HP-UX Java™ JPI Version 1.4.2.01 for Netscape/Mozilla Release Notes

These release notes contain the following topics:

» Problems fixed in release

» Installation instructions

» Configuring the Runtime Plug-in for HP-UX

» Enabling HTML pages to use the Runtime Plug-in

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The Runtime Plug-in for HP-UX, Java Edition version 1.4.2.01, allows you to access the HP-UX Runtime Environment for the Java 2 Platform version 1.4.2.01 from within Netscape 4.77 or later, Netscape 6.01 or later, or Mozilla for HP-UX 1.2.1.01 or later. The Plug-in enables the use of a more up-to-date version of the RTE than the one embedded with Netscape 4.x.

The Runtime Plug-in for HP-UX version 1.4.2.01 for HP-UX PA-RISC and Itanium supports the HotSpot Virtual Machines (Server).

To improve supportability on HP-UX 11.0, Netscape Communicator 4.77 and later is natively built as an 11.0 application. It can access only plug-in shared libraries that are natively built as 11.0 shared libraries. The Runtime Plug-in, Java Edition version 1.3.0.01 or later is natively built as an 11.0 shared library.

Problems fixed in release

This release is based on Sun Microsystems' 1.4.2_01 version of the Java Plug-in available at http://java.sun.com/j2se/1.4.2/ReleaseNotes.html. See http://java.sun.com/j2se/1.4.2/changes.html for changes in 1.4.2_01 release.

HP-UX defect: JAGae61231 (Mozilla 1.2.1 and Java plugin do handle resizing properly)

The following problems are fixed in Mozilla browser version 1.4.

- `MOZ_PLUGIN_PATH` environment variable can now be used to specify a list of colon (:) delimited directories where a plug-in library will be located.
- Cookie support is now functional. This feature is not supported with Netscape 4.8 browser.

Installation instructions

`NOTE`: The directory structure and install model of the Runtime Plug-in has changed since version 1.3. Please see details below.

Prior to version 1.3, the Runtime Plugin for HP-UX, Java Edition, was made available as a shell archive named 'package' (and 'package.i18n'). These files were bundled with the JRE/JDK depot files. Upon executing these shell archives, the files for the Runtime Plug-in were installed into the `$HOME/.netscape` directory.

Now the Runtime Plugin is offered in a separate software depot file from the SDK/RTE. It should be installed by system administrators subsequent to the installation of the SDK or RTE. The Runtime Plugin standalone depot file contains only the files for the Runtime Plugin; it does not contain the RTE files. The Runtime Plugin with RTE depot file contains both the Plugin and RTE files.

Additionally, prior to version 1.3 of the Runtime Plug-in, it was possible to install the file '`libjavaplugin.sl`' - the shared library loaded by the Netscape browser - into a directory independently located from the remaining files of the Runtime Plugin and the RTE. Exporting the `NPX_PLUGIN_PATH` and `NPX_JRE_PATH` environment variables directed Netscape and the Runtime Plugin where to locate these files respectively.

Version 1.4.2.01 of the Runtime Plug-in requires the shared libraries loaded by the browser, the remaining Runtime Plug-in files, and the RTE, to be located in the following fixed relative position:

`<dir>/jre`	Runtime plug-in and RTE files
`<dir>/jre/plugin/PA_RISC/ns600`	Runtime Plugin shared libraries loaded by Netscape 6 browser
`<dir>/jre/plugin/IA64N/ns600`	IPF Runtime Plugin shared libraries loaded by Netscape 6 browser
`<dir>/jre/plugin/PA_RISC/ns4`	Runtime plug-in shared libraries loaded by Netscape 4.x browser

If the JPI is installed in the default location, `/opt/java1.4/jre`, then the following links are created during install to allow the browser to locate the Runtime Plug-in shared library:

