Sun Ray™ Server Software 4.0 Release Notes

for the Linux Operating System

Sun Microsystems, Inc.
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Sun Ray Server Software 4.0 Release Notes for Linux

Supported Platforms

This version of Sun Ray Server Software runs on the following versions of the Linux operating system:

- SuSE Linux Enterprise Server (SLES) 9 with Service Pack 3 (32-bit and 64-bit)
  - All packages are required and must be installed.
  - During installation, select Full Installation.
  - Be sure to install tftp.
- Red Hat Enterprise Linux Advanced Server (RHEL AS) 4 Update 3 (32-bit and 64-bit)
  - All packages are required and must be installed.

What's New

Sun Ray Server Software 4.0 for Linux offers the following new features:

New Admin GUI

The Sun Ray Administration Tool (Admin GUI) has been rewritten for the 4.0 release. It uses the Java Server Faces (JSF) technology to dynamically render a Web-based administration interface that complies with the most current Sun branding. The previously used CGI-based rendering logic has been completely removed.

New OSD

On Screen Display icons have been revised to present a clearer depiction of connectivity and other issues; however, the icon codes and DHCP codes remain the same. They are described in Tables B-1 and B-2 in the *Sun Ray Server Software 4.0 Administrator's Guide*.

Pop-up GUI

The Pop-up Graphical User Interface allows the entry of network configuration parameters for a Sun Ray DTU from the attached keyboard. It is described in Chapter 7 of the *Sun Ray Server Software 4.0 Administrator's Guide*.

Kiosk (Controlled Access) Mode

Kiosk Mode is now supported on Linux platforms. It is described in Chapter 10 of the *Sun Ray Server Software Administrator's Guide*.

Integrated VPN Support

Sun Ray Server Software with the most recent firmware provides a VPN solution for remote users that does not require a separate VPN router. This functionality is supported only on Sun Ray 2 hardware, such as the Sun Ray 2, Sun Ray 2FS, and Sun Ray 270 DTUs.

NAT Gateway Device Support

Peripheral devices are now supported when the Sun Ray DTU is behind a NAT gateway.

Known Problems and Workarounds

Keyboard Issues

Alt and Meta Keys

Alt and Meta keys are swapped when XKB is enabled.

XKB on RHEL

In RHEL, the following message is displayed after enabling XKB feature; however, the feature works as expected.

```
Error activating XKB configuration.
Probably internal X server problem.
```

Numeric Keypad Mapping

In pre-1.5 releases of JRE, numeric keypad mapping does not work properly in Java-based Sun Ray tools such as `utsettings`, `utmhconfig`, and the registration GUI.

The workaround is to create a GUI-JRE link in `/etc/opt/SUNWut` to point to an appropriate JRE release and set the environment variable `_AWT_USE_TYPE4_PATCH` to false. For instance:

```
# ln -s <path_to_jre_1.5> guijre
# setenv _AWT_USE_TYPE4_PATCH false
```

Keyboard Layout

`setxkbmap` cannot be used to set layouts for keyboards on Sun Ray DTUs.

Screen Issues

No Screen Lock for Second Linux Session

A user who creates two Linux sessions cannot create a screen lock for the second session. When SRSS needs to lock the screen, it uses `xlock` for the second session. When the user tries to lock the screen from the menu, nothing happens. The workaround is to start a `screensaver` daemon for the second session manually, to enable screen locking and stop SRSS from using `xlock`.

```
# /usr/X11R6/bin/xscreensaver -nosplash &
```

Mass Storage Issues

Caution – Failure to run `utdiskadm -r` before unplugging mass storage devices will cause loss of data. Make sure your users run `utdiskadm -r` before they unplug any mass storage device.

```
% /opt/SUNWut/bin/utdiskadm -r device_name
```

Restart of Sun Ray Services Required on RHEL

On RHEL, after reboot of the Sun Ray Server, Sun Ray Services must be restarted.

```
# /opt/SUNWut/sbin/utrestart -c
```

L10N Issues

L10N packages are not installed by default; however, they are included in the `Supplemental` directory and can be installed manually with the `rpm -i` command. The following packages are available:

TABLE 1 L10N Packages

Language	Package(s)
For French	SUNWfuta, SUNWfuto, SUNWfutwa, SUNWfutwh
For German	SUNWduto
For Italian	SUNWiuto
For Japanese	SUNWjuta, SUNWjuto, SUNWjutwa, SUNWjutwh
For Korean	SUNWkuto
For Portuguese	SUNWputo
For Simplified Chinese	SUNWcuta, SUNWcuto, SUNWcutwa, SUNWcutwh
For Spanish	SUNWeuto
For Traditional Chinese	SUNWhuto

- **For French, Japanese, Simplified Chinese locales, restart the Administration GUI after installing the Admin GUI locale packages:**

```
# /opt/SUNWut/lib/utwebadmin restart
```

- **To display the locale correctly in the Admin GUI, adapt your browser's language preferences, and select the desired locale (fr, ja, or zh_CN).**

  For example, for Mozilla, go to Tools -> Options -> Advanced -> Edit Languages.

Admin GUI Logout

Admin GUI logout does not work in the French locale. The workaround is:

1. **Remove the following line:**

   `onClick="#{login.logoutMessage}"`

   from the logoutLink section of the **`/opt/SUNWut/webadmin/webapps/ut/jsp/misc/Masthead.jsp`** file:

```
 <f:facet name="logoutLink">
      <ui:hyperlink id="logout"
                    action="#{login.logout}"
                    immediate="true"
                    onClick="#{login.logoutMessage}"
                    toolTip="#{msg.masthead_logout_link_tooltip}"
                    target="_top"/>
  </f:facet>
```

2. **Restart the Admin GUI:**

```
# /opt/SUNWut/lib/utwebadmin restart
```

Online Help (French)

The following workaround enables the help text to display in the French locale, although left-pane navigation may continue to display in English.

1. **Copy the files `toc.xml` and `index.xml` from the English online help location:**

```
# cp  /opt/SUWNut/webapps/ut/html/en/help/toc.xml \
/opt/SUNWut/webapps/ut/html/fr/help
# cp  /opt/SUWNut/webapps/ut/html/en/help/index.xml \
/opt/SUNWut/webapps/ut/html/fr/help
```

2. **Restart the Admin GUI:**

```
# /opt/SUNWut/lib/utwebadmin restart
```

Multibyte Font Display Problem

In multibyte locales using pre-1.5 releases of JRE, Java-based Sun Ray tools such as `utsettings`, `utmhconfig`, and the Registration GUI do not work properly. Proper multibyte font display requires JRE 1.5.

The workaround is to create a `guijre` symbolic link in `/etc/opt/SUNWut` to point to an appropriate JRE release, for instance:

```
# ln -s </path_to_jre_1.5> guijre
```

The Registration GUI, `utsettings`, and `utmhconfig`, can then be launched with the specified JRE.

`utselect` and `utwall`

In the Simplified Chinese, Traditional Chinese, and Korean locales, `utselect` and `utwall` do not work properly in Linux distributions.

A workaround for this issue is to remove the `utselect` and `utwall` catalog files from the appropriate locale sub-directory. This brings up `utselect` and `utwall` in English.

For the Simplified Chinese locale:

```
# rm /opt/SUNWut/lib/locale/zh_CN/LC_MESSAGES/utselect.mo
# rm /opt/SUNWut/lib/locale/zh_CN/LC_MESSAGES/utwall.mo

# rm /opt/SUNWut/lib/locale/zh_CN.utf8/LC_MESSAGES/utselect.mo
# rm /opt/SUNWut/lib/locale/zh_CN.utf8/LC_MESSAGES/utwall.mo
```

For the Traditional Chinese locale:

```
# rm /opt/SUNWut/lib/locale/zh_TW/LC_MESSAGES/utselect.mo
# rm /opt/SUNWut/lib/locale/zh_TW/LC_MESSAGES/utwall.mo
```

For the Korean locale:

```
# rm /opt/SUNWut/lib/locale/ko_KR.utf8/LC_MESSAGES/utselect.mo
# rm /opt/SUNWut/lib/locale/ko_KR.utf8/LC_MESSAGES/utwall.mo
```