

Planning for Oracle® Java CAPS 6.3 Installation

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Planning for Java CAPS 6.3 Installation

The topics listed here provide information that you should be aware of before installing the Oracle Java Composite Application Platform Suite (Java CAPS).

What You Need to Know Before Installing

- [“Java CAPS 6.3 Installed Components” on page 5](#)
- [“Java CAPS 6.3 Supported Operating Systems” on page 7](#)
- [“Java CAPS 6.3 Components and Supported External Systems” on page 12](#)
- [“Java CAPS 6.3 System Requirements” on page 21](#)
- [“Before You Install” on page 24](#)
- [“About the Installation” on page 24](#)
- [“Installation Media” on page 31](#)
- [“Preparing for Installation” on page 36](#)
- [“Troubleshooting the Java CAPS Installation” on page 37](#)
- [“UNIX and Linux Patches” on page 40](#)

Java CAPS 6.3 Installed Components

Beginning with Java CAPS 6, GUI and command-line installations are available for all supported operating systems. The GUI installation enables you choose a complete or a custom installation and the command-line installation enables you to either set what you want to install in a properties file that is called from a script or to run an interactive installation where you answer system installation questions.

A complete installation includes the following components. For a complete list of what is installed automatically, see [“Overview of the Installation Process” on page 25](#).

- GlassFish Enterprise Server 2.1.1 Patch 9
 - A Java Enterprise Edition (Java EE) 5 compatible platform for developing and delivering server side Java applications and web services. It enables you to deploy and monitor Java Business Integration (JBI) based projects.

- NetBeans IDE 6.9

An integrated development environment (IDE) for writing, testing, and debugging secure service-oriented architecture (SOA) applications using XML, BPEL, and Java web services. You use the NetBeans IDE to develop and configure Java CAPS applications.
- Java CAPS Repository

A NetBeans IDE Update Center host and a distributed version control system for non-JBI based Java CAPS projects and objects.
- Enterprise Service Bus API Kit, which includes
 - Java CAPS Management API
 - STCMS API
- Oracle JMS IQ Manager

An Oracle JMS IQ Manager that is required to run non-JBI based Projects.
- UDDI Server

Businesses use Universal Description, Discovery, and Integration (UDDI), an XML-based registry, to list themselves on the Internet. Similar in function to a telephone book, this registry enables companies to engage in e-commerce on the web.
- Enterprise Manager

A web-based application used to deploy and monitor Java CAPS runtime components and monitor alerts.
- Java CAPS Uploader
- A default domain, which holds the runtime environment that contains the software and other installed components that are required at run time, including the following:
 - GlassFish, which provides middleware services for security and state maintenance, data access and persistence, and transactions.
 - The System Management Service, which manages and monitors Java CAPS deployments.
 - The Oracle JMS IQ Manager, which provides JMS messaging.

Although the domain installation also includes the components necessary for basic communication between the Java CAPS system and files, communications with databases and other products require that you add on components.
- Core components, such as the Enterprise Service Bus (formerly eGate Integrator) and Business Process Manager (formerly eInsight)
- Add-on components, such as Java CAPS Adapters (formerly eWays)
- JBI components

Java CAPS 6.3 Supported Operating Systems

This topic lists the supported operating system requirements for each platform. The requirements listed in this topic are in addition to the supported system requirements.

The supported operating systems are divided into two categories:

- [“Supported Design-Time Platforms” on page 7](#)
- [“Supported Runtime Platforms” on page 8](#)

Supported Design-Time Platforms

The Oracle Java CAPS design-time tools are available on the following operating systems:

Operating System	English	Japanese	Korean	Chinese (Traditional)	Chinese (Simplified)
Solaris 10 SPARC Update 4 or later	Yes	Yes	Yes	Yes	Yes
Solaris 9 SPARC Update 9 or later	Yes				
Solaris 10 x64 Update 4 or later (64 bit)	Yes				
Solaris 10 x86 Update 4 or later (32 bit)	Yes				
Microsoft Windows 7	Yes				
Microsoft Windows XP Professional SP3 (32 bit)	Yes	Yes	Yes	Yes	Yes
Microsoft Windows Server 2008 R2 SP1 and later (32 bit)	Yes	Yes	Yes	Yes	Yes
Microsoft Windows Server 2008 R2 SP1 and later (64 bit)	Yes	Yes	Yes	Yes	Yes
Microsoft Windows Server 2003 R2 SP2 (32 bit)	Yes	Yes	Yes	Yes	Yes
Microsoft Windows Server 2003 SP2 (32 bit)	Yes	Yes	Yes	Yes	Yes
Red Hat Enterprise Linux Server 5 UL3 and later – basic Server and Advanced Platform (32 bit)	Yes				
Red Hat Enterprise Linux Server 5 UL3 and later – basic Server and Advanced Platform (64 bit)	Yes				

Operating System	English	Japanese	Korean	Chinese (Traditional)	Chinese (Simplified)
Red Hat Enterprise Linux AS 4 (32 bit)	Yes				
Oracle Enterprise Linux 5 UL3 and later (64 bit)	Yes				
Oracle Enterprise Linux 5 UL3 and later (32 bit)	Yes				
Oracle Enterprise Linux 4 UL7 and later (32 bit)	Yes				

Supported Runtime Platforms

The Oracle Java CAPS runtime is available on the following operating systems:

Operating System	English	Japanese	Korean	Chinese (Traditional)	Chinese (Simplified)
Solaris 10 SPARC Update 4 or later (OS: 64 bit; JVM: 64 bit)	Yes	Yes	Yes	Yes	Yes
Solaris 10 SPARC Update 4 or later (OS: 64 bit JVM: 32 bit)	Yes	Yes	Yes	Yes	Yes
Solaris 10 x86 (OS: 32 bit; JVM: 32 bit)	Yes	Yes	Yes	Yes	Yes
Solaris 10 x64 Update 4 (OS: 64 bit; JVM: 32 bit)	Yes	Yes	Yes	Yes	Yes
Solaris 10 x64 Update 4 (OS: 64 bit; JVM: 64 bit)	Yes	Yes	Yes	Yes	Yes
Solaris 9 SPARC Update 9 or later (OS: 64; JVM: 64 bit)	Yes	Yes	Yes		Yes
Solaris 9 SPARC Update 9 or later (OS: 64; JVM: 32 bit)	Yes	Yes	Yes		Yes
HP-UX 11i v2 (11.23) (OS: 64 bit; JVM: 32 bit)	Yes				
HP-UX 11i v3 (11.31) (OS: 64 bit; JVM: 32 bit)	Yes				
IBM AIX 5.3 TL9 (OS: 64 bit; JVM: 32 bit)	Yes	Yes	Yes		

Operating System	English	Japanese	Korean	Chinese (Traditional)	Chinese (Simplified)
IBM AIX 6.1 (TL2 or later) (OS: 64 bit; JVM: 32 bit)	Yes				
IBM AIX 6.1 (TL2 or later) (OS: 64 bit; JVM: 64 bit)	Yes				
Microsoft Windows 7 (OS: 32 bit; JVM: 32 bit)	Yes				
Microsoft Windows XP Professional SP3 (OS: 32 bit; JVM: 32 bit)	Yes	Yes	Yes	Yes	Yes
Microsoft Windows Server 2008 R2 SP1 and later (OS: 32 bit; JVM: 32 bit)	Yes	Yes	Yes	Yes	Yes
Microsoft Windows Server 2008 R2 SP1 and later (OS: 64 bit; JVM: 32 bit)	Yes	Yes	Yes	Yes	Yes
Microsoft Windows Server 2008 R2 SP1 and later (OS: 64 bit; JVM: 64 bit)	Yes	Yes	Yes	Yes	Yes
Microsoft Windows Server 2003 SP2 (OS: 32 bit; JVM: 32 bit)	Yes	Yes	Yes	Yes	Yes
Microsoft Windows Server 2003 R2 SP2 (OS: 32 bit; JVM: 32 bit)	Yes	Yes	Yes	Yes	Yes
Red Hat Enterprise Linux Server 5 UL3 – basic Server and Advanced Platform (OS: 64 bit; JVM: 64 bit)	Yes	Yes	Yes	Yes	Yes
Red Hat Enterprise Linux Server 5 UL3 – basic Server and Advanced Platform (OS: 32 bit; JVM: 32 bit)	Yes	Yes	Yes	Yes	Yes
Red Hat Enterprise Linux AS 4 UL7 and later (OS: 32 bit; JVM: 32 bit)	Yes	Yes	Yes	Yes	Yes
Oracle Enterprise Linux 5 UL3 and later (OS: 64 bit; JVM: 64 bit)	Yes				
Oracle Enterprise Linux 5 UL3 and later (OS: 32 bit; JVM: 32 bit)	Yes				
Oracle Enterprise Linux 4 UL7 and later (OS: 32 bit; JVM: 32 bit)	Yes				

