Integrating Cisco CTI OS Into a Citrix MetaFrame Presentation Server Environment
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About this Guide

Objective

This document is intended to guide a Citrix administrator through the installation and configuration of Cisco CTI OS Release 7.0(0) in a Citrix MetaFrame Presentation Server 4.0 environment.

Obtaining Documentation

Cisco documentation and additional literature are available on Cisco.com. Cisco also provides several ways to obtain technical assistance and other technical resources. These sections explain how to obtain technical information from Cisco Systems.

Cisco.com

You can access the most current Cisco documentation at this URL:
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Technical Assistance Center (TAC) engineers provide telephone support. If you
do not hold a valid Cisco service contract, contact your reseller.
Cisco Technical Support Website

The Cisco Technical Support Website provides online documents and tools for troubleshooting and resolving technical issues with Cisco products and technologies. The website is available 24 hours a day, 365 days a year at this URL:

http://www.cisco.com/techsupport

Access to all tools on the Cisco Technical Support Website requires a Cisco.com user ID and password. If you have a valid service contract but do not have a user ID or password, you can register at this URL:


Submitting a Service Request

Using the online TAC Service Request Tool is the fastest way to open S3 and S4 service requests. (S3 and S4 service requests are those in which your network is minimally impaired or for which you require product information.) After you describe your situation, the TAC Service Request Tool automatically provides recommended solutions. If your issue is not resolved using the recommended resources, your service request will be assigned to a Cisco TAC engineer. The TAC Service Request Tool is located at this URL:

http://www.cisco.com/techsupport/servicerequest

For S1 or S2 service requests or if you do not have Internet access, contact the Cisco TAC by telephone. (S1 or S2 service requests are those in which your production network is down or severely degraded.) Cisco TAC engineers are assigned immediately to S1 and S2 service requests to help keep your business operations running smoothly.

To open a service request by telephone, use one of the following numbers:

Asia-Pacific: +61 2 8446 7411 (Australia: 1 800 805 227)
EMEA: +32 2 704 55 55
USA: 1 800 553 2447

For a complete list of Cisco TAC contacts, go to this URL:

http://www.cisco.com/techsupport/contacts
Definitions of Service Request Severity

To ensure that all service requests are reported in a standard format, Cisco has established severity definitions.

Severity 1 (S1)—Your network is “down,” or there is a critical impact to your business operations. You and Cisco will commit all necessary resources around the clock to resolve the situation.

Severity 2 (S2)—Operation of an existing network is severely degraded, or significant aspects of your business operation are negatively affected by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.

Severity 3 (S3)—Operational performance of your network is impaired, but most business operations remain functional. You and Cisco will commit resources during normal business hours to restore service to satisfactory levels.

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  http://www.cisco.com/go/iqmagazine

- *Internet Protocol Journal* is a quarterly journal published by Cisco Systems for engineering professionals involved in designing, developing, and operating public and private internets and intranets. You can access the Internet Protocol Journal at this URL:

  http://www.cisco.com/ipj

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Introduction

CTI OS Release 7.0(0) now supports the running of CTI OS Desktop applications within a Citrix MetaFrame Presentation Server 4.0 environment. The Citrix MetaFrame Presentation Server permits hosting of several concurrent client applications simultaneously. This hosted environment reduces the deployment and software maintenance burden on CTI OS administrators and corporate information technology (IT) teams.

This document is intended to guide a Citrix administrator through the installation and configuration of Cisco CTI OS Release 7.0(0) in a Citrix MetaFrame Presentation Server 4.0 environment.

Limitations

The following limitations apply to Cisco CTI OS integrations with the Citrix MetaFrame Presentation Server.

- Versions of Citrix MetaFrame Presentation Server prior to Version 4.0 are not supported. Earlier versions have limitations for publishing Microsoft .NET based applications.

- CTI OS Java CIL client applications are only supported on Citrix MetaFrame Presentation Server 4.0 for the Windows platform. There is no planned support for Citrix MetaFrame Presentation Server 4.0 on UNIX.

- Silent Monitoring is not supported in a Citrix environment.

