



Sun Ray™ Connector for Windows OS Release Notes

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Sun Ray Connector for Windows OS Beta Release Notes

Description

The Sun Ray™ Connector for Windows OS 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 OS Installation and Administration Guide*. For convenience, the Sun Ray Connector for Windows OS is often called Sun Ray Connector in this document.

Additional Features, Notes, and Requirements

This section contains additional information on the PC/SC SRCOM bypass download, how to set up smart card logins, hotdesking behavior, and the JDS integration package for Solaris.

Subsequent sections document:

- How to launch the Sun Ray Connector from a Trusted Solaris environment
- Known problems
- Windows 2000 limitations

PC/SC SRCOM Bypass Download

Please download the latest PC/SC SRCOM bypass from:

<http://www.sun.com/download/products.xml?id=42c5d3d9>

Setting Up Smart Card Login

To set up Smart Card login for Windows with the Sun Ray Connector:

1. **Setup Active Directory and Certification Authority (CA) on Windows Server**
2. **Install latest PC/SC SRCOM bypass version 1.1 build 04 on Sun Ray server**
3. **Install Smart Card middleware product on Windows Terminal Server**
(ActivIdentity ActivClient version 5.4 is recommended).
- **If you use ActivClient version 5.4 middleware, set “Disable PIN Obfuscation” to Yes through ActivClient user console on the Windows Server.**
4. **Enroll necessary Certificate(s) onto the Smart Card using either Sun Ray Token Reader or External Smart Card Reader connected to the Windows Server.**

Hotdesking Behavior

When a user hotdesks from one Sun Ray DTU to another, the Sun Ray Connector drops its connection to the Windows Terminal Server and reconnects when the user reconnects to the Sun Ray session. This behavior is a required in order for the current DTU to be able to use the appropriate license.

This means the user has to log in to the Windows session again after every hotdesk event. It is exactly the same as if the Sun Ray Connector had been stopped and relaunched.

All features show the same effects. For example:

- Windows Media Player stops playing audio although the application is still active on the Windows session. The user needs to replay the audio.
- Any serial port transfer is stopped.
- All the command line options specified remain valid.

JDS Integration Package for Solaris

The JDS integration package for Solaris, delivers a CLI, `uttscwrap`, that improves integration of the Sun Ray Connector for Windows with the JDS desktop on Solaris 10.

To launch the Sun Ray Connector through `uttscwrap`, provide the same parameters on the `uttscwrap` command line as you would provide on the `uttsc` command line.

`uttscwrap` provides a login dialog that allows input of credentials (*username/domain/password*). The credentials can be saved through the dialog for subsequent invocations. At the next launch, the dialog is prefilled with the credentials.

Credentials are saved separately for each Windows server/application combination. This allows you to save different credentials the following ways:

- For different applications on the same server
- For different applications on different servers
- For different server sessions with no applications launched

Any new credentials saved for a server/application replace previously saved credentials.

Use `uttscwrap` when desktop or menu launchers are defined to launch either Windows Terminal Services sessions or Windows applications on various Windows servers.

`uttscwrap` is installed in `/opt/SUNWuttscwrap/bin/uttscwrap`.

Trusted Solaris Configuration

To launch Windows terminal server session in a Trusted Solaris environment:

1. **Assume the primaryadmin role.**
2. **Create a profile and assign** `file_dac_read`, `file_dac_search`, `file_dac_write`, `file_mac_write`, **and** `net_mac_read` **privileges to the** `/opt/SUNWuttsc/bin/uttsc` **command.**

After the changes, the profile description database `/etc/security/prof_attr` will have the following entry:

```
Sun Ray Connector:::Sun Ray Connector for Windows Terminal Services:help=RtSunrayConnector.html
```

The execution attributes database `/etc/security/exec_attr` will have the following entry:

```
Sun Ray Connector:tsol:cmd:::/opt/SUNWuttsc/bin/uttsc:uid=0;privs=4,5,6,12,33
```

3. **Add** `net_mac_read` **and** `net_reply_equal` **privileges to** `utdsd`.
4. **Configure the Windows server to match the same label as the** `uttsc` **by updating trusted network database** `/etc/security/tsol/tnrhdb`.