Operating System	English	Japanese	Korean	Chinese (Traditional)	Chinese (Simplified)
SUSE Linux Enterprise Server 10 SP1 or later (OS: 64 bit; JVM: 64 bit)	Yes	Yes	Yes		Yes
SUSE Linux Enterprise Server 10 SP1 or later (OS: 32 bit; JVM: 32 bit)	Yes	Yes	Yes		Yes
SUSE Linux Enterprise Server 11 (OS: 64 bit; JVM: 64 bit)	Yes				
SUSE Linux Enterprise Server 11 (OS: 32 bit; JVM: 32 bit)	Yes				

Note –

- Where applicable, adapters for external systems are supported on the above platforms if that platform is supported by the external system vendor.
- Oracle Java CAPS JMS IQ Manager (STCMS) and Oracle Java CAPS ESB API Kit are supported on a subset of these platforms. Please contact your Oracle account representative for more information.
- Java CAPS is certified on Oracle Enterprise Linux with both Unbreakable Enterprise Kernel and Red Hat Compatible Kernel.
- Windows 2008 R2 (64-bit OS and 64-bit JVM) is not supported on the cluster profile.
- Support for HP-UX is limited in that it cannot be installed on a cluster, it runs on a 32-bit JVM only, and there are no C interfaces for MQ.
- Windows 7 is supported for a single user in a development environment.

Java CAPS 6.3 Supported JDK Versions

The following lists the supported JDK versions for each platform.

Operating System	JDK Versions
Solaris	Oracle JDK 1.6.0_20 and later releases of 1.6.0
HP-UX	HP JDK 6.0.07 and later releases of 6.0
IBM AIX	IBM JDK 1.6.0 SR8 and later service releases
Linux (Red Hat and SUSE)	Oracle JDK 1.6.0_20 and later releases of 1.6.0

Operating System	JDK Versions
Microsoft Windows	Oracle JDK 1.6.0_20 and later releases of 1.6.0

Interoperability With Oracle Products

Interoperability testing has been completed between Java CAPS 6.3 and other Oracle applications, notably Java Enterprise System (Java ES), WebLogic, and Fusion Middleware. The table below indicates the tested versions.

Interoperability with Oracle Products

You can use Java CAPS with the following products from Oracle. For some examples of how the products can be used together, see [the Java CAPS samples site](#).

Product	Supported Versions	Versions Out of Scope
Oracle Internet Directory	11g (11.1.1.4.0)	
Oracle Virtual Directory	11g (11.1.1.4.0)	
Oracle Access Manager	10g (10.1.4.3.0)	
Oracle SOA Suite	11g (11.1.1.4.0) 10g (10.1.3.5.0)	
Oracle Service Bus	11g (11.1.1.4.0) 10g (10.1.3.5.0)	
Oracle Web Services Manager (username token policy)	11g (11.1.1.4.0)	
WebLogic Server JMS	11g (11.1.1.4.0)	
Oracle Advanced Queueing	11g (11.1.1.4.0)	

Interoperability with Java Enterprise System

Java CAPS 6.3 can be used with the following Java Enterprise System products:

Product	Supported Versions	Versions Out of Scope
NetBeans	NetBeans 6.9	

Product	Supported Versions	Versions Out of Scope
GlassFish Enterprise Server	GlassFish Enterprise Server 2.1.1 Patch 9	
Java System Directory Server	Java System Directory Server Enterprise Edition 6.3.1 Oracle Directory Server Enterprise Edition 11.1.1.3	
Java System Message Queue	Java System Message Queue 4.3	
Java System Web Server	Java System Web Server 7.0 Update 6	
GlassFish Web Space Server	GlassFish Web Space Server 10.0.6	
OpenSSO Enterprise	OpenSSO Enterprise 8.0 Update 1	
Java System Access Manager	Java System Access Manager 8.0	Java System Access Manager 7.1 and earlier
Sun Identity Manager		
Java Portal server	Java Portal Server 7.2 Java Portal Server 7.1 Update 2	Java Port Server 7.1 Update 1 and earlier

Java CAPS 6.3 Components and Supported External Systems

The following tables list each Java CAPS component along with the external systems they support. All components are supported on the same operating systems as Java CAPS (see [“Java CAPS 6.3 Supported Operating Systems”](#) on page 7).

TABLE 1 Java CAPS Classic Core Components and Supported External Systems

Product Name	Supported External Systems
Oracle Java CAPS Enterprise Service Bus (LDAP user management)	Oracle Directory Server Enterprise Edition 5.1, 5.2, and 6.3 (previously Sun Java System Directory Server) Oracle Internet Directory 11.1.1.3 Oracle Virtual Directory 11.1.1.3 Oracle Directory Server Enterprise Edition 11.1.1.3 Microsoft Windows Server 2003, 2008 Active Directory Open LDAP 2.4.11

TABLE 1 Java CAPS Classic Core Components and Supported External Systems (Continued)

Product Name	Supported External Systems
Oracle Java CAPS Business Process Manager	Oracle 11g (11.1.0.7 and 11.2.0.2) and 10g (10.2.0.1.0) DB2 UDB 9.1 and 9.7 SQL Server 2005, 2008, and 2008 R2 Sybase 12.5 and 15 Note – For SQL Server, Windows 7 and Windows Server 2008 R2 require SQL Server 2008 SP1.
Oracle Java CAPS Composite Page Designer	NA
Oracle Java CAPS Master Index	Oracle 11g (11.1.0.7 and 11.2.0.2) and 10g (10.2.0.4) SQL Server 2005, 2008 and 2008 R2 Note – For SQL Server, Windows 7 and Windows Server 2008 R2 require SQL Server 2008 SP1.
Oracle Java CAPS Master Patient Index	Oracle 11g, 10g (10.2.0.1.0), and 9i SQL Server 2005, 2008 and 2008 R2 Note – For SQL Server, Windows 7 and Windows Server 2008 R2 require SQL Server 2008 SP1.
JMS Grid	WebLogic 9.2 WebLogic 10 WebSphere 6.1 WebSphere 7.0.1.3 Oracle Advance Queue 11.1.1.3 JBOSS 4.2

TABLE 2 Java CAPS Classic Application Adapters and Supported External Systems

Product Name	Supported External Systems
Oracle Java CAPS COBOL Copybook Converter	
Oracle Java CAPS Adapter for Oracle Applications	Oracle E-Business Suite v11.5 Oracle E-Business Suite v12.1
Oracle Java CAPS Adapter for PeopleSoft	PeopleSoft 8, 8.4, and 9 with People Tools 8.13, 8.42, and 8.4.8 Note – Only HTTP communication is supported with PeopleTools 8.13.

