License Guide – On-Premise Oracle Banking Virtual Account Management Release 14.7.0.0.0 Part Number F73552-01 November 2022





License Guide – On-Premise

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1. Preface

1.1 Introduction

This guide helps you understand the guiding rules for Oracle Banking Virtual Account Management licensing, 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 Virtual Account Management.

1.2 Audience

This guide is intended for the following audience:

- Customers
- Partners

1.3 <u>Documentation Accessibility</u>

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 Virtual Account Management Licensing provides information on Oracle Banking Virtual Account Management licensing.
Chapter 3	Software Pre-requisites consists of the technology pre-requisites required for Oracle Banking Virtual Account Management.
Chapter 4	Third Party Licenses provides information on licensing of third-party software that are packaged with Oracle Banking Virtual Account Management.

1.5 Related Documents

For more information, refer to the following documents:

Oracle Banking Virtual Account Management User Manuals



2. Oracle Banking Virtual Account Management Licensing

2.1 Introduction

This chapter provides information on Oracle Banking Virtual Account Management licensing. 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 Virtual Account Management.

2.3 Components Included in License

Not applicable to Oracle Banking Virtual Account Management.

2.4 <u>Separately Licensed Pre-requisite Products and Licensing Metric</u>

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 Virtual Account	Oracle Database Enterprise Edition, Oracle HTTP Server, Oracle Weblogic	Virtual Account \$M in Assets
Oracle Banking Virtual Identifier	Oracle Database Enterprise Edition, Oracle HTTP Server, Oracle Weblogic	Virtual Identifier

2.5 Restricted Use License

Not applicable to Oracle Banking Virtual Account Management.



3. Software Prerequisites

3.1 <u>Tech Stack - Oracle Banking Virtual Account Management</u>

Component	Deployment option	Machine	Operating System	Software	Version Number
	Single Instance Standalone Broom Bro	Application Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle WebLogic Server	14.1.1.0.0 + Patch 32077936**
				Java HotSpot (TM) JDK (with WebLogic Application Server)	Oracle JDK 8 Update 341 & JDK 11.0.16
Oracle		Database Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle Database 19c Enterprise Edition Release	19.16.0.0.0 (19c)
Banking Virtual		Message Broker	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Apache Kafka	2.13-2.8.1
Account Management				Apache ZooKeeper	3.6.2
		Client Machines# For detailed information on Browser Support, please refer		Mozilla Firefox	Mozilla Firefox Release (87+)
				Apple Safari	Apple Safari (14+)
		Browser Su https://www.c eware/techno	e Software Web pport Policy at pracle.com/middl plogies/browser-	Google Chrome	Google Chrome Release (Version 88+)
	policy.html		Microsoft Edge	Microsoft Edge (89+)	

^{**} 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.

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.

UI Stack

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



4. Third-Party Licenses

4.1 Introduction

This chapter provides information on licensing of third-party software that are packaged with Oracle Banking Virtual Account Management 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
- opency-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

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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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4th Party Component #7: asm-analysis

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4th Party Component #10: asm-util

ASM: a very small and fast Java bytecode manipulation framework

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

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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 5.xsd
- javaee_web_services_1_2.xsd
- 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:

http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html

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- javaee web services client 1 2.xsd
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- 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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Eclipse

The following artifacts are EPL.

org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

The following artifacts are CDDL + GPLv2 with classpath exception.
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.

http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl



MortBay

The following artifacts are ASL2 licensed. Based on selected classes from

following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by UNIX systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute Unix Cryptfor non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.



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4.2.8 Apache FOP

Top Level Component: xmlgraphics-fop 2.5

Apache FOP

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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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Last revised by Reagle \$Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) \$

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4.2.10 spring-cloud-starter-config

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java



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4.2.11 spring-cloud-starter-netflix-zuul

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java

contains test data from http://aspell.net/test/orig/batch0.tab.

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4.2.12 spring-cloud-netflix-eureka-client

Top Level Component : spring-cloud-netflix-eureka-client

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

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The primary ANTLR guy:

Terence Parr

parrt@cs.usfca.edu

parrt@antlr.org

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The primary ANTLR guy	r:		
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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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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java

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@version 1.0

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4.2.24 shedlock-provider-jdbc-template

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4.2.25 shedlock-spring

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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: http://git.savannah.gnu.org/gitweb/?p=config.git;a=blob_plain;f=config.sub

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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.



The GNU Autotools-based build system contains files from many authors, which I'm not trying to list here.

Several people have contributed fixes or reported bugs. Most of them are mentioned in the file THANKS.

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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 \$

vsnprintf.c::

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httpclient (ruby_bundler-httpclient-2.8.3-README.md)Ruby

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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 isthread safe. The data format used by the zlib library is described by RFCs(Request for Comments) 1950 to 1952 in the fileshttp://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) andrfc1952 (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 thatthe library is working correctly. Another example is given in the filetest/minigzip.c. The compression library itself is composed of all sourcefiles in the root directory.

