

License Guide – License Subscription
Oracle Banking Collections and Recovery

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License Guide – License Subscription

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1. Preface

1.1 Introduction

This guide helps you understand the guiding rules for Oracle Banking Collections and Recovery License Subscription, the components included in the license and the units that are separately licensed.

This guide also provides information on the third-party software that is packaged with Oracle Banking Collections and Recovery License Subscription.

1.2 Audience

This guide is intended for the following audience:

- Customers
- Partners

1.3 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>.

1.4 Organization

This manual is organized into the following chapters:

Chapter	Description
Chapter 1	Preface gives information on the intended audience. It also lists the various chapters covered in this license guide.
Chapter 2	Oracle Banking Collections and Recovery License Subscription Licensing provides information on Oracle Banking Collections and Recovery License Subscription licensing.
Chapter 3	Software Pre-requisites consists of the technology pre-requisites required for Oracle Banking Collections and Recovery License Subscription.
Chapter 4	Third Party Licenses provides information on licensing of third-party software that are packaged with Oracle Banking Collections and Recovery.

1.5 Related Documents

For more information, refer to the following documents:

- Oracle Banking Collections and Recovery User Guides

2. Oracle Banking Collections and Recovery License Subscription Licensing

2.1 Introduction

This chapter provides information on Oracle Banking Collections and Recovery License Subscription. It contains the following sections:

- General licensing rules
- Components included in license
- Separately licensed pre-requisite products and licensing metric
- Restricted use license

2.2 General Licensing Rules

Not applicable to Oracle Banking Collections and Recovery License Subscription.

2.3 Components Included in License

Not applicable to Oracle Banking Collections and Recovery License Subscription.

2.4 Separately Licensed Pre-requisite Products and Licensing Metric

The module wise list of separately licensed products and the licensing metric is given below.

Module Description	Separately Licensed Prerequisites	Licensing Metric(s)
Oracle Banking Collections Management License Subscription	Oracle Database Enterprise Edition, Oracle HTTP Server, Oracle Weblogic	\$M of Delinquent Accounts Managed

2.5 Restricted Use License

Not applicable to Oracle Banking Collections and Recovery License Subscription.

3. Software Prerequisites

3.1 Tech Stack – Oracle Banking Collections and Recovery

The technology stack for Oracle Banking Collections and Recovery 14.7.0.0.0 is as listed below.

Deployment Option: Single Instance Standalone

Machine	Operating System	Software and Version
Application Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	• Oracle WebLogic Server 14.1.1.0.0 with Patch 32077936** • Oracle JDK 8 Update 341 & JDK 11.0.16
Database Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle Database 19c Enterprise Edition Release 19.16.0.0.0 (19c)
Message Broker	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	• Apache Kafka 2.13-2.8.1 • Apache ZooKeeper 3.6.2

**** Patch 32077936:** JSF APPLICATION RESPONSE ISSUE FOR HTTPS PROTOCOL WHEN HTTP2 IS ENABLED, needs to be applied to Weblogic version 14.1.1.0.0.

UI Stack

Software Type	Recommended Software	Version Number
UI	Oracle JET	v13.0.0

3.2 Supported Browsers

The following browsers are supported:

- Microsoft Edge 103+
- Microsoft Internet Explorer 11.*
- Google Chrome 103+
- Mozilla Firefox 102+
- Apple Safari 14.*
- Apple Safari 15.*

Note: Browser support is no longer based on operating systems but strictly tied to the browser themselves, no matter on which operating systems they are installed. Current release is certified on client workstations with Windows 10 and Mac OS. For detailed information on browser support, please see [Oracle Software Web Browser Support Policy](#).

4. Third-Party Licenses

4.1 Introduction

This chapter provides information on licensing of third-party software that are packaged with Oracle Banking Collections and Recovery 14.7.0.0.0 product release. It contains the following sections:

- Apache License 2.0
- The MIT License
- Others

4.1.1 Apache License 2.0

The following libraries include software developed by The Apache Software Foundation (<http://www.apache.org>).

For license information, See “Apache License 2.0”

- flyway-core
- jjwt
- swagger-annotations
- modelmapper
- HikariCP
- Spring Boot
- log4j-over-slf4j
- Apache FOP
- ZooKeeper
- spring-cloud-starter-config
- spring-cloud-starter-netflix-zuul
- spring-cloud-netflix-eureka-client
- spring-cloud-starter-netflix-eureka-client
- swagger-ui
- mapstruct
- micrometer-registry-prometheus

- PDFBox
- HttpComponents HttpClient
- Guava
- cglib
- Commons FileUpload
- velocity-engine-core
- velocity-tools-generic
- shedlock-provider-jdbc-template
- shedlock-spring
- Ant
- Oracle Replacement Configurator (ORC)
- POI
- connexion
- pytesseract
- jcl-over-slf4j
- GSON
- Conductor
- jslt
- Kafka
- Commons CSV
- python-dateutil
- camel-core
- camel-resilience4j
- camel-cxf
- importlib-metadata
- XMLBeans
- ant-launcher
- pyxDamerauLevenshtein
- tesseract
- spring-cloud-starter-netflix-eureka-client
- spring-cloud-starter-config
- spring-cloud-netflix-eureka-client