TABLE 2 Java CAPS Classic Application Adapters and Supported External Systems *(Continued)*

Product Name	Supported External Systems
Oracle Java CAPS Adapter for SAP ALE	SAP R/3 4.6C Non-Unicode, ECC 5.0 Non-Unicode, ECC 5.0 Unicode, ECC 6.0 Non-Unicode, ECC 6.0 Unicode, JCo 3 SAP R/3 4.6C, 4.6D, and 4.7 for Japanese and Korean
Oracle Java CAPS Adapter for SAP BAPI	SAP R/3 4.6C Non-Unicode, ECC 5.0 Non-Unicode, ECC 5.0 Unicode, ECC 6.0 Non-Unicode, ECC 6.0 Unicode, JCo 3 SAP R/3 4.6C, 4.6D, and 4.7 for Japanese
Oracle Java CAPS Adapter for Siebel EAI	Siebel version 7, 7.5.3 (OTD), 7.7, and 8.0
Oracle Java CAPS Adapter for Lotus Notes Domino	Lotus Notes Domino 6.0, 6.5, and 7.0
Oracle Java CAPS Adapter for SWIFT Alliance Access	SWIFT Alliance Access (SAA) 6.0 and 6.1
Oracle Java CAPS Adapter for SWIFT Alliance Gateway	Swift 6.0 and 6.1, certified for 2006, 2007, 2008, 2009, and 2010 Supported platforms include Windows XP, Solaris 10 (SPARC), AIX 5.3

TABLE 3 Java CAPS Classic Database Adapters and Supported External Systems

Product Name	Supported External Systems
Oracle Java CAPS Adapter for Oracle	Oracle 9.2.0 Oracle 10g (10.2.0.4) Oracle 11g (11.1.0.7 and 11.2.0.2)
Oracle Java CAPS Adapter for DB2 Universal Database	DB2 UDB 9.1, 9.5 and 9.7 on Windows and UNIX DB2 V5R2 and V5R3 on AS400 DB2 9.1 on z/OS
Oracle Java CAPS Adapter for DB2 Connect	DB2 Connect 9.1
Oracle Java CAPS Adapter for SQL Server	Microsoft SQL Server 7 Microsoft SQL Server 2000 Microsoft SQL Server 2005, 2008, and 2008 R2 Note – For SQL Server, Windows 7 and Windows Server 2008 R2 require SQL Server 2008 SP1.

TABLE 3 Java CAPS Classic Database Adapters and Supported External Systems *(Continued)*

Product Name	Supported External Systems
Oracle Java CAPS Adapter for JDBC/ODBC	Type 2, Type 3, and Type 4 drivers Oracle 10g R2 Java DB 104.2.1 MySQL Enterprise Server 5.1.32 PostgreSQL 8.2 SQL Server 2005, 2008, and 2008 R2 Note – For SQL Server, Windows 7 and Windows Server 2008 R2 require SQL Server 2008 SP1. For limitations, see “ Additional Information for the JDBC/ODBC Adapter and Database Binding Component ” on page 21.
Oracle Java CAPS Adapter for Informix	Informix V10 and V11
Oracle Java CAPS Adapter for Sybase	Sybase Adaptive Enterprise Server 11.9, 12.5, and 15
Oracle Java CAPS Adapter for VSAM	WebSphere-II-Classic Federation 8.2 driver

TABLE 4 Java CAPS Classic Communication Adapters and Supported External Systems

Product Name	Supported External Systems
Oracle Java CAPS Adapter for COM/DCOM	n/a
Oracle Java CAPS Adapter for Batch/FTP	n/a
Oracle Java CAPS Adapter for File	n/a
Oracle Java CAPS Adapter for e-Mail	Windows 2003 Email server (that comes with IIS), and Sendmail that comes with Solaris 10 Supported protocols are SMTP, POP3, and MIME

TABLE 4 Java CAPS Classic Communication Adapters and Supported External Systems *(Continued)*

Product Name	Supported External Systems
Oracle Java CAPS Adapter for LDAP	Oracle Directory Server Enterprise Edition 6.3 (previously Sun Java System Directory Server) Oracle Directory Server Enterprise Edition 11.1.1.3 Microsoft Windows Server 2003, 2008 Active Directory Open LDAP 2.4.11 Oracle Internet Directory 11.1.1.3 Oracle Virtual Directory 11.1.1.3
Oracle Java CAPS Adapter for MSMQ	Windows XP, Windows 2003 Server Supports Microsoft MSMQ version 3.0
Oracle Java CAPS Adapter for HTTPS	SOAP Version 1.2 Supports SSL 2.0 and 3.0, TLS 1.0 OpenSSO Enterprise 8.0 Patch 2 and its corresponding Web Services Security (WSS) Agent
Oracle Java CAPS Adapter for SNA	n/a
Oracle Java CAPS Adapter for TCP/IP HL7	HL7 Standard versions 2.1, 2.2, 2.3, 2.3.1, 2.4, 2.5, 2.5.1, 2.6, and V3
Oracle Java CAPS Adapter for TCP/IP	n/a

TABLE 5 Java CAPS Classic Web Server Adapters and Supported External Systems

Product Name	Supported External Systems
Oracle Java CAPS Adapter for Sun Java System Application Server	Sun Java System Application Server 8.1 and 9.1
Oracle Java CAPS Adapter for WebSphere MQ	WebSphere 5.3 and 6.0 WebSphere MQ 7.0.1.2 with fix APAR IC68653 WebSphere MQ 7.0.1.3
Oracle Java CAPS Adapter for WebLogic	WebLogic 8.1 9.2, and 10

TABLE 6 Java CAPS Classic Mainframe Adapters and Supported External Systems

Product Name	Supported External Systems
Oracle Java CAPS Adapter for CICS	CICS version 3.1, can use IBM CICS Transaction Gateway (versions 5.1, 6.0, 6.0.1, and 6.1) or Oracle Java CAPS CICSListener to access transactions
Oracle Java CAPS Adapter for IMS	WebSphere-II-Classic Federation 8.2 driver, IMS Connect 9.1
Oracle Java CAPS Adapter for ADABAS	WebSphere-II-Classic Federation 8.2 driver
Oracle Java CAPS Adapter for ADABAS Natural	

TABLE 7 Java CAPS Classic Message Libraries and Supported External Systems

Product Name	Supported External Systems
Oracle Java CAPS Message Library for HL7	Supports HL7 Standard versions 2.1, 2.2, 2.3, 2.3.1, 2.4, 2.5, 2.5.1, and V3
Oracle Java CAPS Message Library for SWIFT	ISO 15022 FIN messages for SWIFT 2007, 2008, 2009, and 2010 Standard
Oracle Java CAPS Message Library for ASC X12	ASC X12 versions 4010, 4011, 4012, 4020, 4021, 4022, 4030, 4031, 4032, 4040, 4041, 4042, 4050, 4051, 4052, 4060, 4061, 5010, and 5020; SEF Wizard supports SEF 1.5 and 1.6
Oracle Java CAPS Message Library for HIPAA	HIPAA 2000 Standard, 2000 Addenda, HIPAA 2005; SEF Wizard supports SEF 1.5 and 1.6
Oracle Java CAPS Message Library for EDIFACT	UN/EDIFACT versions 3 and 4, Directories D.00A, D.00B, D.01A, D.03A, D.95A, D.95B, D.96A, D.96B, D.97A, D.97B, D.98A, D.98B, D.99A, D.99B

TABLE 8 Java CAPS Classic Add-ons and Supported External Systems

Product Name	Supported External Systems
Oracle Java CAPS SNMP Agent	SNMP v2, SNMP v3
Oracle Java CAPS Alert Agent	n/a
Oracle Java CAPS Adapter Development Kit	n/a
Oracle Java CAPS Enterprise Service Bus API Kit	JMS v1.1

