

Oracle® Big Data Appliance

Licensing Information User Manual



Release 5.2

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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Preface

This document identifies the licences for the software installed on Oracle Big Data Appliance.

Audience

This document is intended for all owners of Oracle Big Data Appliance.

Documentation Accessibility

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Related Documents

This manual provides licensing information specifically for the release of Oracle Big Data Appliance identified in the title of this manual. The full set of documentation for this release and other releases of the product is available on the Oracle Help Center at <https://docs.oracle.com/en/bigdata/>.

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Oracle Big Data Appliance Software Licensing

Oracle Big Data Appliance is an engineered system optimized for acquiring, organizing, and analyzing big data. It combines optimized hardware components with new software solutions to deliver a complete big data solution.

This chapter describes the licensing and technical support of software installed on Oracle Big Data Appliance. It contains these topics:

- [Big Data Appliance Software Installation](#)
- [Software Licensing](#)

1.1 Big Data Appliance Software Installation

Oracle Big Data Appliance software is installed in two stages:

- [Factory-Installed Image](#)
- [On-Site Software Installation](#)

1.1.1 Factory-Installed Image

The Oracle Linux operating system and various configuration utilities are factory-installed on Oracle Big Data Appliance servers. Your license to use them is included with your purchase of the appliance.

1.1.2 On-Site Software Installation

An Oracle Customer Service Representative downloads all applications software for Oracle Big Data Appliance. Some of this software is included in the Oracle Big Data Appliance licensing agreement, while other software is licensed separately.

You must specify whether to install separately licensed and optional software components when completing the Oracle Big Data Appliance Configuration Generation Utility.

1.2 Software Licensing

This section lists installed software that is covered under the Oracle Big Data Appliance license. It also identifies Oracle software that is included in Oracle Big Data Appliance software deployment bundle, but is licensed separately.

- [Included Software](#)
- [Separately Licensed Software](#)
 - [Oracle Big Data SQL Licensing](#)

- [Oracle Big Data Connectors](#)
- [Oracle Big Data Spatial and Graph](#)
- [Oracle NoSQL Database Enterprise Edition](#)

1.2.1 Included Software

This section summarizes the licensing and support of software included with your purchase of Oracle Big Data Appliance. The licenses are only for use of the software on Oracle Big Data Appliance. You cannot move or copy the software to another system.

Operating System

Software	License	Support
Oracle Linux	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems

Integrated Software

Software	License	Support
Cloudera's Distribution including Apache Hadoop	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems
Cloudera BDR	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems
Cloudera Manager	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems
Cloudera Navigator	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems
Cloudera RTD	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems
Cloudera Search	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems
Apache Kafka	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems

Other Software

Software	License	Support
Java HotSpot Virtual Machine	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems

Software	License	Support
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Oracle NoSQL Database Community Edition	GNU Affero General Public License Version 3 (AGPLv3)	None.
Oracle R Distribution	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems
Oracle DataSource for Apache Hadoop, formerly known as Oracle Table Access for Hadoop (Oracle software for Oracle Big Data Appliance and Oracle Big Data Connectors)	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems

¹ See the *Oracle Software License Agreement ("SLA") and Entitlement for Hardware Systems with Integrated Software Options*

 **Note:**

The Oracle Big Data Appliance Enterprise Manager Plug-In can be installed and used on Oracle Big Data Appliance without additional licensing.

1.2.2 Separately Licensed Software

1.2.2.1 Oracle Big Data SQL Licensing

The licensing for Oracle Big Data SQL is separate from the licensing for other Oracle products.

When you purchase licensing for Oracle Big Data SQL, note the following:

- A separate license must be procured for each Hadoop cluster.
- All data nodes within the Hadoop cluster must be licensed. Partial licensing within a node is not available.
- All disks accessed by Oracle Big Data SQL (either within or outside of the Hadoop cluster) must be licensed. This includes disks used by Kafka or NoSQL stores when Oracle Big Data SQL accesses those sources.
- There is no additional license required for the Oracle Database server side.
- Oracle Copy to Hadoop licensing is included.

- WebLogic Server is included in Oracle Big Data SQL. No additional license is required.
- Oracle Big Data SQL includes a Query Server that is used to query data sources including HDFS, Kafka, NoSQL and object stores. Oracle Big Data SQL includes a restricted use license of Oracle Database for storing metadata (i.e. external tables and views) maintained by the Query Server. No other objects may be created in this Oracle Database.

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ANTLR 4.7.2

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* Providing benchmark suite
* Alec Wysoker
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1.2.2.2 Oracle Big Data Connectors

The licensing for Oracle Big Data Connectors is separate from Oracle Big Data Appliance. You can install Oracle Big Data Connectors on a Hadoop cluster configured on either Oracle Big Data Appliance or commodity hardware.

When you purchase a license for Oracle Big Data Connectors, that license includes all of the following components:

- Oracle Loader for Hadoop
- A restricted use license of Oracle Data Integrator Enterprise Edition
- Oracle R Advanced Analytics for Hadoop
- Oracle SQL Connector for Hadoop Distributed File System
- Oracle XQuery for Hadoop
- Oracle DataSource for Apache Hadoop (formerly named Oracle Table Access for Hadoop)

Oracle Big Data Connectors must be licensed for all processors of a Hadoop cluster. When Oracle Big Data Connectors is installed on a single Hadoop cluster, it must be licensed on all processors. When Oracle Big Data Connectors is installed on multiple Hadoop clusters, it must be licensed on all processors of the clusters where the connectors are used.

For example, you might configure Oracle Big Data Appliance with three, six-node Hadoop clusters:

- Cluster 1 uses the Oracle SQL Connector for HDFS component of Oracle Big Data Connectors.
- Cluster 2 uses the Oracle XQuery for Hadoop component of Oracle Big Data Connectors.
- Cluster 3 does not use any component of Oracle Big Data Connectors.

For this configuration, you must license Oracle Big Data Connectors for the processors on 12 nodes (clusters 1 and 2).

The individual components are available only as part of the Oracle Big Data Connectors license. The components are not licensed individually.

Restricted Use License: Oracle Data Integrator Enterprise Edition as part of Oracle Big Data Connectors is restricted for use on Oracle Big Data Appliance with Cloudera CDH targets or Oracle NoSQL Database targets residing on Oracle Big Data Appliance. Any usage of Oracle Data Integrator outside of Oracle Big Data Appliance requires a full license for Oracle Data Integrator Enterprise Edition.

1.2.2.3 Oracle Big Data Spatial and Graph

The Oracle Big Data Spatial and Graph product is included in the Oracle Big Data Appliance software deployment bundle and is installed automatically by Mammoth. However, the product is licensed separately. An Oracle Big Data Spatial and Graph license must be purchased in order to use this software on Oracle Big Data Appliance, or other supported Hadoop or client systems.

The Oracle Big Data Spatial and Graph license covers the following components:

- Spatial support for vector and raster services on Hadoop
- Property graph support for data access to Apache HBase and Oracle NoSQL Database with indexing, search, and parallel in-memory analytics services.

The spatial and property graph components are available only as part of Oracle Big Data Spatial and Graph. The components are not licensed individually.

You can install Oracle Big Data Spatial and Graph on a Hadoop cluster configured on either Oracle Big Data Appliance or commodity hardware. Additionally, the property graph component can be installed on an Oracle NoSQL Database Enterprise Edition cluster or on Community Edition with Oracle NoSQL Database Community Support configured on Oracle Big Data Appliance or other supported hardware. The property graph component can also be installed on a non-Hadoop client system in order to access supported Hadoop and Oracle NoSQL Database clusters (with or without Hadoop) as database servers.

Oracle Big Data Spatial and Graph must be licensed for all processors of the Hadoop cluster on which it is installed, and/or the Oracle NoSQL Database cluster on which it is installed. All processors of a client system must be licensed for Oracle Big Data Spatial and Graph as well.

For example, you might configure Oracle Big Data Appliance with two, six-node Hadoop clusters and one Oracle NoSQL Database cluster:

- Cluster 1 (Hadoop) uses the spatial services of Oracle Big Data Spatial and Graph.
- Cluster 2 (Hadoop) uses the property graph services of Oracle Big Data Spatial and Graph.
- Cluster 3 (Oracle NoSQL Database) uses the property graph services of Oracle Big Data Spatial and Graph.
- A client system also uses the property graph services of Oracle Big Data Spatial and Graph and accesses property graphs stored on Cluster 2 and/or Cluster 3.