- spring-cloud-netflix-eureka-server
- spring-cloud-starter-sleuth
- spring-cloud-sleuth-zipkin
- spring-cloud-starter-zipkin
- spring-cloud-starter-netflix-zuul
- spring-cloud-netflix-hystrix
- spring-cloud-config-server
- spring-cloud-starter-stream-kafka
- tess4j
- PDFBox
- json-path
- swagger-parser-core
- swagger-parser-v2-converter
- spring-security-core
- spring-security-crypto
- spring-security-ldap
- spring-security-config
- spring-security-web
- spring-security-saml2-service-provider
- netty-codec-http
- netty-transport-native-epoll
- tika-core
- jackson-jaxrs-json-provider
- spring-security-oauth2
- swagger-parser-v3
- Avro for Java
- spring-cloud-stream-schema
- jackson-dataformat-xml
- Flask
- jackson-dataformat-cbor
- spring-boot-starter-aop
- spring-boot-starter-tomcat

- spring-boot-starter-web
- spring-boot-starter-json
- spring-boot-starter-logging
- spring-boot-starter-validation
- spring-boot-starter-data-jpa
- spring-boot-starter-hateoas
- spring-boot-starter-jdbc
- spring-boot-starter-jersey
- spring-boot-starter-batch

4.1.2 The MIT License

The below library includes software developed by jsoup.org

- datefinder
- pyap
- lodash
- bignumber.js
- pdf2image
- python-magic
- six
- opencv-python
- jsoup
- knockout.mapping

4.1.3 Others

- EclipseLink
- JSON in Java
- Lombok
- Saxon-HE
- jul-to-slf4j
- Jakarta Mail
- configparser
- pybase64
- Numpy

- dateparser
- Pandas
- scikit-learn
- Python Imaging Library (Pillow)
- JavaScript Extension Toolkit (JET)

4.2 **Apache License 2.0**

4.2.1 **flyway-core**

Apache License Version 2.0, January 2004

<http://www.apache.org/licenses>

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limitations under the License.

4.2.2 jjwt

Top Level Components and subcomponents:

JJWT :: API (io.jsonwebtoken:jjwt-api) ;

JJWT :: Impl (io.jsonwebtoken:jjwt-impl);

JJWT :: Extensions :: Jackson (io.jsonwebtoken:jjwt-jackson) ;

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Version 2.0, January 2004

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4th Party Component #6 : asm

4th Party Component #7 : asm-analysis

4th Party Component #8 : asm-commons

4th Party Component #9 : asm-tree

4th Party Component #10 : asm-util

ASM: a very small and fast Java bytecode manipulation framework

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Source Code

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<https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor>

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

Other developers who have contributed code are:

Brian Langel

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JDK8 datatype component, version 2.x

(version numbers in brackets indicate release in which the problem was fixed)

Tatu Saloranta (tatu.saloranta@iki.fi): author

Henning Schmiedehausen (hgschmie@github)

Reported #11: Add `configureAbsentsAsNulls` config setting, for better compatibility with Guava module

(2.6.0)

Jerome Loisel (jloisel@github)

Reported #14: Missing `@type` when serializing Optional

(2.6.2)

Peter Royal (osi@github)

Reported #20: fails to serialize empty Optional with @JsonUnwrapped annotation

(2.6.4)

Reported #25: OptionalDoubleSerializer does not override acceptJsonFormatVisitor

(2.6.4)

Reported, contributed fix fo #26: `@JsonUnwrapped` on Optional value does not propagate prefix to schema

(2.6.4)

Nick Cronin (Quintok@github)

Reported #21: Manifest file missing OSGi import for `com.fasterxml.jackson.databind.introspect`

(2.6.4)

James Lorenzen (jlorenzen@github)

Requested #18: Allow use of `@JsonInclude(content=Include.NON\_EMPTY)` with `Optional<>`

(2.7.0)

=====

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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd

- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:

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- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd

- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
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- web-common_4_0.xsd
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The following artifacts are EPL and ASL2.

org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

javax.servlet:javax.servlet-api

javax.annotation:javax.annotation-api

javax.transaction:javax.transaction-api

javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected. `java.sun.security.ssl` These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with class path exceptions.

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org.ow2.asm:asm-commons

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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

Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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4.2.8 **Apache FOP**

Top Level Component : xmlgraphics-fop 2.5

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4th Party Component #8: batik-dom

4th Party Component #9: batik-ext

4th Party Component #10: batik-extension

4th Party Component #11: batik-gvt

4th Party Component #12: batik-i18n

4th Party Component #13: batik-parser

4th Party Component #14: batik-script

4th Party Component #15: batik-shared-resources

4th Party Component #16: batik-svg-dom

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4.2.10 spring-cloud-starter-config

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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.

