

User's Guide

Citrix ICA Client for Windows CE Handheld PCs

Version 4.1

Citrix Systems, Inc.

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Before you Begin

Who Should Use this Manual

This manual is for system administrators responsible for configuring, deploying, and maintaining Citrix ICA Clients for Windows CE in handheld and palm-sized PCs. This manual assumes knowledge of:

- Citrix MetaFrame or Citrix *WINFRAME*
- The Windows CE Handheld PC
- Installation, operation, and maintenance of network and asynchronous communication hardware, including serial ports, modems, and device adapters

Important The screen images shown in this guide were taken from an handheld Windows CE device. If you are using a palm-sized device the corresponding dialogs are similar though minor differences may be present due to the change in screen dimensions. Any differences in functionality are noted in the text.

How to Use this Guide

To get the most out of this guide, review the table of contents to familiarize yourself with the topics discussed.

This guide contains the following sections:

Section	Contents
Introduction to the Citrix ICA Client for Windows CE	Gives a detailed list of features
Using the Citrix ICA Client for Windows CE	Describes how to install, uninstall, and start the Citrix ICA Windows CE Client
Configuring the Citrix ICA Client for Windows CE	Describes how to configure connection properties and device mappings for the Citrix ICA Windows CE Client

Conventions

The following conventional terms, text formats, and symbols are used throughout the printed documentation:

Convention	Meaning
Bold	Indicates boxes and buttons, column headings, command-line commands and options, icons, dialog box titles, lists, menu names, tabs, and menu commands.
<i>Italic</i>	Indicates a placeholder for information or parameters that you must provide. For example, if the procedure asks you to type <i>filename</i> , you must type the actual name of a file. Italic also indicates new terms and the titles of other books.
ALL UPPERCASE	Represents keyboard keys (for example, CTRL, ENTER, F2).
[brackets]	Encloses optional items in syntax statements. For example, [<i>password</i>] indicates that you can choose to type a <i>password</i> with the command. Type only the information within the brackets, not the brackets themselves.
...(ellipsis)	Indicates a command element can be repeated.
Monospace	Represents examples of screen text or entries that you can type at the command line or initialization files.
➤	Indicates a procedure with sequential steps.
•	Indicates a procedure with only one step.
▪	Indicates a list of related information, not procedural steps.

The Citrix ICA Client for Windows CE allows users to connect to MetaFrame and *WINFRAME* servers. When describing a feature or procedure common to MetaFrame and *WINFRAME* servers, this manual uses the term *Citrix server*. When describing a feature unique to a MetaFrame or *WINFRAME* server, this manual specifies either a MetaFrame or *WINFRAME* server.

This document uses the terms *click* and *double-click* instead of *tap* and *double-tap* to refer to the action of tapping on the Windows CE device screen with the stylus.

Finding More Information

This manual contains conceptual information and installation and configuration steps for the Citrix ICA Windows CE Client using a Handheld PC. For additional information, see the following documentation:

- The *Citrix ICA Client Quick Reference Cards* give users step-by-step instructions for using the Citrix ICA Clients to connect to Citrix servers and run published applications.
- The *Citrix ICA Client Administrator's Guides*.
- For instructions about installing, configuring, and maintaining your Citrix servers, see the documentation included in your MetaFrame or *WINFRAME* package.

These manuals are available in Adobe PDF format in the documentation directory of your MetaFrame or *WINFRAME* CD-ROM. Using the Adobe Acrobat Reader, you can view and search the documentation electronically or print it for easy reference. To download the Adobe Acrobat Reader for free, please go to Adobe's Web site at <http://www.adobe.com>.

Important Always consult the *Readme.txt* files for MetaFrame, *WINFRAME*, and the Citrix ICA Clients for any last-minute updates, installation instructions, and corrections to the documentation.

Citrix on the World Wide Web

Citrix offers online Technical Support Services at <http://www.citrix.com> that include the following:

- Downloadable Citrix ICA Clients, available at <http://download.citrix.com>
- A Frequently Asked Questions page with answers to the most common technical issues
- An FTP server containing the latest service packs and hotfixes for download
- An Online Knowledge Base containing an extensive collection of technical articles, troubleshooting tips, and white papers
- Interactive online support forums

Year 2000 Readiness

For a detailed description of the Year 2000 Readiness of Citrix products, see our Web site at <http://www.citrix.com/misc/y2000.htm>.

Introduction to the Citrix ICA Client for Windows CE

Overview

The Citrix ICA Client for Windows CE lets you use a Handheld PC to make an ICA connection to a Citrix server. Once the ICA connection to the Citrix server is established, you can access applications and work with files as if you were working at the Citrix server itself.

Requirements

To run the ICA Windows CE Client you must have the following:

- A Windows CE-based device with a display that supports 16 or more colors or gray scales
- A network interface card (NIC) connected to a local network using the TCP/IP protocol or a modem and telephone for dial-in SLIP or PPP connections
- The appropriate version ICA Windows CE Client program for your Windows CE device. Versions are available for the following processors: SH3, SH4, X86, MIPS, PowerPC, and ARM.

Features

The Citrix ICA Windows CE Client has the following features:

- Client device mapping
 - Client drive mapping
 - Client printer mapping
 - Client com port mapping
- Virtual screen panning
- Sound support
- Data compression
- ICA Client hotkeys
- Transparent clipboard access
- Client auto update

- Application publishing support
- Business Recovery

Client Device Mapping

Client device mapping allows a remote application running on the Citrix server to access printers, drives, and devices attached to the local client computer.