For this configuration, you must license Oracle Big Data Spatial and Graph for the processors on 18 nodes (all three clusters) and on all processors of the client system.

1.2.2.4 Oracle NoSQL Database Enterprise Edition

Oracle NoSQL Enterprise Edition and Oracle NoSQL Community Edition are both included in the Oracle Big Data Appliance software deployment bundle. In the Oracle Big Data Appliance Configuration Utility, you have the option to create either NoSQL clusters or Hadoop clusters.

A separate license is required in order to install Oracle NoSQL Enterprise Edition. A separate license is not required for Community Edition.

Oracle NoSQL Database includes a number of third-party software projects. See [Oracle NoSQL Database Third-Party Licensing Information](#).

1.3 Oracle Big Data Appliance Restrictions on Use as a Condition of Receiving Support

This section describes the restrictions on use of and modification to Oracle Big Data Appliance hardware and software that are conditions of your receiving support for the Oracle Big Data Appliance. These restrictions help to maintain a supportable hardware/software platform. Violating these restrictions can result in the loss of warranty and support.

Be sure to read and understand the restrictions under each of these categories:

- Hardware modifications

- Firmware updates
- Oracle Linux modifications
- Third-party software
- Changes to CDH (Cloudera's Distribution including Apache Hadoop).

Contact Oracle Support if you have questions about these restrictions or about modifications to Oracle Big Data Appliance not discussed in this document.

Restrictions on Hardware Modifications and Replacements

Customers may not modify or replace Oracle Big Data Appliance hardware, with one exception. They may replace the Cisco Ethernet switch that controls the administrative network. The replacement must provide Gigabit Ethernet and at least 48 ports. These are the options:

- 1U in-rack replacement in the Cisco 4948 slot
- 2U in-rack replacement with a TOR (Top Of Rack) switch that supports both 10 GbE (or 40 GbE) and 1 GbE. In racks without a KVM, the TOR can be installed in the empty slots 41 and 42. The Sun Network 10 GbE Switch 72p is recommended. Note that this particular substitution is not possible in Sun Fire X4270 M2-based racks, which have no empty slots.
- Out-of-rack connections from each node to an external switch or panel. The external device must provide two ports for each server node, plus one for each InfiniBand switch and PDU in the Oracle Big Data Appliance rack.

Oracle does not make any provision for these modifications in the Oracle Big Data Appliance Starter, Full, Factory Upgrade, or Field Upgrade rack configurations. Customers must provide their own replacement hardware, perform the replacement, and support the non-standard switch at their own expense

The Cisco 4948 switch has no purpose other than control of the administrative network and can be turned off and removed if replaced.

Restrictions on Firmware Updates

Oracle Big Data Appliance hardware consists of “managed” and “non-managed” components. Firmware levels of managed components are regulated through Mammoth patches and are under tighter control than non-managed components

Firmware Updates for Managed Components

In general, customers may not update the firmware of the following Oracle Big Data Appliance managed components:

- Each server's ILOM/BIOS
- InfiniBand host channel adapters (HCA)
- Disk controller host bus adapters (HBA)
- Hard drives (HDD)

Customers may update firmware ordinarily managed by Mammoth only in cases where the original component failed and was replaced. Customers can use the **bdaupdatefw** utility to bring the firmware level up to (but not beyond) the level of the original Oracle-supplied component. No other method is permitted.

 **See Also:**

Oracle Big Data Appliance Owner's Guide for information about the **bdaupdatefw** utility

Firmware Updates for Non-Managed Components

Customers may update firmware not managed by Mammoth. This includes firmware for the following components:

- Cisco 4948 Ethernet switch (both IOS and firmware)
- InfiniBand switches
- Power Distribution Units (PDUs)
- KVM switch and keyboard, monitor, mouse as needed (Sun Fire X4270 M2-based rack only).

For PDUs and InfiniBand switches, check MOS (My Oracle Support) Document 1528190.1 for supported firmware versions.

 **Note:**

Ensure that InfiniBand firmware stays current with the officially-supported release levels provided in the MOS document 1528190.1.

Restrictions on Oracle Linux Modifications

- Customers may upgrade or update the Oracle Linux kernel, but the upgrade is restricted to a newer version of the same Oracle Linux UEK (Unbreakable Enterprise Kernel) that was shipped with the product. For example, in the case of the UEK2 kernel, updates to newer versions of UEK2 are acceptable. Customers must follow the update procedures provided in the document, [How To Upgrade a Kernel on BDA V4.2 and Higher/V4.1 \(Doc ID 2033797.1\)](#) in My Oracle Support.
- Customers may add official Oracle Linux modules. Oracle Big Data Appliance does not support installation of Linux modules from sources that are not official Oracle Linux repositories. Customers install modules from these sources at their own risk. In addition, Oracle cannot answer questions about such software (before or after installation), and cannot provide assistance if issues arise from installing and using it. If Oracle suspects that the cause of a failure is software from an unofficial source, then Oracle Support will refer the customer to the vendor of the software, or, may ask the customer to remove the software and then reproduce the failure without it.
- Customers may apply Oracle Linux patches obtained from official Oracle Linux sources. Customers are responsible for the application of Oracle Linux security fixes as well as any other available security fixes from official Oracle repositories. Go to MOS (My Oracle Support) for instructions.
- Changing the partition layout on disks of a node of an Oracle Big Data Appliance cluster is not supported.

For clarity, with respect to separate works, including without limitation those in the Operating System, Integrated Software or Integrated Software Options, that are

licensed to you under open source or similar license terms, the restrictions set forth in this section are intended solely as conditions to Oracle's obligations to provide support to you and not as restrictions on your license rights to use such separate works.

Restrictions on Third-Party Software

Customers are responsible for supporting all software on Oracle Big Data Appliance that is not installed by Mammoth. On top of the Mammoth installation, customers may install third-party software that is not supported by Oracle (such as applications, application utilities, and services) with the same caveats that apply to Oracle Linux modifications – support for such software and the consequences of installing and using it are the responsibility of the customer. This includes customer add-ons to components that are installed by Mammoth. In addition, third-party software installed on Oracle Big Data Appliance must comply with the following restrictions:

- Supports 64-bit Oracle Linux on Oracle Big Data Appliance.
- Is directly related to use of Oracle-supported “big data” software installed on the appliance, such as Cloudera's Distribution including Apache Hadoop (CDH) or Oracle NoSQL Database. Software packages that support the health of the system, such as data center monitoring tools, are also acceptable.
- Does not overwrite, update, replace, or invalidate Oracle Big Data Appliance software. See the documentation on the `bdchecksw` utility in the Oracle Big Data Appliance Owner's Guide for instructions on how to confirm post-installation integrity.
- Does not consume system resources to a degree that adversely affects the performance of Oracle Linux, CDH, or Oracle NoSQL Database.

Regarding Storage of Non-HDFS Data

Customers are not restricted from use of `/uNN` data partitions within nodes of a CDH cluster for their own non-HDFS data. However, the following caveats apply:

- Use of these partitions will reduce space available for HDFS data.
- These partitions are not mirrored or redundant. Any data stored is subject to data loss if a disk fails. This storage should be limited to non-HDFS data that is replicated or can be regenerated.
- Oracle recommends that you do not use `/u01` and `/u02` on the first three nodes of a cluster for heavy I/O workloads. These disks are used by critical HDFS and Zookeeper roles.

Regarding use of the Oracle Big Data Appliance MySQL Installation

The MySQL instance on Oracle Big Data Appliance is specifically intended for internal use by the appliance only. No support is provided for using it for other purposes and use of MySQL outside of the intended purpose may interfere with future updates to the software.

Restrictions on Changes to CDH

The following actions may interfere with CDH functionality and are therefore restricted.

- Moving CDH services from their Mammoth-installed locations.

Customers may not move CDH services from one server to another using Cloudera Manager or any other means. These services, such as NameNode and JobTracker, must remain on the servers where they were installed by the

Mammoth utility. The one exception to this rule is a move to recover from a node failure. Customers may use Mammoth node migration to move CDH services in this case.

