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1 Trademarks and Copyrights

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README

Java(TM) 2 Platform Standard Edition

Runtime Environment

Version 5.0

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Deploying Applications with the J2SE Runtime Environment
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```

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- Your own class, resource, and data files.
- A runtime environment.
- An installation procedure or program.

You already have the first part, of course. The remainder of this document covers the other two parts. See also the Notes for Developers page on the Java Software website:

<http://java.sun.com/j2se/1.5.0/runtime.html>

```
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Runtime Environment
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```

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lib/charsets.jar

Character conversion classes

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

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

Used to obtain and cache Kerberos ticket-granting tickets

bin/klist

Kerberos display entries in credentials cache and keytab

bin/ktab

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, lib/javaws/ and lib/javaws.jar

Java Web Start

When redistributing the JRE on Microsoft Windows as a private application runtime (not accessible by other applications) with a custom launcher, the following files are also optional. These are libraries and executables that are used for Java support in Internet Explorer and Mozilla family browsers; these files are not needed in a private JRE redistribution.

bin/java.exe

bin/javaw.exe

bin/javaws.exe

bin/javacpl.exe

bin/jucheck.exe

bin/jusched.exe

bin/JavaWebStart.dll

bin/NPJPI*.dll (The filename changes in every release)

bin/NPJava11.dll

bin/NPJava12.dll

bin/NPJava13.dll

bin/NPJava14.dll

bin/NPJava32.dll

bin/NPOJ1610.dll

bin/RegUtils.dll

bin/axbridge.dll

bin/deploy.dll

bin/jpicom32.dll

bin/jpicpl32.cpl

bin/jpiexp32.dll

bin/jpinscp.dll

bin/jpioji.dll

bin/jpishare.dll

lib/deploy.jar

lib/plugin.jar

lib/javaws.jar

lib/javaws/messages.properties

lib/javaws/messages_de.properties

lib/javaws/messages_es.properties

lib/javaws/messages_fr.properties

lib/javaws/messages_it.properties

lib/javaws/messages_ja.properties

lib/javaws/messages_ko.properties

lib/javaws/messages_sv.properties

lib/javaws/messages_zh_CN.properties

lib/javaws/messages_zh_HK.properties
lib/javaws/messages_zh_TW.properties
lib/javaws/miniSplash.jpg

Redistributable JDK(TM) Files

The limited set of files from the JDK listed below may be included in vendor redistributions of the J2SE Runtime Environment. All paths are relative to the top-level directory of the JDK.

- 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 J2SE Runtime Environment, 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 J2SE Runtime Environment in order to reduce the size of the Runtime Environment's 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 Runtime Environment at the vendor's discretion. Several versions of enhanced MIDI soundbanks are available from the Java Sound web site:
<http://java.sun.com/products/java-media/sound/>
These alternative soundbanks may be included in redistributions of the J2SE Runtime Environment.

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

- The Annotation Processing Tool, consisting of the following files:
 - bin/apt [Solaris(TM) 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]

- jre\bin\server\

On Microsoft Windows platforms, the JDK includes both the Java HotSpot Server VM and Java HotSpot Client VM. However, the J2SE Runtime Environment for Microsoft Windows platforms includes only the Java HotSpot Client VM. Those wishing to use the Java HotSpot Server VM with the J2SE Runtime Environment may copy the JDK's jre\bin\server folder to a bin\server directory in the J2SE Runtime Environment. Software vendors may redistribute the Java HotSpot Server VM with their redistributions of the J2SE Runtime Environment.

Unlimited Strength Java Cryptography Extension

Due to import control restrictions for some countries, the Java Cryptography Extension (JCE) policy files shipped with the J2SE Development Kit and the J2SE Runtime Environment 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 J2SE Runtime Environment.

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.

Endorsed Standards Override Mechanism

An endorsed standard is a Java API defined through a standards process other than the Java Community Process(SM) (JCP(SM)). Because endorsed standards are defined outside the JCP, it is anticipated that such standards will be revised between releases of the Java 2 Platform. In order to take advantage of new revisions to endorsed

standards, developers and software vendors may use the Endorsed Standards Override Mechanism to provide newer versions of an endorsed standard than those included in the Java 2 Platform as released by Sun Microsystems.

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

<http://java.sun.com/j2se/1.5.0/docs/guide/standards/>

Classes in the packages listed on that web page may be replaced only by classes implementing a more recent version of the API as defined by the appropriate standards body.

In addition to the packages listed in the document at the above URL, which are part of the Java 2 Platform Standard Edition (J2SE(TM)) specification, redistributors of Sun's J2SE Reference Implementation are allowed to override classes whose sole purpose is to implement the functionality provided by public APIs defined in these Endorsed Standards packages. Redistributors may also override classes in the org.w3c.dom.* packages, or other classes whose sole purpose is to implement these APIs.

The cacerts Certificates File

Root CA certificates may be added to or removed from the J2SE certificate file located at <java-home>/lib/security/cacerts.

For more information, see The cacerts Certificates File section in the keytool documentation at:

<http://java.sun.com/j2se/1.5.0/docs/tooldocs/solaris/keytool.html#cacerts>

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hdparm

hdparm.c - Command line interface to get/set hard disk parameters

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

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If you have any suggestions, additions, comments, or questions, please

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[5]Douglas C. Schmidt

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