/AES192_CTR.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Cipher/ChachaPoly.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Cipher/AES256_CTR.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Cipher/AES_CTR.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Cipher/AES128_CTR.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Cipher/AES256_CBC.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Cipher/AES128_CBC.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Cipher/AES192_CBC.pm
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
-----------------
Copyright (c) 2015 Loyalty Methods, Inc.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Kex/DH18SHA512.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Kex/DH16SHA512.pm
-----------------
Copyright (c) 2016 Loyalty Methods, Inc.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Cipher/CBC.pm
-----------------
# Parts copyright (C) 1995, 1996 Systemics Ltd (http://www.systemics.com/)


lib/site_perl/5.38.2/x86_64-linux-thread-multi/Net/SSH/Perl/Cipher/CFB.pm
-----------------
# Parts Copyright (C) 1995, 1996 Systemics Ltd (http://www.systemics.com/)


lib/site_perl/5.38.2/x86_64-linux-thread-multi/Digest/MD2.pm
-----------------
 Copyright 1998-2003 Gisle Aas.
 Copyright 1990-1992 RSA Data Security, Inc.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/Digest/SHA1.pm
-----------------
 Copyright 1999-2004 Gisle Aas.
 Copyright 1997 Uwe Hollerbach.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI.pm
-----------------
# Copyright (c) 1994-2012  Tim Bunce  Ireland
The DBI module is Copyright (c) 1994-2012 Tim Bunce. Ireland.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/Compress/Raw/Bzip2.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/Compress/Raw/Zlib.pm
-----------------
Copyright (c) 2005-2021 Paul Marquess. All rights reserved.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/Gofer/Execute.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/Gofer/Transport/pipeone.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/Gofer/Transport/Base.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/Gofer/Transport/stream.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/Gofer/Serializer/DataDumper.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/Gofer/Serializer/Storable.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/Gofer/Serializer/Base.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/Gofer/Request.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/Gofer/Response.pm
-----------------
#   Copyright (c) 2007, Tim Bunce, Ireland


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/ProxyServer.pm
-----------------
#   Copyright (c) 1997  Jochen Wiedmann
    "DBI::ProxyServer $version, Copyright (C) 1998, Jochen Wiedmann";
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/ProfileDumper/Apache.pm
----------------
Copyright (C) 2002 Sam Tregar


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/DBD/SqlEngine/Developers.pod
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/DBD/SqlEngine/HowTo.pod
----------------
Copyright (C) 2010 by H.Merijn Brand & Jens Rehsack


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/DBD/SqlEngine.pm
----------------
#  Copyright (C) 2009-2013 by H.Merijn Brand & Jens Rehsack
#  Copyright (C) 2004 by Jeff Zucker
#  Copyright (C) 1998 by Jochen Wiedmann
 Copyright (C) 2009-2013 by H.Merijn Brand & Jens Rehsack
 Copyright (C) 2004-2009 by Jeff Zucker
 Copyright (C) 1998-2004 by Jochen Wiedmann


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/DBD/Metadata.pm
----------------
# Copyright (c) 1997-2003 Jonathan Leffler, Jochen Wiedmann,


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/ProfileDumper.pm
----------------
Copyright (C) 2002 Sam Tregar


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/SQL/Nano.pm
----------------
#  Copyright (c) 2010 by Jens Rehsack < rehsack AT cpan.org >
#  Copyright (c) 2004 by Jeff Zucker < jzucker AT cpan.org >
Copyright (C) 2010 by Jens Rehsack, all rights reserved.
Copyright (C) 2004 by Jeff Zucker, all rights reserved.


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/Const/GetInfoReturn.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/Const/GetInfoType.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/Const/GetInfo/ANSI.pm
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/Const/GetInfo/ODBC.pm
----------------
# Copyright (c) 2002  Tim Bunce  Ireland


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/ProfileData.pm
----------------
Copyright (C) 2002 Sam Tregar


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/DBD.pm
----------------
# Copyright (c) 1997-2006 Jonathan Leffler, Jochen Wiedmann, Steffen


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/PurePerl.pm
----------------
# Copyright (c) 2002,2003  Tim Bunce  Ireland.
Copyright (c) 2002  Tim Bunce  Ireland.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/Util/CacheMemory.pm
----------------
#   Copyright (c) 2007, Tim Bunce, Ireland


lib/site_perl/5.38.2/x86_64-linux-thread-multi/DBI/W32ODBC.pm
----------------
# Copyright (c) 1997,1999 Tim Bunce


lib/site_perl/5.38.2/Date/Language/Bulgarian.pm
----------------
Copyright (c) 2010 Krasimir Berov. This program is free


lib/site_perl/5.38.2/Date/Format.pm
----------------
# Copyright (c) 1995-2009 Graham Barr. This program is free
Copyright (c) 1995-2009 Graham Barr. This program is free


lib/site_perl/5.38.2/Date/Parse.pm
----------------
# Copyright (c) 1995-2009 Graham Barr. This program is free
Copyright (c) 1995-2009 Graham Barr. This program is free


lib/site_perl/5.38.2/Encode/Locale.pm
----------------
Copyright 2010 Gisle Aas <gisle@aas.no>.


lib/site_perl/5.38.2/Sys/Info/Driver.pm
----------------
This software is copyright (c) 2006 by Burak Gursoy.


lib/site_perl/5.38.2/Sys/Info/Device.pm
----------------
This software is copyright (c) 2006 by Burak Gursoy.


lib/site_perl/5.38.2/Sys/Info/OS.pm
----------------
This software is copyright (c) 2006 by Burak Gursoy.


