Citrix ICA Win32 Client Quick Reference Card

Synopsis:

Details:

This Quick Reference Card describes how to use the Citrix ICA Win32 Client to connect to a Citrix MetaFrame or WinFrame server and run remote applications. Topics covered include:

- Connectivity
- Starting the ICA Win32 Client
- Connecting to a Citrix server
- Using ICA Client features
  - ICA Win32 Client hotkeys
  - Accessing local drives
  - Accessing local printers
  - Transparent clipboard access
  - Audio Mapping
  - Mapping a COM port
  - Seamless windows
- Terminating the session

This Quick Reference assumes the ICA Win32 Client has already been installed on the client workstation and entries have been configured in Remote Application Manager. For more information, including installation instructions and new entry configuration procedures, see the Citrix ICA Client User's Guide.

Connectivity

The ICA Win32 Client offers users three different methods of connecting to Citrix servers: Network, Dial-In, and Serial.
Network. To use a Network connection, your workstation can either be directly wired to the network, or you can use software such as Microsoft Dial-Up Networking or a third-party remote node product to dial in to the network. Make sure your client workstation is connected to the network that contains the Citrix server before starting Remote Application Manager. Ask your system administrator if you are not sure how to connect to the network.

Dial-In. If you are dialing in to a Citrix server, make sure your modem is properly configured and turned on.

Serial. If you are using a serial null modem connection to a Citrix server, make sure your null modem cable is connected to the Citrix server and your workstation.

Starting the ICA Win32 Client

To start the ICA Win32 Client on a Windows 95, Windows NT 4.0, or MetaFrame client computer:

On your desktop, click Start. Point to Programs and select Citrix ICA Client. Click Remote Application Manager to start the Remote Application Manager.

To start the ICA Win32 Client on a Windows NT 3.51 or WinFrame client computer:

Double-click the Citrix ICA Client program group on your desktop. Double-click Remote Application Manager.

Toolbar Buttons

The ICA Win32 Client toolbar contains the following buttons:

<table>
<thead>
<tr>
<th>Toolbar Button</th>
<th>Action Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td>![File]</td>
<td>Add a new remote application entry.</td>
</tr>
<tr>
<td>![Copy]</td>
<td>Copy the selected remote application entry.</td>
</tr>
<tr>
<td>![Delete]</td>
<td>Delete the selected remote application entry.</td>
</tr>
<tr>
<td>![Edit]</td>
<td>Edit or view the selected remote application.</td>
</tr>
<tr>
<td>![Connect]</td>
<td>Connect to the selected remote application.</td>
</tr>
<tr>
<td>![Configure]</td>
<td>Configure ICA Win32 Client modems.</td>
</tr>
<tr>
<td>![Configure]</td>
<td>Configure serial devices.</td>
</tr>
</tbody>
</table>

Connecting to a Citrix Server
The Remote Application Manager displays two types of configured connections: ICA connections and published applications. An **ICA connection** allows a user to access the desktop of a Citrix server. The user can run any applications available on the desktop, in any order. A **published application** is a predefined application and its associated environment. Published applications can run in seamless windows. Seamless windows are covered later in this Quick Reference Card.

To start a previously defined connection using the Remote Application Manager:

Double-click the desired entry in the list, or place the cursor bar on the desired entry and click the **Connect** button on the toolbar, or choose **Connect** from the **Entry** menu. If the remote application entry contains a valid user name and password, the ICA Client logs in as that user name. If no user name and password are present in the entry, the server logon screen appears. Enter a valid user name and password for the Citrix server and click **OK** to begin the session.

**Using ICA Win32 Client Features**

After you connect to a Citrix server or published application, the ICA Win32 Client provides additional features that make remote control computing just like using a desktop computer. The ICA Win32 Client provides users with hotkeys, clipboard support, and access to local storage devices, printers, and devices attached to local COM ports.

**ICA Win32 Client Hotkeys**

The Citrix Win32 Client provides hotkeys that can be used to control various functions while in an ICA session. Some hotkeys control the behavior of the ICA Win32 Client itself while others emulate standard Windows hotkeys. The key combinations in the left column are default values and can be changed using Remote Application Manager.