Client Drive Mapping

Client drive mapping allows you to access the local disk drives of the client computer from ICA sessions. When both the Citrix server and ICA Client are configured to allow client drive mapping, you can access your locally stored files, work with them from ICA sessions, and then save them either on a local drive or a drive on the Citrix server.

Client Printer Mapping

Client printer mapping lets users access printers attached to the client computer from applications running in an ICA session. When a Citrix server is configured to allow client printer mapping, applications running remotely on the Citrix server can print to local printers.

Client COM Port Mapping

Client COM port mapping is similar to printer and drive mapping. It allows users to access serial devices on the client computer as if they were connected to the Citrix server.

Virtual Screen Panning

Virtual screen panning allows you to overcome the small screen size of many handheld PCs by using a screen size for the ICA session larger than the actual screen size of the Windows CE device. If the window size is set larger than the actual screen size of the Windows CE device, two small rectangular boxes appear after the ICA connection is made. The larger rectangle represents the virtual screen of the ICA session and the smaller rectangle represents the actual Windows CE device screen. Pen-drag the smaller rectangle to scroll the actual screen around the virtual screen. When using a handheld PC you can hold down CTRL and pen-drag to move the control around the actual screen.

Sound Support

Sound support allows your client computer to play sounds generated by applications running on the Citrix server. Sound support can be configured to use one of three different compression schemes. Each scheme provides different sound quality and bandwidth usage.

Data Compression

Data Compression can increase performance over low speed asynchronous and WAN connections by reducing the amount of data sent over the communications link to the client computer.

ICA Client Hotkeys

The Citrix Windows CE Client provides hotkeys that can be used to control various functions while in an ICA session. Some hotkeys control the behavior of the ICA Windows CE Client itself while others emulate standard Windows hotkeys.

Transparent Clipboard Access

You can use the Windows CE device's clipboard to cut and paste objects between ICA sessions and applications running locally. Access to the local clipboard requires no special configuration or procedures. Use the familiar cut, copy, and paste commands to transfer text, pictures, and other objects between local and remote applications.

Client Auto Update

The Client Auto Update feature allows administrators to update ICA Client installations from a central location instead of having to manually install new client versions on each client computer. New versions of Citrix ICA Clients are stored in a central *Client Update Database*. The latest versions of the ICA Client software are downloaded to ICA Client devices when users connect to the Citrix server.

Note This feature requires write access to the Windows CE device. Check with your Windows CE device manufacturer for information about whether you can use this feature with your device.

Published Application Support

You can create a remote application entry to connect to a Citrix server or to a published application that contains all of the information necessary to launch a user session or an application.

Business Recovery

The Citrix ICA Client includes the additional intelligence to support multiple server sites (such as primary and hot backup) with different addresses for the same published application name.

This feature provides consistent connections to published applications in the event of a primary server disruption. Users now have an even higher level of fault tolerance and seamless user experience.

Using the Citrix ICA Windows CE Client

Overview

This section describes how to use the Citrix ICA Windows CE Client. Topics in this section include:

- Installing the ICA Windows CE Client
- Uninstalling the ICA Windows CE Client
- Starting the ICA Windows CE Client
- Creating a new connection entry
- Connecting to a Citrix Server

Installing the ICA Windows CE Client

The ICA Windows CE Client can be installed using one of two methods:

- **Local Installation.** The installation program is run on the Windows CE device from a previously downloaded setup file.
- **PC installation.** This method can only be used with Windows CE devices attached to a PC. The installation program is run on the PC, which then downloads the necessary files to the Windows CE device.

After the ICA Client is installed, the first time you run the ICA Client you are prompted to enter a unique name for your device. This name must not be in use by any other ICA Clients on the network.

➤ **To install the ICA Windows CE Client using the local installation method**

1. Copy the ICA Windows CE Client setup program (*icasetup.processor.cab*, where *processor* is the processor type for your Windows CE device) to the Windows CE device.
2. On the Windows CE device, double-click the *icasetup.processor.cab* icon.
3. Specify the directory in which to install the ICA Client and click **OK**.
4. The license agreement appears. Click **Accept** to accept the license agreement and continue installation.

- **To install the ICA Windows CE Client using the PC installation method**
 1. Double-click the **ICA Setup** icon on your PC and follow the instructions that appear. The necessary files are downloaded to the Windows CE device.
 2. Once installation is complete, on the Windows CE device click **Start, Programs, ICA CE Client**, and then **Remote Application Manager**.
 3. When prompted, enter a unique name for your device and click **OK**. The name must not be in use by any other ICA Clients on the network.

Uninstalling the ICA Windows CE Client

- **To uninstall the ICA Windows CE Client**
 1. Click **Start, Settings**, and then **Control Panel**.
 2. The Control Panel appears. Double-click **Remove Programs**.
 3. Select **Citrix Systems ICA Client** and click **Remove**.
 4. Click **OK** to complete uninstallation.

Starting the ICA Windows CE Client

- **To start the ICA Windows CE Client**
 - Click **Start, Programs, ICA CE Client**, and then **Remote Application Manager**.

Creating a New Connection Entry

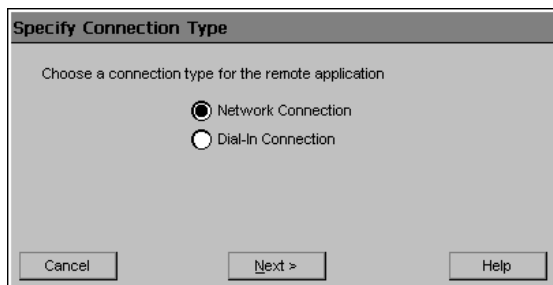
You can configure and run two types of ICA sessions: Citrix server connections and published applications.