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Andy Clement initial implementation

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4.2.12 spring-cloud-netflix-eureka-client

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4.2.13 spring-cloud-starter-netflix-eureka-client

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Other developers who have contributed code are:

Brian Langel

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4.2.16 micrometer-registry-prometheus

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4.2.24 shedlock-provider-jdbc-template

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4.2.26 Ant

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Parts of Ohai were taken from Chef, a configuration management system.

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You can get the latest version of this script from:
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XZ Utils is developed and maintained by Lasse Collin .

Major parts of liblzma are based on code written by Igor Pavlov, specifically the LZMA SDK . Without this code, XZ Utils wouldn't exist.

The SHA-256 implementation in liblzma is based on the code found from 7-Zip , which has a modified version of the SHA-256 code found from Crypto++ . The SHA-256 code in Crypto++ was written by Kevin Springle and Wei Dai.

Some scripts have been adapted from gzip. The original versions were written by Jean-loup Gailly, Charles Levert, and Paul Eggert. Andrew Dudman helped adapting the scripts and their man pages for XZ Utils.

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>>> A C-program for MT19937, with initialization improved 2002/2/10. Coded by Takuji Nishimura and Makoto Matsumoto. This is a faster version by taking Shawn Cokus's optimization, Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using `init_genrand(seed)` or `init_by_array(init_key, key_length)`.

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\$FreeBSD: head/usr.bin/procstat/procstat_vm.c 261780 2014-02-11 21:57:37Z jhb \$

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emcmp.c::missing/memmove.c::missing/strchr.c::missing/strerror.c::missing/strstr.c::missing/tgam
ma.c::ext/date/date_strftime.c::ext/digest/sha1/sha1.c::ext/digest/sha1/sha1.h::ext/sdbm/_sdbm.c:
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zlib (zlib-README)ZlibZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short "`./configure; make test`", and if that goes well, "`make install`" should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to zlib@gzip.org, or to Gilles Vollant for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>.

A Perl interface to zlib written by Paul Marquess is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/>.

A Python interface to zlib written by A.M. Kuchling is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html>.

zlib is built into tcl: <http://wiki.tcl.tk/4610>.

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant, is available in the `contrib/minizip` directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see `win32/DLL_FAQ.txt` or:

Frequently Asked Questions about ZLIB1.DLL

This document describes the design, the rationale, and the usage of the official DLL build of zlib, named ZLIB1.DLL. If you have general questions about zlib, you should see the file "FAQ" found in the zlib distribution, or at the following location: http://www.gzip.org/zlib/zlib_faq.html

1. What is ZLIB1.DLL, and how can I get it?

- ZLIB1.DLL is the official build of zlib as a DLL. (Please remark the character '1' in the name.)

Pointers to a precompiled ZLIB1.DLL can be found in the zlib web site at: <http://www.zlib.net/>

Applications that link to ZLIB1.DLL can rely on the following specification:

The exported symbols are exclusively defined in the source files "zlib.h" and "zlib.def", found in an official zlib source distribution. The symbols are exported by name, not by ordinal. The exported names are undecorated. The calling convention of functions is "C" (CDECL). The ZLIB1.DLL binary is linked to MSVCRT.DLL.

The archive in which ZLIB1.DLL is bundled contains compiled test programs that must run with a valid build of ZLIB1.DLL. It is recommended to download the prebuilt DLL from the zlib web site, instead of building it yourself, to avoid potential incompatibilities that could be introduced by your compiler and build settings. If you do build the DLL yourself, please make sure that it complies with all the above requirements, and it runs with the precompiled test programs, bundled with the original ZLIB1.DLL distribution.

If, for any reason, you need to build an incompatible DLL, please use a different file name.

2. Why did you change the name of the DLL to ZLIB1.DLL? What happened to the old ZLIB.DLL?

- The old ZLIB.DLL, built from zlib-1.1.4 or earlier, required compilation settings that were incompatible to those used by a static build. The DLL settings were supposed to be enabled by defining the macro ZLIB_DLL, before including "zlib.h". Incorrect handling of this macro was silently accepted at build time, resulting in two major problems:

ZLIB_DLL was missing from the old makefile. When building the DLL, not all people added it to the build options. In consequence, incompatible incarnations of ZLIB.DLL started to circulate around the net.

When switching from using the static library to using the DLL, applications had to define the ZLIB_DLL macro and to recompile all the sources that contained calls to zlib functions. Failure to do so resulted in creating binaries that were unable to run with the official ZLIB.DLL build.

The only possible solution that we could foresee was to make a binary-incompatible change in the DLL interface, in order to remove the dependency on the ZLIB_DLL macro, and to release the new DLL under a different name.

We chose the name ZLIB1.DLL, where '1' indicates the major zlib version number. We hope that we will not have to break the binary compatibility again, at least not as long as the zlib-1.x series will last.

There is still a ZLIB_DLL macro, that can trigger a more efficient build and use of the DLL, but compatibility no longer depends on it.

3. Can I build ZLIB.DLL from the new zlib sources, and replace an old ZLIB.DLL, that was built from zlib-1.1.4 or earlier?