TABLE 9 Java CAPS JBI Service Engines and Supported External Systems

Product Name	Supported External Systems
BPEL Service Engine	BPEL 2.0 Oracle 11g (11.1.0.7 and 11.2.0.2) and 10g JavaDB (Derby) 10.4.2.1 MySQL Enterprise Server 5.1.32 Microsoft SQL Server 2008 and 2008 R2 Note – For SQL Server, Windows 7 and Windows Server 2008 R2 require SQL Server 2008 SP1.
IEP Service Engine	Oracle 11g (11.1.0.7 and 11.2.0.2) and 10g JavaDB (Derby) 10.4.2.1 MySQL Enterprise Server 5.1.32
Worklist Manager Service Engine	LDAP Windows Server 2003 and 2008 Active Directory Open DS 1.2 Oracle Internet Directory 11.1.1.3 Oracle Virtual Directory 11.1.1.3 Database Oracle 11g (11.2.0.2) and 10g JavaDB (Derby) 10.4.2.1 MySQL Enterprise Server 5.1.32
XSLT Service Engine	n/a
Java EE Service Engine	n/a

TABLE 9 Java CAPS JBI Service Engines and Supported External Systems *(Continued)*

Product Name	Supported External Systems
Oracle Java CAPS Data Integrator	<p>MySQL Enterprise Server (ES) 5.1</p> <p>PostgreSQL</p> <p>Derby</p> <p>Oracle 9i or later</p> <p>Microsoft SQL Server 7 or later</p> <p>Sybase</p> <p>DB2 8.1 or later</p> <p>Axion, and other</p> <p>Additional databases, such as Access and FoxBase, through the JDBC driver</p> <p>Also supports these data sources: spreadsheets, HTML or web tables, RSS/ATOM feeds, and flat files</p>

TABLE 10 Java CAPS JBI Binding Components and Supported External Systems

Product Name	Supported External Systems
Database Binding Component	<p>Oracle 11g (11.1.0.7 and 11.2.02) and 10g</p> <p>DB2 UDB 9.1 and 9.7</p> <p>Java DB (Derby) 10.4.2.1</p> <p>MySQL Enterprise Server 5.1.32</p> <p>Microsoft SQL Server 2005 with SP2, 2008, and 2008 R2</p> <p>Sybase 15</p> <p>Note – For SQL Server, Windows 7 and Windows Server 2008 R2 require SQL Server 2008 SP1. For limitations, see “Additional Information for the JDBC/ODBC Adapter and Database Binding Component” on page 21.</p>
Email Binding Component	Support the following protocols: POP3, IMAP, and SMTP
File Binding Component	n/a
FTP Binding Component	n/a
HL7 Binding Component	
HTTP Binding Component	n/a
JMS Binding Component	JMQ 4.4 Update 2, WebLogic 9.2, WebLogic 10, WebSphere 6.1, WebSphere 7.0.1.3, Oracle Advanced Queue 11.1.1.3, JBOSS 4.2

TABLE 10 Java CAPS JBI Binding Components and Supported External Systems *(Continued)*

Product Name	Supported External Systems
LDAP Binding Component	<p>Oracle Directory Server Enterprise Edition 6.3 (previously Sun Java System Directory Server)</p> <p>Oracle Directory Server Enterprise Edition 11.1.1.3</p> <p>Microsoft Windows Server 2003 and 2008 Active Directory</p> <p>OpenDS 1.2</p> <p>Open LDAP 2.4.11</p> <p>Oracle Internet Directory 11.1.1.3</p> <p>Oracle Virtual Directory 11.1.1.3</p>

TABLE 11 Java CAPS Java EE Components and Supported External Systems

Product Name	Supported External Systems
Oracle Java CAPS Master Index	<p>Oracle 11g (11.1.0.7 and 11.2.0.2) and 10g</p> <p>MySQL Enterprise Server 5.1.32</p> <p>SQL Server 2005, 2008 and 2008 R2</p> <p>Note – For SQL Server, Windows 7 and Windows Server 2008 R2 require SQL Server 2008 SP1.</p>
TCP/IP JCA Adapter	n/a
JDBC JCA Adapter	<p>DB2 8.2 on AS400</p> <p>Microsoft SQL Server 2005</p> <p>Oracle 10g R2</p> <p>MySQL ES 5.0.27</p> <p>Java DB (Derby) 10.2.1.7</p> <p>PostgreSQL 8.2</p>
File JCA Adapter	n/a
Batch JCA Adapter	n/a
Oracle JCA Adapter	
HL7 JCA Adapter	HL7 Standard versions 2.1, 2.2, 2.3, 2.3.1, 2.4, 2.5, and 2.5.1

Additional Information for the JDBC/ODBC Adapter and Database Binding Component

The JDBC/ODBC Adapter and Database Binding Component support access to databases using JDBC drivers that meet the following requirements:

- The driver must be thread-safe.
- The driver must implement standard JDBC transaction calls, such as `setAutoCommit` and `setTransactionIsolation`, when used in transactional aware environments.

The following restrictions apply to JDBC drivers:

- JDBC drivers that do not implement serializable or remote interfaces cannot pass objects to an RMI client application.
- Automatic database connection failover and load balancing with global transactions (XA) in a highly-available (HA) DBMS architecture are supported with Oracle RAC only, and are not supported with other HA DBMS technologies.

For Microsoft SQL Server 2005, use the class `com.microsoft.sqlserver.jdbc.SQLServerDriver`. For Oracle databases, make sure you are using the most current version 10g drivers for both Oracle 9i and 10g.

Java CAPS 6.3 System Requirements

Your system configuration depends upon which systems you use and how you intend to use Java CAPS. The requirements listed in this topic are in addition to the supported operating system requirements.

Mozilla Firefox Version

Java CAPS supports Mozilla Firefox v. 2.0 and later for accessing all Java CAPS browser components.

Internet Explorer Version

Java CAPS supports Internet Explorer 7.0 and Internet Explorer 8 for accessing all Java CAPS browser components.

Repository and Domain Firewall Port Requirements

When you have a firewall in place between a Repository Server and a domain, selected ports must be open in order for monitoring to function properly.

- For Repository ports, ensure that the following monitor-side ports are open:
 - Base port +4 (RMI Connector)

- Base port +5 (HTTP Connector)

For example, if the default port is 12000, the RMI Connector port would be 12004 and the HTTP Connector port would be 12005.

- For domain ports, ensure that the following domain-side ports are open:
 - Base port +0 (HTTP Connector)
 - Base port +1 (RMI)
 - Base port +2

For example, if the default port is 18000, the HTTP Connector port would be 18000, the RMI port would be 18001.

Java CAPS Installation Requirements

To install Java CAPS you need:

- For the installation executable file: 800+ MB
- For a complete Java CAPS installation
 - Oracle Solaris: 3.25 GB
 - HP-UX:
 - IBM AIX: 1.75 GB (does not include NetBeans IDE)
 - Microsoft Windows: 1.65 GB
 - Red Hat and SUSE Linux: 1.65 GB

Windows System Requirements

The following table lists the minimum requirements for installing and running each of the Java CAPS components on a Windows system. The RAM and disk space requirements do not take into consideration the RAM and disk space required by the operating system. For the best performance, you should install these components on different systems. However, if you choose to install some or all of these components on the same machine (for example, in a test environment), keep in mind that the requirements for each additional component are cumulative.

TABLE 12 Windows System Requirements

Component	CPU	RAM
Repository	1.2 GHz	240 MB
Enterprise Manager	1.2 GHz	400 MB

Note –

- For GlassFish Enterprise Server requirements, see the [Sun GlassFish Enterprise Server v2.1.1 Release Notes](#).
- For NetBeans IDE requirements, see the [Release Notes for NetBeans 6.9.1](#).

Additionally, to use the Oracle Java CAPS Enterprise Service Bus on Windows, you need the following:

- A TCP/IP network connection
- Internet Explorer 7.0, Internet Explorer 8, or Mozilla Firefox 2.0 or later

Additional Windows Considerations

- The disk space requirement listed for the Domain does not include space for the queues and log files that are created by the user as integration and message services are executed.
- The Oracle Java CAPS Enterprise Service Bus GUI is supported when using Microsoft Terminal Services®, but not with other remote Windows tools.