lib/site_perl/5.38.2/Sys/Info/Constants.pm
----------------
This software is copyright (c) 2006 by Burak Gursoy.


lib/site_perl/5.38.2/Sys/Info/Helper.pm
----------------
This software is copyright (c) 2006 by Burak Gursoy.


lib/site_perl/5.38.2/Sys/Info/Base.pm
----------------
This software is copyright (c) 2006 by Burak Gursoy.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/site_perl/5.38.2/Sys/Info/Device/CPU.pm
lib/site_perl/5.38.2/Sys/Info.pm
----------------
This software is copyright (c) 2006 by Burak Gursoy.


lib/site_perl/5.38.2/File/Listing.pm
----------------
This software is copyright (c) 1996-2020 by Gisle Aas.


lib/site_perl/5.38.2/File/HomeDir/MacOS9.pm
----------------
Copyright 2005 - 2011 Adam Kennedy.
Copyright 2017 - 2020 Jens Rehsack
Some parts copyright 2000 Sean M. Burke.


lib/site_perl/5.38.2/File/HomeDir/Driver.pm
lib/site_perl/5.38.2/File/HomeDir/Darwin.pm
lib/site_perl/5.38.2/File/HomeDir/Darwin/Carbon.pm
lib/site_perl/5.38.2/File/HomeDir/Darwin/Cocoa.pm
----------------
Copyright 2009 - 2011 Adam Kennedy.
Copyright 2017 - 2020 Jens Rehsack


lib/site_perl/5.38.2/File/HomeDir/Windows.pm
lib/site_perl/5.38.2/File/HomeDir/Unix.pm
----------------
Copyright 2005 - 2011 Adam Kennedy.
Copyright 2017 - 2020 Jens Rehsack
Some parts copyright 2000 Sean M. Burke.


lib/site_perl/5.38.2/File/HomeDir/Test.pm
----------------
Copyright 2005 - 2011 Adam Kennedy.
Copyright 2017 - 2020 Jens Rehsack


lib/site_perl/5.38.2/File/HomeDir/FreeDesktop.pm
----------------
Copyright 2009 - 2011 Jerome Quelin.
Some parts copyright 2010 Adam Kennedy.
Some parts copyright 2017 - 2020 Jens Rehsack


lib/site_perl/5.38.2/File/Which.pm
----------------
This software is copyright (c) 2002 by Per Einar Ellefsen <pereinar@cpan.org>.


lib/site_perl/5.38.2/File/HomeDir.pm
----------------
Copyright 2005 - 2012 Adam Kennedy.
Copyright 2017 - 2020 Jens Rehsack
Some parts copyright 2000 Sean M. Burke.
Some parts copyright 2006 Chris Nandor.
Some parts copyright 2006 Stephen Steneker.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Some parts copyright 2009-2011 Jérôme Quelin.


lib/site_perl/5.38.2/Switch.pm
----------------
    Copyright (c) 1997-2008, Damian Conway. All Rights Reserved.


lib/site_perl/5.38.2/Mail/Send.pod
----------------
Copyrights 1995-2000 Graham Barr E<lt>gbarr@pobox.comE<gt> and


lib/site_perl/5.38.2/Mail/Cap.pm
----------------
# Copyrights 1995-2019 by [Mark Overmeer <markov@cpan.org>].


lib/site_perl/5.38.2/Mail/Filter.pm
----------------
# Copyrights 1995-2019 by [Mark Overmeer <markov@cpan.org>].


lib/site_perl/5.38.2/Mail/Filter.pod
lib/site_perl/5.38.2/Mail/Cap.pod
lib/site_perl/5.38.2/Mail/Util.pod
----------------
Copyrights 1995-2000 Graham Barr E<lt>gbarr@pobox.comE<gt> and


lib/site_perl/5.38.2/Mail/Send.pm
lib/site_perl/5.38.2/Mail/Address.pm
----------------
# Copyrights 1995-2019 by [Mark Overmeer <markov@cpan.org>].


lib/site_perl/5.38.2/Mail/Mailer.pod
lib/site_perl/5.38.2/Mail/Address.pod
----------------
Copyrights 1995-2000 Graham Barr E<lt>gbarr@pobox.comE<gt> and


lib/site_perl/5.38.2/Mail/Field.pm
lib/site_perl/5.38.2/Mail/Mailer.pm
lib/site_perl/5.38.2/Mail/Util.pm
lib/site_perl/5.38.2/Mail/Internet.pm
lib/site_perl/5.38.2/Mail/Field/Date.pm
lib/site_perl/5.38.2/Mail/Field/AddrList.pm
----------------
# Copyrights 1995-2019 by [Mark Overmeer <markov@cpan.org>].


lib/site_perl/5.38.2/Mail/Field/Generic.pod
lib/site_perl/5.38.2/Mail/Field/Date.pod
lib/site_perl/5.38.2/Mail/Field/AddrList.pod
lib/site_perl/5.38.2/Mail/Internet.pod
lib/site_perl/5.38.2/Mail/Field.pod
lib/site_perl/5.38.2/Mail/Header.pod
----------------
Copyrights 1995-2000 Graham Barr E<lt>gbarr@pobox.comE<gt> and
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/site_perl/5.38.2/Mail/Field/Generic.pm
lib/site_perl/5.38.2/Mail/Header.pm
lib/site_perl/5.38.2/Mail/Mailer/smtp.pm
lib/site_perl/5.38.2/Mail/Mailer/rfc822.pm
lib/site_perl/5.38.2/Mail/Mailer/smtps.pm
lib/site_perl/5.38.2/Mail/Mailer/testfile.pm
lib/site_perl/5.38.2/Mail/Mailer/sendmail.pm
lib/site_perl/5.38.2/Mail/Mailer/qmail.pm
lib/site_perl/5.38.2/MailTools.pod
----------------
# Copyrights 1995-2019 by [Mark Overmeer <markov@cpan.org>].