- *Citrix server connections* allow you to connect to the Windows desktop of a specific Citrix server; you can run any applications available on the desktop, in any order.
- *Published applications* are specific applications set up by an administrator for remote users to run. When connected, you are presented with the application itself.

Note This procedure describes the simplest way to create a connection entry. When you follow these steps, you set the essential items you need to connect to a Citrix server from the Windows CE device, See “Changing a Connection Entry” for more information about how to change the other properties for a connection entry.

➤ **To create a new connection entry**

1. On the **Entry** menu, click **New**.
2. The **Specify Connection Type** dialog box appears:



Click **Network Connection** to make a network connection. Make sure your client device is connected to the network through a network interface card (NIC) or by a serial PPP connection to a Windows 95 or Windows NT RAS server. Click **Next** to continue. Skip to Step 4.

— or —

Click **Dial-In Connection** to make a dial-in connection. Make sure your modem is installed and properly configured. Click **Next** to continue.

Note The ICA Windows CE Client does not support modem callback. When using modem callback, the server hangs up on dial-in connections at logon and then dials a specified number to reconnect to the user attempting to log on. Because Windows CE contains no mechanism to answer the return call, the ICA Windows CE Client does not support modem callback for dial-in connections.

3. The **Dial-In Devices** page appears:

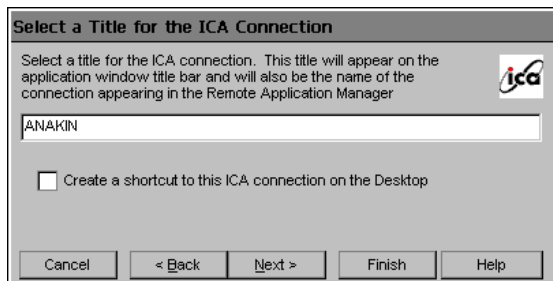
From the pull-down list, select your modem. In the **Phone Number** box, type the area code, phone number, and country code of the Citrix server. Click **Next** to continue. Skip to Step 7.

4. The **Select a Citrix Server or Published Application** page appears:

5. Click **Citrix Server** to connect to a server or **Published Application** to connect to a published application.
6. Scroll through the list and select the Citrix server or published application to which you want to connect or type the name of the Citrix server or published application in the box. Click **Next** to continue.

If the server or published application to which you want to connect is not listed, your Windows CE device may not be on the same network as the Citrix server to which you want to connect. This is likely if you are connecting across a router or the Internet. If this is the case, see “Configuring Business Recovery” later in this chapter.

7. The **Select a Title for the ICA Connection** page appears:



Enter a name for the connection entry. The name you choose is the name of the entry in the **Current Client Connections** list and appears in the title bar of the ICA session window.

Click **Create a shortcut to this ICA connection on the Desktop** to create a shortcut to this connection entry on the Windows desktop. You can then use the shortcut to start the ICA session without having to first run Remote Application Manager. Please note that if you are using a palm device this option will not be available.

8. Click **Finish** to save the entry or **Cancel** to exit the new connection entry dialog box without saving the entry.

Once you have created a connection entry, the name appears in the list of connections in Remote Application Manager.

Connecting to a Citrix Server

► To start a previously defined connection

1. Click the name of the connection entry that you want to use.
2. On the **Entry** menu, click **Connect**.

If you specified a valid user name and password in the connection entry, you are logged in as that user.

If no user name and password are present in the entry or the information is incorrect, the server logon dialog box appears. Enter a valid user name and password for the Citrix server and click **OK** to log on.

Configuring the Citrix ICA Client for Windows CE

Overview

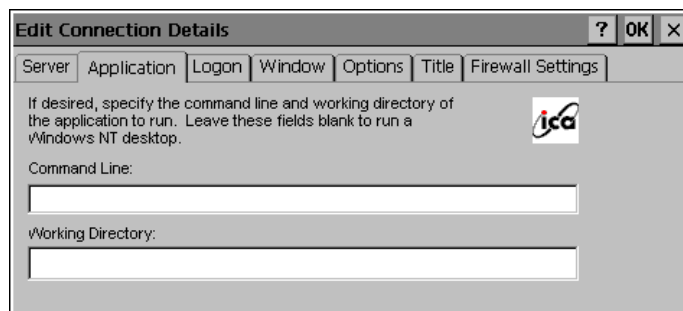
This section describes how to configure the Citrix ICA Windows CE Client. Topics in this section include:

- Changing an existing connection entry
- Changing the default settings

Changing a Connection Entry

This section describes how to change the properties of an existing connection entry.

- **To change the properties of a connection entry**
 1. Click the name of the connection entry that you want to change.
 2. On the **Entry** menu, click **Properties** to display the **Edit Connection Details** dialog box.



