



ThinConnect UNIX Tools* Installation Notes

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* The Tektronix OEM name for Citrix's *UNIX Integration Services* (UIS). All documentation refers to this product as *UNIX Integration Services* (UIS).



Customer Support for ThinConnect UNIX Tools

Tektronix provides varying levels of hotline technical support for *ThinConnect UNIX Tools*, depending on your needs. To learn more about our hotline support options, please contact your Tektronix reseller or, in the United States, call 1-800-547-8949. You can also check out our support options on our website at:

<http://www.tek.com/VND/Support>

Online Help

For more information on *UNIX Integration Services* (UIS), go to the following URL:

<http://www.tek.com/VND>

In the left corner of the page click on Online Documentation. A scrolling list of manuals will appear. Choose the ThinConnect entry and press the Go button. This links you to all available documentation on UIS.

In addition, consult your Windows-based online *UNIX Integration Services Administrator's Guide* for detailed procedural information.

Preparing to Install

This section explains how to install *UNIX Integration Services* on a Citrix Server. Before you run the *UNIX Integration Services* setup program, make sure that:

- *MetaFrame* Version 1.0 or *WinFrame* Version 1.7 is installed and configured on the server machine.
- Your system has sufficient free disk space for the installation. You need a minimum of 15MB to install *UNIX Integration Services*. The setup program checks the available disk space, and if it is found to be insufficient, abandons execution.

During the installation you have the option to install a *UNIX Integration Services* license. If you choose this option you must have the licensing serial number available. Alternatively, you can license *UNIX Integration Services* after the installation has completed.

Note: Your license number is on a sticker attached to the *UNIX Integration Services* CD-ROM jewel case.

Installing

To install *UNIX Integration Services*:

1. Log onto the Citrix Server as an administrator.
2. Place the *UNIX Integration Services* CD-ROM in the CD-ROM drive on the server. Alternatively, use the CD-ROM drive on a network computer and share the root directory of the CD-ROM drive.

In *MetaFrame*, if the CD-ROM drive is configured to autostart, then you will see an installation dialog box appear with three options: Install UIS; Browse This CD; and, Exit.

3. Click Install UIS.

- Or -

In *WinFrame*, or if the CD-ROM drive is configured not to autostart, open a command prompt, change to the top level directory on the CD-ROM drive, and type the following command:

setup

A setup dialog box will then appear.

4. Click Next to continue with the installation or Cancel to cancel the installation. If the installer detects that a suitable license is not already installed, it will prompt you to decide whether to install a license now.
5. Click Yes if you want to launch the licensing program and add a license now, or No if you want to add a license later. See *Licensing* on page 4 for instructions on how to add a license.

Note: *Users cannot logon at X11 connections or use the client UIS tools until the licensing information has been added on the Citrix Server.*

The *UNIX Integration Services* files are installed on the Citrix Server, and an unlimited number of available X11 connections are created.

6. Click Yes in the next dialog box to disable these X11 connections, or click No to make the X11 connections available immediately.

It is recommended that you disable the X11 connections temporarily to prevent client licenses from being misallocated. After the installation is complete, use *Configuration Manager* to restrict X11 connection permissions to the intended client desktops, then use *Terminal Server Connection Configuration* to enable



the X11 connections.

7. Click Yes to restart the system and start *UNIX Integration Services*, or No to restart the system later.

Note: *You must restart the server before you can use UNIX Integration Services.*

Licensing

Before users can logon via X11 connections or use the other tools and utilities supplied with *UNIX Integration Services*, you need to install a *UNIX Integration Services* license on the Citrix Server. If you do not do this during setup, you can use *Citrix Licensing* (in *MetaFrame*) or *WinFrame Licensing* (in *WinFrame*) to install a *UNIX Integration Services* license.

Note: *You are strongly encouraged to keep your license number information in a safe place. .*

In accordance with the Microsoft Windows Terminal Server licensing scheme, client licenses are bound to a hardware characteristic of each connecting client. In the case of an X desktop using *UNIX Integration Services* to connect to a *MetaFrame* Server, the license is based on a number of factors including the X desktop's IP address.

Each time an unlicensed client accesses a *MetaFrame* Server through an X11 connection a client license is permanently assigned. Once assigned, the license cannot be allocated to an alternative IP address. Displaying the logon dialog box is enough to assign a license, even if the logon process is not completed.

To avoid misallocating licenses, it is recommended that you first temporarily disable X11 connections, use *Configuration Manager* to restrict X11 connection permissions to the intended X desktops, then enable the X11 connections.