PA-RISC Installation:

```
/opt/netscape6/plugins/libjavaplugin_oji.sl ->
    /opt/java1.4/jre/plugin/PA_RISC/ns600/libjavaplugin_oji.sl
/opt/netscape/plugins/libjavaplugin_oji.sl ->
    /opt/java1.4/jre/plugin/PA_RISC/ns600/libjavaplugin_oji.sl
/opt/mozilla/plugins/libjavaplugin_oji.sl ->
    /opt/java1.4/jre/plugin/PA_RISC/ns600/libjavaplugin_oji.sl
/opt/netscape/plugins/libjavaplugin.sl ->
    /opt/java1.4/jre/plugin/PA_RISC/ns4/libjavaplugin.sl
```

Itanium Installation:

```
/opt/netscape/plugins/libjavaplugin_oji.sl ->
    /opt/java1.4/jre/plugin/IA64N/ns600/libjavaplugin_oji.sl
/opt/mozilla/plugins/libjavaplugin_oji.sl ->
    /opt/java1.4/jre/plugin/IA64N/ns600/libjavaplugin_oji.sl
```

If the Runtime Plug-in is installed in a non-default location, a system administrator may create similar links themselves in order to enable the browser to find the Runtime Plug-in.

The environment variable `NS600_PLUGIN_PATH` for Netscape 6, `MOZ_PLUGIN_PATH` for Netscape 7 or Mozilla, and `NPX_PLUGIN_PATH` for Netscape 4.x may optionally be used as described in the section below regarding configuration.

The runtime plug-in SD depot (.depot file)

This offers a system-wide installation and imitates the installation model of the Java Plug-in 1.4.2 for Solaris™. By default, both the RTE depot and the Runtime Plug-in depot install into the directory `/opt/java1.4/jre`. As required by the HP-UX swinstall program, the user installing the depot must have root privileges.

The fileset for the Runtime Plug-in 1.4.2 SD depot is therefore as listed below. The default for mnemonic `<dir>` is`/opt/java1.4`

```
<dir>/jre/lib/plugin.jar
<dir>/jre/lib/libjavaplugin.sl
<dir>/jre/bin/java_vm
<dir>/jre/plugin/jpi.release.notes
<dir>/jre/plugin/LICENSE
<dir>/jre/plugin/PA_RISC/ns4/libjavaplugin.sl
<dir>/jre/plugin/PA_RISC/ns600/libjavaplugin_oji.sl
<dir>/jre/bin/ControlPanel
<dir>/jre/ControlPanel.html
```

HPPA Installation:

```
/opt/netscape6/plugins/libjavaplugin_oji.sl ->
```

```
    <dir>/jre/plugin/PA_RISC/ns600/libjavaplugin_oji.sl
/opt/netscape/plugins/libjavaplugin_oji.sl ->
    <dir>/jre/plugin/PA_RISC/ns600/libjavaplugin_oji.sl
/opt/mozilla/plugins/libjavaplugin_oji.sl ->
    <dir>/jre/plugin/PA_RISC/ns600/libjavaplugin_oji.sl
/opt/netscape/plugins/libjavaplugin.sl ->
    <dir>/jre/plugin/PA_RISC/ns4/libjavaplugin.sl
```

Itanium Installation:

```
/opt/netscape/plugins/libjavaplugin_oji.sl ->
    <dir>/jre/plugin/IA64N/ns600/libjavaplugin_oji.sl
/opt/mozilla/plugins/libjavaplugin_oji.sl ->
    <dir>/jre/plugin/IA64N/ns600/libjavaplugin_oji.sl
```

Uninstallation instructions

For the Runtime Plug-in installed by the SD depot, use swinstall.

For Netscape 4.x, you can also remove the references to the Runtime Plug-in in the files:

```
$HOME/.netscape/plugins-list
$HOME/.java/deployment/deployment.properties
```

Configuring the Runtime Plug-in for HP-UX

You can configure the Runtime Plug-In by running the ControlPanel script, which launches the ControlPanel java application, or by loading ControlPanel.html in the browser. Both files are found in the directory `jre/bin` and `jre/`, respectively, under the directory where the Runtime Plug-in has been installed.