3. Make the desired changes.
4. Click **OK** to save your changes.

The **Edit Connection Details** dialog box contains the following tabs:

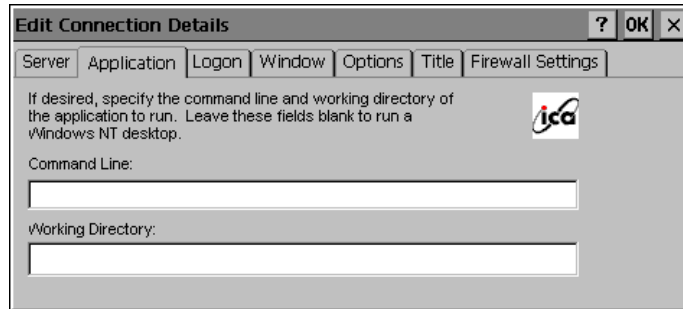
- The **Server** tab (network connection entries only), where you can set the Server or published application name to which to connect. There is also a button to display the **Server Location** dialog box where you can set Business Recovery options, See “Creating a New Connection Entry” and “Configuring Business Recovery” for more information.
- The **Dial-in** tab (dial-in connection entries only), where you can set the area code, country code, and telephone number to dial. You can use the settings on this page in the same way as when you first set up the connection entry, See “Creating a New Connection Entry” for more information.
- The **Application** tab, where you can specify an application to run after connecting to a Citrix server, See “Specifying an Application to Run after Connecting to a Citrix Server” for more information.
- The **Logon** tab, where you can set the user name, password, and domain to use to log in to the Citrix server automatically, See “Specifying Logon Information” for more information.
- The **Window** tab, where you can set the size and number of colors used for the ICA session window, See “Changing the Window Properties” for more information.
- The **Options** tab, where you can control the connection between the Citrix server and Windows CE device and configure sound support, See “Setting Connection Entry Options” for more information.
- The **Title** tab, where you can change the name of the connection. The name appears in the list in the **Connection Manager** dialog box.
- The **Firewall Settings** tab, where you can configure the client to use a SOCKS proxy and alternate address remapping, See “Configuring Firewall Settings” for more information.

Specifying an Application to Run after Connecting to a Citrix Server

Use the **Application** tab to specify an application to run after connecting to a Citrix server. If you specify an application, you do not see the Windows desktop when you connect and the connection is closed when you exit the application.

Note This tab does not apply to connection entries for published applications. Any values entered are ignored.

- **To specify an application to run after connecting to a Citrix server**
 1. Click the name of the connection entry that you want to change.
 2. On the **Entry** menu, click **Properties** to display the **Edit Connection Details** dialog box.
 3. Click the **Application** tab.



4. In the **Command Line** box, specify the path and file name of the application to be run after connecting to the Citrix server. For example, to launch Notepad automatically after connecting to the Citrix server, type:
C:\Wtsrv\notepad.exe
5. In the **Working Directory** box, specify the working directory to be used with the application. If you use Notepad to work on documents in the C:\My Documents directory, type **C:\My Documents**.
6. Click **OK** to save your changes.

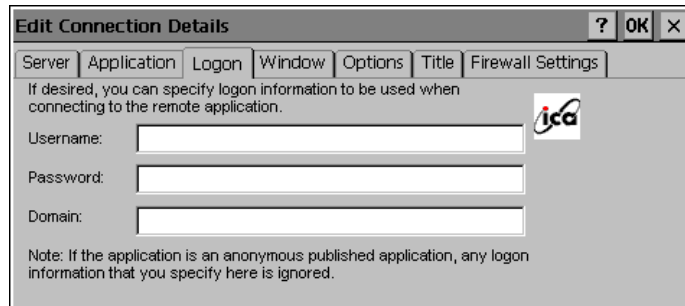
When you log on to the Citrix server, Notepad begins. In Notepad, if you select **Open** from the **File** menu, the C:\My Documents directory is displayed.

Specifying Logon Information

You can include the settings needed to log on to the Citrix server as part of the connection entry. This saves time when connecting to the server but is less secure.

- **To specify logon information**
 1. Click the name of the connection entry that you want to change.
 2. On the **Entry** menu, click **Properties** to display the **Edit Connection Details** dialog box.

3. Click the **Logon** tab.



The screenshot shows the 'Edit Connection Details' dialog box with the 'Logon' tab selected. The dialog has a title bar with a question mark, 'OK', and 'X' buttons. Below the title bar are tabs for 'Server', 'Application', 'Logon', 'Window', 'Options', 'Title', and 'Firewall Settings'. The main area contains the text: 'If desired, you can specify logon information to be used when connecting to the remote application.' followed by an 'ica' logo. There are three input fields: 'Username:', 'Password:', and 'Domain:'. At the bottom, there is a note: 'Note: If the application is an anonymous published application, any logon information that you specify here is ignored.'

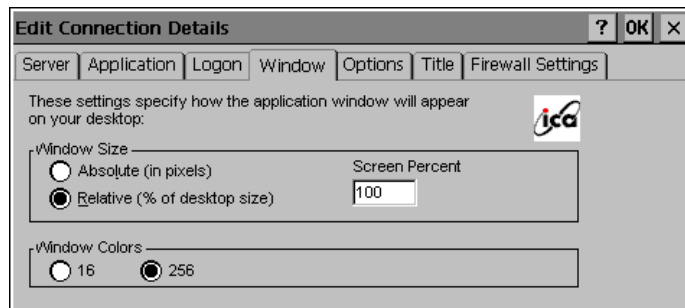
4. Enter a valid user name, domain, and password. If you leave these boxes blank, you are prompted for your user name, domain, and password each time you connect to the Citrix server or published application.
5. Click **OK** to save your changes.

Changing the Window Properties

Use the **Window** tab to change the window size and number of colors to use for ICA connections made using the connection entry.

➤ **To specify the Window properties for a connection entry**

1. Click the name of the connection entry that you want to change.
2. On the **Entry** menu, click **Properties** to display the **Edit Connection Details** dialog box.
3. Click the **Window** tab.