- In principle, you can do it by assigning calling convention keywords to the macros ZEXPORT and ZEXPORTVA. In practice, it depends on what you mean by "an old ZLIB.DLL", because the old DLL exists in several mutually-incompatible versions. You have to find out first what kind of calling convention is being used in your particular ZLIB.DLL build, and to use the same one in the new build. If you don't know what this is all about, you might be better off if you would just leave the old DLL intact.

4. Can I compile my application using the new zlib interface, and link it to an old ZLIB.DLL, that was built from zlib-1.1.4 or earlier?

- The official answer is "no"; the real answer depends again on what kind of ZLIB.DLL you have. Even if you are lucky, this course of action is unreliable.

If you rebuild your application and you intend to use a newer version of zlib (post- 1.1.4), it is strongly recommended to link it to the new ZLIB1.DLL.

5. Why are the zlib symbols exported by name, and not by ordinal?

- Although exporting symbols by ordinal is a little faster, it is risky. Any single glitch in the maintenance or use of the DEF file that contains the ordinals can result in incompatible builds and frustrating crashes. Simply put, the benefits of exporting symbols by ordinal do not justify the risks.

Technically, it should be possible to maintain ordinals in the DEF file, and still export the symbols by name. Ordinals exist in every DLL, and even if the dynamic linking performed at the DLL startup is searching for names, ordinals serve as hints, for a faster name lookup. However, if the DEF file contains ordinals, the Microsoft linker automatically builds an implib that will cause the executables linked to it to use those ordinals, and not the names. It is interesting to notice that the GNU linker for Win32 does not suffer from this problem.

It is possible to avoid the DEF file if the exported symbols are accompanied by a `"__declspec(dllexport)"` attribute in the source files. You can do this in zlib by predefining the ZLIB_DLL macro.

6. I see that the ZLIB1.DLL functions use the "C" (CDECL) calling convention. Why not use the STDCALL convention? STDCALL is the standard convention in Win32, and I need it in my Visual Basic project!

(For readability, we use CDECL to refer to the convention triggered by the `"__cdecl"` keyword, STDCALL to refer to the convention triggered by `"__stdcall"`, and FASTCALL to refer to the convention triggered by `"__fastcall"`.)

- Most of the native Windows API functions (without varargs) use indeed the WINAPI convention (which translates to STDCALL in Win32), but the standard C functions use CDECL. If a user application is intrinsically tied to the Windows API (e.g. it calls native Windows API functions such as `CreateFile()`), sometimes it makes sense to decorate its own functions with WINAPI. But if ANSI C or POSIX portability is a goal (e.g. it calls standard C functions such as `fopen()`), it is not a sound decision to request the inclusion of , or to use non-ANSI constructs, for the sole purpose to make the user functions STDCALL-able.

The functionality offered by zlib is not in the category of "Windows functionality", but is more like "C functionality".

Technically, STDCALL is not bad; in fact, it is slightly faster than CDECL, and it works with variable-argument functions, just like CDECL. It is unfortunate that, in spite of using STDCALL in the Windows API, it is not the default convention used by the C compilers that run under Windows. The roots of the problem reside deep inside the unsafety of the K&R-style function prototypes, where the argument types are not specified; but that is another story for another day.

The remaining fact is that CDECL is the default convention. Even if an explicit convention is hard-coded into the function prototypes inside C headers, problems may appear. The necessity to expose the convention in users' callbacks is one of these problems.

The calling convention issues are also important when using zlib in other programming languages. Some of them, like Ada (GNAT) and Fortran (GNU G77), have C bindings implemented initially on Unix, and relying on the C calling convention. On the other hand, the pre-.NET versions of Microsoft Visual Basic require STDCALL, while Borland Delphi prefers, although it does not require, FASTCALL.

In fairness to all possible uses of zlib outside the C programming language, we choose the default "C" convention. Anyone interested in different bindings or conventions is encouraged to maintain specialized projects. The "contrib/" directory from the zlib distribution already holds a couple of foreign bindings, such as Ada, C++, and Delphi.

7. I need a DLL for my Visual Basic project. What can I do?

- Define the ZLIB_WINAPI macro before including "zlib.h", when building both the DLL and the user application (except that you don't need to define anything when using the DLL in Visual Basic). The ZLIB_WINAPI macro will switch on the WINAPI (STDCALL) convention. The name of this DLL must be different than the official ZLIB1.DLL.

Gilles Vollant has contributed a build named ZLIBWAPI.DLL, with the ZLIB_WINAPI macro turned on, and with the minizip functionality built in. For more information, please read the notes inside "contrib/vstudio/readme.txt", found in the zlib distribution.

8. I need to use zlib in my Microsoft .NET project. What can I do?

- Henrik Ravn has contributed a .NET wrapper around zlib. Look into contrib/dotzlib/, inside the zlib distribution.

9. If my application uses ZLIB1.DLL, should I link it to MSVCRT.DLL? Why?

- It is not required, but it is recommended to link your application to MSVCRT.DLL, if it uses ZLIB1.DLL.