lib/site_perl/5.38.2/Mail/Sender.pm
----------------
Copyright (c) 1997-2014 Jan Krynický <F<Jenda@Krynicky.cz>>. All rights reserved.


lib/site_perl/5.38.2/HTML/FormatPS.pm
lib/site_perl/5.38.2/HTML/FormatMarkdown.pm
lib/site_perl/5.38.2/HTML/Formatter.pm
lib/site_perl/5.38.2/HTML/FormatText.pm
lib/site_perl/5.38.2/HTML/FormatRTF.pm
----------------
This software is copyright (c) 2016 by Nigel Metheringham, 2002-2005 Sean M Burke,
1999-2002 Gisle Aas.


lib/site_perl/5.38.2/HTML/Form.pm
----------------
This software is copyright (c) 1998 by Gisle Aas.


lib/site_perl/5.38.2/HTML/Tagset.pm
----------------
Copyright 1995-2000 Gisle Aas.
Copyright 2000-2005 Sean M. Burke.
Copyright 2005-2008 Andy Lester.


lib/site_perl/5.38.2/HTML/FormatRTF.pm
----------------
This software is copyright (c) 2016 by Nigel Metheringham, 2002-2005 Sean M Burke,
1999-2002 Gisle Aas.


lib/site_perl/5.38.2/URI/Heuristic.pm
----------------
Copyright 1997-1998, Gisle Aas


lib/site_perl/5.38.2/URI/file.pm
----------------
Copyright 1995-1998,2004 Gisle Aas.


lib/site_perl/5.38.2/URI/ldap.pm
----------------
# Copyright (c) 1998 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/URI/URL.pm
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
-----------------
Copyright 1998-2000 Gisle Aas.


lib/site_perl/5.38.2/URI/Split.pm
-----------------
Copyright 2003, Gisle Aas


lib/site_perl/5.38.2/URI/data.pm
-----------------
Copyright 1995-1998 Gisle Aas.


lib/site_perl/5.38.2/URI/Escape.pm
-----------------
Copyright 1995-2004 Gisle Aas.


lib/site_perl/5.38.2/URI/QueryParam.pm
-----------------
Copyright 2002 Gisle Aas.


lib/site_perl/5.38.2/URI/WithBase.pm
-----------------
Copyright 1998-2002 Gisle Aas.


lib/site_perl/5.38.2/URI/_ldap.pm
-----------------
# Copyright (c) 1998 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/MailTools.pm
-----------------
# Copyrights 1995-2019 by [Mark Overmeer <markov@cpan.org>].


lib/site_perl/5.38.2/LWP.pm
-----------------
  Copyright 1995-2009, Gisle Aas
  Copyright 1995, Martijn Koster


lib/site_perl/5.38.2/RPC/PlClient/Comm.pm
lib/site_perl/5.38.2/RPC/PlServer/Comm.pm
lib/site_perl/5.38.2/RPC/PlClient.pm
lib/site_perl/5.38.2/RPC/PlServer.pm
-----------------
#   Copyright (c) 1997,1998  Jochen Wiedmann


lib/site_perl/5.38.2/JSON/backportPP/Compat5006.pm
lib/site_perl/5.38.2/JSON/backportPP/Compat5005.pm
-----------------
Copyright 2007-2012 by Makamaka Hannyaharamitu


lib/site_perl/5.38.2/JSON/backportPP.pm
-----------------
Copyright 2007-2016 by Makamaka Hannyaharamitu
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/site_perl/5.38.2/Net/LDAPS.pm
-----------------
# Copyright (c) 2000-2004 Chris Ridd <chris.ridd@isode.com> and
Copyright (c) 2000-2004, Chris Ridd and Graham Barr. All rights reserved. This


lib/site_perl/5.38.2/Net/Daemon/Log.pm
lib/site_perl/5.38.2/Net/Daemon/Test.pm
-----------------
#   Copyright (C) 1998, Jochen Wiedmann
  Net::Daemon is Copyright (C) 1998, Jochen Wiedmann


lib/site_perl/5.38.2/Net/HTTPS.pm
-----------------
This software is copyright (c) 2001-2017 by Gisle Aas.