- The last login information that appears when you log into a CTI OS Client Desktop is the information associated with to the last login to the desktop by any user, not necessarily the user who is currently logging in.

- CTI OS Client Desktop sounds such as dial tones and DTMF tones are not audible.
Supported Desktop Systems

CTI OS Clients hosted by a Citrix Independent Computing Architecture (ICA) Client are supported only on GEN-10-002-Class and GEN-10-003-Class hardware, as specified in the Cisco ICM/IPCC Enterprise and Hosted Editions Hardware and System Software Specification which is accessible from http://www.cisco.com/univercd/cc/td/doc/product/icm/ccbubom/index.htm

Supported Platforms

The following server platforms are supported:

- Windows 2003 Server
- Windows 2000 Server

Note: Cisco has no plans to support the Citrix MetaFrame Presentation Server on UNIX.

The following client platforms are supported:

- Windows 2000 Professional SP4
- Windows XP Professional SP1a
- Windows XP Professional SP2
- Red Hat Enterprise Linux 4

Supported Citrix ICA Clients

CTI OS clients published in a Citrix MetaFrame Presentation Server can be accessed only using the following Citrix ICA clients:

- ICA Win32 Program Neighborhood Client
- ICA Win32 Web Client
- ICA Win32 Program Neighborhood Agent
- ICA Client for Linux
Installing and Configuring CTI OS under the Citrix MetaFrame Presentation Server

The process of installing and configuring CTI OS for use with a Citrix MetaFrame Presentation Server 4.0 environment involves the following procedures.

- Installing Cisco CTI OS
- Configuring the Call Center Agent Windows Users
- Configuring the system registry
- Publishing CTIOS Clients in Citrix MetaFrame Presentation Server
- Configuring a Citrix ICA Connection

The following sections explain these procedures.

Install Cisco CTI OS

Perform the following steps to install Cisco CTI OS software.

Step 1  Insert the CTI OS software CD.

Step 2  From the Start menu select Control Panel.

Step 3  On the Control Panel, select Add/Remove Programs.

Step 4  On the Add/Remove Programs screen, double click on the icon marked Add New Programs.

Step 5  On the Add New Programs screen, click on the button marked CD or Floppy.

Step 6  Click Next on the Install From Floppy Disk or CD-ROM screen.

Step 7  Click Browse and locate the CTI OS Toolkit Install program. For CTI OS major and minor releases, this program is named Setup.exe. For Service Releases and Engineering Specials, this program name is in a format that identifies the release number (e.g., CTIOS7[1].0(0)_SR1_39.exe).

Step 8  For CTI OS major and minor releases, follow the directions in the CTI OS System Manager’s Guide for ICM/IPCC Enterprise & Hosted Editions, Release 7.0(0) to install Cisco CTI OS on the Citrix MetaFrame Presentation Server. Accept the
default location provided by the CTI OS Setup program. For Service Releases and Engineering Specials, follow the installation instructions for that particular package.

**Step 9** If the CTI OS installation program does not reboot the system automatically, click the Finish button.

---

**Configuring the Call Center Agent Windows Users**

**Note** The user and group creation must adhere to your environment Domain and security policies. The users and group mentioned in this section must be accessible from the machine hosting the Citrix MetaFrame Presentation Server.

Perform the following steps to configure call center agent users within Windows.

**Step 1** Create a new Windows user group named CTIOSCitrixUsers.

**Step 2** Create a Windows user per call center agent.

**Step 3** Make each user a member of the following Windows user groups:

- CTIOSCitrixUsers
- Users
- Remote Desktop Users

**Step 4** On some platforms such as Windows Server 2003 Enterprise, you also need to make the IPCC Supervisor users member of the group Power Users.
Configuring the System Registry After Installation

After you install the CTI OS desktop software on the Citrix MetaFrame Presentation Server, it is necessary to make the following changes to the system registry. (See Appendix A, “Registry Settings” for a list of the registry settings used by the Cisco CTI OS Client.)