For example, if `uttsc` is launched from an unclassified label, then the trusted network database `/etc/security/tsol/tnrhdb` will have the following entry:

```
10.6.132.155:unclassified
```

5. **Assign the profile created in Step 1 to a role/user which launches** `uttsc` **client in a profile shell.**

For example, if the Sun Ray Connector profile is created and assigned to a demouser, then the extended user attributes database `/etc/user_attr` will have the following entry:

```
demouser:::lock_after_retries=yes;idletime=30;idlecmd=lock;  
profiles=Sun Ray Connector; type=normal;labelview=showsl
```


6. Launch a terminal server session using the profile shell.

For example, open a terminal and type:

```
$ pfcsh  
% /opt/SUNWuttsc/bin/uttsc <windows_terminal_server_name>
```

Known Issues

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

Bug ID 6340005

The Windows Picture and Fax Viewer application does not display large image files properly from a redirected drive on the Sun Ray Connector session.

Bug ID 6341926

Audio should be enabled with high quality by default.

To enable audio, use the **-r** option, as in:

```
% uttsc -r sound:high <WindowsServerName>
```

Bug ID 6345509

The cut and paste menu options do not work correctly in transfers from **gedit** or **OpenOffice** from a Sun Ray session to a Windows application.

The issues have been identified as related to Gnome and StarOffice, and appropriate bugs have been logged.

The workaround is to use **Ctrl-C** and **Ctrl-V** instead of menu options to perform these operations.

Bug ID 6347830

Sun Ray Connector dumps core in certain scenarios, for instance, if you:

- Redirect two or more serial ports and close them.
- or
- Open a redirected serial port and start a data transfer and simultaneously start Windows Media Player and play an audio file.

Bug ID 6350936

Sun Ray Connector takes around 50% CPU when audio and video are played from Windows applications.

Bug ID 6351031

If a user presses **Alt+Tab** to cycle around applications while not in fullscreen mode, this shortcut is handled by the local desktop session. When the user cycles back to the Sun Ray Connector window, typing is disabled.

The workaround is to press **Alt** again in the Sun Ray Connector window.

Bug ID 6354175

Sun Ray Connector does not support printer configuration caching with Windows 2000 if the **-p** option is provided on the **uttsc** CLI.

Bug ID 6356947

Sun Ray Connector application dumps core when it is configured as a critical application in CAM. This is mostly seen after long idle time periods.

Bug ID 6359564

If all the following conditions are present, the user is presented with a black screen upon hotdesking:

- CDE as the desktop manager on Solaris
- Sun Ray Connector in full screen mode (i.e using **-m** option)
- Screen lock enabled

The workaround is type the user's password blindly to unlock the screen, even though the screen lock is not presented. This causes the session to display correctly.

Bug ID 6360175

Some screensavers that are part of Windows 2000 contain a lot of animation. Sun Ray Windows Connector sessions running Windows 2000 screensavers can overload the Sun Ray server CPU (the Sun Ray Connector and the X server show high CPU usage). This problem appears on Solaris 8 only.

The way to solve this problem is to not use these screensavers in user sessions. Please consult the Windows documentation for information on how to disable screensavers for Terminal Services sessions.

Bug ID 6363133

Once a copy and paste operation has been performed, any subsequent copy and paste operation from the same **dtterm** window to a Windows application always shows the data from the first such operation.

Bug ID 6363311

Users need the ability to have the local windowing manager retain keystrokes such as **Alt+Tab**, or to have the remote Windows session have full focus of the keyboard.

An option to handle shortcuts in the local desktop session or in the Windows session is planned for implementation post-beta.

Bug ID 6363665

If a user tries to connect to an incorrect IP address, the Sun Ray Connector hangs. If the user tries to stop it with **Ctrl+C**, the Sun Ray Connector dumps core.

Windows Limitations

- The Sun Ray Connector's password option does not work when connecting to Windows 2000.
- The following features are not supported on Windows 2000:
 - Audio
 - Drive mapping
 - Serial port redirection

Documentation Issues

PDF versions of the beta documentation have not been built into the release image; however, they are available from the Sun Download Center (SDLC).