The screenshot shows the 'Edit Connection Details' dialog box with the 'Window' tab selected. The dialog has a title bar with a question mark, 'OK', and 'X' buttons. Below the title bar are tabs for 'Server', 'Application', 'Logon', 'Window', 'Options', 'Title', and 'Firewall Settings'. The main area contains the text: 'These settings specify how the application window will appear on your desktop:' followed by an 'ica' logo. There are two sections: 'Window Size' and 'Window Colors'. The 'Window Size' section has two radio buttons: 'Absolute (in pixels)' and 'Relative (% of desktop size)'. The 'Relative' option is selected, and there is a 'Screen Percent' input field with the value '100'. The 'Window Colors' section has two radio buttons: '16' and '256', with '256' selected.

4. In the **Window Size** box, set the window size either in pixels or as a percentage of the actual screen size of the Windows CE device.

Note If the window size is set larger than the actual screen size of the Windows CE device, the virtual screen control is displayed in the ICA session window. This control allows you to pan the actual screen around the larger virtual screen of the ICA session. See the section “Virtual Screen Panning” for more information.

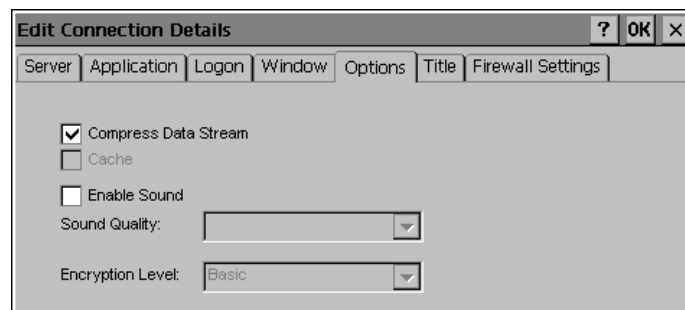
5. In the **Window Colors** box, set the number of window colors to 16 or 256.
6. Click **OK** to save your changes.

Setting Connection Entry Options

Use the **Options** tab to set options specific to the connection entry, such as data compression and sound support.

▶ To set connection entry options

1. Click the name of the connection entry that you want to change.
2. On the **Entry** menu, click **Properties** to display the **Edit Connection Details** dialog box.
3. Click the **Options** tab.



4. Click **Compress Data Stream** to reduce the amount of data transferred between the ICA Client and the Citrix server.

If your connection is bandwidth-limited, enabling compression can increase performance. If your client device is on a high-speed LAN, you may not need compression. If you have sufficient bandwidth, leave compression off to conserve processing power on the Citrix server.

The **Cache** feature is not supported in this release.

Click **Enable Sound** to enable sound support. From the pull-down list, select one of the following quality levels.

- **High.** This value provides the greatest audio quality but should be used only when bandwidth consumption is not a concern.
- **Medium.** Using this value results in less bandwidth consumption than when using **High**. Compression of sound data provides greater bandwidth efficiency but reduces sound quality somewhat. This value is recommended for most LAN-based connections.
- **Low.** This value offers the most efficient use of bandwidth but also decreases sound quality severely. This value is recommended for low-bandwidth connections, including most modem connections.

The **Encryption** feature is not supported in the Windows CE client.

5. Click **OK** to save your changes.

Configuring Business Recovery

The ICA Windows CE Client uses the information entered in the **Server Location** dialog box to locate available Citrix servers and published applications.

Each Citrix server runs the ICA Browser service. This service maintains a list of available Citrix servers and published applications on the network. The *master browser* service acts as a central information store by maintaining the list and periodically obtaining updates from the other servers.

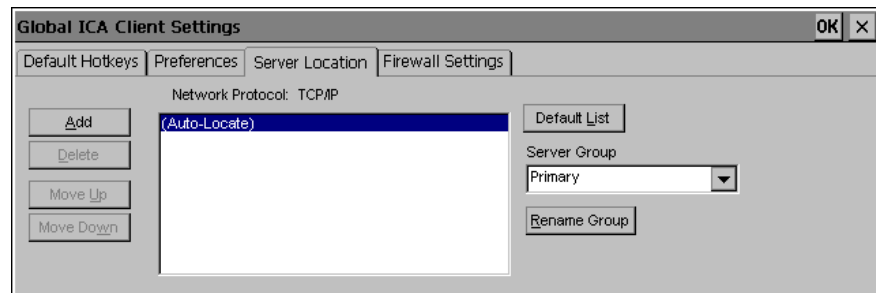
Each Citrix ICA Client must locate the master browser to get the address of a server or published application. By default, the client can automatically locate the master browser by sending out broadcast packets. If you are connecting across a router or the Internet, these broadcast packets may not reach the Citrix servers. Business Recovery allows you to manually define a list of servers to contact to determine the master browser. You can define up to three groups of Citrix servers to which you want to contact: a primary and two backups.

When you configure Business Recovery, the client attempts to contact all the servers within the Primary group using directed packets; the first server to respond is then queried for the address of the master ICA Browser. If none of the servers respond, the client attempts to contact all the servers within the Backup 1 group. If there is still no response, the client attempts to contact all of the servers in the Backup 2 group. This process is repeated each time the user attempts to make an ICA connection.

Business Recovery options can be set for a particular connection entry or all connection entries. If both are set, the settings for the connection entry are used.