The executables (.EXE, .DLL, etc.) that are involved in the same process and are using the C runtime library (i.e. they are calling standard C functions), must link to the same library. There are several libraries in the Win32 system: CRTDLL.DLL, MSVCRT.DLL, the static C libraries, etc. Since ZLIB1.DLL is linked to MSVCRT.DLL, the executables that depend on it should also be linked to MSVCRT.DLL.

10. Why are you saying that ZLIB1.DLL and my application should be linked to the same C runtime (CRT) library? I linked my application and my DLLs to different C libraries (e.g. my application to a static library, and my DLLs to MSVCRT.DLL), and everything works fine.

- If a user library invokes only pure Win32 API (accessible via and the related headers), its DLL build will work in any context. But if this library invokes standard C API, things get more complicated.

There is a single Win32 library in a Win32 system. Every function in this library resides in a single DLL module, that is safe to call from anywhere. On the other hand, there are multiple versions of the C library, and each of them has its own separate internal state. Standalone executables and user DLLs that call standard C functions must link to a C run-time (CRT) library, be it static or shared (DLL). Intermixing occurs when an executable (not necessarily standalone) and a DLL are linked to different CRTs, and both are running in the same process.

Intermixing multiple CRTs is possible, as long as their internal states are kept intact. The Microsoft Knowledge Base articles KB94248 "HOWTO: Use the C Run-Time" and KB140584 "HOWTO: Link with the Correct C Run-Time (CRT) Library" mention the potential problems raised by intermixing.

If intermixing works for you, it's because your application and DLLs are avoiding the corruption of each of the CRTs' internal states, maybe by careful design, or maybe by fortune.

Also note that linking ZLIB1.DLL to non-Microsoft CRTs, such as those provided by Borland, raises similar problems.

11. Why are you linking ZLIB1.DLL to MSVCRT.DLL?

- MSVCRT.DLL exists on every Windows 95 with a new service pack installed, or with Microsoft Internet Explorer 4 or later, and on all other Windows 4.x or later (Windows 98, Windows NT 4, or later). It is freely distributable; if not present in the system, it can be downloaded from Microsoft or from other software provider for free.

The fact that MSVCRT.DLL does not exist on a virgin Windows 95 is not so problematic. Windows 95 is scarcely found nowadays, Microsoft ended its support a long time ago, and many recent applications from various vendors, including Microsoft, do not even run on it. Furthermore, no serious user should run Windows 95 without a proper update installed.

12. Why are you not linking ZLIB1.DLL to <> ?

- We considered and abandoned the following alternatives:

Linking ZLIB1.DLL to a static C library (LIBC.LIB, or LIBCMT.LIB) is not a good option. People are using the DLL mainly to save disk space. If you are linking your program to a static C library, you may as well consider linking zlib in statically, too.

Linking ZLIB1.DLL to CRTDLL.DLL looks appealing, because CRTDLL.DLL is present on every Win32 installation. Unfortunately, it has a series of problems: it does not work properly with Microsoft's C++ libraries, it does not provide support for 64-bit file offsets, (and so on...), and Microsoft discontinued its support a long time ago.

Linking ZLIB1.DLL to MSVCR70.DLL or MSVCR71.DLL, supplied with the Microsoft .NET platform, and Visual C++ 7.0/7.1, raises problems related to the status of ZLIB1.DLL as a system component. According to the Microsoft Knowledge Base article KB326922 "INFO: Redistribution of the Shared C Runtime Component in Visual C++ .NET", MSVCR70.DLL and MSVCR71.DLL are not supposed to function as system DLLs, because they may clash with MSVCRT.DLL. Instead, the application's installer is supposed to put these DLLs (if needed) in the application's private directory. If ZLIB1.DLL depends on a non-system runtime, it cannot function as a redistributable system component.

Linking ZLIB1.DLL to non-Microsoft runtimes, such as Borland's, or Cygwin's, raises problems related to the reliable presence of these runtimes on Win32 systems. It's easier to let the DLL build of zlib up to the people who distribute these runtimes, and who may proceed as explained in the answer to Question 14.

13. If ZLIB1.DLL cannot be linked to MSVCR70.DLL or MSVCR71.DLL, how can I build/use ZLIB1.DLL in Microsoft Visual C++ 7.0 (Visual Studio .NET) or newer?

- Due to the problems explained in the Microsoft Knowledge Base article KB326922 (see the previous answer), the C runtime that comes with the VC7 environment is no longer considered a system component. That is, it should not be assumed that this runtime exists, or may be installed in a system directory. Since ZLIB1.DLL is supposed to be a system component, it may not depend on a non-system component.

In order to link ZLIB1.DLL and your application to MSVCRT.DLL in VC7, you need the library of Visual C++ 6.0 or older. If you don't have this library at hand, it's probably best not to use ZLIB1.DLL.

We are hoping that, in the future, Microsoft will provide a way to build applications linked to a proper system runtime, from the Visual C++ environment. Until then, you have a couple of alternatives, such as linking zlib in statically. If your application requires dynamic linking, you may proceed as explained in the answer to Question 14.