- Installing Oracle NoSQL Database on HDFS nodes

Customers may not de-allocate disk drives from HDFS for reallocation to Oracle NoSQL Database or for any other reason. Oracle does not support an installation of CDH where the HDFS drive configuration on the Oracle Big Data Appliance has been modified by the customer. For more details on installing Oracle NoSQL Database on HDFS nodes, contact Oracle Support.

Other Restrictions

- Customers may not connect USB devices to Oracle Big Data Appliance servers except for the purposes documented in the Oracle Big Data Appliance Owner's Guide.
- Network ports on Big Data Appliance servers may not connect to external non-Sun servers using the Fibre Channel over Ethernet (FCoE) protocol. However, NFS and iSCSI connections to external non-Sun servers are supported.
- Customers may not connect third-party switching devices to the InfiniBand network. Only switches supported in Oracle Engineered Systems may be connected to the InfiniBand network. If you are not sure that a switch meets this requirement, contact Oracle Support.

2

Cloudera Third-Party Licenses

This chapter lists the third-party licenses for the Cloudera software installed on Oracle Big Data Appliance.

This chapter contains the following sections:

- [Cloudera's Distribution including Apache Hadoop \(CDH\)](#)
- [Cloudera Manager](#)
- [Cloudera Key Trustee](#)

 **See Also:**

Cloudera Third-Party Licenses at

<http://www.cloudera.com/content/cloudera-content/cloudera-docs/Licenses/Third-Party-Licenses/Third-Party-Licenses.html>

2.1 Cloudera's Distribution including Apache Hadoop (CDH)

Third-party license attributions for CDH 6.3.x are available on Cloudera's website and are replicated below.

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Bitshuffle - Filter for improving compression of typed binary data.

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The primary ANTLR guy:

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Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi).

It was started at Ning, inc., as an official Open Source process used by platform backend, but after initial versions has been developed outside of

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Other contributors include:

- * Jon Hartlaub (first versions of streaming reader/writer; unit tests)
- * Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor

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- * javax.annotation:javax.annotation-api
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- * javax.websocket:javax.websocket-api

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org.ow2.asm:asm
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MySQL for Python 1.2.5

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Argparse 1.4.0

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1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
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node-deep-extend

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*  
stdio.c  
by Mark Gates <mgates@nlanr.net>  
and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>  
-----  
input and output numbers, converting with kilo, mega, giga  
----- */  
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c3 0.4.10  
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Gridster.js 0.5.2; 0.5.6

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Guppy 0.1.10

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netifaces 0.8; 0.10.5  
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threadpool 1.2.7; 1.3.2  
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Mojosetup includes liblzma

XZ Utils Licensing

3 =====

4

5 Different licenses apply to different files in this package.

Here

6 is a rough summary of which licenses apply to which parts of

```
this
 7      package (but check the individual files to be sure!):
 8
 9      - liblzma is in the public domain.
10
11      - xz, xzdec, and lzmadec command line tools are in the public
12        domain unless GNU getopt_long had to be compiled and linked
13        in from the lib directory. The getopt_long code is under
14        GNU LGPLv2.1+.
15
16      - The scripts to grep, diff, and view compressed files have
been
17        adapted from gzip. These scripts and their documentation
are
18        under GNU GPLv2+.
19
20      - All the documentation in the doc directory and most of the
21        XZ Utils specific documentation files in other directories
22        are in the public domain.
23
24      - Translated messages are in the public domain.
25
26      - The build system contains public domain files, and files
that
27        are under GNU GPLv2+ or GNU GPLv3+. None of these files
end up
28        in the binaries being built.
29
30      - Test files and test code in the tests directory, and
debugging
31        utilities in the debug directory are in the public domain.
32
33      - The extra directory may contain public domain files, and
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34        that are under various free software licenses.
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47        naturally it is not legally required. Here is an example of a
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49
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51
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58     pieces that are copyrighted. Thus, it is possible that e.g.
liblzma
59     binary wouldn't actually be in the public domain in its
entirety
60     even though it contains no copyrighted code from the XZ Utils
source
61     package.
62
63     If you have questions, don't hesitate to ask the author(s) for
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64     information.
```

```
----- */
```

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Last updated 02 April 2013

The Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 6 README FILE accompanies the distribution:

Unlimited Strength Java(TM) Cryptography Extension Policy Files  
for the Java(TM) Platform, Standard Edition Development Kit, v6

## README

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### CONTENTS

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- o Introduction
- o Copyright
- o Understanding The Export/Import Issues
- o Where To Find Documentation
- o Installation
- o Questions, Support, Reporting Bugs, and Feedback

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### Introduction

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Thank you for downloading the Unlimited Strength Java(TM) Cryptography Extension (JCE) Policy Files for the Java(TM) Platform, Standard Edition Development Kit, v6.

Due to import control restrictions, the version of JCE policy files that are bundled in the JDK(TM) 6 environment allow "strong" but limited cryptography to be used. This download bundle (the one including this README file) provides "unlimited strength" policy files which contain no restrictions on cryptographic strengths.

Please note that this download file does NOT contain any encryption functionality since such functionality is supported in Sun's JDK 6. Thus, this installation applies only to Sun's JDK 6, and assumes that the JDK 6 is already installed.

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### Copyright

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Understanding The Export/Import Issues  
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JCE for JDK 6 has been through the U.S. export review process. The JCE framework, along with the SunJCE provider that comes standard with it, is exportable.

The JCE architecture allows flexible cryptographic strength to be configured via jurisdiction policy files. Due to the import restrictions of some countries, the jurisdiction policy files distributed with the JDK 6 software have built-in restrictions on available cryptographic strength. The jurisdiction policy files in this download bundle (the bundle including this README file) contain no restrictions on cryptographic strengths. This is appropriate for most countries. Framework vendors can create download bundles that include jurisdiction policy files that specify cryptographic restrictions appropriate for countries whose governments mandate restrictions. Users in those countries can download an appropriate bundle, and the JCE framework will enforce the specified restrictions.

You are advised to consult your export/import control counsel or attorney to determine the exact requirements.

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Where To Find Documentation  
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The following documents will be of interest to you:

- o The Java(TM) Cryptography Architecture (JCA) Reference Guide at:  
  
<http://java.sun.com/javase/6/docs/technotes/guides/security/crypto/CryptoSpec.html>
- o The Java Security web site has more information about JCE, plus additional information about the Java Security Model. Please see:  
  
<http://java.sun.com/products/jce/>  
<http://java.sun.com/security/>

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Installation  
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Notes:

- o Unix (Solaris/Linux) and Win32 use different pathname separators, so please use the appropriate one ("\", "/") for your environment.

- o <java-home> refers to the directory where the Java SE Runtime Environment (JRE) was installed. It is determined based on whether you are running JCE on a JRE with or without the JDK installed. The JDK contains the JRE, but at a different level in the file hierarchy. For example, if the JDK is installed in /home/user1/jdk1.6.0 on Unix or in C:\jdk1.6.0 on Win32, then <java-home> is

```

/home/user1/jdk1.6.0/jre          [Unix]
C:\jdk1.6.0\jre                 [Win32]

```

If on the other hand the JRE is installed in /home/user1/jre1.6.0 on Unix or in C:\jre1.6.0 on Win32, and the JDK is not installed, then <java-home> is

```

/home/user1/jre1.6.0            [Unix]
C:\jre1.6.0                    [Win32]

```

- o On Win32, for each JDK installation, there may be an additional JRE installed under the "Program Files" directory. Please make sure that you install the unlimited strength policy JAR files for all JREs that you plan to use.

Here are the installation instructions:

- 1) Download the unlimited strength JCE policy files.
- 2) Uncompress and extract the downloaded file.

This will create a subdirectory called jce.  
This directory contains the following files:

|                      |                                          |
|----------------------|------------------------------------------|
| README.txt           | This file                                |
| COPYRIGHT.html       | Copyright information                    |
| local_policy.jar     | Unlimited strength local policy file     |
| US_export_policy.jar | Unlimited strength US export policy file |

- 3) Install the unlimited strength policy JAR files.

