



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

BETA DRAFT

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Contents

What's New	1
Multimedia Enhancements	1
Patch Requirements	2
Known Issues	2
Known Bugs	2
Other Issues	6
Smart Card Authentication for Windows Terminal Server	6
Multimedia Issues	6
PCFS-formatted Media Access	8
Time Zone Issues	9
Documentation	9

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 Connector.

What's New

Multimedia Enhancements

This release delivers enhanced multimedia playback capabilities on Sun Ray DTUs by extending Sun Ray architecture to accept H.264 (MPEG-4) and VC-1 (WMV) streams and transmit them directly to Sun Ray 2/2FS/270 DTUs for decoding.

The Sun Ray Server CPU and Windows Server CPU are not utilized to perform the decode. This is the optimal solution for server resource conservation and network bandwidth consumption.

This release leverages the standard (XVideo) interface for general purpose player optimization for Sun Ray 1 and Sun Ray 2 where YUV streams are sent directly to the Sun Ray 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 on Solaris supports the XVideo extension to utilize the accelerated YUV path.

This enhancement is supported on Windows XP and Windows 2003 platforms only. Also, only clips played using Windows Media Player 9 and 10 are supported by this enhancement. Details are described in the *Sun Ray Connector for Window OS Version 2.1 Installation and Administration Guide*.

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 Connector 2.1

Description	Patch Number
Solaris SPARC	120094-20
Solaris x86	120095-20

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 any 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 6498445

SRWC is unable to show redirected files larger than 2 GB in size.

The workaround is to press and release the meta key (`Ctrl` or `Shift`) once in the Windows session.

Bug ID 6544282

If the SRSS Multihead feature and Xinerama are enabled, then when an SRWC session is launched in full-screen mode, it is not displayed on the secondary head(s).

Bug ID 6569123

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

The largest amount of data that can be copied 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 of these 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 re-start the `xscreensaver` daemon from the `xscreensaver` Preferences window as follows:

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.

Starting `uttsc` in non-full-screen mode then pulling and re-inserting the card into the same DTU can occasionally make the mouse pointer disappear and the screen lock not to appear. This problem appears only on Linux, and it usually happens if the SRWC window covers the center of the desktop, where the mouse pointer is placed when the card is inserted.

To recover from this condition, kill and restart the `xscreensaver` process.

Bug ID 6603747

`uttsc` fails to run when run from a role which is selected as a normal user on TX. This is a Trusted Solaris issue; a patch for Solaris 10 U5 is expected for the fix.

Bug ID 6610273

Minimize button is not working on RHEL5 and Nevada builds in full-screen Windows connector.

Bug ID 6634751

Sometimes keyboard hangs are seen with fullscreen windows session on RHEL5. At this time the focus seems to be in the terminal windows below the fullscreen session. An Alt-Tab usually brings focus back to the Windows Connector session.

Bug ID 6633672

Unable to launch windows 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 6639505

The volume icon in the task bar has no effect when used to adjust volume when media files are played using Windows Media Player.

The workaround is to use the Windows Media Player volume control or the three Volume keys on the Sun keyboard to control the volume.

Bug ID 6695339

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

Bug ID 6695970

`uttsc` fails to launch on RHEL5.1 platforms.

The workaround is to set the value `SELINUX=disabled` in the `/etc/selinux/config` file, after which `uttsc` should work correctly.

Bug ID 6699191

Windows Media Player Repeat Mode should be disabled before playing the media clips:

1. Open Windows Media Player.
2. Disable Repeat mode.
3. Close and restart Windows Media Player, then play the clips.

Bug ID 6705377

Copying large amounts of content (~67KB) from `notepad` in `uttsc` windows to `dtpad` produces a core dump.

Bug ID 6708878

Video does not go to black screen when the Stop button is pressed.

Bug ID 6712616

In some scenarios uttsc exits with X Error messages.

The workaround is to restart the SRWC session.

Bug ID 6719456

Video is sometimes not seen when VC-1 (WMV) streams are played using the Playlist option.

The workaround is to double-click on the filename under Now Playing list.

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

Media enhancements will not work in the following environment in the Beta release:

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

Note – If video and audio are out of sync (i.e., if video is not decoded fast enough), it is necessary to speed up the decoding process of the video. If this is not possible because the video is too complex for the Sun Ray DTU, the decoding needs to be simplified. In such scenario, to decode the video faster, only the luma data are decoded, whereas the chroma data are dropped. This reduces CPU consumption and results in black and white video. The video can return full-color mode at the next intra-predicted frame (i-frame).

Multihead Video Hotdesking (Bug ID 6709408)

When a session is started on a multihead group and then hotdesked to a smaller multihead group or a single DTU, video may appear on the wrong screen.

While playing a video on the visible screen, when the mouse is dragged to the edge resulting in a screen swap, one or more frames will display on the new screen.

The workaround is to cause a redraw of the affected area of the screen:

- 1. Drag a window over the video frame image.**
- 2. Maximize and minimize a window.**

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 `zone_sun.tab` (for Solaris) and `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`.

