Sun Ray™ Connector for Windows OS, Version 2.1 Release Notes

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Contents

Supported Platforms 1
What's New 2
Multimedia Enhancements 2
What's Changed 2
Patch Requirements 3
Known Issues 4
Known Bugs 4
Other Issues 6
Smart Card Authentication for Windows Terminal Server 6
Multimedia Issues 7
PCFS-formatted Media Access 10
Time Zone Issues 10
Documentation 10

Sun Ray Connector for Windows OS 2.1 Release Notes

The Sun Ray™ Connector for Windows Operating Systems is a Sun-supported, Microsoft-certified terminal services client based on the Microsoft Remote Desktop Protocol (RDP) Version 5.2. It is described in *the Sun Ray Connector for Windows Operating Systems 2.1 Installation and Administration Guide*. For convenience, the Sun Ray Connector for Windows Operating Systems is often called the Sun Ray Windows Connector.

Supported Platforms

The Sun Ray Windows Connector runs on the following operating systems:

- Solaris 10 5/08 or higher on SPARC and x86 platforms
- Solaris 10 5/08 or higher on SPARC and x86 platforms with Solaris Trusted Extensions
- SuSE Linux Enterprise Server (SLES) 10 with Service Pack 1 or later (32-bit and 64-bit)
- Red Hat Enterprise Linux 5 Update 1 (32-bit and 64-bit)

While running on any of the operating systems listed above, the Sun Ray Windows Connector provides connectivity to remote Microsoft Windows Terminal Servers (WTS) hosting any of the following versions of Microsoft Windows:

- Windows 2003 Server with Service Pack 2 Rollup 2 or
- Windows XP Professional with Service Pack 3 (32-bit) or Windows XP Professional with Service Pack 2 (64-bit)
- Windows Vista

Details are described in the *Sun Ray Connector for Windows OS Version 2.1 Installation and Administration Guide*.

What's New

Multimedia Enhancements

This release provides enhanced multimedia playback capabilities that extend the Sun Ray architecture to accept H.264 (MPEG-4) and VC-1 (WMV9) streams and transmit them directly to Sun Ray 2/2FS/270 DTUs for decoding. In this case, neither the Sun Ray Server CPU nor Windows Server CPU is used for decoding. This is the optimal solution for conservation of server resource and network bandwidth.

For other types of video streams, this release leverages the standard (XVideo) interface on both Sun Ray 1 and Sun Ray 2 DTUS for general purpose player optimization, sending YUV streams directly to the DTU. This enables improved playback of video formats other than H.264 and VC-1 by reducing the bandwidth required to deliver the decoded video to the Sun Ray DTU. For example, RealPlayer supports the XVideo extension to utilize the accelerated YUV path.

This enhancement is supported only for clips played using Windows Media Player 10 and 11 on Windows XP and Windows 2003 platforms. Details are described in the *Sun Ray Connector for Windows OS Version 2.1 Installation and Administration Guide*.

What's Changed

The following items are no longer supported:

- Microsoft Windows 2000
- The `uttsc -D` option
- PC-SC lite version 1.0

Patch Requirements

The following patches, which may not yet be part of the recommended patch cluster, are required for Solaris implementations. Please verify that they are installed.

TABLE 1 Required Patches for Sun Ray Windows Connector 2.1 on Solaris 10

Platform	Patch Number
Solaris SPARC	120094-20 or later
Solaris x86	120095-20 or later

TABLE 2 Additional Required Patches for Sun Ray Windows Connector 2.1 on Solaris Trusted Extensions

Platform	Patch Number
Solaris SPARC with Solaris Trusted Extensions	126363-06 or later
Solaris x86 with Solaris Trusted Extensions	126364-06 or later

Known Issues

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

Known Bugs

Bug ID 6361417

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

Bug ID 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
```

Bug ID 6497242

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

Bug ID 6569123

Cutting or copying and pasting large amounts of data from Sun Ray to Windows fails.

The largest amount of data that can be copied at once is 65435 bytes. The workaround is to cut or copy and paste the data in smaller chunks.

Bug ID 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.

Bug ID 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.

Bug ID 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 no longer an issue with SRSS 4.1/SRWC2.1, where Remote Hotdesk Authentication (RHA) is enabled by default.

Bug ID 6610273

The Minimize button is not working in full-screen Windows sessions on RHEL5 builds.

Bug ID 6633672

Unable to launch Windows Connector session from RHEL5.

The RPM `compat-libstdc++-33-3.2.3-61.i386.rpm` needs to be installed before `uttsc` can be launched from RHEL5.

Bug ID 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.

Bug ID 6693925

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

Bug ID 6740825

Korean language filenames on USB devices cannot be modified if the filenames are longer than eight characters

Bug ID 6742851

Japanese keyboards using `Xkb` do not work correctly out of the box with SRWC 2.1.

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

Bug ID 6999151

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

Other Issues

Smart Card Authentication for Windows Terminal Server

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

Bug ID 6637773

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

Bug ID 6665881

`uttsc` does not support XRandR.

Bug ID 6692562

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

Bug ID 6695339

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

Bug ID 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.

Bug ID 6699771

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

Bug ID 6708878

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

Bug ID 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.

Bug ID 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.

Bug ID 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.

Bug ID 6747848

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

Bug ID 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.

Bug ID 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.

Bug ID 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:

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

Bug ID 6754617

Sometimes uttsc-bin can consume a large percentage of Sun Ray Server CPU while playing video through the accelerated YUV path. The percentage drops to normal when the playback is completed.

PCFS-formatted Media Access

File Copying on Solaris (Bug ID 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`.

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`.

Time Zone Issues

`uttsc` only considers time zones listed in `/usr/share/lib/zoneinfo/tab/zone_sun.tab` (for Solaris) and `/usr/share/zoneinfo/zone.tab` (for Linux), as valid zones, which can be converted into the equivalent time zones in the Windows session. If the time zone is set to a value other than those defined in these files, then the time zone value in the Windows session can be unexpected.

Documentation

The most up-to-date versions of documentation for this product are available on `docs.sun.com`.