lib/site_perl/5.38.2/Net/LDAP/Control/MatchedValues.pm
-----------------
# Copyright (c) 2011 Peter Marschall <peter@adpm.de>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/SortResult.pm
-----------------
# Copyright (c) 1999-2004 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/PersistentSearch.pm
-----------------
# Copyright (c) 2004 Peter Marschall <peter@adpm.de>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/Assertion.pm
-----------------
# Copyright (c) 2011 Peter Marschall <peter@adpm.de>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/Subentries.pm
-----------------
# Copyright (c) 2020 Peter Marschall <peter@adpm.de>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/SyncDone.pm
-----------------
# Copyright (c) 2008 Mathieu Parent <math.parent@gmail.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/VLV.pm
-----------------
# Copyright (c) 2000-2004 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/ProxyAuth.pm
-----------------
# Copyright (c) 2001-2004 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/ManageDsaIT.pm
-----------------
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
# Copyright (c) 2004 Peter Marschall <peter@adpm.de>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/PasswordPolicy.pm
-----------------
# Copyright (c) 2008 Chris Ridd <chris.ridd@isode.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/DontUseCopy.pm
-----------------
# Copyright (c) 2014 Peter Marschall <peter@adpm.de>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/Paged.pm
-----------------
# Copyright (c) 2000-2004 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/EntryChange.pm
-----------------
# Copyright (c) 2004 Peter Marschall <peter@adpm.de>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/NoOp.pm
-----------------
# Copyright (c) 2021 Peter Marschall <peter@adpm.de>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/Relax.pm
-----------------
# Copyright (c) 2013 Peter Marschall <peter@adpm.de>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/Sort.pm
-----------------
# Copyright (c) 1999-2004 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/PostRead.pm
-----------------
# Copyright (c) 2008 Peter Marschall <peter@adpm.de>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/PreRead.pm
-----------------
# Copyright (c) 2008 Peter Marschall <peter@adpm.de>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/VLVResponse.pm
-----------------
# Copyright (c) 2000-2004 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/SyncState.pm
-----------------
# Copyright (c) 2008 Mathieu Parent <math.parent@gmail.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control/TreeDelete.pm
-----------------
# Copyright (c) 2020 Peter Marschall <peter@adpm.de>. All rights reserved.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/site_perl/5.38.2/Net/LDAP/Control/SyncRequest.pm
-----------------
# Copyright (c) 2008 Mathieu Parent <math.parent@gmail.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Bind.pm
-----------------
# Copyright (c) 1998-2004 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Extra/AD.pm
-----------------
Copyright (c) 2012 Peter Marschall. All rights reserved. This program is


lib/site_perl/5.38.2/Net/LDAP/Extra/eDirectory.pm
-----------------
Copyright (c) 2013 Peter Marschall. All rights reserved. This program is


lib/site_perl/5.38.2/Net/LDAP/LDIF.pm
-----------------
# Copyright (c) 1997-2008 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Filter.pm
-----------------
# Copyright (c) 1997-2004 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Extra.pm
-----------------
# Copyright (c) 2000-2004 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/FAQ.pod
-----------------
Copyright (c) 1999-2004 Graham Barr, (c) 2012 Peter Marschall. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/FilterMatch.pm
-----------------
# Copyright (c) 2005-2006 Hans Klunder <hans.klunder@bigfoot.com>
# Copyright (c) 2005-2012 Peter Marschall <peter@adpm.de>


lib/site_perl/5.38.2/Net/LDAP/Schema.pm
-----------------
# Copyright (c) 1998-2004 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/RootDSE.pm
-----------------
# Copyright (c) 2003-2004 Chris Ridd <chris.ridd@isode.com> and
Copyright (c) 2003-2004, Chris Ridd and Graham Barr. All rights reserved. This


lib/site_perl/5.38.2/Net/LDAP/DSML.pm
-----------------
# Copyright (c) 2002-2006 Graham Barr. All rights reserved. This program is
Copyright (c) 2002-2006 Graham Barr. All rights reserved. This program is
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/site_perl/5.38.2/Net/LDAP/Filter.pod
----------------
Copyright (c) 1997-2004 Graham Barr. All rights reserved. This program is


lib/site_perl/5.38.2/Net/LDAP/Schema.pod
----------------
Copyright (c) 1998-2004 Graham Barr. All rights reserved. This program is


lib/site_perl/5.38.2/Net/LDAP/Extension/WhoAmI.pm
----------------
Copyright (c) 2002-2004 Graham Barr. All rights reserved. This program is


lib/site_perl/5.38.2/Net/LDAP/Extension/Cancel.pm
----------------
Copyright (c) 2011 Peter Marschall. All rights reserved. This program is


lib/site_perl/5.38.2/Net/LDAP/Extension/SetPassword.pm
----------------
Copyright (c) 2002-2004 Graham Barr. All rights reserved. This program is


lib/site_perl/5.38.2/Net/LDAP/Extension/Refresh.pm
----------------
Copyright (c) 2010 Etienne Bagnoud. All rights reserved. This program is


lib/site_perl/5.38.2/Net/LDAP/Constant.pm
----------------
# Copyright (c) 1998-2009 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Intermediate.pm
----------------
# Copyright (c) 2008 Mathieu Parent <math.parent@gmail.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Entry.pod
----------------
Copyright (c) 1997-2004 Graham Barr. All rights reserved. This program


lib/site_perl/5.38.2/Net/LDAP/Entry.pm
----------------
# Copyright (c) 1997-2004 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Control.pm
----------------
# Copyright (c) 1999-2004 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Search.pm
----------------
# Copyright (c) 1997-2004 Graham Barr <gbarr@pobox.com>. All rights reserved.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/site_perl/5.38.2/Net/LDAP/Message.pod
-----------------
Copyright (c) 1997-2004 Graham Barr. All rights reserved. This program


lib/site_perl/5.38.2/Net/LDAP/Util.pm
-----------------
# Copyright (c) 1999-2004 Graham Barr <gbarr@pobox.com> and


lib/site_perl/5.38.2/Net/LDAP/Security.pod
-----------------
Copyright (c) 2001-2004 Chris Ridd. All rights reserved. This program is


lib/site_perl/5.38.2/Net/LDAP/LDIF.pod
-----------------
Copyright (c) 1997-2004 Graham Barr. All rights reserved. This program


lib/site_perl/5.38.2/Net/LDAP/Search.pod
-----------------
Copyright (c) 1997-2004 Graham Barr. All rights reserved. This program


lib/site_perl/5.38.2/Net/LDAP/Extension.pm
-----------------
# Copyright (c) 1998-2004 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Message.pm
-----------------
# Copyright (c) 1997-2004 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAP/Reference.pod
-----------------
Copyright (c) 1997-2004 Graham Barr. All rights reserved. This program is


lib/site_perl/5.38.2/Net/LDAP/Intermediate/SyncInfo.pm
-----------------
# Copyright (c) 2008 Mathieu Parent <math.parent@gmail.com>. All rights reserved.
Copyright (c) 2008 Mathieu Parent. All rights reserved. This program is


lib/site_perl/5.38.2/Net/HTTP/NB.pm
-----------------
This software is copyright (c) 2001-2017 by Gisle Aas.