UNIX and Linux System Requirements

The following tables list the minimum requirements for installing the Repository and Domain on various UNIX and Linux systems. The RAM and disk space requirements do not take into consideration the RAM and disk space required by the operating system. For the best performance, you should install these components on different systems. However, if you choose to install these components on the same machine (for example, in a test environment), keep in mind that the requirements for each additional component are cumulative.

Dual (or multi) CPUs are recommended for best performance of the Domain, especially if you run the Repository and the Domain on the same system.

TABLE 13 UNIX and Linux System Requirements

Platform	Component	CPU	RAM
IBM AIX	Repository	450 MHz	180 MB
	Enterprise Manager	450 MHz	400 MB
Linux (Red Hat and SUSE)	Repository	1.2 GHz	240 MB
	Enterprise Manager	1.2 GHz	400 MB
Oracle Solaris	Repository	400 MHz	240 MB
	Enterprise Manager	400 MHz	400 MB

Note –

- For GlassFish Enterprise Server requirements, see the [Sun GlassFish Enterprise Server v2.1.1 Release Notes](#).
 - For NetBeans IDE requirements, see the [Release Notes for NetBeans 6.9.1](#).
-

Additionally, to use the Enterprise Service Bus on UNIX, you need:

- A TCP/IP network connection
- FTP and Telnet capabilities
- Mozilla Firefox 2.0 or above

Additional UNIX Considerations

The disk space requirement listed for the Domain does not include space for the queues and log files that are created by the user as Integration and Message Services are executed.

Before You Install

The following topics explain issues to consider before you begin your Java CAPS installation.

Windows Pre-Installation

Exit from all Windows programs prior to running the setup.

Default User Names and Passwords

Beginning with Java CAPS 6.3, default passwords are no longer provided for the GlassFish server administrator user. You can specify the administrator and master passwords when you install Java CAPS. The default user names and passwords for Enterprise Manager and the Suite Uploader are still the same (**STC/Administrator** and **admin/adminadmin**).

You can save the master password to a file after installation so you do not need to specify it each time you start the GlassFish server. The installation guide provide instructions for doing this.

About the Installation

This topic provides an overview of the installation process along with a list of what Java CAPS product names were in the past and what they are now. It also provides the location of the product SAR files on the DVDs.

The installation process is different from installations of Java CAPS prior to Release 6, and with this release you can perform a complete or custom installation on any supported platform. You

can also perform the installation from a graphical user interface (GUI) or a command-line interface (CLI), with the exception of installing on Macintosh systems which only support the GUI installation.



Caution – Java CAPS 6.3 does not support spaces in the installation directory path.

The flexible installation of Java CAPS enables you to:

- Install more than one Domain on a single system.
- Manage multiple Projects on a single environment. The separation of design from deployment makes it possible to use the same components in more than one Project.
- Centralize your software distribution.
 - After uploading software into packages, Administrators select which physical server or groups of physical servers receive the software.
 - HTTP connections are used to upload and download the software to and from the Repository.

See the following topics for additional installation information:

- [“Overview of the Installation Process” on page 25](#)
- [“Overview of the Graphical User Interface Installation Process” on page 27](#)
- [“Overview of the Command-Line Interface Installation Process” on page 27](#)
- [“Java CAPS Component Names” on page 28](#)
- [“Repository Names and User Names” on page 30](#)
- [“Environment Names” on page 30](#)

Overview of the Installation Process

The installation stores and manages the setup, component, and configuration information for Java CAPS Projects. All JBI-based Java Caps components are installed in the initial installation, but not all repository-based components are installed. After the initial installation, you can install additional Repository-based products, such as Oracle Java CAPS Master Index, the Adapter for TCP/IP HL7, and so on. Use the Java CAPS Uploader to upload and install additional components that are not automatically installed. Once you upload an additional product, you need to use the NetBeans Update Center to complete the installation.

The Java CAPS Installer, run from the command line interface (CLI) or the GUI, will install the following. You can customize the Java CAPS installation.

- Java CAPS Repository Server
- NetBeans IDE 6.9.1, with all JBI-based Java CAPS components packaged with the initial installation. This includes the following:
 - Service Engines
 - BPEL Service Engine
 - Data Integrator Service Engine
 - Intelligent Event Processor (IEP) Service Engine
 - Java EE Service Engine
 - POJO Service Engine
 - Worklist Manager (WLM) Service Engine
 - XSLT Service Engine
 - Binding Components
 - Database Binding Component
 - Email Binding Component
 - File Binding Component
 - FTP Binding Component
 - HL7 Binding Component
 - HTTP Binding Component
 - JMS Binding Component
 - LDAP Binding Component
 - REST Binding Component
 - Scheduler Binding Component
 - COBOL Copybook Encoder
- GlassFish Enterprise Server 2.1.1, Patch 9, including
 - JMS IQ Manager
 - UDDI Server
- Enterprise Manager
- One default domain (domain1)
- Java CAPS core products.
 - Oracle Java CAPS Enterprise Service Bus
 - Oracle Java CAPS Business Process Manager
 - Oracle Java CAPS Composite Page Designer
- Oracle Java CAPS Adapters, which enable communication with specific external systems or OTD libraries.
 - Oracle Java CAPS Adapter for Batch/FTP
 - Oracle Java CAPS Adapter for DB2 Connect
 - Oracle Java CAPS Adapter for e-Mail

- Oracle Java CAPS Adapter for File
- Oracle Java CAPS Adapter for HTTPS
- Oracle Java CAPS Adapter for JDBC/ODBC
- Oracle Java CAPS Adapter for Oracle
- Oracle Java CAPS Adapter for SQL Server
- Oracle Java CAPS Adapter for Sybase

Overview of the Graphical User Interface Installation Process

You can download the executable file for the Java CAPS Installer from Oracle downloads or the DVDs from the Media Kit to install Java CAPS. The graphical user interface Java CAPS Installer provides a standard setup wizard where you can specify details about the Java CAPS installation, including the following:

- Java Software Development Kit (JDK) directory
- Installation location
- Repository name and port numbers
- Enterprise Manager
- Whether to install repository components into NetBeans
- Whether to install support for Oracle Advanced Queueing
- Whether to install support for Oracle WebLogic JMS
- Login credentials and secure port numbers

You can also choose to perform a custom installation or a complete installation. A complete installation is recommended. Once you have completed the initial installation, you can install additional products using the Java CAPS Uploader and the NetBeans Update Center.

Overview of the Command-Line Interface Installation Process

The command-line installation provides three different installation options. You can perform a silent installation in which you run a command and do not interact with the installer. This type of installation relies on a properties file that provides the necessary information to the installer, such as installation locations, JDK location, port numbers and so on. The installation process runs in the background and you do not see the progress.

You can also perform a text console installation. In this case, you interact with a text console to provide information about the installation. With the text console, you are prompted to provide the same information as is provided in the GUI (listed above), but the installer is text-based instead of graphical.

Finally, you can launch the GUI Java CAPS Installer from the command line, which uses the setup wizard to guide you through the installation.

If you install Java CAPS using the CLI, you can customize which of the default components are installed. If you decide to add components to your installation at a later time, you need to use the Java CAPS Uploader and the NetBeans Update Center to do so. There is no command-line installer for adding components to an existing installation

For the command-line installations to function correctly you must first download the ISO images from Oracle downloads to your installation directory. With these files you can install any or all of the default Java CAPS components:

Java CAPS Component Names

With Release 6, the Java CAPS Repository-based components underwent a name change. The SAR files have not been changed to match the new component names. [Table 14](#) provides Release 5.1.3 component names and what they have changed to for Release 6.