14. I need to link my own DLL build to a CRT different than MSVCRT.DLL. What can I do?

- Feel free to rebuild the DLL from the zlib sources, and link it the way you want. You should, however, clearly state that your build is unofficial. You should give it a different file name, and/or install it in a private directory that can be accessed by your application only, and is not visible to the others (i.e. it's neither in the PATH, nor in the SYSTEM or SYSTEM32 directories). Otherwise, your build may clash with applications that link to the official build.

For example, in Cygwin, zlib is linked to the Cygwin runtime CYGWIN1.DLL, and it is distributed under the name CYGZ.DLL.

15. May I include additional pieces of code that I find useful, link them in ZLIB1.DLL, and export them?

- No. A legitimate build of ZLIB1.DLL must not include code that does not originate from the official zlib source code. But you can make your own private DLL build, under a different file name, as suggested in the previous answer.

For example, zlib is a part of the VCL library, distributed with Borland Delphi and C++ Builder. The DLL build of VCL is a redistributable file, named VCLxx.DLL.

16. May I remove some functionality out of ZLIB1.DLL, by enabling macros like NO_GZCOMPRESS or NO_GZIP at compile time?

- No. A legitimate build of ZLIB1.DLL must provide the complete zlib functionality, as implemented in the official zlib source code. But you can make your own private DLL build, under a different file name, as suggested in the previous answer.

17. I made my own ZLIB1.DLL build. Can I test it for compliance?

- We prefer that you download the official DLL from the zlib web site. If you need something peculiar from this DLL, you can send your suggestion to the zlib mailing list.

However, in case you do rebuild the DLL yourself, you can run it with the test programs found in the DLL distribution. Running these test programs is not a guarantee of compliance, but a failure can imply a detected problem.

This document is written and maintained by Cosmin Truta

- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.

- On Digital Unix 4.0D (formerly OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.

- gzopen is not supported on RISCOS or BEOS.

- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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4.2.29 connexion

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----- 4P dependency Name9: chardet

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Name10: Jinja2

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Name12: setuptools

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4.2.30 pytesseract

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module pyparsing.py

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4.2.32 GSON

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Other developers who have contributed code are:

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4.2.34 Jslt

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Here are people who have contributed to the development of Jackson JSON processor JDK8 datatype component, version 2.x (version numbers in brackets indicate release in which the problem was fixed) Tatu Saloranta (tatu.saloranta@iki.fi): author Henning Schmiedehausen (hgschmie@github) Reported 11: Add `configureAbsentsAsNulls` config setting, for better compatibility with Guava module (2.6.0) Jerome Loisel (jloisel@github) Reported 14: Missing `@type` when serializing Optional (2.6.2) Peter Royal (osi@github) Reported 20: fails to serialize empty Optional with @JsonUnwrapped annotation (2.6.4) Reported 25: OptionalDoubleSerializer does not override acceptJsonFormatVisitor (2.6.4) Reported, contributed fix for 26: `@JsonUnwrapped` on Optional value does not propagate prefix to schema (2.6.4) Nick Cronin (Quintok@github) Reported 21: Manifest file missing OSGi import for `com.fasterxml.jackson.databind.introspect` (2.6.4) James Lorenzen (jlorenzen@github) Requested 18: Allow use of `@JsonInclude(contentInclude.NON\_EMPTY)` with `Optional<>` (2.7.0)

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4.2.38 camelcore

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4.2.39 camelresilience4j

Top Level Component : camelresilience4j

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4.2.41 importlibmetadata

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4.2.44 pyxDamerauLevenshtein

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Stax2 API extension for Streaming API for XML processing (StAX).

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4.2.48 springcloudnetflixurekaclient

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4.2.49 springcloudnetflixureka-server

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4.2.51 springcloudsleuthzipkin

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4.2.57 tess4j

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4.2.59 jsonpath

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4.2.60 swaggerparsercore

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4.2.61 swaggerparserv2converter

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4.2.63 springsecuritycrypto

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4.2.65 springsecurityconfig

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4.2.68 nettycodehttp

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4.2.69 nettytransportnativeepoll

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4.2.71 jacksonjxrsjsonprovider

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4.2.72 springsecurityoauth2

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4.2.73 swaggerparserv3

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4.2.74 Avro for Java

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4.2.75 springcloudstreamschema

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Tatu Saloranta (cowtowncoder@github): coauthor

Chuck McCorvey (cmccorvey@github) Contributed 20: Enhance YearMonth Serialization/Deserialization to allow custom formatting with `@JsonFormat` (2.5.2)

Christopher Currie (christophercurrie@github) Fixed Maven build to properly check for JDK 1.8

ukasz Dywicki (splatch@github) Contributed 5: Improvements to OSGi manifest generation (2.2.3)

Jon Edvardsson (jedvardsson@github) Reported 24: ZoneId type information improperly handled when default typing enabled (2.5.4)