WARNING: *If you configure an X desktop to obtain its IP address from a DHCP server, subsequent connections to a MetaFrame Server are successful only if the allocated IP address matches an IP address in the list of licensed connections. For this reason it is recommended that you assign a fixed IP address to each X desktop, or configure your DHCP server to allocate only licensed IP addresses.*

To license *UNIX Integration Services*:

1. In *MetaFrame*, click Start on the task bar, point to Programs, point to MetaFrame Tools (Common), then click Citrix Licensing.
- Or -
In *WinFrame*, double-click WinFrame Licensing in the Administrative Tools group. The Licensing window appears, listing the licenses installed on the Citrix Server.
2. On the License menu, click Add. The Enter License Serial Number dialog box appears.
3. Enter the licensing serial number supplied by Citrix Systems and click OK. The *UNIX Integration Services* license is added to the list.
4. Restart the Citrix Server to start *UNIX Integration Services*.
5. Activate the license.

Note: For more information, see the *Licensing* chapter in the *MetaFrame Administrator's Guide*.



Configuring *MetaFrame* X11 Connections

Use *Terminal Server Connection Configuration* to create, configure, and maintain X11 connections to *MetaFrame* Servers. (For instructions on configuring X11 connections to *WinFrame* Servers, see *Configuring WinFrame X11 Connections* on page 8.)

X11 connections must be configured before X desktop users can access the *MetaFrame* Server. When you install *UNIX Integration Services* on a *MetaFrame* Server, an unlimited number of X11 connections are automatically created for you. Depending on your network requirements, you may need to edit their configurations, as described below.

Starting and Quitting *Terminal Server Connection Configuration*

To start *Terminal Server Connection Configuration*:

1. Log onto the *MetaFrame* Server console as an administrator.
2. Click Start on the taskbar, point to Programs, point to Administrative Tools (Common), then click *Terminal Server Connection Configuration*.

The *Terminal Server Connection Configuration* window appears, listing the current *Terminal Server* connections that clients can use to connect to the *MetaFrame* Server.

To quit *Terminal Server Connection Configuration*:

On the Connection menu, click Exit.

Adding and Editing Connections

Use *Terminal Server Connection Configuration* to add new X11 connections or to configure existing X11 connections.

To add an X11 connection:

1. On the Connection menu, click New.
The New Connection dialog box appears.
2. In the Type list, click X11.
The Transport type is automatically set to the required value of X11.
3. If required, type an alternative identification name for the connection in the Name box.
4. Type text in the Comment box to provide an additional description of the connection.
5. For network transport connections (for example, those that use the X11 transport protocol), you can create multiple connections by selecting the Unlimited check box, or by clearing the Unlimited check box and specifying the number of connections to be created in the Maximum Connection Count box.
6. Click Advanced to specify advanced configuration options, if required.
7. Click OK to create the connection. Click Cancel or press ESC to cancel the operation.

To edit an existing X11 connection

CAUTION: *When editing an existing type of connection, ensure that you log on to the MetaFrame Server console or connect using a connection of a different type, because the MetaFrame Server may need to perform a session reset.*

1. Use *Terminal Server Administration* to check that all connections of the type you want to edit are idle.
2. Select the connection from the list.
3. On the Connection menu, click Edit.
4. Edit the required information, then click OK to change the connection configuration. Click Cancel or press ESC to cancel the operation.



Configuring *WinFrame* X11 Connections

Use *WinStation Configuration* to create, configure, and maintain X11 connections to *WinFrame* Servers. (For instructions on configuring X11 connections to *MetaFrame* Servers, see *Configuring MetaFrame X11 Connections* on page 6.)

X11 connections must be configured before X desktop users can access the *WinFrame* Server. When you install *UNIX Integration Services* on a *WinFrame* Server, five X11 *WinStations* are automatically created for you. Depending on your network requirements, you may need to edit their configurations, or add further *WinStations*, as described below.

X11 *WinStations* must be configured to use the X11 transport protocol. ICA client *WinStations* can be configured to use any transport protocol except X11.

Starting and Quitting *WinStation Configuration*

To start *WinStation Configuration*

1. Log onto the *WinFrame* Server console as an administrator.
2. Open the Administrative Tools group.
3. Double-click *WinStation Configuration*.

The *WinStation Configuration* window appears, displaying the list of configured *WinStations*.

To quit *WinStation Configuration*:

On the *WinStation* menu, click Exit.

Use *WinStation Configuration* to create new X11 *WinStations* or to configure existing X11 *WinStations*.