The ControlPanel application generates a file, `$HOME/.java/deployment/deployment.properties`. This file contains, among other settings, the path to the RTE to be used by the Runtime Plug-in for HP-UX when the Netscape browser loads an applet from a Runtime Plug-in enabled html page. This setting is stored in the key:

```
javaplugin.jre.path=<dir where JRE is installed>
```

For example,

```
javaplugin.jre.path=/opt/java1.4/jre
```

No environment variables are necessary for configuring the Runtime Plug-In for HP-UX, Java Edition. However, you may optionally use the following environment variables.

NPX_PLUGIN_PATH

You can use the `NPX_PLUGIN_PATH` environment variable to direct Netscape 4.x to search additional directories for plug-in libraries. By default, Netscape searches `/usr/local/lib/netscape/plugins`, `$MOZILLA_HOME/plugins`, and `$HOME/.netscape/plugins` overriding previous plug-in libraries in case of duplicates. If `NPX_PLUGIN_PATH` is used, Netscape does not override duplicate plugin-libraries. Therefore, it is important that the search order of the default paths be reversed.

If `NPX_PLUGIN_PATH` is used to specify `<dir>/jre/plugin/PA_RISC/ns4` as a location where the Runtime Plug-in library resides, it must be the first directory in the path followed by the default paths in reversed order. The Runtime Plug-in shared library from there will locate the RTE and remaining Runtime Plug-in files in the relative directory mentioned above.

For example (in ksh) this would be a recommended order for specifying directory paths which will ensure that Netscape will locate the Runtime Plug-in residing in `<dir>/jre/plugin/PA_RISC/ns4` as well as existing plug-in shared libraries.

```
export NPX_PLUGIN_PATH=<dir>/jre/plugin/PA_RISC/ns4:\
$HOME/.netscape/plugins:\
$MOZILLA_HOME/plugins:\
/usr/local/lib/netscape/plugins
```

An alternative to exporting this environment variable is to create the following link,

```
ln -s <dir>/jre/plugin/PA_RISC/ns4/libjavaplugin.sl \
$HOME/.netscape/plugins/libjavaplugin.sl
```

NS600_PLUGIN_PATH (or MOZ_PLUGIN_PATH)

`NS600_PLUGIN_PATH` is being replaced by `MOZ_PLUGIN_PATH` in Netscape 7.0 or later and Mozilla.

You can use the `NS600_PLUGIN_PATH` environment variable to direct the browser to search alternate directories for plug-in libraries. This mechanism works the same as for `NPX_PLUGIN_PATH` in Netscape 4.x.

`Note`: The entries in the `$HOME/.java/deployment/deployment.properties` file supercede those of `NS600_PLUGIN_PATH/NPX_PLUGIN_PATH` when locating the RTE.

CLASSPATH

A user's `CLASSPATH` environment variable can be passed by the JVM by running the Control Panel and specifying either '`-cp`' or '`-classpath`' in the "Java Run Time Parameter" box. You need to exit and rerun a browser for this change to take effect.

Enabling HTML pages to use the Runtime Plug-in for HP-UX

The first time the Netscape or Mozilla browser loads an applet from a Runtime Plug-in enabled HTML page, it will download and install the Runtime Plug-in for HP-UX. Thereafter, the plug-in is used for other Runtime Plug-in enabled HTML pages.

Sun Microsystems Inc. has provided some additional tools to assist users in using Plug-in products. They have provided a converter to automate the enabling on HTML pages. They also provide an HTML specification for users who wish to enable their HTML pages manually. Information on Sun Microsystems HTML converter and specification is available at http://java.sun.com/products/plugin. You may want to use it to modify your HTML pages to specify use of the Runtime Plug-in for HP-UX, Java Edition, version 1.4.x instead of the default browser version of the HP-UX Runtime Environment for Java.

`Note`: A Java Runtime Plug-in enabled html page is not required when Netscape 6 browser is used. Whether an `APPLET` tag or an `EMBED` tag is used, the Java Runtime Plug-in will be loaded.

Other documentation and information

Other Sun documentation and FAQ are available at http://java.sun.com/products/plugin.

Info on HP-UX Mozilla browser is available at Mozilla Web Browser for HP-UX Downloads and Documentation.

For the latest information on Java products for HP-UX, see Java™ Technology Software on HP-UX.

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