To compile all files and run the test program, follow the instructions given atthe top of Makefile.in. In short "./configure; make test", and if that goeswell, "make install" should work for most flavors of Unix. For Windows, useone of the special makefiles in win32/ or contrib/vstudio/ . For VMS, usemake vms.com.

Questions about zlib should be sent to, or to Gilles Vollant for the Windows DLL version. The zlib home page ishttp://zlib.net/. Before reporting a problem, please check this site toverify that you have the latest version of zlib; otherwise get the latestversion 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. 1997issue of Dr. Dobb's Journal; a copy of the article is available athttp://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 athttp://java.sun.com/developer/technicalArticles/Programming/compression/ .

A Perl interface to zlib written by Paul Marquess is availableat 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 isavailable in Python 1.5 and later versions, seehttp://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 topof 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 usageof the official DLL build of zlib, named ZLIB1.DLL. If you havegeneral questions about zlib, you should see the file "FAQ" foundin 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 dependents 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 (formely 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.
- gzdopen 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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Jean-loup Gailly Mark Adler jloup@gzip.org madler@alumni.caltech.edu

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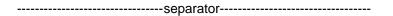
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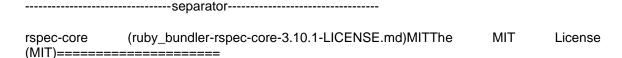
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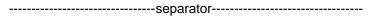
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4.2.28 POI

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Name10: Jinja2

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4.2.30 pytesseract

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4.2.31 jcl-over-slf4j

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4.2.32 GSON

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Other developers who have contributed code are:

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20011212

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Zstdjni: JNI bindings to Zstd Library

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4.2.34 Jslt

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Here are people who have contributed to the development of Jackson JSON processorJDK8 datatype component, version 2.x(version numbers in brackets indicate release in which the problem was fixed)Tatu Saloranta (tatu.saloranta@iki.fi): authorHenning 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 `com.fasterxml.jackson.databind.introspect` (2.6.4)James Lorenzen (ilorenzen@github) Requested 18: Allow use of `@JsonInclude(contentInclude.NON EMPTY)` with `Optional<>` (2.7.0)

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4.2.37 pythondateutil

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4.2.38 camelcore

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4.2.39 camelresilience4j

Top Level Component : camelresilience4j

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4.2.40 camelcxf

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4.2.44 pyxDamerauLevenshtein

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4.2.45 Tesseract

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

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4.2.48 springcloudnetflixeurekaclient

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4.2.51 springcloudsleuthzipkin

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4.2.53 springcloudstarternetflixzuul

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4.2.54 springcloudnetflixhystrix

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4.2.55 springcloudconfigserver

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4.2.56 springcloudstarterstreamkafka

Top Level Component : springcloudstarterstreamkafka

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4.2.59 jsonpath

Top Level Component

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Jakarta Bean Validation API



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4.2.62 springsecuritycore

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4.2.64 springsecurityldap

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4.2.65 springsecurityconfig

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4.2.66 springsecurityweb

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4.2.71 jacksonjaxrsjsonprovider

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4.2.72 springsecurityoauth2

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4.2.74 Avro for Java

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Here are people who have contributed to the development of Jackson JSON processorJSR310 datatype module.

Nick Williams (beamerblvd@github): author

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: Zoneld 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)

lain Davis (iaindavis@github) Contributed 34: Allow direct instantiation of standards deserializers, with explicit `DateTimeFormatter` to use, to allow for registering customformatter 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 Nesek (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 (Ipandzic@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 processorJava 8 module(version numbers in brackets indicate release in which the problem was fixed)

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

Louis Rémi Paquet (Irpg@github) 15: Optional and Optional Long 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) Constributed fix for 114: Prevent deserialization of "" as `null` for `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: ObjectMappersetTimeZone ignored by jsr310/datetime types during serialization when using `@JsonFormat` annotation (2.12.0)

Ferenc Csaky (ferenccsaky@github) Contributed fix to 175: ObjectMappersetTimeZone 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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separator+ org.springframework:springaoporg.springframework:springbeansseparator org.aspectj:a

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org.springframework.boot:springbootstarterorg.springframework.boot:springbootorg.springframework.boot:springbootstarterlogging

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

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4.2.82 springbootstarterison

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4.3.9 <u>Jsoup</u>

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4.3.10 knockout.mapping

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Top Level Component Name: SaxonHE

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4.4.7 Configparser

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4.4.8 pybase64

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4.4.10 <u>Dateparser</u>

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dateutil Extensions to the standard Python datetime module.

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six

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pythondateutil

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https://github.com/donmccurdy/expressioneval

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isep

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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isTree

http://jstree.com/

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select2.js

https://github.com/select2/select2

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jQuery UI

http://jqueryui.com

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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¡Query JavaScript Library

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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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Knockout JavaScript library

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Preact

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