TABLE 14 Component Name Comparison

Release 5.1.3 Component Names	Release 6 Component Names
eGate Integrator	Oracle Java CAPS Enterprise Service Bus
eInsight Business Process Manager	Oracle Java CAPS Business Process Manager
eVision Studio	Oracle Java CAPS Composite Page Designer
eTL Integrator	Oracle Java CAPS Data Integrator
eView Studio	Oracle Java CAPS Master Index
eIndex Single Patient View	Oracle Java CAPS Master Patient Index
Java Message Grid	Oracle Java CAPS Java Message Service Grid
eWay Adapter for SAP ALE	Oracle Java CAPS Adapter for SAP ALE
eWay Adapter for SAP BAPI	Oracle Java CAPS Adapter for SAP BAPI
eWay Adapter for Oracle Applications	Oracle Java CAPS Adapter for Oracle Applications
eWay Adapter for SWIFT Alliance Gateway	Oracle Java CAPS Adapter for SWIFT Alliance Gateway
eWay e-Mail Adapter	Oracle Java CAPS Adapter for e-Mail
eWay TCP/IP Adapter	Oracle Java CAPS Adapter for TCP/IP
eWay LDAP Adapter	Oracle Java CAPS Adapter for LDAP
eWay COM/DCOM Adapter	Oracle Java CAPS Adapter for COM/DCOM
eWay SNA Adapter	Oracle Java CAPS Adapter for SNA

TABLE 14 Component Name Comparison (Continued)

Release 5.1.3 Component Names	Release 6 Component Names
eWay TCP/IP HL7 Adapter	Oracle Java CAPS Adapter for TCP/IP HL7
eWay Adapter for MSMQ	Oracle Java CAPS Adapter for MSMQ
eWay Adapter for Oracle	Oracle Java CAPS Adapter for Oracle
eWay Adapter for SQL Server	Oracle Java CAPS Adapter for SQL Server
eWay Adapter for DB2 Universal Database	Oracle Java CAPS Adapter for DB2 Universal Database
eWay JDBC/ODBC Adapter	Oracle Java CAPS Adapter for JDBC/ODBC
eWay Adapter for DB2 Connect	Oracle Java CAPS Adapter for DB2 Connect
eWay Adapter for Sybase	Oracle Java CAPS Adapter for Sybase
eWay Adapter for VSAM	Oracle Java CAPS Adapter for VSAM
eWay Adapter for Informix	Oracle Java CAPS Adapter for Informix
eWay Adapter for Sun Java System Application Server	Oracle Java CAPS Adapter for Sun Java System Application Server
eWay Adapter for WebLogic	Oracle Java CAPS Adapter for WebLogic
eWay Adapter for WebSphere MQ	Oracle Java CAPS Adapter for WebSphere MQ
eWay Development Kit	Oracle Java CAPS Adapter Development Kit
eWay Adapter for CICS	Oracle Java CAPS Adapter for CICS
eWay Adapter for IMS	Oracle Java CAPS Adapter for IMS
eWay File Adapter	Oracle Java CAPS Adapter for File
eWay Adapter for Siebel EAI	Oracle Java CAPS Adapter for Siebel EAI
eWay Adapter for PeopleSoft	Oracle Java CAPS Adapter for PeopleSoft
eWay Batch Adapter	Oracle Java CAPS Adapter for Batch/FTP
eWay HTTPS Adapter	Oracle Java CAPS Adapter for HTTPS
eGate API Kit	Oracle Java CAPS Enterprise Service Bus API Kit
HL7 OTD Library	Oracle Java CAPS Message Library for HL7
SWIFT OTD Library	Oracle Java CAPS Message Library for SWIFT
OTD Library for ASC X12	Oracle Java CAPS Message Library for ASC X12
OTD Library for HIPAA	Oracle Java CAPS Message Library for HIPAA

TABLE 14 Component Name Comparison (Continued)

Release 5.1.3 Component Names	Release 6 Component Names
Alert Agent	Oracle Java CAPS Alert Agent
SNMP Agent	Oracle Java CAPS SNMP Agent
COBOL Copybook Converter	Oracle Java CAPS COBOL Copybook Converter
Protocol Manager for ASC X12	Oracle Java CAPS Protocol Manager for ASC X12
Protocol Manager for HIPAA	Oracle Java CAPS Protocol Manager for HIPAA

Repository Names and User Names

The Oracle Java CAPS Enterprise Service Bus maintains its own list of Repository names and user names; it does not poll the operating system or network to obtain or validate user names or Repository names. To simplify system administration, use your current naming conventions for Repository and user names.

Repository and user names (as well as passwords) are case sensitive, even on Windows systems. Although there is no limitation on the length of the names, you should keep them a reasonable length. Valid characters include all letters and numbers, dashes, and underscores.

Note – Periods, spaces, and other punctuation are not valid characters for any Java CAPS user name, password, or component name.

The default user name for the GlassFish server is **admin**. You provide the password when you install Java CAPS. You also need to provide a master password for GlassFish during installation. The default user name for the Repository-based tools (the Java CAPS Suite Uploader and Enterprise Manager) is also **admin**; the default password is **adminadmin**.

Environment Names

After you complete a Project, you need to define an Environment and deploy the Project to the Environment. An Environment represents the logical containers that house Project components and information about external systems. A deployment Environment can include:

- Domain (an instance of the Oracle Java CAPS Enterprise Service Bus runtime environment)
 - Sun Java System Application Server (GlassFish)
 - Sun JMS IQ Manager
 - Sun Java System Message Queue
 - Unified JMS Resource Adapter
- External Systems

Environment names can contain letters, numbers, dashes, and underscores. There is no character limit. Spaces and punctuation marks are not valid characters for Project names.

Installation Media

There are two ways to install Java CAPS products:

- Use the supplied URL to download the ZIP or TAR file that contains the appropriate executable file. To obtain the appropriate file contact Java CAPS Support at <https://support.oracle.com/CSP/ui/flash.html> and they will supply you with the link and a serial number to so you can perform the download.

Note – You should have 5.0 Gbyte free disk space.

- Use the DVDs included with the Java Composite Application Platform Suite Media Kit.

Contents of the Java CAPS Installer and Components Download Files

Use the Java CAPS Installer TAR and ZIP files to perform a graphical user interface or command-line interface installation. Use the Java CAPS component ZIP files to install the adapters, add-ons, API kits, and message libraries not included with the initial installation. See “Java CAPS Component Names” on page 28 for a complete listing of Release 6 names.

Java CAPS Installer TAR and ZIP Files

The Java CAPS Installer is packaged in a compressed file (TAR or ZIP) specific to each operating system. Installation documentation is included with each TAR and ZIP file. The files are named for the platform; for example (depending on where you obtain the files):

- Java-Caps-Installer-AIX.tar
- Solaris211_ml.tar
- Windows211_ml.zip

The contents of each TAR or ZIP file is:

- \Documentation
- \Legal
- The Java CAPS installation file (for example, JavaCAPS-Linux.bin)

Java CAPS Components ZIP Files

- \adapters.zip
 - \CICSeWay.sar
 - \COMeWay.sar
 - \DB2ConnecteWay.sar
 - \eWayDevelopmentKit.sar
 - \HL7eWay.sar
 - \IMSeWay.sar
 - \InformixeWay.sar
 - \LDAPeWay.sar
 - \MFS.sar
 - \MQSerieSeWay.sar
 - \MSMQeWay.sar
 - \OracleApplicationSeWay.sar
 - \PeopleSofteWay.sar
 - \SAPALeWay.sar
 - \SAPBAPIeWay.sar
 - \SiebelEAIeWay.sar
 - \SNAeWay.sar
 - \SunJavaSystemeWay.sar
 - \SwiftAGeWay.sar
 - \TCPIPeWay.sar
 - \VSAMeWay.sar
 - \WebLogiceWay.sar
- \addons.zip
 - \master_patient_index
 - \oracle
 - \eIndex.sar
 - \sqlserver
 - \eIndex.sar
 - \MDM
 - \eTLMigrationTool.sar
 - \eView.sar
 - \solutions
 - \MDM_Solutions.zip
 - \AdapterPack.zip
 - \AlertAgent.sar
 - \CobolCopyBook.sar