lib/site_perl/5.38.2/Net/HTTP/Methods.pm
-----------------
This software is copyright (c) 2001-2017 by Gisle Aas.


lib/site_perl/5.38.2/Net/LDAP.pm
-----------------
# Copyright (c) 1997-2004 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/Net/LDAPI.pm
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
-----------------
# Copyright (c) 2003-2004 Derrik Pates <dpates@dsdk12.net> and Graham Barr
Copyright (c) 2003-2004, Derrik Pates and Graham Barr. All


lib/site_perl/5.38.2/Net/Daemon.pm
-----------------
#   Copyright (C) 1998, Jochen Wiedmann
    "Net::Daemon server, Copyright (C) 1998, Jochen Wiedmann";
  Net::Daemon is Copyright (C) 1998, Jochen Wiedmann


lib/site_perl/5.38.2/Net/HTTP.pm
-----------------
This software is copyright (c) 2001-2017 by Gisle Aas.


lib/site_perl/5.38.2/Net/LDAP.pod
-----------------
Copyright (c) 1997-2004 Graham Barr. All rights reserved. This program is


lib/site_perl/5.38.2/LWP/UserAgent.pm
-----------------
Copyright 1995-2009 Gisle Aas.


lib/site_perl/5.38.2/LWP/Protocol/ldaps.pm
-----------------
Copyright (c) 2012 Peter Marschall. All rights reserved. This program is


lib/site_perl/5.38.2/LWP/Protocol/ldap.pm
-----------------
# Copyright (c) 1998-2004 Graham Barr <gbarr@pobox.com>. All rights reserved.
Copyright (c) 1998-2004 Graham Barr, 2012 Peter Marschall.


lib/site_perl/5.38.2/LWP/Protocol/ldapi.pm
-----------------
Copyright (c) 2012 Peter Marschall. All rights reserved. This program is


lib/site_perl/5.38.2/LWP/RobotUA.pm
-----------------
Copyright 1996-2004 Gisle Aas.


lib/site_perl/5.38.2/LWP/ConnCache.pm
-----------------
Copyright 2001 Gisle Aas.


lib/site_perl/5.38.2/LWP/Authen/Ntlm.pm
-----------------
Copyright (c) 2002 James Tillman. All rights reserved. This


lib/site_perl/5.38.2/LWP/MediaTypes.pm
-----------------
Copyright 1995-1999 Gisle Aas.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/site_perl/5.38.2/LWP/Protocol.pm
-----------------
Copyright 1995-2001 Gisle Aas.


lib/site_perl/5.38.2/HTTP/Negotiate.pm
-----------------
Copyright 1996,2001 Gisle Aas.


lib/site_perl/5.38.2/HTTP/Date.pm
-----------------
This software is copyright (c) 1995-2019 by Gisle Aas.


lib/site_perl/5.38.2/HTTP/Status.pm
lib/site_perl/5.38.2/HTTP/Headers/Auth.pm
lib/site_perl/5.38.2/HTTP/Headers/Util.pm
lib/site_perl/5.38.2/HTTP/Headers/ETag.pm
lib/site_perl/5.38.2/HTTP/Request.pm
lib/site_perl/5.38.2/HTTP/Config.pm
lib/site_perl/5.38.2/HTTP/Response.pm
lib/site_perl/5.38.2/HTTP/Message.pm
lib/site_perl/5.38.2/HTTP/Request/Common.pm
lib/site_perl/5.38.2/HTTP/Headers.pm
-----------------
This software is copyright (c) 1994 by Gisle Aas.


lib/site_perl/5.38.2/HTTP/Daemon.pm
-----------------
This software is copyright (c) 1995 by Gisle Aas.


lib/site_perl/5.38.2/HTTP/Cookies/Netscape.pm
lib/site_perl/5.38.2/HTTP/Cookies.pm
-----------------
This software is copyright (c) 2002 by Gisle Aas.


lib/site_perl/5.38.2/HTTP/Cookies/Microsoft.pm
-----------------
Copyright 2002 Johnny Lee
This software is copyright (c) 2002 by Gisle Aas.


lib/site_perl/5.38.2/JSON.pm
-----------------
Copyright 2005-2013 by Makamaka Hannyaharamitu


lib/site_perl/5.38.2/PerlIO/via/Timeout.pm
-----------------
# This software is copyright (c) 2013 by Damien "dams" Krotkine.
This software is copyright (c) 2013 by Damien "dams" Krotkine.


lib/site_perl/5.38.2/URI.pm
-----------------
Copyright 1995-2009 Gisle Aas.
Copyright 1995 Martijn Koster.
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
lib/site_perl/5.38.2/Compress/Zlib.pm
-----------------
Copyright (c) 1995-2021 Paul Marquess. All rights reserved.


