Oracle Forms Server Client Platform Support

JavaSoft JDK 1.1.7B and Java Plug-in 1.1.2 for Sun Solaris March 2000

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PURPOSE

This document describes the installation and configuration steps you must take to run Oracle Forms Server applications using the following software on the Sun Solaris platform:

- JavaSoft JDK 1.1.7B reference implementation
- Java Plug-in 1.1.2

It also addresses known problems and workarounds you might face when you use JDK 1.1.7B and Java Plug-in 1.1.2.

As of April 30, 1999, the Sun Solaris platform has been included in the Bronze support category as a client for Oracle Forms Server 6.0

The running of Oracle Forms Server 6*i* applications with Sun Solaris JavaSoft JDK 1.1.7B/Java Plugin 1.1.2 will not be supported with the initial production release of Oracle Forms Server 6*i*. This configuration will be certified with a Oracle Forms Server 6*i* later patch set.

Note: For more information on platform certification and the Oracle support process please see: Oracle Forms Server,: Client Platform Support, Statement of Direction on the Oracle Technology Network @ http://technet.oracle.com.

CERTIFICATION WITH ORACLE FORMS SERVER 6i

The use of the Sun Solaris JavaSoft JDK 1.1.7B/Java Plug-in 1.1.2 running Oracle Forms Server 6*i* applications is not supported with the initial production release of Oracle Forms Server 6*i*. Native client platform testing and certification will be commencing with the production release of the Oracle Forms Server 6*i* and it is expected that the first patch set for the 6*i* release will be certified for use with JavaSoft JDK 1.1.7B/Java Plug-in 1.1.2 for Sun Solaris.

INSTALLATION AND SYSTEM CONFIGURATION

This section lists required software versions and discusses system configuration for running Oracle Forms Server applications using the native AppletViewer tool that both JDK 1.1.7B and the Java Plug-in 1.1.2 provide.

Required Software Versions

- Oracle Forms Server 6.0
- JavaSoft JDK 1.1.7B reference implementation
- JavaSoft Java Plug-in 1.1.2 (optional)
- Netscape Navigator 3.01 or later (optional)

Software Installation

Install the required software components on the client machine:

- 1. Download and install the JDK 1.1.7B reference implementation from the JavaSoft Web site @ http://www.javasoft.com.
- 2. (Optional) Download and install the Java Plug-in 1.1.2 for Sun Solaris. Do this if you are using Netscape Navigator and you want to run Oracle Forms Server applications from the browser. There is no need to install the JDK1.1.7B reference implementation if you are using only the Java Plug-in.

System Configuration

You will find installation and configuration information on the JavaSoft Web site (http://www.javasoft.com). Configure the client machine to run the JDK according to the instructions supplied with the JDK.

If you are using the Java Plug-in, follow the plug-in installation instructions and guidelines provided on the JavaSoft Web site (http://www.javasoft.com).

TESTING THE JDK AND THE PLUG-IN

This section describes how to test the installation of the JDK and the Java Plug-in.

Testing the JDK installation with the AppletViewer

The JDK ships with a number of demonstration applets, which you can use to test the installation and configuration of the JDK:

Navigate to the directory where the JDK is installed, and open the demo/Clock directory. For example, if the JDK is installed in the /private1/app directory, this command would be:

1. Run the AppletViewer with the example1.html page that is contained in this directory:

```
appletviewer example1.html
```

If the JDK was installed and configured correctly, then an applet showing a clock with the current system date and time should appear.

If the applet does not appear, then re-check each of the installation and configuration steps and try again. If you still have trouble, then consult the FAQs on the JavaSoft Web site for further information (http://www.javasoft.com).

Testing the Java Plug-in from Netscape

The Netscape browser allows the Java Plug-in to run Java applets. The HTML tags you use to specify the applet require a special format. You will find definitions and examples of these tags as well as example applets, which you can use to test your installation, on the JavaSoft Web site (http://www.javasoft.com).

Note: See Appendix A for an example of a Java Plug-in HTML page used for launching an Oracle Forms Server application.

To test your configuration:

- 1. Launch the Netscape browser on the client.
- 2. Go to the JavaSoft Web site (http://www.javasoft.com), and navigate to the Java Plug-in page.
- 3. Find the examples page, and run some of the example applets.

If the applets do not appear in the example pages, then re-check each of the installation and configuration steps and try again. If you are still having trouble, then consult the FAQS on the JavaSoft Web site for further information (http://www.javasoft.com).

EXECUTING ORACLE FORMS SERVER APPLICATIONS

Once you have completed installation and configuration and successfully tested the JDK 1.1.7B reference implementation or the Java Plug-in, you should be able to run Oracle Forms Server applications.