Adjusting Registry Permissions

The CTI OS Desktops must have read/write access to the following registry keys and all their descendent’s subkeys and values:

- HKEY_LOCAL_MACHINE\SOFTWARE\Cisco Systems\CTI Desktop
- HKEY_LOCAL_MACHINE\SOFTWARE\Cisco Systems\ctios

Make sure that the CTIOSCitrixUsers Windows user group has read/write access to these registry keys.

Configuring Tracing

The CTIOS Tracing configuration is located at the following registry key:

- HKEY_LOCAL_MACHINE\SOFTWARE\Cisco Systems\Ctios\Logging

For integration with Citrix, you must reconfigure the following parameters.

TraceFileName

This setting contain a fully qualified directory path prepended to the log file name, as shown in the following example:

"D:\ContactCenter\Agents\Logs\CtiosClientLog"

Note

The directory location assigned for the client logs must reside on the server on which the CTIOS Desktops will be executed. Assigning a mapped directory will add excessive overhead that will affect the performance of Citrix MetaFrame Presentation Server. For more details refer to [http://support.citrix.com/docs/](http://support.citrix.com/docs/). In addition, this directory must have read/write and execute access for the user members of the CTIOSCitrixUsers Windows user group.
TraceMask

TraceMask is a global setting that controls the tracing level for all CTI OS Desktops running on the host. Therefore, modifying this setting will raise or lower the tracing level on all running CTI OS Desktops.

Note

Tracing should be enabled for troubleshooting purposes only. If it is necessary to enable tracing, the recommended setting for a Citrix environment is 0x0000007 rather than the standard CTI OS default of 0x40000307.

Publishing CTIOS Clients in Citrix MetaFrame Presentation Server 4.0

To publish the applications in the Citrix MetaFrame Presentation Server 4.0, perform the following steps.

Note

The settings indicated in the following steps were selected carefully to ensure the correct functioning of the CTI OS Clients. Combinations other than those mentioned in these steps are not supported by Cisco.

Step 1
Launch the Management Console for MetaFrame Presentation Server.

Step 2
From the tree on the left, select the Farm on which you want to publish the CTI OS Clients.

Step 3
Select the branch marked as Applications.

Step 4
From the Actions menu select New and then select Published Application. The Publish Application screen appears.
Step 5 Enter a user friendly Display Name and a clear description,
Step 6 Click Next. The Specify What to Publish screen appears.
Specify the following information.

- For **Application Type**, select Application.
- For **Command Line** and **Working Directory**, specify the full path and working directory of the CTI OS Client you are publishing.
- Leave the **Isolate Application** box unchecked.

**Step 7** Click **Next**. The Program Neighborhood Settings screen appears.
Specify the name of a Program Neighborhood Folder that will contain the application icon.

Optionally, specify the following additional information:
- Addition of an application shortcut to the client Start menu
- Addition of a shortcut to the client desktop
- An application icon

**Step 8**  Click **Next**. The Specify Application Appearance screen appears.
Specify a 1024x768 resolution Session Window Size and High Color (16 bit) depth. Uncheck the boxes in the Application Startup Settings group.

**Note** If a lower resolution is required for accessibility purposes, Cisco will supports resolutions as low as 800x600.

**Step 9** Click **Next**. The Specify Client Requirements screen appears.
Remove the check from the **Enable Legacy Audio** box. If your site security policies requires that your ICA client connection be secure, check on the **SSL and TLS Protocols** check box (see the Citrix *MetaFrame Presentation Server Administrator’s Guide*). Ensure that the **Printing** check box is checked.

**Step 10** Click Next. The Specify Application Limits screen appears.
Accept all defaults on this screen.

**Step 11** Click Next. The Configure Access Control screen appears.
Accept the defaults unless you site security policies require different settings.

**Step 12** Click **Next**. The Specify Servers screen appears.
Specify the Citrix MetaFrame Presentation Server or servers on which the CTIOS Client will run.