lib/site_perl/5.38.2/IO/Uncompress/AnyUncompress.pm
lib/site_perl/5.38.2/IO/Uncompress/Inflate.pm
lib/site_perl/5.38.2/IO/Uncompress/AnyInflate.pm
lib/site_perl/5.38.2/IO/Uncompress/RawInflate.pm
lib/site_perl/5.38.2/IO/Uncompress/Unzip.pm
lib/site_perl/5.38.2/IO/Uncompress/Base.pm
lib/site_perl/5.38.2/IO/Uncompress/Gunzip.pm
lib/site_perl/5.38.2/IO/Uncompress/Bunzip2.pm
lib/site_perl/5.38.2/IO/Compress/Bzip2.pm
lib/site_perl/5.38.2/IO/Compress/RawDeflate.pm
lib/site_perl/5.38.2/IO/Compress/FAQ.pod
lib/site_perl/5.38.2/IO/Compress/Zip.pm
lib/site_perl/5.38.2/IO/Compress/Base.pm
lib/site_perl/5.38.2/IO/Compress/Gzip.pm
lib/site_perl/5.38.2/IO/Compress/Deflate.pm
-----------------
Copyright (c) 2005-2021 Paul Marquess. All rights reserved.


lib/site_perl/5.38.2/IO/Socket/Timeout.pm
-----------------
# This software is copyright (c) 2013 by Damien "dams" Krotkine.


lib/site_perl/5.38.2/Convert/ASN1.pod
-----------------
Copyright (c) 2000-2012 Graham Barr <gbarr@cpan.org>. All rights reserved.


lib/site_perl/5.38.2/Convert/ASN1/parser.pm
lib/site_perl/5.38.2/Convert/ASN1/IO.pm
lib/site_perl/5.38.2/Convert/ASN1/Debug.pm
lib/site_perl/5.38.2/Convert/ASN1/_decode.pm
lib/site_perl/5.38.2/Convert/ASN1/_encode.pm
lib/site_perl/5.38.2/Convert/ASN1.pm
-----------------
# Copyright (c) 2000-2002 Graham Barr <gbarr@pobox.com>. All rights reserved.


lib/site_perl/5.38.2/libwww/lwpcook.pod
-----------------
Copyright 1996-2001, Gisle Aas


lib/site_perl/5.38.2/libwww/lwptut.pod
-----------------
Copyright 2002, Sean M. Burke.  You can redistribute this document and/or..
```

Typesafe Inc. - Typesafe config License

```
Typesafe Config
config (com.typesafe:config)
  Copyright (C) 2011-2015 Typesafe Inc. <http://typesafe.com>
-------------------------------------------
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

Apache License
For a copy of the license, see Apache Software Foundation Licenses, Version 2.0.

Wildfly JBoss Application Server - wildfly-client-all License

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know

Copyright © 2015, 2025, Oracle and/or its affiliates.

that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

```
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if

Copyright © 2015, 2025, Oracle and/or its affiliates.

the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

Copyright © 2015, 2025, Oracle and/or its affiliates.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free

Copyright © 2015, 2025, Oracle and/or its affiliates.

programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

  To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Copyright © 2015, 2025, Oracle and/or its affiliates.

```
Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random Hacker.