To utilize the encryption/decryption functionalities of the JCE framework without any limitation, first make a copy of the original JCE policy files (US\_export\_policy.jar and local\_policy.jar in the standard place for JCE jurisdiction policy JAR files) in case you later decide to revert to these "strong" versions. Then replace the strong policy files with the unlimited strength versions extracted in the previous step.

The standard place for JCE jurisdiction policy JAR files is:

```

<java-home>/lib/security        [Unix]
<java-home>\lib\security        [Win32]

```

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Questions, Support, Reporting Bugs, and Feedback  
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Questions  
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For miscellaneous questions about JCE usage and deployment, we encourage you to read:

- o Information on the JCE web site  
<http://java.sun.com/products/jce>
- o The Java Security Q&A Archives  
<http://archives.java.sun.com/archives/java-security.html>
- o The Java Developer Connection(SM) forums. These discussion forums allow you to tap into the experience of other users, ask questions, or offer tips to others on a variety of Java-related topics including JCE. There is no fee to participate.  
<http://forum.java.sun.com/>

Support  
-----

For more extensive JCE questions or deployment issues, please contact our Technical Support staff at:

<http://developers.sun.com/prodtech/support/>

Please be aware that we may be barred from offering technical support specifically regarding encryption implementations of the JCE APIs to people outside the U.S. or Canada, according to U.S. regulations.

Reporting Bugs  
-----

To report bugs with sample code or request a feature, please see:

<http://java.sun.com/cgi-bin/bugreport.cgi>

Bug reports with test cases are highly appreciated!

Feedback  
-----

Please e-mail general comments about JCE to:

java-security@sun.com

The above mailing list is not a subscription list or a support mechanism. It is simply a one-way channel that you can use to send comments to the Java Standard Edition security team. Please include the keyword "JAVASEC" in the Subject of your email so it can be distinguished from spam.

Though we value your input, before sending your feedback please review our pages of Frequently Asked Questions, available from the JCE web site:

<http://java.sun.com/products/jce>

and search the Java Security Q&A Archives:

<http://archives.java.sun.com/archives/java-security.html>

Please note that due to the volume of messages we receive, we may not be able to respond to every individual message.

For other comments/suggestions concerning the web sites please use the feedback form at:

<http://java.sun.com/feedback/index.html>

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The Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 7 README FILE accompany the distribution:

Unlimited Strength Java(TM) Cryptography Extension Policy Files  
for the Java(TM) Platform, Standard Edition Runtime Environment 7  
README

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- o Understanding The Export/Import Issues
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- o Installation
- o Questions, Support, Reporting Bugs

-----  
Introduction  
-----

Thank you for downloading the Unlimited Strength Java(TM) Cryptography Extension (JCE) Policy Files for the Java(TM) Platform, Standard

Edition (Java SE) Runtime Environment 7.

Due to import control restrictions of some countries, the version of the JCE policy files that are bundled in the Java Runtime Environment, or JRE(TM), 7 environment allow "strong" but limited cryptography to be used. This download bundle (the one including this README file) provides "unlimited strength" policy files which contain no restrictions on cryptographic strengths.

Please note that this download file does NOT contain any encryption functionality as all such functionality is contained within Oracle's JRE 7. This bundles assumes that the JRE 7 has already been installed.

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<http://www.oracle.com/technetwork/java/javase/documentation/index.html>

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Understanding The Export/Import Issues  
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JCE for Java SE 7 has been through the U.S. export review process. The JCE framework, along with the various JCE providers that come standard with it (SunJCE, SunEC, SunPKCS11, SunMSCAPI, etc), is exportable.

The JCE architecture allows flexible cryptographic strength to be configured via jurisdiction policy files. Due to the import restrictions of some countries, the jurisdiction policy files distributed with the Java SE 7 software have built-in restrictions on available cryptographic strength. The jurisdiction policy files in this download bundle (the bundle including this README file) contain no restrictions on cryptographic strengths. This is appropriate for most countries. Framework vendors can create download bundles that include jurisdiction policy files that specify cryptographic restrictions appropriate for countries whose governments mandate restrictions. Users in those countries can download an appropriate bundle, and the JCE framework will enforce the specified restrictions.

You are advised to consult your export/import control counsel or attorney to determine the exact requirements.

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Where To Find Documentation  
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The following documents may be of interest to you:

- o The Java(TM) Cryptography Architecture (JCA) Reference Guide at:

<http://download.oracle.com/javase/7/docs/technotes/guides/security>

- o The Java SE Security web site has more information about JCE, plus additional information about the Java SE Security Model. Please see:

<http://www.oracle.com/technetwork/java/javase/tech/index-jsp-136007.html>

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## Installation

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### Notes:

- o Unix (Solaris/Linux) and Windows use different pathname separators, so please use the appropriate one ("\", "/") for your environment.
- o <java-home> (below) refers to the directory where the JRE was installed. It is determined based on whether you are running JCE on a JRE or a JRE contained within the Java Development Kit, or JDK(TM). The JDK contains the JRE, but at a different level in the file hierarchy. For example, if the JDK is installed in /home/user1/jdk1.7.0 on Unix or in C:\jdk1.7.0 on Windows, then <java-home> is:

|                          |           |
|--------------------------|-----------|
| /home/user1/jdk1.7.0/jre | [Unix]    |
| C:\jdk1.7.0\jre          | [Windows] |

If on the other hand the JRE is installed in /home/user1/jre1.7.0 on Unix or in C:\jre1.7.0 on Windows, and the JDK is not installed, then <java-home> is:

|                      |           |
|----------------------|-----------|
| /home/user1/jre1.7.0 | [Unix]    |
| C:\jre1.7.0          | [Windows] |

- o On Windows, for each JDK installation, there may be additional JREs installed under the "Program Files" directory. Please make sure that you install the unlimited strength policy JAR files for all JREs that you plan to use.

Here are the installation instructions:

- 1) Download the unlimited strength JCE policy files.
- 2) Uncompress and extract the downloaded file.

This will create a subdirectory called jce.

This directory contains the following files:

|                      |                                          |
|----------------------|------------------------------------------|
| README.txt           | This file                                |
| local_policy.jar     | Unlimited strength local policy file     |
| US_export_policy.jar | Unlimited strength US export policy file |

3) Install the unlimited strength policy JAR files.

In case you later decide to revert to the original "strong" but limited policy versions, first make a copy of the original JCE policy files (US\_export\_policy.jar and local\_policy.jar). Then replace the strong policy files with the unlimited strength versions extracted in the previous step.

The standard place for JCE jurisdiction policy JAR files is:

|                          |           |
|--------------------------|-----------|
| <java-home>/lib/security | [Unix]    |
| <java-home>\lib\security | [Windows] |

-----  
Questions, Support, Reporting Bugs  
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Questions  
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For miscellaneous questions about JCE usage and deployment, we encourage you to read:

- o Information on the Java SE Security web site

<http://www.oracle.com/technetwork/java/javase/tech/index-jsp-136007.html>

- o The Oracle Online Community Forums, specifically the Java Cryptography forum. The forums allow you to tap into the experience of other users, ask questions, or offer tips to others on a variety of Java-related topics, including JCE. There is no fee to participate.

<http://forums.oracle.com/>  
<http://forums.oracle.com/forums/forum.jspa?forumID=964> (JCE forum)

Support  
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For more extensive JCE questions or deployment issues, please contact our Technical Support staff at:

<http://support.oracle.com>

Reporting Bugs  
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To report bugs (with sample code) or request a feature, please see:

<http://bugreport.sun.com/bugreport/>

Bug reports with specific, reproducible test cases are greatly appreciated!

END OF Java Cryptography Extension (JCE) Unlimited Strength  
Jurisdiction Policy Files 7 README FILE

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Meld3 1.0.2

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D3.js 3.5.3

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Rickshaw 1.4.6

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Last updated 02 April 2013

The Oracle Java Development Kit 6 includes the Oracle Java Runtime Environment 6 also received under the Oracle Binary License Agreement and includes the following Oracle Java Runtime Environment 6 README:

#### README

Java™ Platform, Standard Edition 6  
Development Kit  
JDK™6

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#### Introduction

Thank you for downloading this release of the Java™ Platform, Standard Edition Development Kit (JDK™). The JDK is a development environment for building applications, applets, and components using the Java programming language.

The JDK includes tools useful for developing and testing programs written in the Java programming language and running on the Java™ platform.

