Sun Ray Software 5 Release Notes

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Sun Ray Server Software 5 Release Notes

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This document contains important information about the Sun Ray Software 5 release, including the list of new features, system requirements, and known issues. Be sure to read this document before you begin using Sun Ray Software 5.

The Sun Ray Software 5 release contains the following main components:

- Sun Ray Server Software (SRSS) 4.2
- Sun Ray Connector for Windows (SRWC) 2.2

See SRS 5 Documentation for details about all the software components in the Sun Ray Software 5 release.

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What's New in Sun Ray Software 5

Feature	Description
Audio Input	Enables audio input from analog devices, such as microphones and headsets, to be redirected to a Windows session from a Sun Ray client. Audio input is supported for Windows XP and Windows Server 2003. This feature is available with the SRSS 4.2 patch, version -05 or later, the SRWC 2.2 patch, version -04 or later, and the SRWC Components 1.1 patch, version -01 or later.

Latest Firmware for the Sun Ray 3 Series Clients	Updated GUI and non-GUI firmware for Sun Ray 3 Series Clients is available with the SRSS 4.2 patch, version -05 or later.
Windows 7 and Windows 2008 Support	Windows Remote Desktop Connection Support for Windows 7 and Windows 2008 with the SRWC 2.2 patch, version -02 or later.
Common Installer for Windows Components	A new common installer for the following Windows components: Multimedia redirection, Adobe Flash acceleration, Sun Ray audio driver, and USB redirection.
USB Device Redirection	Enables users to access USB devices connected to a Sun Ray DTU from their Windows sessions. The SRWC 2.2 release supports the following USB device types: flash drives, printers, scanners, USB-to-serial adapters, and USB-to-parallel adapters. Check the Sun Ray USB Peripherals List for Windows (Oracle Supported) for the list of tested devices from each of the supported device types.
Adobe Flash Acceleration	Improved frame rates and synchronized audio, video, and animations playback for Sun Ray clients using Windows Remote Desktops.
Windows Server 2008 Support	Enables users to display applications within Windows Server 2008 in 32-bit color on Sun Ray clients. Windows Server 2008 Session Directory support is also included.
Oracle Virtual Desktop Client Support	Sun Ray session access on Windows-based and Mac-based desktops. Previously named Sun Desktop Access Client. Note: Throughout the SRS documentation, the term Sun Ray DTU is used to refer to the hardware-based thin client. With the addition of the Oracle Virtual Desktop Client, a majority of the Sun Ray DTU references also apply to the new Oracle Virtual Desktop Clients. In the future, we will use the generic term "client" to refer to all clients supported by the Sun Ray system, where appropriate.
Client-to-Server Authentication Support	SRSS now provides client-to-server authentication.
New Pop-up GUI Firmware Options	The Advanced Menu now has Video Input Disable (disables input selector on Sun Ray 270 DTUs) and Enable Fast Download (increases speed of firmware downloads).
XRender Extension Support	The X Rendering Extension (XRender) allows clients to use a new rendering model based on Porter-Duff compositing. This extension is managed through the `utxconfig` command.

SRS 5 System Requirements

This page provides the product requirements for the SRS 5 release, which includes SRSS 4.2 and SRWC 2.2.

Sun Ray Server Operating System Requirements

The following table provides the supported Sun Ray server operating systems for the SRSS 4.2 and SRWC 2.2 releases.

Platform	Releases
Solaris	• Solaris 10 5/09 or later on SPARC and x86 platforms • Solaris 10 5/09 or later on SPARC and x86 platforms with Solaris Trusted Extensions
Linux	• Oracle Linux 5.4 and 5.5 (32-bit and 64-bit) • SuSE Linux Enterprise Server (SLES) 10 with Service Pack 2 (32-bit and 64-bit) • Red Hat Enterprise Linux 5 Update 3 server (32-bit and 64-bit)

For additional operating system requirements, see Additional Software Requirements.

SRWC 2.2 System Requirements for Components

The following table provides a software support matrix for all the components of SRWC.

> **Note**
> Windows 7 and Windows 2008 R2 support requires the SRWC 2.2 patch, version -02 or greater.

