License Guide – On-Premise
Oracle Banking Collections and Recovery
Release 14.7.1.0.0

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ORACLE
FINANCIAL SERVICES

License Guide – On-Premise

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1. Preface

1.1 Introduction

This guide helps you understand the guiding rules for Oracle Banking Collections and Recovery 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 Collections and Recovery.

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 Licensing provides information on Oracle Banking Collections and Recovery licensing.
Chapter 3	Software Pre-requisites consists of the technology pre-requisites required for Oracle Banking Collections and Recovery.
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 Licensing

2.1 Introduction

This chapter provides information on Oracle Banking Collections and Recovery 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 Collections and Recovery.

2.3 Components Included in License

Not applicable to Oracle Banking Collections and Recovery.

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	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.

3. Software Prerequisites

3.1 Tech Stack – Oracle Banking Collections and Recovery

The technology stack for Oracle Banking Collections and Recovery 14.7.1.0.0 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 19.18.0.0.0 (19c)
Message Broker	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	• Apache Kafka 2.13-3.4.0 • Apache ZooKeeper (embedded with Kafka) 3.6.3

****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

This chapter lists the third-party software that are packaged with Oracle Banking Collections and Recovery 14.7.1.0.0. For licensing information of each software, see section Licensing Information.

4.1 List of Third Party Licenses

Apache License 2.0

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

- 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

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

Other

- 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 Licensing Information

The licensing information of these third-party software are as listed in below table.

Table 4-1: Third Party Licensing Information

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dateutil - Extensions to the standard Python datetime module.

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		WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. ---------separator--------- zlib (zlib-README) Zlib ZLIB 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 (deflate format) and 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 , 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. Dobb'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

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		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 run-time 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 run-time (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/

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people who reported problems and suggested various improvements in zlib; they
are too numerous to cite here.

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Zstd-jni: JNI bindings to Zstd Library

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(camel-core-reifier.jar, camel-api.jar.jar, camel-core-model.jar, camel-core-processor.jar, camel-management-api.jar, camel-support.jar, camel-util.jar)

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		Iain Davis (iain-davis@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)
		
		Kre?imir 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 Pand?i? (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): co-author (since 2.10)
		
		Louis-Rémi 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 case-insensitive `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 non-padded 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 `LocalDate`, `LocalDateTime` in "strict" (non-lenient) mode (2.10.0) * Implemented #138: Prevent deserialization of "" as `null` for `Duration`, `Instant`, `LocalTime`, `OffsetTime` and `YearMonth` in "strict" (non-lenient) 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 Leinonen-Roeim (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 jsr-310/datetime
   types during serialization when using `@JsonFormat` annotation
  (2.12.0)

Ferenc Csaky (ferenc-csaky@github)
 * Contributed fix to #175: ObjectMapper#setTimeZone ignored by jsr-310/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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Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding,
and transcoding. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to

be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading
support has been removed altogether, and the GIF writer has been simplified
to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

REFERENCES
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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material. Note: the Wallace article is copyright ACM and IEEE,
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A somewhat less technical, more leisurely introduction to JPEG can be found in
"The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by
M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides

		good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here... The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology. If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain. The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83. IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany. IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/ WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France. The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) :

Information technology - Digital compression and coding of continuous-tone
still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
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The "official" archive site for this software is www.ijg.org.
The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsr9c.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
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ACKNOWLEDGMENTS
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Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16)
meeting in Berlin, Germany.

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FILE FORMAT WARS
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The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG,
together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible
with original DCT-based JPEG and are based on faulty technologies.
IJG therefore does not and will not support such momentary mistakes (see REFERENCES).
There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.
We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.
Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their
public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification.
Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only

		application-specific and proprietary use cases and contain mathematically incorrect code. There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code. The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties. We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases. Don't use an obsolete code base! According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent. The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations. IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement. IJG expresses that which already was. The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable. IJG has secured the value for all concerned free people of the planet. A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later. TO DO ===== Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification,

		and is the first true source reference JPEG codec. More features are being prepared for coming releases... Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org. ========== ========== Fourth Party Dependency #2 Name : libz Fourth Party Dependency #2 License : Other FOSS License Fourth Party Dependency #2 Copyright : zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.11, January 15th, 2017 Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software. Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions: 1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required. 2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software. 3. This notice may not be removed or altered from any source distribution. Jean-loup Gailly Mark Adler jloup@gzip.org madler@alumni.caltech.edu
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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
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