- \Enterprise_Manager_SVGPlugin-win32.sar
- \SNMPAgent.sar
- \ESB_API_KIT.zip
 - \EM_API_KIT.zip
 - \STCMS_API_KIT.zip
- \message_libraries.zip
 - \EDIFACT
 - \EDIFACT_v3_D00A_OTD.sar
 - \EDIFACT_v3_D00B_OTD.sar
 - \EDIFACT_v3_D01A_OTD.sar
 - \EDIFACT_v3_D01B_OTD.sar
 - \EDIFACT_v3_D03A_OTD.sar
 - \EDIFACT_v3_D95A_OTD.sar
 - \EDIFACT_v3_D95B_OTD.sar
 - \EDIFACT_v3_D96A_OTD.sar
 - \EDIFACT_v3_D96B_OTD.sar
 - \EDIFACT_v3_D97A_OTD.sar
 - \EDIFACT_v3_D97B_OTD.sar
 - \EDIFACT_v3_D98A_OTD.sar
 - \EDIFACT_v3_D98B_OTD.sar
 - \EDIFACT_v3_D99A_OTD.sar
 - \EDIFACT_v3_D99B_OTD.sar
 - \EDIFACT_v3_SyntaxMessages_OTD.sar
 - \EDIFACT_v4_D00A_OTD.sar
 - \EDIFACT_v4_D00B_OTD.sar
 - \EDIFACT_v4_D01A_OTD.sar
 - \EDIFACT_v4_D01B_OTD.sar
 - \EDIFACT_v4_D03A_OTD.sar
 - \EDIFACT_v4_D95A_OTD.sar
 - \EDIFACT_v4_D95B_OTD.sar
 - \EDIFACT_v4_D96A_OTD.sar
 - \EDIFACT_v4_D96B_OTD.sar
 - \EDIFACT_v4_D97A_OTD.sar
 - \EDIFACT_v4_D97B_OTD.sar
 - \EDIFACT_v4_D98A_OTD.sar
 - \EDIFACT_v4_D98B_OTD.sar
 - \EDIFACT_v4_D99A_OTD.sar
 - \EDIFACT_v4_D99B_OTD.sar
 - \EDIFACT_v4_SyntaxMessages_OTD.sar
 - \HIPAA
 - \HIPAA_2000_Addenda_OTD.sar
 - \HIPAA_2000_Standard_OTD.sar

- \HIPAA_2005_OTD.sar
- \HL7
 - \HL7eWay.sar
 - \HL70TDLibrary21.sar
 - \HL70TDLibrary22.sar
 - \HL70TDLibrary23.sar
 - \HL70TDLibrary24.sar
 - \HL70TDLibrary25.sar
 - \HL70TDLibrary231.sar
 - \HL70TDLibrary251.sar
 - \HL70TDLibrary.sar
 - \HL70TDLibraryGeneric.sar
 - \HL7V32006ACCTBilling.sar
 - \HL7V32006ClaimsAndReimb.sar
 - \HL7V32006ClinicalGenomics.sar
 - \HL7V32006MedicalRecords.sar
 - \HL7V32006MsgContActInfra.sar
 - \HL7V32006PatientAdmin.sar
 - \HL7V32006PersonnelManagement.sar
 - \HL7V32006PublicHealthRepot.sar
 - \HL7V32006QueryInfra.sar
 - \HL7V32006RegulatedStudies.sar
 - \HL7V32006Schedling.sar
 - \HL7V32006SharedMessages.sar
 - \HL7V32006TransInfra.sar
- \SEF
 - \SEF_OTD_Wizard.sar
- \Swift
 - \SwiftOTDLibrary2009.sar
 - \SwiftOTDLibrary2010.sar
 - \SwiftOTDLibrary.sar
 - \samples
 - \JavaCAPS66.2_SAAMQHA.zip
 - \SAG610_FTA_Sample.zip
- \X12
 - \X12_v4010_OTD.sar
 - \X12_v4011_OTD.sar
 - \X12_v4012_OTD.sar
 - \X12_v4020_OTD.sar
 - \X12_v4021_OTD.sar

- \X12_v4022_OTD.sar
- \X12_v4030_OTD.sar
- \X12_v4031_OTD.sar
- \X12_v4032_OTD.sar
- \X12_v4040_OTD.sar
- \X12_v4041_OTD.sar
- \X12_v4042_OTD.sar
- \X12_v4050_OTD.sar
- \X12_v4051_OTD.sar
- \X12_v4052_OTD.sar
- \X12_v4060_OTD.sar
- \X12_v4061_OTD.sar
- \X12_v5010_OTD.sar
- \X12_v5020_OTD.sar

Contents of the Installation DVDs

There are three installation DVDs delivered with the Java Composite Application Platform Suite Media Kit. See [“Java CAPS Component Names” on page 28](#) for a listing of Release 6 names.

- Java CAPS 6. DVD 1 of 3, contains the ZIP and TAR files for completing an installation of Java CAPS. See [“Java CAPS Installer TAR and ZIP Files” on page 31](#) for a breakdown of the contents of this DVD.
- Java CAPS 6.3 DVD 2 of 3, contains the ZIP files for all the components that are not included with the Java CAPS Installer, including adapters, add-ons, API Kits, and message libraries. See [“Java CAPS Components ZIP Files” on page 32](#) for a breakdown of the contents of this DVD.

Note – The Java CAPS Management and Monitoring APIs ZIP file (EM_API_KIT.zip) and the Oracle Java CAPS ESB API Kit (STCMS_API_KIT.zip) are delivered as part of \ESB_API_KIT.

- Java CAPS 6.3 DVD 3 of 3, contains the ZIP files and TAR files for completing an installation of JBI products only.

Preparing for Installation

When preparing to install Java CAPS you must consider the computer systems on which you plan to install the Suite components, along with gathering important information to help you make the necessary decisions before performing the installation.

What You Must Decide Before You Start the Installation Process

- Select the system that will host the Repository.
- Select the system(s) that will serve as domains. It is possible for the same system to serve both as a Repository and a domain. Whether you decide to do this depends on the requirements of your installation. Contact Oracle Support if you need assistance making this determination.
- Select the system(s) that will host NetBeans IDE.
- Determine which add-on applications you require.
- Ensure that each system that you select meets the system requirements for Java CAPS. For more information on resource requirements, see [“Java CAPS 6.3 System Requirements” on page 21](#).

What Information is Required Before You Start the Installation Process

- The passwords you will use for the administrator and master passwords. For more information see [“Before You Install” on page 24](#).
- The name of each system on which a Repository or domain will be installed. For more information see [“Repository Names and User Names” on page 30](#).
- Confirmation that you have 10 consecutive ports available for the Repository installation (the default is 12000–12009). You will need the base port number when you connect to the Repository.

Note – To determine which ports are in use, type: `netstat -a | find port_number`.

- Confirmation that you have five consecutive ports available for the Enterprise Manager installation (the default is 15000–15004).
- If you are installing support for Oracle Advanced Queueing, the name and login information for the Advanced Queueing database and the name of the queue tables.
- If you are installing support for WebLogic JMS, the name and login information for the WebLogic server and the components names of the JMS module.

Note – Support for Oracle Advanced Queueing and WebLogic JMS can be installed through a command-line after you have installed Java CAPS.

JDK and JAVA_HOME

The Java Development Kit (JDK) must be installed and the JAVA_HOME environment variable must be set on the computer on which you install Java CAPS prior to beginning the installation. This is required to perform the installation and for Java CAPS utilities, such as Enterprise Manager Command-Line Client and code generation, to function correctly. Different operating systems require different JDK versions. To determine which JDK version you need, see [“Java CAPS 6.3 Supported JDK Versions” on page 10](#).