	Windows XP SP 2 (64-bit)	Windows XP SP 3 (32-bit)	Windows 2003 R2 SP2 (32-bit/64-bit)	Windows Vista SP 2 (32-bit/64-bit)	Windows 2008 SP 2 (32-bit/64-bit)	Windows 7 (32-bit/64-bit)	Windows 2008 R2 (64-bit)
Windows Remote Desktop Connection Support	✓	✓	✓	✓	✓	✓	✓
SRWC Component							
Multimedia Redirection • Supported only with Windows Media Player 10 and 11	✓	✓	✓				
Adobe Flash Acceleration • Supported only with Internet Explorer version 7 and 8, 32-bit • Adobe Flash 9 content with all Adobe Flash Players from versions 9 and 10	✓	✓	✓				
USB Redirection • Supported only with Sun Ray server running Solaris 10 5/09 or later • Supported only in Full Screen Windows Kiosk Mode	✓	✓					
Audio Input	✓	✓	✓				
Session Directory/Session Broker			✓		✓		✓
32-bit Color				✓	✓	✓	✓
	Windows XP SP 2 (64-bit)	Windows XP SP 3 (32-bit)	Windows 2003 R2 SP2 (32-bit/64-bit)	Windows Vista SP 2 (32-bit/64-bit)	Windows 2008 SP 2 (32-bit/64-bit)	Windows 7 (32-bit/64-bit)	Windows 2008 R2 (64-bit)

> **Note**
> Multimedia redirection, Adobe Flash acceleration, and USB redirection require additional software to be installed on the Windows server. For detailed information, see How to Install the Sun Ray Connector Windows Components.

Licensing

The Sun Ray Software can be licensed as follows:

- Per Named User Plus - is defined as an individual authorized by the customer to use the programs which are installed on a single server or multiple servers, regardless of whether the individual is actively using the programs at any given time.
- Per Sun Ray Device - is defined as any licensed software or hardware device, whether from Oracle or a 3rd party, that accesses a Sun Ray Server environment using the ALP (Appliance Link Protocol), an Oracle Virtual Desktop Infrastructure server environment using ALP or RDP (Remote Desktop Protocol), or an Oracle Secure Global desktop environment using the AIP (Adaptive Internet Protocol).

Connecting to a Sun Ray Software environment via a Sun Ray client or the Oracle Virtual Desktop Access client without an appropriate software license is prohibited.

SRSS 4.2 Known Issues

The latest known bugs and other issues are listed here, along with appropriate workarounds when they are available.

> **Note**
> For the latest SRSS 4.2 patch information, refer to the SRS Patches page.

Installation, Configuration, and Upgrade Issues

Restart Required on RHEL (Linux)

After Sun Ray Server Software installation on RHEL, Sun Ray Services must be restarted with the following command after the Sun Ray server is rebooted:

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

Reference: CR 6481726

Shutdown/Restart Options (Linux)

SRSS installation removes Shutdown/Restart options from the console; however, users can open a terminal and execute these commands.

Reference: CR 6716548

GUI Issues

Admin GUI Upgrade

The Admin GUI requires a Web container that supports the Java Servlet and Java Server Pages (JSP) standards; earlier versions did not. Due to this change, Apache Tomcat 5.5 (or higher) has to be installed on the system, and the `utconfig` script has therefore been extended to ask for the location of an existing Tomcat instance.

If you perform an upgrade from a previous Sun Ray Server Software version (using a preserve file, for example), you must run `utconfig -w` after you have completed the upgrade. The `utconfig -w` command will prompt you for the Admin GUI settings, including the location of the Tomcat installation, after which the Admin GUI will be started automatically.

Reference: CR 6572246

Remote Access

Disabling remote access can result in an empty page.

The `utconfig -w` command allows you to enable or disable remote access to the Admin GUI. If remote access is disabled (the default), you must access the Admin GUI via `http://localhost:1660` or `http://127.0.0.1:1660`.

Accessing the Administration GUI via `http://<servername>:1660` will not work in this case and will result in an empty browser page. If you want to access the Admin GUI via `http://<servername>:1660`, you must enable remote access.

Reference: CR 6508069

Self-Registration GUI

If the wrong username or password is entered, the self-registration GUI does not allow text to be entered.

Workaround: Press the `Exit` button to relaunch the self-registration GUI.

Occasionally, use of the self-registration GUI can result in a Java core dump, although registration continues to work as expected, and no other adverse side effects are observed. However, if `coreadm` is configured to name core dumps uniquely, disk space usage should be monitored.

Reference: CRs 6533780, 6538083

SunMC (Solaris)

The Sun Ray SunMC module does not detect the status of the Admin GUI correctly and will always report the Admin GUI as not running, whether it is running or not.

Reference: CR 6507891

Multiple Authentication (Solaris)

Sometimes multiple authentications are required when the session is disconnected using a hot key sequence (the default is `Shift+Pause`).