Note that in order to use the Java Plug-in to run Oracle Forms Server applications, the HTML page that you use to launch the application must use the specific JavaSoft-defined Java Plug-in tags that are recognized by the browser. You will find definitions and examples of these tags on the JavaSoft Web site (http://www.javasoft.com).

Note: See Appendix A for an example of a Java Plug-in HTML page used for launching an Oracle Forms Server application.

TROUBLESHOOTING

When the splash screen displays, a yellow banner appears with the message, "Warning: Applet Window."

You must use the javakey tool to install the Developer X509 digital certificate on the client machine. The digital certificate authenticates the downloaded Java classes that are used by Oracle Forms Server applications. You must do this for each user who will be running Oracle Forms Server applications.

To install the digital certificate on the client machine, take the following steps:

- 1. Copy the digital certificate from the machine on which the Oracle Forms Server is installed to a well-known location on the client machine. The Developer digital certificate is named Dev.x509. You can find it in the ORACLE_HOME\forms60\java directory.
- 2. Locate the javakey tool for the Java environment you are using:
 - If you are using the Java JDK, then you will find the appropriate javakey tool in the JDK bin directory. The tool is in the proper path, and there is no need to change the directory.

• If you are using the Java Plug-in, then you will find the appropriate javakey tool in the bin subdirectory, under the directory in which the Java Plug-in was installed. For example, for a user named "fred," the bin subdirectory would typically be located at ~fred/.netscape/java/bin. To execute javakey, change to the following directory:

```
[DBMS oracle] ~: cd ~fred/.netscape/java/bin
```

1. Create the Developer identity using javakey and assign the new identity a trusted label:

```
[DBMS oracle] ~: javakey -c Developer true

Created identity Developer[identitydb.obj][trusted]
```

2. Use javakey to import the Developer X509 digital certificate. This example assumes that the Developer X509 certificate was placed in the /tmp directory.

```
[DBMS oracle] ~: javakey -ic Developer /tmp/Dev.x509

Imported certificate from /tmp/Dev.x509 for Developer.
```

3. Check the results of the operation.

KNOWN BUGS AND WORKAROUNDS

All known bugs and relevant workarounds are noted below.

Problem: When I use text formatting on data entry fields, some of the entered text does not

appear with the correct formatting (e.g., a field is set to be displayed as bold, and the

first few characters do not appear as bold).

Workaround: None at this time.

Problem: Size of displayed fonts appears to be smaller than those displayed with Oracle

JInitiator.

Workaround: None at this time.

Problem: Images are not being correctly displayed in running applications.

Workaround: Configure the appropriate Java security privileges on the client by installing the

Dev.x509 certificate, which is discussed earlier in this paper.

Problem: The Oracle Forms Server splash screen is truncated when displayed.

Workaround: Configure the appropriate Java security privileges on the client by installing the

Dev.x509 certificate, which is discussed earlier in this paper.

Problem: Using the print built-in causes an exception to be raised on the client

Workaround: None at this time.

Problem: WHEN-BUTTON-PRESSED trigger causes exception to be raised on the client

when I delete images from a row in a table.

Workaround: None at this time.

Problem: The error "FRM-41072:Cannot create group" is created if the group is created with

global scope.

Workaround: None at this time.

Problem: (Java Plug-in Specific) When I use the Java Plug-in, push button triggers do not

fire.

Workaround: None at this time.

Problem: (Java Plug-in Specific) I am unable to change focus on text items after I invoke the

KEY help screen.

Workaround: Run the application outside of the main browser window in a separate frame. You

can specify the use of a separate frame in the HTML page with the following tag:

<HTML
<BODY>
<EMBED
CODE="oracle.forms.engine.Main"
...
serverPort="9000"
separateFrame = "TRUE"
...

</EMBED>
See the release notes for Oracle Forms Server for more information on using separate frames.

Problem: (Java Plug-in Specific) Pop-up help does not display when I navigate quickly to an

item.

Workaround: None at this time.

APPENDIX A: EXAMPLE JAVA PLUG-IN HTML FILE

This appendix contains an example of an HTML file that uses the Java Plug-in HTML tags to launch the Oracle Forms Server Java client using the Java Plug-in:

```
<HTML>
<BODY>
< EMBED
 TYPE="application/x-java-applet;version=1.1.2"
 WIDTH="800"
HEIGHT="600"
CODE="oracle.forms.engine.Main"
CODEBASE="/web_forms/"
ARCHIVE="f60all.jar"
serverPort="9000"
serverArgs="module=grid2.fmx userid=scott/tiger"
lookAndFeel="oracle"
colorScheme="Titanium"
PLUGINSPAGE=" http://java.sun.com/products/plugin/download/solaris.sparc.html ">
<NOEMBED>
 No support for Java Plug-in in this browser ...
</NOEMBED>
</EMBED>
</BODY>
</HTML>
```