Upgrading to Release 6.3

Beginning with Release 6, you no longer perform an in-place installation. Instead, install the latest release of Java CAPS 6 in a new directory, and then import your Projects from previous releases.

When upgrading from previous releases of Java CAPS to the current release:

- Install Java CAPS in a new directory.
- Export your Projects and Environments from the earlier release of Java CAPS
- Import your Projects and Environments into the latest release using the NetBeans IDE Update Center
- Open any JBI Projects directly in NetBeans
- Reconfigure and redeploy components as needed

For instructions on how to complete a successful upgrade see [Upgrading to Java CAPS 6](#).

Troubleshooting the Java CAPS Installation

If problems occur during an installation, check below for some of the more common resolutions

▪ Java CAPS Installer Fails to Parse the Property File

During installation if your environment contains a backward slash (\), a `java.lang.IllegalArgumentException: Malformed \uxxxx encoding` is thrown. This happens because the environment variables `ps1` and `PS1` contain the backslash character \; that is, `\u@\h:\W\$. The Java CAPS Installer first loads the environment variable values into the env.properties.xxxx file and then reads the property file. If this file contains the \ character, it will fail to read. You must reset these environment variable values to blank or some other values without a backslash; such as, export ps1= and export PS1=. This corrects the error.`

▪ Executing the Windows Link File from the DOS Command Line

You cannot type the *.lnk file and press Enter from the command line to execute the link file. Instead, you have two options.

- From Windows command line, type **start** *FileName* and then press Enter. For example **start start_appserver_domain1**.
- From Windows Explorer double-click the *.lnk file. For example start_appserver_domain1.
- **Changing the Locale on Oracle Solaris or Generic UNIX Systems**

You can change the locale on Solaris and generic UNIX systems by setting the environment and using the correct commands.

- To list the available installed locales, type the command `> locale -a`.
- To change to the locale, type the command `> export LANG=zh_TW #` and then `> export LC_ALL=zh_TW #` to set up the environment, where zh_TW is the locale for traditional Chinese.
- **Java CAPS Installer Fails to Launch When Temp Directory Not Found**

If you encounter the problem that you cannot access the /tmp folder, you can work around this by setting the environment variable IATEMPDIR=/var/tmp. After this environment variable is set, the Java CAPS Installer uses /var/tmp as its temp directory.

- **Overriding the JVM**

You can override the JVM in the Java CAPS Installer. To do this, pass LAX_VM *javaexecutable* to the Java CAPS Installer. For example, `JavaCAPS.exe LAX_VM javapath/java.exe`.

Note – The Java executable that is specified must match the Installer Valid VM List, located under `Project\Config`.

- **Finding the Java (JDK) Version**

On UNIX systems, the response to the which java command indicates the Java version that the Java CAPS Installer uses. Make sure that `jdk1.6.0_05/bin` is set in the path. To double check the JDK version, always run `which java` or `java -version` on UNIX systems to ensure you are using the desired version.

You can also pass the JDK to the Java CAPS Installer: `JavaCAPS.exe LAX_VM javapath/java.exe`.

- **Debugging the Win32 Installer**

To view or capture the debug output from a Java CAPS Installer, hold down the Ctrl key immediately after launching the Java CAPS Installer until a console window appears. Before you exit the Java CAPS Installer, copy the console output to a text file for later review.

If you have trouble capturing the console output, there is a more complicated method to copy the output; this is often the case when using Win9x.

1. Launch the Java CAPS Installer and allow it to extract the necessary files.
2. When the Java CAPS Installer reaches the Preparing to Install screen where it gives you the opportunity to choose a language, navigate to your Windows "temp" directory.
This directory should contain a folder named with several numeric digits.
3. Ensure you have the most recent directory by sorting the directories by "last modified," and then open the appropriate directory.
4. Delete the file named `sea_loc`.
5. Return to the Java CAPS Installer, click OK, and then at the first opportunity, select Exit.
6. Return to the directory from which you deleted the `sea_loc` file and open the directory named `Windows`.

In the `Windows` directory there is an `*.exe` file, most likely named `install.exe`, and a file with the same name but with an `*.lax` extension, for example `install.lax`.

7. Open the `*.lax` file with a plain text editor and change the lines `lax.stderr.redirect=` and `lax.stdout.redirect=` to `lax.stderr.redirect=output.txt` and `lax.stdout.redirect=output.txt`.
8. After you have made these changes, save the file and launch the `*.exe` file, for example `install.exe`.
9. After the installation is complete there is an `output.txt` file in the same directory as the `*.lax` file.

The `output.txt` file should contain the same information as that generated in the console.

■ Debugging the UNIX Installer

To capture the debug output from the UNIX command line you need to enter one of the following (based on which shell you are using) at the command line prior to executing the Java CAPS Installer:

- `export LAX_DEBUG=true`
- `setenv LAX_DEBUG true`
- `LAX_DEBUG=true`
`set LAX_DEBUG`
- Or whatever would be appropriate for your shell.

Run the Java CAPS Installer. The output that is produced should help you debug the Java CAPS Installer. If you want to redirect the output to a file, set `LAX_DEBUG=file` as per the above instruction, and then run the Java CAPS Installer. Once the installation completes, a file named `jx.log` is generated in the same directory as the Java CAPS Installer. This file contains the entire debug output generated by the installation. If you are capturing this information in order to send it to Zero G, include both debug output formats above in their entirety.

Example of UNIX Debugging Commands

```
boreas% sh
$ LAX_DEBUG=true
$ export LAX_DEBUG
$ PATH=/home/ylee/boreas/jdk1.6.0_05/bin:$PATH
$ export PATH
$ which java
/home/ylee/boreas/jdk1.6.0_05/bin/java
$ sh ./JavaCAPS.bin -i console
Preparing to install...
```

UNIX and Linux Patches

There are required and certified UNIX and Linux patches for Java CAPS 6.3.

- “Checking Patch Levels” on page 40
- “Certified Oracle Solaris 9 and 10 Patches” on page 40
- “IBM AIX 5L 5.3 Patches” on page 41
- “Linux Patches” on page 41

Checking Patch Levels

Use these commands to check which patch levels are currently installed on your operating system:

- Oracle Solaris patches

```
pkginfo
cat /etc/release
```

- IBM AIX patches

```
instfix -i
```

- Linux patches

```
uname -a
```

Certified Oracle Solaris 9 and 10 Patches

There is one certified patch for Oracle Solaris 9:

Solaris 9 Maintenance Update 3 4-2003

Note – This patch is also valid on Japanese and Korean operating systems.

A complete list of the patches included in these Clusters is available from Oracle Support.

Note – This patch is recommended but not required.

Daylight Savings Time Patches

If you want your logger and scheduling to be correct, you need to install the appropriate patches:

- **SPARC Platform**
 - Solaris 9 with timezone patch 113225-08 or later and libc patch 112874-33 or later
 - Solaris 10 with timezone patch 122032-04 or later and libc patch 119689-07 or later
- **AMD Opteron Platform**
 - Solaris 10 with timezone patch 122033-03 or later and libc patch 121208-02 or later

IBM AIX 5L 5.3 Patches

There is one certified patch for IBM AIX 5L version 5.3:

5300-05_AIX_ML (Maintenance Level 5)

If you want your logger and scheduling to be correct, you need to install this Daylight Savings Time patch:

5.3 APAR IY75211

Note – The IBM AIX patches are also valid on Japanese and Korean operating systems.

Linux Patches

The following patches are certified patches for Red Hat Linux and SUSE Linux:

Certified SUSE Linux Enterprise Server 10 Daylight Savings Time Patch

If you want your logger and scheduling to be correct on your Linux systems, you need to install this Daylight Savings Time patch:

tzdata-2007c-1.e12_1