Reference: CR 6752988

Screen Issues

Video Blanking for YUV Icons (Solaris)

While the YUV icon is displayed, the screen will not go to power saver even if the Video Blanking interval option is set.

Reference: CR 6711545

No Screen Lock for Second Linux Session (Linux)

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 &
```

Audio Issues

Low Volume on SuSE Multihead Sessions (Linux)

On SuSE, sometimes audio volume is very low in a multihead session.

Workaround: Create and use a new audio device by setting the `AUDIODEV` and `UTAUDIODEV` variables to the newly-created audio device.

Reference: CR 6552753

`xmms` Player Configuration (Linux)

To configure an `xmms` player to play mp3 files, perform the following steps:

1. Change the preferences on `xmms` output plugin to add more buffering.
2. Change the buffer size to 10000 ms and the Pre-Buffer percent to 90.
   When you run `xmms`, from command line or menu, click on the O (letter O) on the left side of the panel to bring up the Preferences menu.
3. Under the Audio I/O Plugins button, select Output Plugin OSS Driver and press the Configure button.
4. Select Buffering.
   a. The default Buffer size is 3000 ms. Change this to 10000 ms.
   b. The default Pre-buffer percent is 25. Change this to 90.
5. Press OK, then Press OK on the Preferences panel.
6. Exit `xmms` and restart it.

Reference: CR 6473628

Multimedia Issues

Media enhancements currently lack the following functionality:

- Low bandwidth
- Multiple Streams at the same time

Scaling Down Using XVideo (Solaris)

In this release, video playback using XVideo does not support scaling down.

Reference: CR 6747848

RealPlayer Rendering (Solaris)

If you press `Ctrl+Moon` while using XVideo to play a video clip in RealPlayer, the RealPlayer application sometimes fails to render for a long period of time. Pressing `Pause` followed by `Play` causes it to start working again.

Reference: CR 6752983

Slow Maximized XVideo Playback in RealPlayer (Linux)

When video is played in an enlarged size (RealPlayer maximized mode), the user's X session responds very slowly, especially to menu requests.

Reference: CR 6638225

RealPlayer Application Core Dumps (Linux)

Sometimes, RealPlayer application exits with a core dump while using XVideo to play a video clip.

This problem is caused by memory corruption in the RealPlayer process. The fix is beyond the scope of Sun Ray release.

Reference: CR 6667704

Solaris 10 Zones

Solaris 10 uses zones to permit multiple virtualized operating system environments to coexist in a single instance of Solaris, allowing processes to run in isolation from other activity on the system for added security and control. Sun Ray Software releases are supported only in the global zone.

Keyboard Issues

Right Shift Key Does Not Work (Linux)

In SLES 10 SP2, the Right Shift does not work.

Workaround: Disable the following shortcut:

From Computer -> Control Center:

1. Select Personal.
2. Select Shortcuts.
3. Select E-mail.
4. Disable it by pressing the Backspace key.

Reference: CR 6633324

Num Lock Keys Do Not Work (Linux)

In SLES 10 SP2, the Num lock keys do not work when tab is pressed in Sun Ray session.

Reference: CR 6822650

XKB on RHEL (Linux)

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 (Linux)

Numeric keypad mapping does not work properly in Java-based Sun Ray tools such as `utsettings`, `utmhconfig`, and the registration GUI.

Workaround: Set the environment variable `_AWT_USE_TYPE4_PATCH` to false, as follows:

```
# setenv _AWT_USE_TYPE4_PATCH false
```

Keyboard Layout (Linux)

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

Kiosk Issues

Set Kiosk Application Type Correctly

Some Kiosk session types allow additional applications to be launched. Within the Admin GUI, you can specify a new Kiosk application either by entering a path to an executable or by specifying a path to an application descriptor (a file that lists the various properties for the application).

The Admin GUI cannot automatically determine the type (executable vs. descriptor), so you must specify the type correctly in the Admin GUI when adding a new application.

If you specify an incorrect type, the Kiosk session cannot start up correctly, and the affected DTUs will hang, typically with a 26D error.

Workaround: Check the specified types in the Admin GUI and correct the settings, if necessary.

Reference: CR 6533804

Unconfiguring Kiosk Mode Disables Kiosk Policy

If Kiosk mode is enabled for smart card and/or for non-card sessions, then disabling Kiosk mode (using `utconfig -u -k`) also disables the Kiosk policy.

This behavior may be surprising in a failover group, where the Kiosk policy is disabled for the entire group when Kiosk Mode is unconfigured on any server in the group.

Before unconfiguring Kiosk Mode on any host in a failover group, disable the Kiosk policy, and perform a cold restart of the server group.

To perform maintenance tasks on Kiosk user accounts without unconfiguring Kiosk Mode completely, use the `/opt/SUNWkio/bin/kioskuseradm` tool instead of `utconfig`.

Sessions May Hang After CAM Migration (Solaris)

After preserving existing CAM configurations and migrating to Kiosk Mode, using `utconfig -k` and `utcammigrate -u`, sessions that should be Kiosk sessions according to policy might appear hung and show only a black screen.

To recover from this condition, terminate these sessions. To ensure that all affected sessions are terminated, perform a cold restart of the Sun Ray server group.

Mass Storage Issues

USB Operations Fail After Idle Timeout Limit

If a user fails to access a given session for longer than the screen lock idle timeout interval while an application is accessing a USB device -- for instance, while copying a large number of files to or from a USB flash drive -- the session will be locked. With RHA, NSCM, and authenticated smart cards, this means the session detaches and all USB devices disconnect from the session. This can interrupt or abort the application's access to the device.

Workaround:

- Advise users to monitor their USB device usage to avoid being timed out
- Set the timeout interval value high enough to allow I/O to complete before the interval elapses
- Disable the screen saver
- Disable RHA

> ⚠ Caution
> The last two alternatives are less desirable because they each remove a level of security.

Memorex Disk

Memorex disk does not work when connected to a Sun Ray 2FS DTU.

Reference: CR 6846292

Solaris Trusted Extensions Issues

Applying Solaris 10 patch 125720-41 or later on a Sun Ray server degrades Sun Ray DTU performance

This problem occurs on a Sun Ray server configured with Trusted Extensions.

Workaround: Install the SRSS 4.2 patch -03 or later on the Sun Ray server.

Reference: CR 6967194

Audio

Remove the setuid-0 bit on the `utaudio` binary.

```
# chmod u-s /opt/SUNWut/bin/utaudio
```

Volume Control

The volume control applet on the panel doesn't work in Trusted JDS.

Workaround: To adjust the volume, use the three volume keys on the keyboard or launch the Sun Ray Settings GUI by pressing `Shift+Props`.

Reference: CR 6481380

Multiple Slices/Partitions

Sun Ray mass storage handles a single slice or partition for use by the Trusted Extensions device allocation framework.

Reference: CR 6535611

Mount Points

Mount points for USB mass storage devices with HSFS/UFS/PCFS file systems are not removed correctly.

Reference: CR 6538004

Flash Disk Allocation

Allocating flash disk with UFS file system second time does not work.

Workaround: Hot-plug the device.

Reference: CR 6562880

Multihead Role Assumption

In a multihead Trusted JDS session, role assumption does not work until `utmhscreen` is removed.

Reference: CR 6709982

Multihead Screen Lock

In multihead trusted CDE session, the session cannot be retrieved once the screen has been locked manually via screen lock.

Workaround: Users should use `Shift-Pause` to lock their screens.

To avoid this situation by making sure that the screen cannot be locked in the normal fashion, comment out the following line in the `/etc/pam.conf` file:

```
dtsession-SunRay auth sufficient /opt/SUNWut/lib/pam_sunray.so syncondisplay
```

A second alternative is to disable RHA, either by specifying the `-D` option to `utpolicy` or by selecting `Direct Session Access Allowed` from the Advanced/System Policy page of the Admin GUI.

Reference: CR 6713236

Sun Ray Interconnect Configuration

The following entry should be made available in `/etc/security/tsol/tnrhdb`:

```
0.0.0.0/32:admin_low
```

Reference: CR 6744443

xscreensaver Links

Verify that following links are created so that xscreensaver can work correctly:

```
# ln -s /usr/openwin/bin/xscreensaver /usr/bin/xscreensaver
# ln -s /usr/openwin/bin/xscreensaver-command /usr/bin/xscreensaver-command
# ln -s /usr/openwin/bin/xscreensaver-demo /usr/bin/xscreensaver-demo
```

Localization Issues

Swedish Locale

To enable the Swedish locale for Solaris, use the `pkgadd` command to install these packages:

```
# pkgadd -d . SUNWsuta
# pkgadd -d . SUNWsutes
# pkgadd -d . SUNWsuto
# pkgadd -d . SUNWsutwa
# pkgadd -d . SUNWsutwh
# pkgadd -d . SUNWsutwl
# pkgadd -d . SUNWskio
```

To enable the Swedish locale for Linux, use the `rpm` command to install these packages:

```
# rpm -i SUNWsuta-4.2-04.i386.rpm
# rpm -i SUNWsuto-4.2-04.i386.rpm
# rpm -i SUNWsutwa-4.2-04.i386.rpm
# rpm -i SUNWsutwh-4.2-04.i386.rpm
# rpm -i SUNWsutwl-4.2-04.i386.rpm
# rpm -i SUNWskio-4.2-04.i386.rpm
```

Portuguese Locale

To enable the Portuguese locale for Solaris, use the `pkgadd` command to install these packages:

```
# pkgadd -d . SUNWputes
# pkgadd -d . SUNWputo
# pkgadd -d . SUNWpkio
```

To enable the Portuguese locale for Linux, use the `rpm` command to install these packages:

```
# rpm -i SUNWputo-4.1-04.i386.rpm
# rpm -i SUNWpkio-4.1-04.i386.rpm
```

`utselect` and `utwall` (Linux)

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

Workaround: 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
```

Contents

SRWC 2.2 Known Issues

The latest known bugs and other issues are listed here, along with appropriate workarounds when they are available.

> **Note**
> For the latest SRWC 2.2 patch information, refer to the SRS Patches page.

General Issues

CR 6361417

In certain scenarios, redirecting serial ports to a Windows Terminal Server can consume up to 99% of the Sun Ray server's CPU.

CR 6408886

MS-IME is not enabled when you invoke `uttsc` or `uttscwrap` without command line options on Japanese locales.

Invoke `uttsc` or `uttscwrap` with the option `-l ja:IME`. For example:

```
% _uttscwrap -l ja:IME
```

CR 6497242

Audio does not play clearly when an audio file is played in Windows Vista session on Linux.

CR 6573456

In a Trusted Solaris environment, the SRWC application may crash unexpectedly when copy/paste is attempted between SRWC and any other application, such as `gedit`, when one application is running in a global zone and the other is in a labeled zone.

CR 6576612

Killing `xscreensaver` can prevent SRWC from displaying. If the `xscreensaver` daemon dies ungracefully on Linux desktops or JDS on Solaris, then the SRWC window may not display when SRWC is started.

The workaround for this problem is to restart the `xscreensaver` daemon from the {{xscreensaver_ Preferences window:

1. Launch->Preferences->Desktop Preferences->Display->Screensaver on JDS on Solaris.
2. Lock the screen and unlock it again.
3. Restart SRWC.

CR 6579953

On Red Hat Linux, after a hotdesking event (i.e. removing and re-inserting a smart card), `xscreensaver` may not come up, and the mouse may hang.

This is not an issue where Remote Hotdesk Authentication (RHA) is enabled by default.

CR 6634751

When launching a full-screen SRWC session (`uttsc -m`) in a multihead setup on RHEL5, you may not be able to access the session after moving the cursor back and forth between displays.

The workaround is to use ALT+TAB to return the focus to SRWC.

CR 6693925

The `uttsc -C` option works only with 8-bit mode.

CR 6742851

Japanese keyboards using `Xkb` do not work correctly out of the box with SRWC 2.2.

The workaround is to disable `Xkb` (using `utxconfig`) on the desktop before launching SRWC, after which all keys should work as expected.

CR 6898522

Using SRWC from a Sun Desktop Access Client with per-device licensing mode is not supported. You should use per-user licensing mode when using SRWC from a Sun Desktop Access Client.

> Patch Available
> This CR is fixed in the SRWC 2.2 patch.

CR 6699151

Multiple copy operations using Windows and `gedit` sometimes cause `uttc` on Linux platforms to exit with errors.

Smart Card Authentication for Windows Terminal Server Issues

To use smart cards to authenticate users to the Windows Terminal Server, install the Base Smart Card Cryptographic Service Provider Package update from:

```
http://support.microsoft.com/kb/909520/en-us
```

This update improves screen unlocking behavior in the Sun Ray environment.

Multimedia Issues

Multimedia Enhancements

Multimedia enhancements currently lack the following functionality:

- Low bandwidth
- Xinerama
- Multiple Streams at the same time

Windows Performance Counter API Requirement

The Adobe Flash Acceleration and Sun Ray Audio Driver components require hardware that supports the Windows Performance Counter API. If the Windows Performance Counter API is not working properly, the components might fail to load or behave unexpectedly. In one known example, this problem occurs when a computer has the AMD Cool'n'Quiet technology enabled in the BIOS, which is documented in http://support.microsoft.com/kb/895980.