Zoltan Kiss (zkiss@github) Contributed 18: Support serializing and deserializing Maps with jsr310 types as keys (2.6.0) Contributed 30: Make `ZonedDateTime` serializer support `SerializationFeature.WRITE\_DATES\_WITH\_ZONE\_ID` (2.6.0)

Sander Mak (sandermak@github) Contributed 28, 56: ISO strings with timecomponent cause exception when deserializing to LocalDate (2.6.0, 2.7.1)

Iain Davis (iaindavis@github) Contributed 34: Allow direct instantiation of standards deserializers, with explicit `DateTimeFormatter` to use, to allow for registering custom formatter variants (related to 17) (2.6.0)

James R (time4tea@github) Reported 35: LocalTimeDeserializer does not use configured formatter (2.6.1)

jukkasi@github: Reported 37: Cannot parse Javascript date using `LocalDateDeserializer` (2.6.1)

Ken Southerland (crowmagnumb@github): Reported 45: Problem Deserializing `java.time.OffsetTime` from JSON Array (2.6.3)

Peter Royal (osi@github) Reported 50: `Instant` schema representation is incorrect for timestamps serialization (2.6.4)

Kreimir Neseik (knes1@github) Reported, contributed for 69: Serialization of Instant seems to throw exceptions when @JsonFormat is used (2.6.6)

Devin Smith (devinrsmith@github) Reported 63: Should not leak `DateTimeException`s to caller (2.7.3)

Lovro Pandi (lpandzic@github) Reported 79: Can't deserialize Instant from JSON of serialized Date (2.7.5)

Alexey Bychkov (joxerTMD@github) Contributed 80: Add Support for `JsonFormat.Feature.ADJUST\_DATES\_TO\_CONTEXT\_TIME\_ZONE` (2.8.0)

Here are people who have contributed to the development of Jackson JSON processor Java 8 module (version numbers in brackets indicate release in which the problem was fixed)

Nick Williams (beamerblvd@github): author of Java 8 date/time module Tatu Saloranta (cowtowncoder@github): author (other modules) Michael O'Keeffe (kupci@github): coauthor (since 2.10)

LouisRémi Paquet (lrpg@github) 15: Optional and OptionalLong deserialization not consistent when deserializing from String (2.8.8)

Reported 15: Optional and OptionalLong deserialization not consistent when deserializing from String (2.8.8)

Mikko Tiihonen (gmokki@github) Reported 33: `Jdk8Serializer.findReferenceSerializer()` leads to `StackOverflowError` in 2.8.9 (2.8.10)

João Cabrita (kewne@github) 20: Allow `LocalDate` to be serialized/deserialized as number (epoch day) (2.9.0)

KP Moresmau (JPMoresmau@github) 21: `DeserializationFeature.UNWRAP\_SINGLE\_VALUE\_ARRAYS` not respected (2.9.0)

Julien Bouyoud (jBouyoud@github) 3: (datatype) Add Serialization Support for Streams (2.9.0)

Semyon Levin (remal@github) 65: Use `DeserializationContext.handleWeirdXxxValue()` for datetime deserializers (2.9.6)

Sonny Gill (sonnygill@github) 67: `ParameterNamesModule` does not deserialize with a single parameter constructor when using `SnakeCase` `PropertyNamingStrategy` (2.9.6)

Kezhu Wang (kezhuw@github) 75: Use `SerializationFeature.WRITE\_DURATIONS\_AS\_TIMESTAMPS` for configuring `Duration` serialization (2.10.0)

Adrian Palanques (devdevx@github) Reported 78: (datetime) Year deserialization ignores `@JsonFormat` pattern (2.9.7)

Craig Pardey (pards@github) Contributed 80: Feature request: Support caseinsensitive `LocalDate` formats (MapperFeature.ACCEPT_CASE_INSENSITIVE_VALUES) (2.10.0)

Andriy Plokhotnyuk (plokhotnyuk@github) Reported 90 (datetime): Performance issue with malicious `BigDecimal` input, `InstantDeserializer`, `DurationDeserializer` (2.9.8)

Todd Jonker (toddjonker@github) Contributed fix for 90 (see above) (2.9.8)

Michael O'Keeffe (kupci@github) Contributed fix for 51: `YearKeyDeserializer` doesn't work with nonpadded year values (2.10.0) Contributed fix for 58: Should not parse `LocalDate`s from number (timestamp), (2.11.0) Contributed fix for 69: `ZonedDateTime` for times before the epoch do not serialize correctly (2.10.0) Contributed fix for 114: Prevent deserialization of "" as `null` for `LocalDate`, `LocalDateTime` in "strict" (nonlenient) mode (2.10.0) Implemented 138: Prevent deserialization of "" as `null` for `Duration`, `Instant`, `LocalTime`, `OffsetTime` and `YearMonth` in "strict" (nonlenient) mode (2.11.0)

Micha muda (zmumi@github) Reported 127: ZonedDateTime in map keys ignores option to write Zone IDs (2.10.1) Reported 128: Timestamp keys from `ZonedDateTime` (2.11.0)