<table>
<thead>
<tr>
<th>Hotkey</th>
<th>Action Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHIFT+F1</td>
<td>The Task List hotkey displays the local Windows Task List for Windows NT 3.51 client computers or the local Start menu for Windows NT 4.0 or Windows 95 client computers.</td>
</tr>
<tr>
<td>SHIFT+F2</td>
<td>The Toggle Title Bar hotkey causes the Citrix ICA Client window to display or hide its Windows title bar.</td>
</tr>
<tr>
<td>SHIFT+F3</td>
<td>The Close Remote Application hotkey disconnects the ICA session and exits the</td>
</tr>
<tr>
<td>Hotkey</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>CTRL+F1</td>
<td>Sends the standard Windows CTRL+ALT+DEL hotkey to the Citrix server running the remote application. This hotkey displays the Windows NT Security desktop in the ICA session.</td>
</tr>
<tr>
<td>CTRL+F2</td>
<td>Sends the standard Windows CTRL+ESC hotkey to the Citrix server running the remote application. When using this hotkey during an ICA session on a WinFrame server, the remote Task List appears. For MetaFrame ICA sessions, the remote Windows NT Start menu appears.</td>
</tr>
<tr>
<td>ALT+F2</td>
<td>Sends the standard Windows hotkey ALT+ESC to the Citrix server running the remote application. Use this hotkey to cycle through maximized and minimized windows of programs that have been opened in the ICA session.</td>
</tr>
<tr>
<td>ALT+PLUS</td>
<td>Sends the standard Windows hotkey ALT+TAB to the Citrix server running the remote application. Use this hotkey to cycle through applications that have been opened in the ICA session. A popup box appears and displays the programs as you cycle through them.</td>
</tr>
<tr>
<td>ALT-MINUS</td>
<td>Sends the standard Windows ALT+SHIFT+TAB hotkey to the Citrix server running the remote application. Like the ALT+PLUS hotkey, this key sequence cycles through applications that have been opened in the ICA session but in the opposite direction.</td>
</tr>
<tr>
<td>CTRL+F3</td>
<td>Sends the standard Windows CTRL+SHIFT+ESC hotkey to the MetaFrame server running the remote application. (This hotkey is not used by ICA sessions on WinFrame servers.) This hotkey displays the Windows NT Task Manager in the ICA session.</td>
</tr>
</tbody>
</table>

### Accessing Local Drives

*Client drive mapping* makes the local disk drives of client computers available to users when they connect to the Citrix server. Accessing a local drive on a client computer requires no manual configuration by the user of the client computer. When a Citrix server is configured to allow client drive mapping, users can access their locally stored files, work with them during their ICA sessions, and then save them again either on a local drive or on a drive on the Citrix server.

To view mapped client drives when connected to a MetaFrame server:

From within the ICA Client session, double-click **My Computer** on the remote desktop. The **My Computer** screen appears:
In this example, drives C, D, and E are storage devices on the MetaFrame server. The A and C drives on the client computer are mapped to drives A and V on the MetaFrame server. A user can access the client C drive in this ICA session by using drive V for any operation. For example, to save a file to the client machine's C drive, the user would specify drive V in the application.

Citrix servers can be configured to remap their server drives. When server drives are remapped, the local drives retain their original drive letters:

In this example, drives M, N, and O are storage devices on the MetaFrame server. Drives A and C are the client computer's A and C drives, respectively.

Published applications and ICA server connections that run a specified initial program offer users the same access to their local drives. When connected to published applications, users can access local drives in the same way they would when using locally run applications.

**Accessing Local Printers**

*Client printer mapping* lets users access printers attached to their client computers during ICA sessions. When a Citrix server is configured to allow client printer mapping, applications running remotely on the Citrix server can print to local printers. ICA Win32 Client users have instant access to their local printers once they connect to a Citrix server.

To view mapped client printers when connected to a MetaFrame server:

While connected to the MetaFrame server, double-click **My Computer** on the remote desktop and then double-click **Printers**. The **Printers** screen appears:
The **Printers** screen displays the local printers mapped to the ICA session. The name of the printer takes the form `clientname#printername`, where `clientname` is the unique name given to the client computer during ICA Client setup and `printername` is the Windows printer name. In this example, a client machine called Snoop40 has access to its local printer named Laser.

Published applications and ICA server connections configured to run a specified initial program offer users the same access to their local printers (although they are unable to use Windows utilities to view local printers). When connected to published applications, users can print to local printers in the same way they would print to a local printer when using locally run applications. When using an application's print commands, select the local mapped printer from the list of available printers.

**Transparent Clipboard Access**

You can use the client workstation's clipboard to cut and paste objects between applications running locally on the client computer and applications running remotely in an ICA session. Access to the local clipboard is transparent and requires no special procedures. Using the familiar Windows cut, copy, and paste commands, users can transfer text, pictures, files, and other objects back and forth between local and remote applications.

**Audio Mapping**

Audio mapping allows client computers to play sounds generated by remote applications running on the Citrix server. Citrix audio support includes configurable sound quality levels that allow users to customize sound presentation based upon the desired sound presentation quality and the amount of bandwidth available to client systems. Audio mapping is transparent and needs no special procedures once it is configured.