Adding and Editing WinStations

To add an X11 WinStation:

1. On the WinStation menu, click New.
The New WinStation window appears.
 2. Type a name in the Name box to identify the WinStation.
 3. In the Type list, click X11 to specify the communication method between the *WinFrame* Server and the WinStation.
The Transport type is automatically set to the required value of X11.
 4. Provide an additional description of the WinStation in the Comment box.
 5. For network transport WinStations (for example, those that use the X11 transport protocol), you can create a group of WinStations by specifying the number of WinStations to be created in the Number Of Configured WinStations box. Change the number of WinStations from 1 to the number of concurrent X11 *WinFrame* sessions you want to run. It is recommended that you enter the number of licensed sessions.
 6. Click Advanced WinStation to specify advanced configuration options, if required.
- Note:** *Initially the Enforce User's Minimum Encryption Level check box is selected. If your users are configured with a required encryption level higher than None, clear the Enforce User's Minimum Encryption Level check box.*
7. Click OK to create the WinStation. Click Cancel or press ESC to cancel the operation.

To edit an existing *WinFrame* WinStation:

CAUTION: *When editing an existing type of WinStation, ensure that you log on to the WinFrame Server console or connect using a WinStation of a different type because the WinFrame Server may need to perform a WinStation reset.*

1. Check that all WinStations of the type you want to edit are idle.
2. Select the WinStation from the list.
3. Click Edit on the WinStation menu, or press ENTER.
4. Edit the required information, then click OK to change the WinStation. Click Cancel or press ESC to cancel the operation.



Activating the Software

Follow these quick and easy steps to install and activate your Citrix *MetaFrame* or *WinFrame* software. For more information, see the *Citrix Activation Guide* or the *MetaFrame Administrator's Guide*.

1. Find your serial number sticker located on the CD-ROM jewel case.
2. Install your UIS extension. Follow the directions in the *WinFrame Quick Activation Guide* if you are installing UIS on a *WinFrame* Server, or follow the directions in the *MetaFrame Release Notes* if you are installing UIS on a *MetaFrame* Server. Enter the serial number exactly as it appears on the Serial Number Sticker when you are prompted during Setup.
3. Logon as administrator. On a *WinFrame* Server, start WinFrame Licensing in the Administrative Tools program group. On a *MetaFrame* Server, start Citrix Licensing in the MetaFrame Tools folder. The Licensing screen appears, displaying the licenses installed on the Citrix Server. You must use the license number displayed on the licensing screen when activating your software in Step 10.
4. The next step in the installation process is to activate your software by contacting the Citrix Activation Server. This is done by the Citrix License Activation Wizard. If you cannot use the Citrix License Activation Wizard, see the Licensing chapter in either the *MetaFrame Administrator's Guide* or the *WinFrame System Guide* for information about the other ways to activate your Citrix software.
5. The Citrix License Activation Wizard can connect to the Citrix Activation Server using a TCP/IP Internet connection, a modem connection, or a connection to the Citrix Activation web page using a web browser. To use a TCP/IP Internet connection, you must install TCP/IP on your server and have Internet access. To use a modem connection, you must have a modem attached and properly configured for dial out. To use a web browser, you must have an Internet connection and a web browser.

Note: To use a TCP/IP Internet connection through a firewall, you must configure your system to allow ICA packets using TCP registered port 1494 through your firewall or you will not be able to use the Citrix License Activation Wizard.

6. To use the Citrix License Activation Wizard to contact the Citrix License Activation Server, logon as an administrator. On a *WinFrame* Server, start WinFrame Activation in the Administrative Tools program group. On a

MetaFrame Server, click Activation Wizard in the MetaFrame Tools folder.

7. Select Activate Over the Internet, Activate by Modem, or Activate with Web Browser and click Next.
8. If you chose Activate Over the Internet or Activate by Modem and the Citrix ICA Win32 Client is not installed, you are prompted to install the client. Follow the simple instructions that appear to install the Citrix ICA Win32 Client. After installing the client, select Activate Over the Internet or Activate By Modem and click Next.
9. Click Finish to connect to the Citrix License Activation Server. When the Citrix License Activation System window appears, follow the simple directions. Record your activation code exactly as it appears and exit. Depending on the licenses, you may be able to obtain activation codes for more than one license at a time.
10. To activate your Citrix software, start Citrix Licensing or click on the Citrix Licensing window if it is already started. Select the Citrix license you are activating from the list of displayed licenses, and then click Activate button on the toolbar or select Activate License from the License pull-down menu. The Activate License dialog box appears. Enter your activation code from Step 9 above and click OK. Your Citrix software is now activated.