Vetle LeinonenRoeim (vetler@github) Contributed fix for 127: ZonedDateTime in map keys ignores option to write Zone IDs (2.10.1) Contributed fix for 128: Timestamp keys from `ZonedDateTime` (2.11.0)

Bill O'Neil (billoneil@github) Reported 58: Should not parse `LocalDate`s from number (timestamp), (2.11.0)

Arturas Gusevas (agusevas@github) Requested 148: Allow strict `LocalDate` parsing (2.11.0)

Samantha Williamson (samwill@github) Contributed fix to 148: Allow strict `LocalDate` parsing (2.11.0)

Antti S. Lankila (alankila@github) Reported 94: Deserialization of timestamps with UTC timezone to LocalDateTime doesn't yield correct time (2.12.0)

Joni Syri (jpsyri@github) Reported 165: Problem in serializing negative Duration values (2.12.0)

Moritz Orth (morth@github.com) Reported and suggested fix for 166: Cannot deserialize OffsetDateTime.MIN and OffsetDateTime.MAX with ADJUST_DATES_TO_CONTEXT_TIME_ZONE enabled (2.12.0)

Erwan Leroux (ErwanLeroux@github) Reported 175: ObjectMapper.setTimeZone ignored by jsr310/datetime types during serialization when using `@JsonFormat` annotation (2.12.0)

Ferenc Csaky (ferencsaky@github) Contributed fix to 175: ObjectMapper.setTimeZone ignored by jsr310/datetime types during serialization when using `@JsonFormat` annotation (2.12.0)

Philipp Dargel (chisui@github) Requested 184: `DurationDeserializer` should use `@JsonFormat.pattern` (and config override) to support configurable `ChronoUnit` (2.12.0)

Oriol Barcelona (obarcelonap@github) Contributed fix for 184: `DurationDeserializer` should use `@JsonFormat.pattern` (and config override) to support configurable `ChronoUnit` (2.12.0) Contributed fix for 189: Support use of "pattern" (`ChronoUnit`) for `DurationSerializer` too (2.12.0)

Gökhan Öner (gokhanoner@github) Reported 207: Fail to serialize `TemporalAdjuster` type with 2.12 (2.12.3)

Øystein B. Huseby (oeystein@github) Contributed 131: Deserializing ZonedDateTime with basic TZ offset notation (0000) (2.13.0)

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4.2.78 jacksondataformatcbor

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```
+          org.springframework.boot:springbootstarterorg.springframework.boot:springboot
org.springframework:springcontext
org.springframework:springexpressionorg.springframework.boot:springbootautoconfigureorg.sprin
gframework.boot:springbootstarterlogging          ch.qos.logback:logbackclassic
ch.qos.logback:logbackcore          org.slf4j:slf4japi          org.apache.logging.log4j:log4jtoslf4j
org.apache.logging.log4j:log4japi
org.slf4j:jultoslf4jjakarta.annotation:jakarta.annotationapiorg.springframework:springcore
org.springframework:springjclorg.yaml:snakeyaml
```

```
separator+          org.springframework:springaoporg.springframework:springbeansseparator
org.aspectj:aspectjweaver
```

END

```
org.springframework.boot:springbootstarterorg.springframework.boot:springbootorg.springframework
ork.boot:springbootautoconfigureorg.springframework.boot:springbootstarterlogging
```

```
org.springframework:springaoporg.springframework:springbeansorg.springframework:springcore
org.springframework:springcore
```

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ch.qos.logback:logbackclassicch.qos.logback:logbackcore

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4.2.82 springbootstarterjson

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4.2.83 springbootstarterlogging

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4.2.86 springbootstarterhateoas

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4.3.7 Six

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4.3.10 knockout.mapping

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<http://knockoutjs.com/documentation/plugins-mapping.html>

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4.4 Others

4.4.1 EclipseLink

Top Level Component: Eclipse-Link-Data-JPA

Top Level Sub-Components:

eclipselink

org.eclipse.persistence.jpa

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4th Party Component #3: org.eclipse.persistence.antlr

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ASM: a very small and fast Java bytecode manipulation framework

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4.4.2 JSON in Java

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4.4.4 **Saxon-HE**

Top Level Component Name: SaxonHE

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4.4.5 jul-to-slf4j

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4.4.7 Configparser

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pythondateutil

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4.4.14 JavaScript Extension Toolkit (JET)

Oracle JET 13.0.0

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Chai

<https://github.com/chaijs/chai>

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expressioneval

<https://github.com/donmccurdy/expressioneval>

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jsep

<https://github.com/soney/jsep>

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Knockout Fast Foreach

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proj4js

<http://proj4js.org/>

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Requirecss

<https://github.com/guybedford/requirecss>

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Hammer.JS

<http://hammerjs.github.io/>

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Normalize.scss

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RequireJS i18n

<http://github.com/requirejs/i18n> for details

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jsTree

<http://jstree.com/>

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select2.js

<https://github.com/select2/select2>

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JS Signals

Author: Miller Medeiros

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RequireJS text

<http://github.com/requirejs/text>

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RequireJS

<http://github.com/jrburke/requirejs>

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