**Step 13**  Click **Next**. The Specify Users Screen appears.

**Step 14**  Specify the users that will be allowed to run the CTIOS Client.

**Step 15**  Click **Finish**.

### Configuring a Citrix ICA Connection

Perform the following steps to create ICA connections for the user to run the applications.
Note

The settings indicated in the following steps were selected carefully to ensure the correct functioning of the CTI OS Clients. Combinations other than those mentioned in these steps are not supported by Cisco.

Using the Citrix Program Neighborhood Client

Step 1

Launch the Citrix Program Neighborhood Client. Double click on the Custom ICA Connections icon.

The Custom ICA Connections screen appears.
Step 2  Double click on the **Add ICA Connection** icon. An Add New ICA Connection screen appears.

Step 3  From the pull down list, select either Local Area Network or Wide Area Network.
Note  
Low-bandwidth connections such as Dial-up or ICA-Dialin are not capable of supporting the CTI OS Client real-time telephony events, and therefore are not supported.

Step 4  Click **Next**. The following screen appears.

Step 5  Specify a user friendly description for the new ICA Connection.

Step 6  If your site security policies require a secure connection between the Citrix MetaFrame Presentation Server and your ICA Client host computer, select SSL/TLS + HTTPS for the network protocol. Otherwise, select TCP/IP. Cisco will not support any of the other optional protocols (TCP/IP+HTTP, IPX, SPX and NetBios) shown in the ICA connection wizard.

Step 7  Select the Published CTIOS Application or MetaFrame Presentation Server computer as follows:

   a. To select a Published application select the **Published Application** radio button. From the pull down list, choose the desired CTIOS Client.

   b. To select a Presentation Server select the **Server** radio button. From the pull down list, select the Presentation Server of your choice. Selecting this option will open a Remote Desktop at the Presentation Server for the windows user configured on the ICA connection.

Step 8  Click **Next**. The following screen appears.
Step 9  Select the type of window used to display the published CTI OS client. If you choose Seamless Window, the CTI OS Client will run using its standard user interface as if the application was running on the agent desktop host. If you choose Remote Window Desktop, the CTOS Client user interface will be contained within the Citrix Desktop window.

Step 10  Click Next. The following screen appears.
Step 11 If you do not require a secure connection use the default encryption. Otherwise, select the level that applies to your environment.

Note Be careful in selecting the encryption level, as this can affect both the latency and response time of any published application. Work in conjunction with your Citrix configuration and network administrators to choose the appropriate level that will insure both optimal performance and security for your application.

Step 12 Ensure that the **Session Reliability Enable** checkbox is checked. Disabling this feature will affect the failover capabilities of your Citrix ICA client and will result in loss of connectivity with the Citrix MetaFrame Presentation Server. In addition, manual reset and logout of the dangling ICA session in Citrix MetaFrame Presentation Server may be required, and manual logout from Cisco IPCC / Legacy PBX will be required.

Step 13 Click **Next**. The following screen appears.

![Add New ICA Connection](image)

Step 14 Specify the login information that will be associated with the connection. This is the windows login information associated with the Call Center Agent in the Windows Domain on which the Citrix MetaFrame Presentation Server resides.

Step 15 Click **Next**. The following screen appears.
Step 16  Chose any of the color depths available in the pull down list except 16 Color Depth. Cisco recommends "Hi Color (16-bit)".

Step 17  Click Next, then click Finish. An icon for the newly created connection appears on the Citrix Program Neighborhood screen.

Step 18  Click on the icon for the newly created connection. Select the File menu, then select Options. A dialog box similar to the following appears.
Step 19  Check the **Use disk cache for bitmaps** checkbox. Accept all other defaults.

**Important:**

- If better performance is required at your Citrix MetaFrame Presentation Server, you can remove the check from the **Use data compression** check box. This setting will eliminate the additional overhead at the Presentation Server required to compress the traffic sent to the ICA client. Before unchecking this setting, please consult with your Citrix Administrator and make sure that the Citrix server works properly after the change.

- Never override the Sound Custom Default. Sound is disabled by default and Sound is not supported with published CTIOS Clients.