  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!
```


Copyright © 2015, 2025, Oracle and/or its affiliates.

Index

A

Active Session History (ASH), *2*
Adapter metrics, *20*
Add Protected Database for ZDLRA, *3*
ADDM Spotlight, *2*
Administration, *33*
Administrative flows, *2*
Advanced alert management, *24*, *30*
Advisor Central, *3*
Agent Management, *1*
Agent Provisioning and Patching, *1*
Agent-based Target Discovery, *1*
Alerts and Metric Threshold Management, *1*
Application Management Suite for JD Edwards EnterpriseOne, *23*
Application Management Suite for PeopleSoft Enterprise, *32*
Application Management Suite for Siebel, *1*
ASH analytics, *2*
Ask EM, *1*
Auto Discovery, *1*
Automate deployment, *5*, *28*, *6*
Automatic Database Diagnostic Monitor (ADDM), *2*
Automatic discovery, *32*, *2*, *13*, *24*, *33*
Automatic SQL Tuning, *7*
Automatic Workload Repository (AWR), *2*
AWR Hub, *3*
AWR Warehouse, *2*
AWR Warehouse Diagnosability, *2*

B

Beacons, *2*, *2*
Blackouts, *2*, *3*, *20*, *24*, *28*, *32*, *2*, *4*, *6*, *10*, *12*, *17*, *2*, *13*, *24*
Bottleneck detection, *3*
Business Application Management, *3*, *24*, *3*, *4*
Business Intelligence Management Pack, *31*

C

Cache data management, *28*, *6*
Centralized management console, *20*, *30*
Change Approval Framework, *13*
Change Center, *8*
Change history, *32*
Change Management Dashboard, *13*
Chargeback, *7*
Chargeback and Metering, *2*
Cloning, *13*
cluster visibility, *5*
Coherence Management, *4*
Complete cluster visibility, *28*
Complete service monitoring, *2*
Compliance, *12*, *35*, *6*, *2*
Compliance management, *9*, *10*
Compliance management of Exadata Engineered Systems, *10*
Component top wait event analysis, *3*
Composite Application Management, *3*, *4*
Concurrent Processing Dashboard, *13*
Configuration, *2*
Configuration Collection Extensibility, *12*, *35*, *6*, *2*, *10*
Configuration Compare, *12*, *35*, *6*, *2*, *10*
Configuration comparison, *32*
Configuration drift management, *12*
Configuration History, *12*, *35*, *6*, *2*, *10*
Configuration Instance Browser, *12*, *35*, *6*, *2*, *10*
Configuration management, *9*, *10*, *5*, *20*, *24*, *28*, *30*, *17*, *2*, *13*, *24*, *33*, *7*
Configuration Management Pack for Applications, *1*
Configuration Save, *12*, *35*, *6*, *2*, *10*
Configuration Search, *12*, *35*, *6*, *2*, *10*
Configuration snapshot, *32*
Configuration Topology, *12*, *35*, *6*, *2*, *10*
Configure Database Fleet Backup to Recovery Appliance, *33*
Consolidation Planner, *7*
CONTROL_MANAGEMENT_PACK_ACCESS initialization parameter, *3*
Copy Objects, *10*, *43*
Customization Discovery and Reporting, *13*
Customization Manager, *13*

D

Dashboard reports, *32*
Data movement, *3*

Copyright © 2015, 2025, Oracle and/or its affiliates.

database and engineered systems management, *1*
Database Fleet Advanced Backup Configuration for Recovery Appliance Using EMCLI, *33*
Database Impact Advisor, *30*
Database Lifecycle Management Pack for Oracle Database, *8*
database management
  patching, *10*, *46*
  provisioning, *10*, *46*
  upgrade, *46*
Database Migration Workbench, *3*
DBSAT Compliance Standards, *9*
Default Settings, *2*
Deployment automation, *20*
deployment model, *2*
Diagnostic Snapshot, *4*, *5*
Differential heap analysis, *3*, *5*
Discovery and service modeling, *20*
Dynamic metric baselines and Adaptive metric thresholds, *3*
Dynamic Runbooks, *3*, *3*, *20*, *28*, *32*, *2*, *4*, *6*, *7*, *10*, *17*, *2*, *24*, *1*
Dynamic Topology, *7*

E

End-to-end transaction tracing, *20*
Engineered System Autonomous Health Framework (AHF) Administration, *30*
Enterprise Data Governance, *10*
Enterprise Manager
  restricted-use license, *3*
Enterprise Manager App for Grafana, *1*
Enterprise Manager Dashboards, *2*
Enterprise Manager Federation, *2*
Enterprise Manager Mobile, *2*
Enterprise Manager Self Management and Monitoring, *2*
Enterprise Manager Service Level Management, *1*
Enterprise Manager Support Workbench, *2*
Enterprise Messaging, *1*
Error management, *3*
Event Compression, *3*, *3*, *21*, *28*, *32*, *2*, *4*, *6*, *7*, *10*, *17*, *2*, *24*, *2*
Event log analysis, *2*
Exadata
  Cell Grid Administration, *2*
  Cell Grid Performance, *2*
  Cell Group Health, *2*
  Database Machine Configuration, *35*
  Grid, *6*
Exadata Cloud Advanced Monitoring, *30*
Exadata Engineered System Compliance with AHF EXAchk, *9*
Exadata Fleet Dashboards, *30*
Exadata Infrastructure Patching, *30*
Exadata Management Pack, *29*
Exadata Resource Utilization, *2*
Exascale Advanced Monitoring, *30*
Execute SQL REST API, *3*
Extensibility Development Kit (EDK), *2*

F

File Synchronization, *10*, *35*, *2*
Fleet Maintenance, *9*
Fleet Maintenance Hub, *9*
Fleet Patching & Provisioning, *13*
Fleet Provisioning and Patching, *9*

G

Governance, *2*
Grid Infrastructure management, *3*
Groups and Systems Management, *2*
Guest VM/Linux OS Patching, *7*

H

High availability, *3*
Historical analysis and reporting, *20*, *24*, *30*
Historical metrics, *32*
Historical performance monitoring, *3*
Historical Trending, *7*
Host monitoring and management, *7*
Hybrid Cloud Management, *10*

I

I/O Resource Management Advisor, *30*
IB Network, *6*
ILOM, KVM, Cisco Switch, PDU, *6*
In-Memory Advisor, *7*
Information Publisher and Reporting, *2*
Infrastructure management, *20*, *24*, *30*
Infrastructure Management, *7*
Interactive JVM transaction trace, *3*, *5*

J

Java Flight Recorder, *1*
Java Mission Control, *1*
Job Diagnostics Dashboards, *2*
Job System and Corrective Actions, *2*