➤ **To set Business Recovery options for all connection entries**

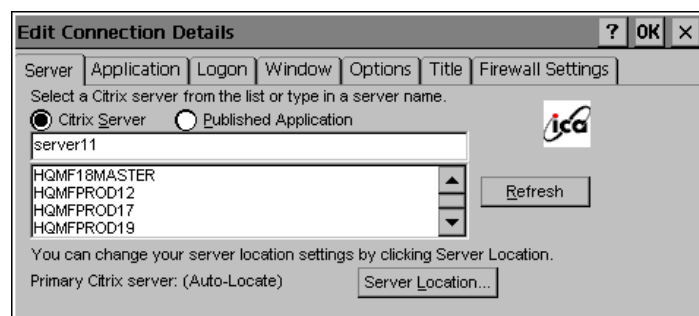
1. On the **View** menu, click **Settings** to display the **Global ICA Client Settings** dialog box.
2. Click the **Server Location** tab.



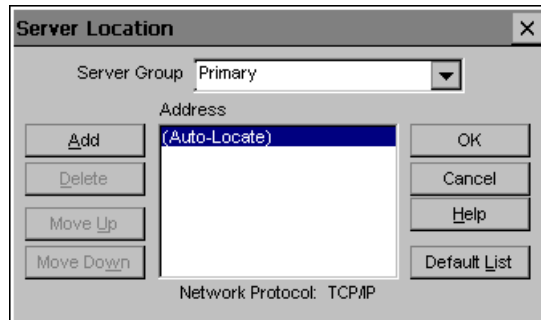
3. On the **Server Group** list, select the server group you want to configure.
4. Click **Add** to add a server to the selected group. The **Add Server Address** dialog box appears.
5. Enter the name or address of a Citrix server and then click **OK**.
6. Add more servers as necessary.
7. Click **OK** to save your changes.

➤ **To set Business Recovery options for a specific connection entry**

1. Click the name of the connection entry that you want to change.
2. On the **Entry** menu, click **Properties** to display the **Edit Connection Details** dialog box.
3. Click the **Server Location** tab.



- Click **Server Location** to display the **Server Location** dialog box.



- Follow the instructions for the procedure above beginning with Step 3.

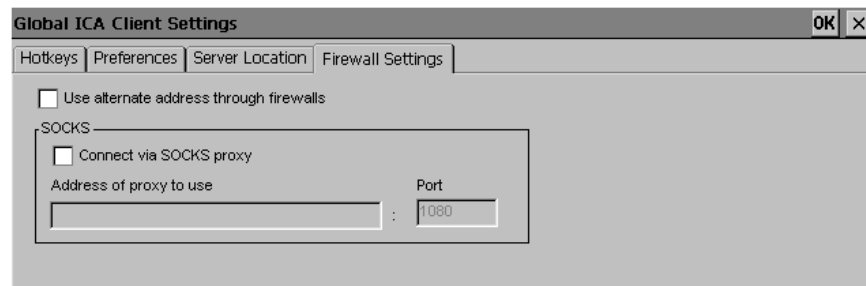
Configuring Firewall Settings

Configuring the ICA Client to Use a SOCKS Proxy

If you are using a SOCKS proxy server to limit access to your Citrix servers, you must configure the ICA Client to connect to Citrix servers through a SOCKS proxy server. You can configure a default SOCKS proxy for all connections or use only a SOCKS proxy with a specific connection file.

► To configure a default SOCKS proxy server

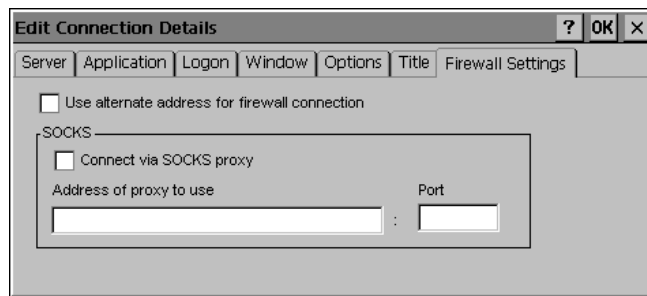
- On the **View** menu, click **Settings** to display the **Global ICA Client Settings** dialog box.
- Click the **Firewall Settings** tab.



- Click **Connect via SOCKS proxy**.
- In the **Address of proxy to use** box, enter the SOCKS proxy server's IP address or DNS name.
- In the **Port** box, enter the proxy server's port number (if different than 1080).
- Click **OK** to save your changes.

Note If you configure a default SOCKS proxy, you must specify at least one server in the **Server Location** tab for server and published application browsing to work.

- **To configure a SOCKS proxy for a specific connection entry**
1. Click the name of the connection entry that you want to change.
 2. On the **Entry** menu, click **Properties** to display the **Edit Connection Details** dialog box.
 3. Click the **Firewall Settings** tab.



4. Follow the instructions for the procedure above beginning with Step 4.

Configuring Alternate Address Translation

If the ICA Client is outside a firewall that uses address remapping, you must configure the ICA Client to use the alternate address returned by the master ICA Browser. This is necessary even if you are not using a SOCKS proxy server.

Note You must also use the ALTADDR utility to manually set the alternate address for each Citrix server, See the Command Reference appendix of either the *MetaFrame Administrator's Guide* or the *WINFRAME System Guide* for more information.

Note If you set alternate address translation for all connection entries, it cannot be disabled for specific connection entries.

- **To use alternate address translation for all connection entries**
1. On the **View** menu, click **Settings** to display the **Global ICA Client Settings** dialog box.
 2. Click the **Firewall Settings** tab.
 3. Click **Use alternate address for firewall connection**.