Configure audio mapping from the Remote Application Manager Add a new Remote application wizard or from the Properties menu.

**COM Port Mapping**

Client COM port mapping allows devices attached to the client workstation's COM ports to be used during ICA sessions on a Citrix server. These mappings can be used by your applications just like any other network mappings.

To map a client COM port:

1. Start the ICA Client and logon to the Citrix server.
2. Start a DOS command prompt: on WinFrame, double-click **Command Prompt** in the **Main** program group. On MetaFrame, click **Start** and then click **Programs**, then click **Command Prompt**.

3. At the prompt, type `net use com:x: \client\com:z:` where `x` is the number of the COM port on the server (ports 1 through 9 are available for mapping) and `z` is the number of the client COM port you want to map. Press ENTER.

4. To confirm the operation, type `net use` at the prompt. The list that appears contains mapped drives, LPT ports, and mapped COM ports.

To use this COM port in a session on a Citrix server, install your device to the mapped name. For example, if you map COM1 on the client to COM5 on the server, install your COM port device on COM5 during the session on the server. Use this mapped COM port as you would a COM port on the client computer.

**NOTE:** COM port mapping is not TAPI-compatible. TAPI devices cannot be mapped to client COM ports.

**Seamless Windows**

The Citrix ICA Win32 Client supports running published applications in seamless windows on Windows NT 4.0 and Windows 95 client computers. **Seamless windows** are ICA Client session windows containing published applications that are configured to run in seamless mode. A seamless windows session runs in a resizable window. Because seamless windows only contain published applications, seamless ICA connections must be network (non-serial) connections. Seamless windows ICA connections also differ from non-seamless connections in the number of published applications that can be run in a single ICA session. When using seamless windows, users can make a single ICA connection to a Citrix server that has multiple published applications configured and then run several published applications in the same ICA session. The ICA Seamless Connection Center is used to control your ICA seamless connections.

To start the ICA Seamless Connection Center:

1. Start the Remote Application Manager and connect to a published application that you have configured to run in seamless windows.

2. Once you are connected to the published application, the ICA Seamless Connection Center starts, and the ICA Seamless Connection Center icon appears in the system tray of your Windows taskbar. Double-click the ICA Seamless Connection Center icon, or right click the icon and then click Open Connection Center. The ICA Seamless Connection Center appears:
The **Active Connections** field displays a list of active seamless ICA sessions and active published applications. Each server entry in the list represents an active ICA session. Below each server entry appears a list of the published applications you are running on that server. In this example, the user has started two seamless ICA sessions. The first ICA session contains one published application and the second ICA session contains two published applications.

To terminate an individual published application connection:

Select a published application and click **Terminate**. The published application terminates. If you have other published applications running on that MetaFrame server, the ICA session remains active and the published applications remain running. If no other published applications are running on the server connection, the ICA connection to the server is terminated.

To logoff a MetaFrame server:

Select a server entry from the list and click **Logoff**. The ICA session is ended and all published applications you are running on that server are terminated.

To close the ICA Seamless Connection Center:

Click **Close**. The ICA Seamless Connection Center closes but does not exit. The ICA Seamless Connection Center icon remains in the system tray of the Windows taskbar.

To exit the ICA Seamless Connection Center:

Right-click the ICA Seamless Connection Center icon in the Windows system tray, and then click **Terminate Connection Center**.

**NOTE**: Use the seamless hotkey SHIFT+F2 to toggle between a seamless window and a full screen presentation of a published application. This hotkey must be used to return to a seamless window after accessing the Windows NT Security desktop using the CTRL+ALT+DEL hotkey.

**Ending a Citrix Server Connection**
Citrix servers support two types of connection termination. Users can log off or disconnect. Logging off ends the user's session and hangs up the modem if a modem is in use. Disconnecting leaves a user's session executing on the server. The user can reconnect to that session and resume any tasks left executing on the server. For example, a user can connect to a Citrix server and execute an application that requires an extended period of time to complete a task. After starting the task, the user can disconnect the session. The user can later reconnect to the session to retrieve the results of the operation.

To log off from a Citrix server connection during an active session:

To log off from a WinFrame server, click File in Program Manager in your active session and then click Logoff. Click OK to the confirmation message.

To log off from a MetaFrame server, click Start in your active session and then click Logoff. Click OK to the confirmation message.

To disconnect from a Citrix server connection during an active session:

To disconnect from a WinFrame server, click File in Program Manager in your active session and then click Disconnect. Click OK to the confirmation message.

To disconnect from a MetaFrame server, click Start in your active session and then click Disconnect. Click OK to the confirmation message.

To exit the ICA Win32 Client:

In Remote Application Manager, click the Entry menu, and then click Exit or press ALT+F4.

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