JVM Diagnostics Agent hot deployment, *3*, *3*
JVM pool monitoring, *4*, *3*

Copyright © 2015, 2025, Oracle and/or its affiliates.

L

Legacy Management Packs
    Change Management Pack for Oracle Database, *42*
    Configuration Management Pack for Oracle Database, *34*
    Provisioning and Patch Automation Pack for Oracle Database, *45*
license authorization requirement, *1*
Load Plan and Session Monitoring, *30*
Log Configuration, *8*
Log file monitoring, *28*, *6*
Log Viewer, *4*, *5*

M

Machine Administration, *8*
Manage JDBC Data Sources, *8*
Management Connectors, *3*, *3*, *20*, *28*, *32*, *2*, *4*, *6*, *7*, *10*, *17*, *2*, *24*, *7*
Management Pack for Non-Oracle Middleware, *8*
Management Pack for Oracle Coherence, *27*
Management Pack for Oracle Data Integrator, *29*
Management Pack for WebCenter, *23*
management pack information
    displaying in Enterprise Manager, *2*
Management Pack Plus for Identity Management, *1*
management packs
    enable and disable, *1*
Memory access mode, *3*
Memory leak detection and analysis, *10*
Metering and chargeback, *8*
Metric alert management, *17*
Metric and Alert/Event History, *3*, *3*, *20*, *24*, *28*, *30*, *32*, *2*, *4*, *6*, *10*, *12*, *2*, *13*, *24*
Metric Extensions, *3*, *3*, *20*, *25*, *28*, *30*, *32*, *2*, *4*, *6*, *10*, *12*, *17*, *2*, *13*, *24*, *7*
Metrics Dashboard, *30*, *33*
Monitor multiple clusters, *5*, *28*
Monitoring, *13*
Monitoring and diagnostics, *2*, *2*, *13*, *24*, *33*
Monitoring and Incident Management, *2*
Monitoring Profiles for V12N, *7*
Monitoring Templates, *3*, *3*, *20*, *24*, *28*, *30*, *32*, *2*, *4*, *6*, *10*, *12*, *17*, *2*, *13*, *24*
Multi-OMS deployment for high availability, *4*
My Oracle Support integration, *2*

N

Non-structured data management, *4*
Notifications, *2*, *10*, *4*, *6*, *21*, *24*, *28*, *30*, *32*, *2*, *4*, *6*, *10*, *12*, *17*, *2*, *14*, *24*, *7*

O

Object, program and initialization parameters management, *4*
OCI Bridge, *3*
Optimizer Management, *4*
Oracle Cloud Management Pack for Oracle Database, *1*
Oracle Data Masking and Subsetting Pack, *26*
Oracle Enterprise Manager for MySQL, *18*
Oracle HTTP Server, *2*
Oracle Linux Virtualization (OLV), *3*
Oracle Tuning Pack, *6*
Oracle VM and Guest VM provisioning, *7*
Out-of-box Self Service Portal, *2*

P

Parallel OMS Upgrades, *3*
Patch Manager, *14*
Patch Recommendations, *46*, *7*
Patching, *6*
Patching Planning, *46*
Performance and event reports, *17*
Performance charts, *33*
Performance Hub, *2*
performance monitoring, *11*, *7*
    and trending, *17*
Performance monitoring, *30*
    and diagnostics, *2*
PL/SQL Monitoring, *7*
Pluggable Database (PDB) Create/Plug/Unplug, *4*
Process Control, *5*
Provisioning Deployment Procedures, *6*
Provisioning Procedures, *46*

R

RAC
    Scale Back, *10*
    Scale Out, *10*
RAC Scale Out and Scale Back, *46*
Real Time ADDM, *2*
Real user monitoring, *2*, *14*, *24*, *33*
Real-time configuration change detection, *35*, *7*, *2*
Real-time Database Operations Monitoring, *7*
Real-time monitoring of JVM, *11*
Real-time schema change detection, *12*, *43*
Real-time SQL Monitoring, *7*
Record configuration actions, *8*
Recovery Appliance Protected Database Fleet Archival Backup Management, *33*
Remote Agent, *3*
Reorganize objects, *7*
Replay Compare Period Report, *2*
Request performance, *4*

Copyright © 2015, 2025, Oracle and/or its affiliates.

Resource Management, *4*
Restricted-use License, *3*
Routing Topology, *7*, *4*, *6*
Run-time governance, *21*, *25*

S

Schedule Database Fleet Backup to Recovery Appliance, *33*
Scheduler Central, *4*
Schema and Data Comparisons, *12*, *43*
Schema and Data Synchronization, *12*, *43*
Schema Change Plans, *12*
Schema Comparisons, *12*, *43*
Schematic, *5*
Security, *4*
Selective Tracing, *8*
Self Update, *43*, *7*
Self-service database provisioning, *2*
Self-update, *3*
Server Template Administration, *8*
Service Dashboards, *2*
Service level management, *21*, *24*, *30*, *2*, *14*, *24*, *33*
Service modeling, *3*, *2*
Service tests and beacons, *33*
Service-level objectives, *4*
Single-step discovery, *3*
Snap Clone, *2*
SOA Management Pack EE, *19*
SOA Management Pack Enterprise Edition
SOA targets, *19*
Software Library, *3*
Space and Undo Management, *4*
SQL Access Advisor, *7*
SQL Execution, *4*
SQL Profiles, *7*
SQL Tuning Advisor, *7*
Storage Plug-in, *7*
Support Workbench, *4*, *5*
Synchronization of WebLogic Server Configuration Files, *7*
System MBean Browser, *8*
System Monitoring Plug-ins for Non-Oracle Databases, *16*
System Monitoring Plug-ins for Non-Oracle Middleware, *11*

T

Template Collections, *3*, *3*, *21*, *24*, *28*, *30*, *32*, *2*, *4*, *6*, *10*, *2*, *14*, *24*
TestMaster Snapshots, *2*
third-party licensing, *A-1*
Top Activity Lite, *2*
Topology view, *29*, *7*
Topology Viewer, *5*, *6*
Trace in-flight transactions, *4*, *11*

U

Upgrade existing Oracle Grid Infrastructure, *10*
Upgrade Planner, *4*
User Defined Deployment Procedures (UDDP), *11*, *6*, *2*, *11*, *17*
User Monitoring, *14*
User, Role and Credentials Management, *3*

V

vCPU Utilization Tracking, *3*

W

WebLogic Cluster Administration, *8*
WebLogic Domain Administration, *8*
WebLogic Server Administration, *8*
WebLogic Server Management Pack EE, *1*
WebLogic Server Management Pack Enterprise Edition provisioning, *5*
WLST Script job, *5*
Workflow process and policy monitoring, *3*
Workspace management, *4*

Z

Zero Data Loss Recovery Appliance Management Pack, *32*

Copyright © 2015, 2025, Oracle and/or its affiliates.