CR 6637773

When video is played in Windows Media Player, Right Click does not work over the video rendering area.

CR 6665881

`uttsc` does not support XRandR.

CR 6692562

Audio and video hang in Windows Media Player, if the Next/Previous frame controls in Show Enhancements Options are used.

CR 6695339

Frame-by-frame video playback in Windows Media Player is not supported in this release.

CR 6699191 and 6751847

In Windows Media Player, video playback using the Playlist option may not work correctly and is not supported.

Disable Windows Media Player Repeat Mode before playing media clips:

1. Open Windows Media Player.
2. Disable Repeat mode.
3. Close and restart Windows Media Player.
4. Play the clips.

CR 6699771

Sometimes VC-1 (WMV9) video does not play on the first attempt in Windows Media Player. Relaunching the clip resolves the issue.

CR 6708878

The Stop button causes the video player to display the last frame of content instead of going black.

CR 6739180

Multimedia enhancements are not supported in Windows Session Directory environment. Installation of the Multimedia Redirection Component (MMR) is not recommended in this environment.

In this setting, SRWC needs to be used with the `-M` off option. With the `-M` off option, audio/video playback is the same as with previous releases of SRWC.

CR 6739703

Audio continues to play when multimedia enhancements are in use, for instance, when video clips in a supported format are played, even when audio mapping is disabled.

If you need to force disabling of audio mapping, use SRWC with the `-M off` option. With the `-M off` option, audio/video playback is the same as with previous releases of SRWC.

CR 6743479

When a user running VC-1 (WMV9) video playback on Sun Ray 2 series DTU hotdesks to a Sun Ray 1 series DTU, the audio stops working.

The workaround is to relaunch Windows Media Player to play the video.

CR 6747848

Video playback using XVideo does not support scaling down.

CR 6750392

The volume controller in the task bar cannot be used when multimedia enhancements are in use, for instance, when video clips in a supported format are played.

Use the Windows Media Player volume controls or the volume keys on the Sun keyboard instead.

CR 6750393

If Sun Ray session is hotdesked from a Sun Ray 2 to a Sun Ray 1 DTU while a VC-1 (WMV9) video clip is being played, then audio stops working.

The workaround is to relaunch Windows Media Player.

CR 6750394

Video image problems may occur when a user hotdesks a Sun Ray session from a Sun Ray 2FS with two screens to a Sun Ray 2 or 270 if the `uttsc` or video window is not near the left-most border of the desktop and the video is being scaled up.

The workarounds are:

- Keep the video near the left-most border of the desktop.
- Make sure that scaling does not occur by using the application menus or command keys to set video image size to 100%.

CR 6786845

With the Adobe Flash acceleration component installed, some or all control elements of the Flash settings dialog might not react to mouse or keyboard events. This may include the button to close the dialog.

The workaround is to reload the entire web page in the browser.

Multimedia redirection (SunMMR) does not support Windows Media Player in skin mode (CR 6921580)

When using the Windows Media Player in skin mode, the output may only show a black screen in some scenarios. The workaround is to use the Windows Media Player in full mode instead of skin mode.

SRWC session freezes when Windows Media Player is used with Multimedia redirection (SunMMR) installed and firewall on (CR 6929900)

The Windows machine does not have the proper port open for the firewall. The Multimedia redirection (SunMMR) feature requires that a TCP port between 6000 and 10000 must be open for the firewall. Opening port 6000 should be sufficient unless some other service is using it.

PCFS-formatted Media Access Issues

File Copying on Solaris (CR 6546531)

Copying a large file from Windows onto PCFS-formatted removable media can take a longer time than expected and appear to hang, although, given sufficient time, the operation will complete. This is a known issue with PCFS.

Patch Available
This CR is fixed in the SRWC 2.2 patch.

File Copying on Linux

Copying a large file from Windows onto PCFS-formatted removable media does not work, due to known Linux limitations. The workaround for this condition is to use other file systems than PCFS, such as UFS, ext3, or etc.

USB Redirection

Scanning Does Not Work When Using Scanner Button (CR 6885825)

With some scanners, scanning does not work when initiated by the button on the scanner. You can still scan documents by initiating the scan from the software.

Explore Window Not Launched Automatically After Inserting Flash Disk (CR 6840545)

The Explore Window (disk contents) is not launched automatically after inserting a flash disk. The program must be manually launched. This is a different behavior than the Windows behavior on a console session.