## System Requirements & Installation

System requirements, installation instructions and troubleshooting tips are located on the Java Software web site at:

JDK 6 Installation Instructions

JDK TM Documentation

The on-line Java TM Platform, Standard Edition (Java SE) Documentation contains API specifications, feature descriptions, developer guides, reference pages for JDK TM tools and utilities, demos, and links to related information. This documentation is also available in a download bundle which you can install on your machine. To obtain the documentation bundle, see the download page. For API documentation, refer to the The Java TM Platform, Standard Edition API Specification. This provides brief descriptions of the API with an emphasis on specifications, not on code examples.

Release Notes

See the Java SE 6 Release Notes on the Java Software web site for additional information pertaining to this release. Please check the on-line release notes occasionally for the latest information as they will be updated as needed.

Compatibility

See Compatibility with Previous Releases on the Java Software web site for the list of known compatibility issues. Every effort has been made to support programs written for previous versions of the Java TM platform. Although some incompatible changes were necessary, most software should migrate to the current version with no reprogramming. Any failure to do so is considered a bug, except for a small number of cases where compatibility was deliberately broken, as described on our compatibility web page. Some compatibility-breaking changes were required to close potential security holes or to fix implementation or design bugs.

Bug Reports and Feedback

The Bug Database web site lets you search for and examine existing bug reports, submit your own bug reports, and tell us which bug fixes matter most to you. To directly submit a bug or request a feature, fill out this form:

<http://bugs.sun.com/services/bugreport/index.jsp>

You can send feedback to the Java SE documentation team. You can also send comments directly to Java Software engineering team email addresses.

Note - Please do not seek technical support through the Bug Database or our development teams.

Contents of the JDK TM

This section contains a general summary of the files and directories in the JDK TM . For details on the files and directories, see the JDK File Structure section of the Java SE documentation for your platform.

Development Tools

(In the bin/ subdirectory) Tools and utilities that will help you develop, execute, debug, and document programs written in the Java TM programming language. For further information, see the tool documentation.

Runtime Environment

(In the jre/ subdirectory) An implementation of the Java Runtime Environment (JRE TM ) for use by the JDK. The JRE includes a Java TM Virtual Machine (JVM TM ), class libraries, and other files that

support the execution of programs written in the Java™ programming language.

#### Additional Libraries

(In the lib/ subdirectory) Additional class libraries and support files required by the development tools.

#### Demo Applets and Applications

(In the demo/ subdirectory) Examples, with source code, of programming for the Java™ platform. These include examples that use Swing and other Java™ Foundation Classes, and the Java™ Platform Debugger Architecture.

#### Sample Code

(In the sample subdirectory) Samples, with source code, of programming for certain Java API's.

#### C header Files

(In the include/ subdirectory) Header files that support native-code programming using the Java Native Interface, the JVM™ Tool Interface, and other functionality of the Java™ platform.

#### Source Code

(In src.zip) Java™ programming language source files for all classes that make up the Java core API (that is, sources files for the java.\*, javax.\* and some org.\* packages, but not for com.sun.\* packages). This source code is provided for informational purposes only, to help developers learn and use the Java™ programming language. These files do not include platform-specific implementation code and cannot be used to rebuild the class libraries. To extract these file, use any common zip utility. Or, you may use the Jar utility in the JDK's bin/ directory:

```
jar xvf src.zip
```

The Java Runtime Environment (JRE™)

The Java™ Runtime Environment (JRE™) is available as a separately downloadable product. See the download web site.

The JRE allows you to run applications written in the Java™ programming language. Like the JDK™, it contains the Java™ Virtual Machine (JVM™), classes comprising the Java™ platform API, and supporting files. Unlike the JDK, it does not contain development tools such as compilers and debuggers.

You can freely redistribute the JRE with your application, according to the terms of the JRE license. Once you have developed your application using the JDK, you can ship it with the JRE so your end-users will have a Java™ platform on which to run your software.

#### Redistribution

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#### Required vs. Optional Files

The files that make up the Java TM Development Kit (JDK TM ) are divided into two categories: required and optional. Optional files may be excluded from redistributions of the JDK at the vendor's discretion. The following section contains a list of the files and directories that may optionally be omitted from redistributions of the JDK. All files not in these lists of optional files must be included in redistributions of the JDK.

#### Optional Files and Directories

The following files may be optionally excluded from redistributions. These files are located in the `jdk1.6.0_<version>` directory, where `<version>` is the update version number. Solaris TM and Linux filenames and separators are shown. Windows executables have the ".exe" suffix. Corresponding files with `_g` in the name can also be excluded. The corresponding man pages should be excluded for any excluded executables (with paths listed below beginning with `bin/`, for the Solaris TM Operating System and Linux).

`jre/lib/charsets.jar`

Character conversion classes

`jre/lib/ext/`

`sunjce_provider.jar` - the SunJCE provider for Java Cryptography APIs

`localedata.jar` - contains many of the resources needed for non US English locales

`ldapsec.jar` - contains security features supported by the LDAP service provider

`dnsns.jar` - for the InetAddress wrapper of JNDI DNS provider

`bin/rmid` and `jre/bin/rmid`

Java RMI Activation System Daemon

`bin/rmiregistry` and `jre/bin/rmiregistry`

Java Remote Object Registry

`bin/tnameserv` and `jre/bin/tnameserv`

Java IDL Name Server

`bin/keytool` and `jre/bin/keytool`

Key and Certificate Management Tool

bin/kinit and jre/bin/kinit  
Used to obtain and cache Kerberos ticket-granting tickets

bin/klist and jre/bin/klist  
Kerberos display entries in credentials cache and keytab

bin/ktab and jre/bin/ktab  
Kerberos key table manager

bin/policytool and jre/bin/policytool  
Policy File Creation and Management Tool

bin/orbd and jre/bin/orbd  
Object Request Broker Daemon

bin/servertool and jre/bin/servertool  
Java IDL Server Tool

bin/javaws, jre/bin/javaws, jre/lib/javaws/ and jre/lib/javaws.jar  
Java Web Start

db/  
Java DB, Oracle's distribution of the Apache Derby database (only with file based distributions of the JDK).

demo/  
Demo Applets and Applications

sample/  
Sample Code

src.zip  
Archive of source files

Redistributable JDK TM Files  
The limited set of files and directories from the JDK listed below may be included in vendor redistributions of the Java TM Runtime Environment (JRE TM ). They cannot be redistributed separately, and must accompany an identically versioned JRE distribution. All paths are relative to the top-level directory of the JDK. The corresponding man pages should be included for any included executables (with paths listed below beginning with bin/, for the Solaris TM Operating System and Linux).

jre/lib/cmm/PYCC.pf  
Color profile. This file is required only if one wishes to convert between the PYCC color space and another color space.

All .ttf font files in the jre/lib/fonts/ directory.  
Note that the LucidaSansRegular.ttf font is already contained in the JRE, so there is no need to bring that file over from the JDK.

jre/lib/audio/soundbank.gm  
This MIDI soundbank is present in the JDK, but it has been removed from the JRE in order to reduce the size of the JRE download bundle. However, a soundbank file is necessary for MIDI playback, and therefore the JDK's soundbank.gm file may be included in redistributions of the JRE at the vendor's discretion. Several versions of enhanced MIDI soundbanks are available from the Java Sound web site: [here](#). These alternative soundbanks may be included in redistributions of the JRE.