4. Click **OK** to save your changes.

➤ **To use alternate address translation for a specific connection entry**

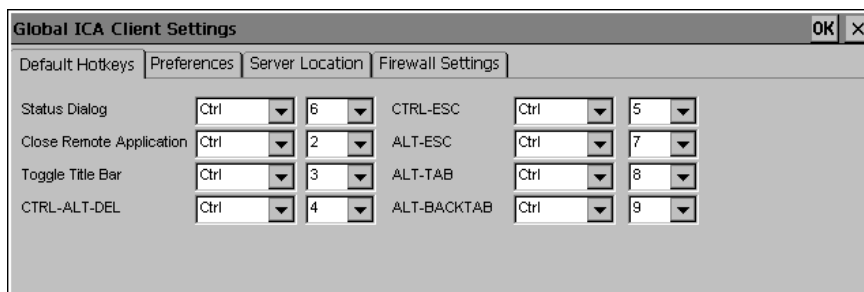
1. Click the name of the connection entry that you want to change.
2. On the **Entry** menu, click **Properties** to display the **Edit Connection Details** dialog box.
3. Click the **Firewall Settings** tab.
4. Click **Use alternate address for firewall connection**.
5. Click **OK** to save your changes.

Changing the Global Settings

This section describes how to change settings that apply for all connection entries on the Windows CE device. It also describes how to change the default settings that are used when creating new connection entries. You may want to do this if you always prefer to use a particular setting; for example, a larger default window size.

➤ **To change the global settings**

1. On the **View** menu, click **Settings** to display the **Global ICA Client Settings** dialog box.



2. Make the desired changes.
3. Click **OK** to save your changes.

The **Global ICA Client Settings** dialog box contains the following tabs:

- The **Default Hotkeys** tab, where you can define alternative key combinations for system hotkeys, See “Configuring Hotkeys” for more information.
- The **Preferences** tab, where you can control the default window and settings used for new connection entries, See “Configuring Global Preferences” for more information.

- The **Server Location** tab, where you can configure Business Recovery options. See “Configuring Business Recovery” earlier in this section for more information.
- The **Firewall Settings** tab, where you can configure the client to use a SOCKS proxy and alternate address remapping. See “Configuring Firewall Settings” earlier in this section for more information.

Configuring Hotkeys

The ICA Windows CE Client provides users with hotkeys that can be used during ICA sessions to control various functions. Some hotkeys control the behavior of the ICA Windows CE Client itself while others emulate standard Windows hotkeys. When you want to use a Microsoft Windows key combination during a session, use the mapped hotkey instead. The following table lists the default ICA Windows CE Client hotkeys.

If you have a palm-sized device you can enter Hotkeys using the Keyboard Input Panel.

Name	Default Value	Description
Status Dialog	CTRL+6	Displays ICA Client connection status.
Close Remote Application	CTRL+2	Disconnects the ICA Windows CE Client from the Citrix server and closes the client window on the local desktop. Using this hotkey leaves the ICA session running in a disconnected state on the Citrix server. If you do not want to leave your session running in a disconnected state, log off instead.
Toggle Title Bar	CTRL+3	Alternately hides and displays the ICA session window title bar. Remove the title bar to maximize your work space.
CTRL-ALT-DEL	CTRL+4	Displays the Windows NT Security dialog box on the Citrix server.
CTRL-ESC	CTRL+5	On MetaFrame servers, the Windows Start menu is displayed. On <i>WINFRAME</i> servers, this hotkey displays the Task List .
ALT-ESC	CTRL+7	This hotkey cycles the focus through the minimized icons and open windows of applications run in your ICA session.
ALT-TAB	CTRL+8	This hotkey cycles through all applications in the ICA session. A pop-up box appears and displays the programs as you cycle through them. The selected application receives keyboard and mouse focus.

Name	Default Value	Description
ALT-BACKTAB	CTRL+9	Like the ALT+TAB hotkey, this key sequence cycles through applications that have been opened in the ICA session, but in the opposite direction. The chosen application receives keyboard and mouse focus.

➤ **To change the default hotkeys**

1. On the **View** menu, click **Settings** to display the **Global ICA Client Settings** dialog box.
2. Use the lists of keys to customize the default hotkey key sequences.
3. Click **OK** to save your changes.

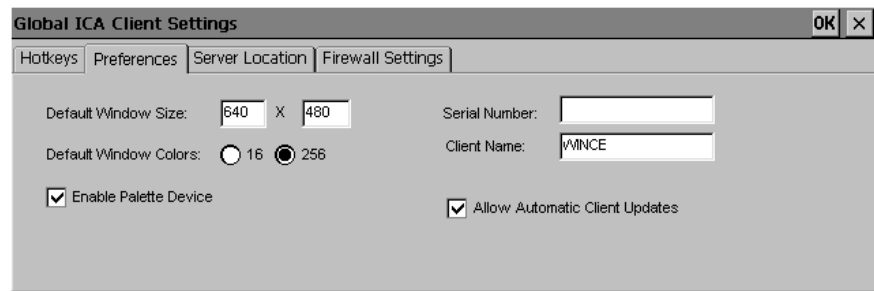
Configuring Global Preferences

The following settings are configured in the global **Preferences** tab:

- **Default Window Colors.** In the **Window Colors** box, select 16 or 256 colors. When using a PPP connection, 16 color mode may provide better performance. If the window options specified exceed the capabilities of the client hardware, the maximum color depth supported by the Windows CE device are used instead.
- **Serial Number.** This is the serial number of your ICA Client software. This number is only necessary when you are using the ICA Windows CE Client with a product such as *WINFRAME* Host/Terminal, which requires each ICA Client to have a Citrix PC Client Pack serial number. If a serial number is required, you must enter it exactly as it appears on the Serial Number card. The serial number is not used when connecting to MetaFrame servers.
- **Client Name.** This box allows you to set the name of your client device. Citrix servers use the client name to uniquely identify resources (such as mapped printers) associated with a given client device. The client name should be unique for each computer running a Citrix ICA Client. If you do not use unique client names, device mapping and application publishing may not operate correctly.
- **Enable Palette Device.** If your device has a configurable hardware palette, check this box to increase graphic presentation performance. If no hardware palette is present on the device, enabling this feature causes graphics to display incorrectly.
- **Allow Automatic Client Updates.** Check this box to allow the client software at this workstation to be automatically updated when a newer version is available. See “Preparing for Client Auto Update” later in this section for more information.

➤ **To change global preferences**

1. On the **View** menu, click **Settings** to display the **Global ICA Client Settings** dialog box.
2. Click the **Preferences** tab.



3. Make the desired changes.
4. Click **OK** to save your changes.

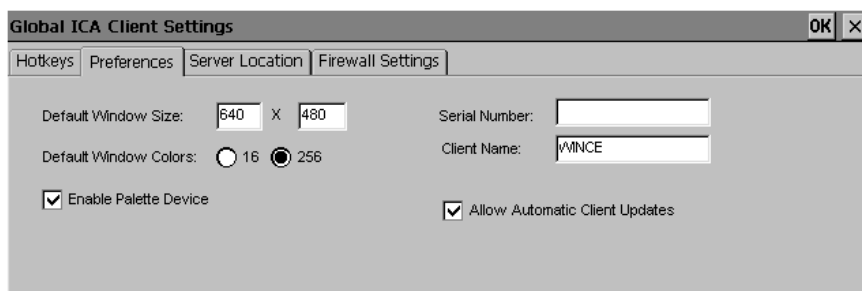
Preparing for Client Auto Update

This version of the ICA Windows CE Client software can be set up so that you can automatically update it from the server when a newer version is available. This means that you are able to “push” a new version of the client software from a central database to the Windows CE device instead of installing the client manually at each device.

Note This feature requires write access to the Windows CE device. Check with your device manufacturer to find out whether you can use this feature for your device.

➤ **To enable the ICA Windows CE Client software for automatic update**

1. On the **View** menu, click **Settings** to display the **Global ICA Client Settings** dialog box.
2. Click the **Preferences** tab.



3. Check **Allow Automatic Client Updates** to allow the client to be automatically updated with a newer version from the Citrix Server.

Note Note that this does not affect this version of the ICA Windows CE Client. The feature prepares the system for future client updates. Instructions describing how to configure a client update database and roll-out new client software will accompany future versions of the ICA Windows CE Client.

Using Local Printers

Client printer mapping lets you access printers attached to your client device from an ICA session. When a Citrix server is configured to allow client printer mapping, applications running remotely on the Citrix server can print to local printers.

- **To view mapped client printers when connected to a MetaFrame server**
 - While connected to a MetaFrame server, double-click **My Computer** on the remote desktop and then double-click **Printers**. The **Printers** dialog box appears.

The **Printers** dialog box displays the mapped local printers along with any other printers available on the MetaFrame server. The name of the printer is *clientname#port*, where *clientname* is the name you have assigned to your ICA Client and *port* is the printer port on your Windows CE device, for example COM1 or LPT1.
- **To view mapped client printers when connected to a WINFRAME server**
 - While connected to the *WINFRAME* server, double-click **Print Manager** in the **Main** program group of Program Manager. Print Manager displays the local printers mapped to the ICA session.

The name of the printer is *clientname#port*, where *clientname* is the name you assigned to your Windows CE device and *port* is the printer port on your Windows CE device.

If your client printer is not automatically mapped on the Citrix server, you can manually map it in the ICA session. Use the following procedures to manually map a client printer.

➤ **To manually map a client printer on a MetaFrame 1.8 or *WINFRAME* 1.8 server**

1. Log on to the Citrix server.
2. On a MetaFrame server, click **Start, Programs, MetaFrame Tools**, and then **ICA Client Printer Configuration**.
— or —
On a *WINFRAME* server, double-click **ICA Client Printer Configuration** in the **Administrative Tools** program group of Program Manager.
3. On the **Printer** menu, click **New** to display the Add ICA Client Printer wizard. Follow the steps in the wizard to map the client printer.

➤ **To manually map a client printer on a MetaFrame 1.0 server**

1. Log on to the MetaFrame server.
2. In the ICA session window, double-click **My Computer** and then double-click **Printers**.
3. Double-click **Add Printer**. Select **Network printer server** and click **Next**.
4. In the **Shared Printers** box, double-click **Client Network** and then double-click **Client**.
5. Select *clientname#port*, where *clientname* is the name you assigned to your Windows CE device and *port* is the printer port on your Windows CE device, and then click **OK**.
6. If you want this printer to be your default printer, click **Yes**.
7. Click **Next** and then click **Finish**.

➤ **To manually map a client printer on a *WINFRAME* 1.7 server**

1. Logon to the *WINFRAME* server.
2. In the ICA session window, double-click **Print Manager** in the **Main** program group of Program Manager.
3. On the **Printer** menu, click **Create Printer**.
4. In the **Shared Printer** list, double-click **Client**.
5. Double-click the required printer, and then click **OK**.

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