- Queuing mouse events and key strokes will affect the responsiveness of the CTI OS Client since the ICA client will send mouse activity less often to the Presentation Server. Cisco does not recommend the use of this setting, especially since low-bandwidth connections are not supported for published CTI OS Clients.
• Speed Screen Latency should always be set to Off. This feature is intended to improve the user experience with ICA connections over low-bandwidth connections.

Step 20  Click OK.

Using the Citrix Program Neighborhood Agent

Step 1  Using the Program Neighborhood Agent Site in the Access Suite Console:

a. Configure the authentication methods according to your site security policies.

b. Configure the following Session options.

• In the Client Session Sizes window, remove the check on the 640x480 check box. If you define a custom window size (Resolution) this must not be lower than 800x600.
In the Client Resources Window, remove the check on the following check boxes:

- In the **Color depth options users can select** group, remove the check on the box marked as 16.
- In the **Audio options users can select** group, remove all the marks from all check boxes.

![Change Session Options - config.xml](image)

- In the **Manage Server Settings** window remove the check on the **Allow user to customize the server URL** check box.

**Step 2**

Install the Citrix Program Neighborhood Agent software at each agent desktop and configure the URL to the server running the Program Neighborhood Agent Site, usually: http://YourPresentationServerWebInterfaceHost/Citrix/PNAgent.

For more detailed information about how to configure Program Neighborhood Agent, see the *Client for 32-bit Windows Administrator's Guide* at http://support.citrix.com/docs.
Using the Citrix Web Client

At each agent workstation, install the appropriate MetaFrame Presentation Server Web Client. The ICA connection settings will default to those set when the CTI OS Client was published in the Citrix MetaFrame Presentation Server.
Registry Settings

The following are the registry settings used by the Cisco CTI OS Client.

[HKEY_LOCAL_MACHINE\SOFTWARE\Cisco Systems]

[HKEY_LOCAL_MACHINE\SOFTWARE\Cisco Systems\Cisco CTIOS Client]

[HKEY_LOCAL_MACHINE\SOFTWARE\Cisco Systems\Cisco CTIOS Client\7.00]

[HKEY_LOCAL_MACHINE\SOFTWARE\Cisco Systems\CTI Desktop]
"SoundFilesPathName"="e:\Program Files\Cisco Systems\CTIOS Client\CTIOS Shared/IPMedia"
"LocalPhoneType"="Other"

[HKEY_LOCAL_MACHINE\SOFTWARE\Cisco Systems\CTI Desktop\CtiOs]
"InstallDir"="e:\Program Files\Cisco Systems\CTIOS Client\CTIOS Toolkit"
"CtiOsA"="192.168.252.75"
"CtiOsB"="192.168.252.75"
"PortA"=dword:0000a42d
"PortB"=dword:0000a42d
"Heartbeat"=dword:00000005
"PeripheralID"=dword:00001388
"ShowFieldBitMask"=dword:0000ffff
"AgentPhone"="e:\Program Files\Cisco Systems\CTIOS Client\CTIOS Desktop Phones"
"MaxHeartbeats"=dword:00000003
Appendix A

Integrating Cisco CTI OS Into a Citrix MetaFrame Presentation Server Environment

[\HKEY_LOCAL_MACHINE\SOFTWARE\Cisco Systems\CTI Desktop\LastLogin]
"ProfileName"="IPCC/SoftACD"
"AutoLogin"=dword:00000001
"AgentID"="2268"
"AgentInstrument"="2281"
"ClientAddress"="192.168.252.104"
"PcapDeviceNumber"="192.168.252.104"

[\HKEY_LOCAL_MACHINE\SOFTWARE\Cisco Systems\Ctios]

[\HKEY_LOCAL_MACHINE\SOFTWARE\Cisco Systems\Ctios\Logging]
"TraceServer"="e:\PROGRA~1\CISCOS~1\CTIOSC~3\CTIOSS~1\COM\CTIOST~1.EXE"
"TraceFileName"="CtiosClientLog"
"TraceMask"=dword:00000a0f
"MaxDaysBeforeExpire"=dword:00000007
"MaxFiles"=dword:00000005
"MaxFileSizeKb"=dword:00000800
"FlushIntervalSeconds"=dword:0000001e