The javac bytecode compiler, consisting of the following files:  
bin/javac [Solaris TM Operating System and Linux]  
bin/sparcv9/javac [Solaris TM Operating System (SPARC(R) Platform Edition)]  
bin/amd64/javac [Solaris TM Operating System (AMD)]  
bin/javac.exe [Microsoft Windows]  
lib/tools.jar [All platforms]

The Annotation Processing Tool, consisting of the following files:  
lib/tools.jar [All platforms]

bin/apt [Solaris™ Operating System and Linux]  
bin/sparcv9/apt [Solaris™ Operating System (SPARC(R) Platform Edition)]  
bin/amd64/apt [Solaris™ Operating System (AMD)]  
bin/apt.exe [Microsoft Windows]  
lib/jconsole.jar  
The Jconsole application. NOTE: The Jconsole application requires the dynamic attach mechanism.  
The dynamic attach mechanism consisting of the following files:  
lib/tools.jar [All platforms]  
jre/lib/sparc/libattach.so [Solaris™ Operating System (SPARC(R) Platform Edition) and Linux]  
jre/lib/sparcv9/libattach.so [Solaris™ Operating System (SPARC(R) Platform Edition) and Linux]  
jre/lib/i386/libattach.so [Solaris™ Operating System (x86) and Linux]  
jre/lib/amd64/libattach.so [Solaris™ Operating System (AMD) and Linux]  
jre\bin\attach.dll [Microsoft Windows]  
The Java Platform Debugger Architecture implementation consisting of the files shown in the dynamic attach section above, and the following files:  
lib/tools.jar [All platforms]  
lib/sa-jdi.jar [All platforms]  
jre/lib/sparc/libsaproc.so [Solaris™ Operating System (SPARC(R) Platform Edition) and Linux]  
jre/lib/sparcv9/libsaproc.so [Solaris™ Operating System (SPARC(R) Platform Edition) and Linux]  
jre/lib/i386/libsaproc.so [Solaris™ Operating System (x86) and Linux]  
jre/lib/amd64/libsaproc.so [Solaris™ Operating System (AMD) and Linux]  
jre\bin\server\  
On Microsoft Windows platforms, the JDK includes both the Java HotSpot™ Server VM and Java HotSpot™ Client VM. However, the JRE for Microsoft Windows platforms includes only the Java HotSpot™ Client VM. Those wishing to use the Java HotSpot™ Server VM with the JRE may copy the JDK's jre\bin\server folder to a bin\server directory in the JRE. Software vendors may redistribute the Java HotSpot™ Server VM with their redistributions of the JRE.  
Unlimited Strength Java Cryptography Extension  
Due to import control restrictions for some countries, the Java Cryptography Extension (JCE) policy files shipped with the JDK and the JRE allow strong but limited cryptography to be used. These files are located at  
  
<java-home>/lib/security/local\_policy.jar  
<java-home>/lib/security/US\_export\_policy.jar

where <java-home> is the jre directory of the JDK or the top-level directory of the JRE.

An unlimited strength version of these files indicating no restrictions on cryptographic strengths is available on the JDK web site for those living in eligible countries. Those living in eligible countries may download the unlimited strength version and replace the strong cryptography jar files with the unlimited strength files.  
The cacerts Certificates File

Root CA certificates may be added to or removed from the Java SE certificate file located at `<java-home>/lib/security/cacerts`. For more information, see The `cacerts` Certificates File section in the `keytool` documentation.

#### Java Endorsed Standards Override Mechanism

From time to time it is necessary to update the Java platform in order to incorporate newer versions of standards that are created outside of the Java Community Process SM (JCP SM <http://www.jcp.org/>) ( Endorsed Standards), or in order to update the version of a technology included in the platform to correspond to a later standalone version of that technology ( Standalone Technologies).

The Endorsed Standards Override Mechanism provides a means whereby later versions of classes and interfaces that implement Endorsed Standards or Standalone Technologies may be incorporated into the Java Platform.

For more information on the Endorsed Standards Override Mechanism, including the list of platform packages that it may be used to override, see [here](#)

#### Java DB

This distribution bundles Java DB, Oracle's distribution of the Apache Derby pure Java database technology. Default installation locations are:

Solaris: `/opt/SUNWjavadb`

Linux: `/opt/sun/javadb`

Windows: `C:\Program Files\Sun\JavaDB`

For information on Java DB and Derby, including user and API documentation, the capabilities of Java DB and further resources, see the `index.html` file in the above directories.

Note that file based distributions of the JDK on Solaris and Linux include Java DB in the `${JAVA_HOME}/db` directory.

#### Web Pages

For additional information, see the following web pages:

Oracle's Java site

The Java Software web site, with the latest information on Java technology, product information, news, and features.

The Java<sup>®</sup> Development Kit (JDK) is a product of Oracle.

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#### Java<sup>®</sup> SE Embedded 6 Update 34 Runtime Environment README

Thank you for choosing Java<sup>®</sup> SE Embedded for your embedded system. Java SE Embedded 6 Update 34 is based on Java Development Kit 6 Update 34 (JDK 6u34) and provides specific features and support for embedded systems.

This document provides details about the Java Runtime Environment (JRE<sup>®</sup>) of Java SE Embedded 6. The Java Runtime Environment contains the Java virtual machine, runtime class libraries, and Java application launcher that are necessary to run programs written in the Java programming language. It is not a development environment and does not contain development tools such as compilers or debuggers. For development tools, see the Java Development Kit (JDK<sup>®</sup>) Tools and

Utilities documentation.

Important:

\* To ensure that you have the most recent update of the technical documents for Java SE Embedded, check the latest versions on the Java SE Embedded Product Documentation web site.

\* Be sure to read the Release Notes for Java SE Embedded 6 Update 34. See also the JDK 6 Release Notes for release information on the JDK 6 platform.

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Installation Notes

The Java SE Embedded technology included in this package can be installed using the gunzip and tar utilities.

To install Java SE Embedded on your system, download the files onto your system and uncompress the binary files with the following commands:  
gunzip <name of the downloaded file>

tar xvf <name of the downloaded file>

The directory ejrel.6.0\_34 will be created in your current directory and populated with the entire JRE release. This installation directory, <current-directory>/ejrel.6.0\_34, will be hereafter referred to as <JAVA\_HOME>.

Add <JAVA\_HOME>/bin to your PATH environment variable setting in order to run the Java binaries.

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Platform Support

This release of Java SE Embedded 6 Update 34 was tested on Linux for ARM, Power Architecture and x86 systems. The requirements of these systems are specified at Java SE Embedded System Requirements. For ARM, testing was done on the v5, v6 and v7 architectures. Power Architecture systems based on e600 core and e500v2 core architectures were tested. Headless mode was tested on all systems; headful mode was tested on ARMv7.

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Contact Us

For any inquiries related to the Java SE Embedded product, please contact the Java SE Embedded team.

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Oracle Java Development Kit 7

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Last updated 02 April 2013

The Oracle Java Development Kit 7 includes the Oracle Java Runtime Environment 7 also received under the Oracle Binary License Agreement and includes the following Oracle Java Runtime Environment 6 README:

README  
Java™ Platform, Standard Edition 7  
Development Kit

JDK 7

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### Introduction

Thank you for downloading this release of the Java Platform, Standard Edition Development Kit (JDK). The JDK is a development environment for building applications, applets, and components using the Java programming language.

The JDK includes tools useful for developing and testing programs written in the Java programming language and running on the Java platform.

### System Requirements & Installation

System requirements, installation instructions and troubleshooting tips are located on the Java Platform web site at:

### Installation Instructions

### JDK Documentation

The on-line Java Platform, Standard Edition (Java SE) Documentation contains API specifications, feature descriptions, developer guides, reference pages for JDK tools and utilities, demos, and links to related information. The Java SE documentation is also available in a download bundle which you can install on your machine. To obtain the documentation bundle, see the download page. For API documentation, refer to the The Java Platform, Standard Edition API Specification. This documentation provides brief descriptions of the API with an emphasis on specifications, not on code examples.

### Release Notes

See the Release Notes on the Java Platform web site for additional information pertaining to this release. Please check the on-line release notes occasionally for the latest information as they will be updated as needed.

### Compatibility

See Compatibility with Previous Releases on the Java Platform web site for the list of known compatibility issues. Every effort has been made to support programs written for previous versions of the Java platform. Although some incompatible changes were necessary, most software should migrate to the current version with no reprogramming. Any failure to do so is considered a bug, except for a small number of cases where compatibility was deliberately broken, as described on our compatibility web page. Some compatibility-breaking changes were required to close potential security holes or to fix implementation or design bugs.

### Bug Reports and Feedback

The JDK Bug Database web site lets you search for and examine existing bug reports, submit your own bug reports, and tell us which bug fixes

matter most to you. To directly submit a bug or request a feature, fill out this form:

<http://bugreport.sun.com/bugreport/>

You can send feedback to the Java SE documentation team.

Note - Please do not seek technical support through the Bug Database or our development teams. For support options, see Support and Services on Oracle Support web site.

Contents of the JDK

This section contains a general summary of the files and directories in the JDK. For details on the files and directories, see the File Structure section of the Java SE documentation for your platform.

Development Tools

(In the bin/ subdirectory) Tools and utilities that will help you develop, execute, debug, and document programs written in the Java programming language. For further information, see the tools documentation.

Runtime Environment

(In the jre/ subdirectory) An implementation of the Java Runtime Environment (JRE) for use by the JDK. The JRE includes a Java Virtual Machine (JVM), class libraries, and other files that support the execution of programs written in the Java programming language.

Additional Libraries

(In the lib/ subdirectory) Additional class libraries and support files required by the development tools.

Java DB

(In the db/ subdirectory) Java DB, Oracle's distribution of the Apache Derby relational database. For further information, see the documentation.

C header Files

(In the include/ subdirectory) Header files that support native-code programming using the Java Native Interface, the JVM Tool Interface, and other functionality of the Java platform.

Source Code

(In src.zip) Java programming language source files for all classes that make up the Java core API (that is, sources files for the java.\*, javax.\* and some org.\* packages, but not for com.sun.\* packages). This source code is provided for informational purposes only, to help developers learn and use the Java programming language. These files do not include platform-specific implementation code and cannot be used to rebuild the class libraries. To extract these file, use any common zip utility. Or, you may use the Jar utility in the JDK's bin/ directory:

```
jar xvf src.zip
```

JavaFx Tools

Various tools specific to JavaFX are included.

JavaFX packaging tool

bin/javafxpackager.exe

Documentation for JavaFX packager

man/man1/javafxpackager.1 [Mac OS X, Linux]  
man/ja\_JP.UTF-8/man1/javafxpackager.1 [Linux]  
JavaFX packager ant tasks  
lib/ant-javafx.jar  
JavaFX doclet for javadoc  
lib/javafx-doclet.jar  
JavaFX support jar for JMX  
lib/javafx-mx.jar

The Java<sup>®</sup> Runtime Environment (JRE<sup>®</sup>)

The Java Runtime Environment (JRE) is available as a separately downloadable product. See the download web site.

The JRE allows you to run applications written in the Java programming language. Like the JDK, it contains the Java Virtual Machine (JVM), classes comprising the Java platform API, and supporting files. Unlike the JDK, it does not contain development tools such as compilers and debuggers.

You can freely redistribute the JRE with your application, according to the terms of the JRE license. Once you have developed your application using the JDK, you can ship it with the JRE so your end-users will have a Java platform on which to run your software.

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Required vs. Optional Files

The files that make up the Java Runtime Environment (JRE) are divided into two categories: required and optional. Optional files may be excluded from redistributions of the JRE at the vendor's discretion. The following section contains a list of the files and directories that may optionally be omitted from redistributions of the JRE. All files not in these lists of optional files must be included in redistributions of the JRE.

Optional Files and Directories

On JDK installations, the JRE directory, containing the redistributable portions, is located in the jdk1.7.0\_<version>/jre directory, where <version> is the update version number.

Solaris<sup>®</sup> and Linux filenames and separators are shown. Windows executables have the ".exe" suffix. Corresponding files with \_g in the name can also be excluded. The corresponding man pages should be excluded for any excluded executables (with paths listed below beginning with bin/, for the Solaris Operating System and Linux). The following files and directories may be optionally excluded from redistributions.

bin/server/\* [Microsoft Windows. Available on JDK only, not on JRE]

On Microsoft Windows platforms, the JDK includes both the Java HotSpot<sup>®</sup> Server VM and Java HotSpot<sup>®</sup> Client VM. However, the JRE for Microsoft Windows platforms includes only the Java HotSpot Client

VM.

dtplugin/\* [Microsoft Windows]  
Deployment Toolkit

plugin2/\* [Microsoft Windows]  
Java Plugin - for accessing java through a webbrowser

bin/rmid  
Java RMI Activation System Daemon

bin/rmiregistry  
Java Remote Object Registry

bin/tnameserv  
Java IDL Name Server

bin/keytool  
Key and Certificate Management Tool

bin/kinit [Microsoft Windows]  
Used to obtain and cache Kerberos ticket-granting tickets

bin/klist [Microsoft Windows]  
Kerberos display entries in credentials cache and keytab

bin/ktab [Microsoft Windows]  
Kerberos key table manager

bin/policytool  
Policy File Creation and Management Tool

bin/orbd  
Object Request Broker Daemon

bin/servertool  
Java IDL Server Tool

bin/javaws, and lib/javaws.jar  
Java Web Start

jre/lib/cmm/PYCC.pf [Available on JDK only, not on JRE]  
Color profile. This file is required only if one wishes to convert between the PYCC color space and another color space.

jre/lib/ext/  
sunjce\_provider.jar, sunec.jar, and sunpkcs11.jar -JCE providers for Java Cryptography APIs  
localedata.jar - contains many of the resources needed for non US English locales  
dnsns.jar - for the InetAddress wrapper of JNDI DNS provider

lib/fonts/\*  
Font Files

lib/deploy/\*

## JavaFX related files

THIRDPARTYLICENSEREADME-JAVAFX.txt

JavaFX third-party license information. Can only be excluded if all other JavaFX related files are also excluded.

lib/javafx.properties

JavaFX properties file

lib/jfxrt.jar

JavaFX runtime jar file

lib/security/javafx.policy

JavaFX policy file

JavaFX native libraries [Microsoft Windows]

bin/decora-sse.dll

bin/fxplugins.dll

bin/glass.dll

bin/glib-lite.dll

bin/gstreamer-lite.dll

bin/javafx-font.dll

bin/javafx-iio.dll

bin/jfxmedia.dll

bin/jfxwebkit.dll

bin/libxml2.dll

bin/libxslt.dll

JavaFX native libraries [Mac OS X]

lib/fxplugins.dylib

lib/libdecora-sse.dylib

lib/libglass.dylib

lib/libglib-2.0.0.dylib

lib/libgstplugins-lite.dylib

lib/libgstreamer-lite.dylib

lib/libjavafx-font.dylib

lib/libjavafx-iio.dylib

lib/libjfxmedia.dylib

lib/libjfxwebkit.dylib

lib/libprism-es2.dylib

JavaFX native libraries [Linux-i586]

lib/i386/fxavcodecplugin-52.so

lib/i386/fxavcodecplugin-53.so

lib/i386/fxplugins.so

lib/i386/libglass.so

lib/i386/libgstplugins-lite.so

lib/i386/libgstreamer-lite.so

lib/i386/libjavafx-font.so

lib/i386/libjavafx-iio.so

lib/i386/libjfxmedia.so

lib/i386/libjfxwebkit.so

lib/i386/libprism-es2.so

JavaFX native libraries [Linux-x64]

lib/amd64/fxavcodecplugin-52.so

```
lib/amd64/fxavcodecplugin-53.so
lib/amd64/fxplugins.so
lib/amd64/libglass.so
lib/amd64/libgstplugins-lite.so
lib/amd64/libgstreamer-lite.so
lib/amd64/libjavafx-font.so
lib/amd64/libjavafx-iiio.so
lib/amd64/libjfxmedia.so
lib/amd64/libjfxwebkit.so
lib/amd64/libprism-es2.so
```

#### Redistributable JDK Files

The limited set of files and directories from the JDK listed below may be included in vendor redistributions of the Java Runtime Environment (JRE). They cannot be redistributed separately, and must accompany a JRE distribution. All paths are relative to the top-level directory of the JDK. The corresponding man pages should be included for any included executables (with paths listed below beginning with bin/, for the Solaris Operating System and Linux).

jre/lib/cmm/PYCC.pf

Color profile. This file is required only if one wishes to convert between the PYCC color space and another color space.

All .ttf font files in the jre/lib/fonts/ directory.

Note that the LucidaSansRegular.ttf font is already contained in the JRE, so there is no need to bring that file over from the JDK.

The javac bytecode compiler, consisting of the following files:

```
bin/javac [Solaris Operating System (x86) and Linux]
bin/sparcv9/javac [Solaris Operating System (SPARC(R) Platform Edition)]
bin/amd64/javac [Solaris Operating System (x64)]
bin/javac.exe [Microsoft Windows]
lib/tools.jar [All platforms]
```

The Annotation Processing Tool, consisting of the following files:

```
bin/apt [Solaris Operating System (x86) and Linux]
bin/sparcv9/apt [Solaris Operating System (SPARC(R) Platform Edition)]
bin/amd64/apt [Solaris Operating System (x64)]
bin/apt.exe [Microsoft Windows]
```

lib/jconsole.jar

The Jconsole application.

The dynamic attach mechanism consisting of the following files:

```
lib/tools.jar/ [All platforms]
jre/lib/sparcv9/libattach.so [Solaris Operating System (SPARC(R)
Platform Edition)]
jre/lib/i386/libattach.so [Solaris Operating System (x86) and Linux
(x86) ]
jre/lib/amd64/libattach.so [Solaris Operating System (x64) and Linux
(x64)]
jre\bin\attach.dll [Microsoft Windows]
```

jre\bin\server\

On Microsoft Windows platforms, the JDK includes both the Java HotSpot™ Server VM and Java HotSpot™ Client VM. However, the JRE

for Microsoft Windows platforms includes only the Java HotSpot Client VM. Those wishing to use the Java HotSpot Server VM with the JRE may copy the JDK's `jre\bin\server` folder to a `bin\server` directory in the JRE. Software vendors may redistribute the Java HotSpot Server VM with their redistributions of the JRE.

`bin/jarsigner`  
JAR Signing and verification tool.

`src.zip`  
Archive of source files  
Unlimited Strength Java Cryptography Extension  
Due to import control restrictions for some countries, the Java Cryptography Extension (JCE) policy files shipped with the JDK and the JRE allow strong but limited cryptography to be used. These files are located at:

```
<java-home>/lib/security/local_policy.jar  
<java-home>/lib/security/US_export_policy.jar
```

where `<java-home>` is the `jre` directory of the JDK or the top-level directory of the JRE.

An unlimited strength version of these files indicating no restrictions on cryptographic strengths is available on the JDK web site for those living in eligible countries. Those living in eligible countries may download the unlimited strength version and replace the strong cryptography jar files with the unlimited strength files.

The cacerts Certificates File

Root CA certificates may be added to or removed from the Java SE certificate file located at:

```
<java-home>/lib/security/cacerts
```

For more information, see The cacerts Certificates File section in the `keytool` documentation.

Java Endorsed Standards Override Mechanism

From time to time it is necessary to update the Java platform in order to incorporate newer versions of standards that are created outside of the Java Community Process (JCP) (<http://www.jcp.org/>) (Endorsed Standards), or in order to update the version of a technology included in the platform to correspond to a later standalone version of that technology (Standalone Technologies).

The Endorsed Standards Override Mechanism provides a means whereby later versions of classes and interfaces that implement Endorsed Standards or Standalone Technologies may be incorporated into the Java Platform.

For more information on the Endorsed Standards Override Mechanism, including the list of platform packages that it may be used to override, see

```
http://docs.oracle.com/javase/7/docs/technotes/guides/standards/  
Web Pages
```

For additional information, refer to these Oracle pages on the World Wide Web:

```
http://www.oracle.com/technetwork/java/
```

The Java Platform web site, with the latest information on Java technology, product information, news, and features.

```
http://docs.oracle.com/javase/7/docs/
```

Java platform Documentation provides access to white papers, the Java Tutorial and other documents.

<http://www.oracle.com/technetwork/java/>

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6b.

i,§ d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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# 3

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- [Sun Datacenter InfiniBand Switch 36](#)
- [Sun Network QDR InfiniBand Gateway](#)

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The source code for some software components of Oracle Big Data Appliance is readily available at the locations identified in [Table 3-1](#).

**Table 3-1 Location of Source Code**

| Software                                        | Source Code Location                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cloudera's Distribution including Apache Hadoop | All Oracle Big Data Appliance servers in directory<br><code>/opt/oss/src/CDH/</code>                                                                                                                                                                                                                                                                                                   |
| Cloudera Manager                                | On all Oracle Big Data Appliance servers in directory<br><code>/opt/oss/src/ClouderaMgr/</code>                                                                                                                                                                                                                                                                                        |
| Java HotSpot Virtual Machine                    | On all Oracle Big Data Appliance servers in zip file<br><code>/usr/java/&lt;JDK version&gt;/src.zip</code>                                                                                                                                                                                                                                                                             |
| MySQL Community Edition                         | <a href="http://dev.mysql.com/downloads/mysql/">http://dev.mysql.com/downloads/mysql/</a><br>MySQL Enterprise Edition is installed on Oracle Big Data Appliance. It is proprietary software protected by intellectual property laws. This link is to the source code for MySQL Community Edition, which is open source.                                                                |
| Open Source R                                   | All Oracle Big Data Appliance servers in directory<br><code>/opt/oss/src/OracleR/</code>                                                                                                                                                                                                                                                                                               |
| Oracle Hardware Installation Assistant          | <a href="http://oss.oracle.com/systems-opensourcecode/">http://oss.oracle.com/systems-opensourcecode/</a><br>Under Servers and Storage Systems, expand <b>X86 Servers and Blades</b> , and then select <b>Oracle Server X7-2L, Oracle Server X6-2L, Sun Server X4-2, Sun Server X3-2, or Sun Fire X4270 M2 Server</b> .                                                                |
| Oracle Integrated Lights Out Manager            | <a href="http://oss.oracle.com/systems-opensourcecode/">http://oss.oracle.com/systems-opensourcecode/</a><br>Under Servers and Storage Systems, expand <b>x86 Servers and Blades</b> , and then select <b>Oracle Server X7-2L, Oracle Server X6-2L, Oracle Server X5-2L, Oracle Server X4-2L, Oracle Server X5-2L, Sun Server X4-2, Sun Server X3-2, or Sun Fire X4270 M2 Server</b> . |
| Oracle Linux                                    | <a href="http://oss.oracle.com/ol7/">http://oss.oracle.com/ol7/</a><br><a href="http://oss.oracle.com/ol6/">http://oss.oracle.com/ol6/</a><br><a href="http://oss.oracle.com/ol5/">http://oss.oracle.com/ol5/</a>                                                                                                                                                                      |
| Sun Datacenter InfiniBand Switch 36             | <a href="http://oss.oracle.com/systems-opensourcecode/">http://oss.oracle.com/systems-opensourcecode/</a><br>Expand Networking, and then select Sun Datacenter InfiniBand Switch 36.                                                                                                                                                                                                   |
| Sun Network QDR InfiniBand Gateway              | <a href="http://oss.oracle.com/systems-opensourcecode/">http://oss.oracle.com/systems-opensourcecode/</a><br>Expand Networking, and then select Sun Datacenter InfiniBand GW Switch.                                                                                                                                                                                                   |

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**Development and Engineering Legal**

**500 Oracle Parkway, 10th Floor**

**Redwood Shores, CA 94065**

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Version 2.0, January 2004

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## 3.5 Ansible 2.9.6

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Version 3, 29 June 2007

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```
*****
*****
```

```
ansible/lib/ansible/module_utils/basic.py
```

```
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## 3.12 GSON 2.8.6

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## 3.13 hk2 2.6.1

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R was initially written by Robert Gentleman and Ross Ihaka of the Statistics Department of the University of Auckland.

Since mid-1997 there has been a core group with write access to the R source, currently consisting of

- Douglas Bates
- John Chambers
- Peter Dalgaard
- Seth Falcon
- Robert Gentleman
- Kurt Hornik
- Stefano Iacus
- Ross Ihaka
- Friedrich Leisch
- Uwe Ligges
- Thomas Lumley
- Martin Maechler
- Duncan Murdoch
- Paul Murrell
- Martyn Plummer
- Brian Ripley
- Deepayan Sarkar
- Duncan Temple Lang
- Luke Tierney
- Simon Urbanek

plus Heiner Schwarte up to October 1999 and Guido Masarotto up to June 2003.

For more information go to (<http://www.r-project.org>).

Current R-core members can be contacted via email to R-project.org with name made up by replacing spaces by dots in the name listed above.

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## 3.23 ROracle

This product is an open source package for R that allows R users to interact with an Oracle database. It was developed by an individual called David James. Oracle has taken over new development, maintenance, and all upgrade activity on this package.

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<http://cran.cnr.berkeley.edu/web/packages/ROracle/ROracle.pdf>

## 3.24 Scala

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