

# Administrator's Guide

## HP ThinPro



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#### **Administrator's Guide**

HP ThinPro

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## About This Book

-  **WARNING!** Text set off in this manner indicates that failure to follow directions could result in bodily harm or loss of life.
  -  **CAUTION:** Text set off in this manner indicates that failure to follow directions could result in damage to equipment or loss of information.
  -  **NOTE:** Text set off in this manner provides important supplemental information.
-



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# Table of contents

## 1 Introduction

Using HP ThinPro .....	2
------------------------	---

## 2 Installation

Connections .....	6
Connect .....	6
Disconnect .....	7
General Settings .....	7
Firefox .....	7
General .....	8
Tabbed Browsing .....	9
Security .....	10
Citrix ICA .....	11
Options .....	12
Local Resources .....	13
Window .....	14
Firewall .....	15
Server Location .....	16
Keyboard Shortcuts .....	17
RDP .....	17
Add .....	18
Citrix ICA .....	19
Network .....	20
Connection .....	22
Window .....	23
Application .....	25
Firewall .....	26
Smart Ping .....	28
Common Settings .....	29
RDP .....	30
Network .....	30
Window .....	31
Options .....	32
Local Resources .....	33
Experience .....	34
Advanced .....	35
Teemtalk .....	35
Adding a Teemtalk Connection using the Teemtalk Creation Wizard .....	36

Adding a Teemtalk Connection Manually .....	39
Firefox .....	41
Configuration .....	42
Advanced .....	43
PNAgent .....	43
Configuration .....	44
Advanced .....	45
Leostream .....	45
Network .....	46
Advanced .....	47
Provision .....	47
Network .....	48
Window .....	49
Options .....	50
Local Resources .....	52
Experience .....	53
Advanced .....	54
VDM .....	55
Network .....	55
Advanced .....	56
Xdmcp .....	56
Configuration .....	57
Advanced .....	58
SSH .....	58
Configuration .....	59
Advanced .....	61
Telnet .....	62
Configuration .....	62
Advanced .....	63
Custom .....	64
Configuration .....	64
Advanced .....	65
Copy .....	65
Delete .....	65
Edit .....	66
Control Panel .....	67
Boot Logo .....	68
Create a Theme .....	69
Install a Theme .....	70
Select this Theme .....	70
Remove this Theme .....	70
HP Agent Config .....	71
Altiris Configuration .....	72
Date and Time .....	73
Desktop Background .....	74
Display Preferences .....	75
ezUpdate .....	76
ezUpdate Server Deployment .....	78
DHCP Server Deployment .....	80
Language .....	80

Network .....	81
Interfaces Tab .....	81
General Tab .....	83
DNS Tab .....	84
Printer .....	85
Printers Tab .....	85
Add Printers .....	86
Modify Printers .....	87
Delete Printers .....	87
Jobs Tab .....	88
Profile Manager .....	89
Screensaver .....	90
Display s Tab .....	91
Advanced Tab .....	91
Security .....	92
ThinPrint .....	93
HP ThinState Utility .....	93
Capture Thin Client Settings to USB Drive .....	93
Deploy Captured Settings from a USB Drive .....	96
Capture a Thin Client Full Image to a USB Drive .....	97
Deploy a Full Image to an FTP Site .....	98
Touch Screen .....	100
Software Update .....	100
User Permissions .....	101
Shadowing .....	102
Keyboard .....	103
Sound .....	104
Mouse .....	105
Window Manager .....	106
System Information .....	108
General .....	108
Network .....	109
Net Tools .....	110
Software Information .....	111
<b>Index .....</b>	<b>112</b>



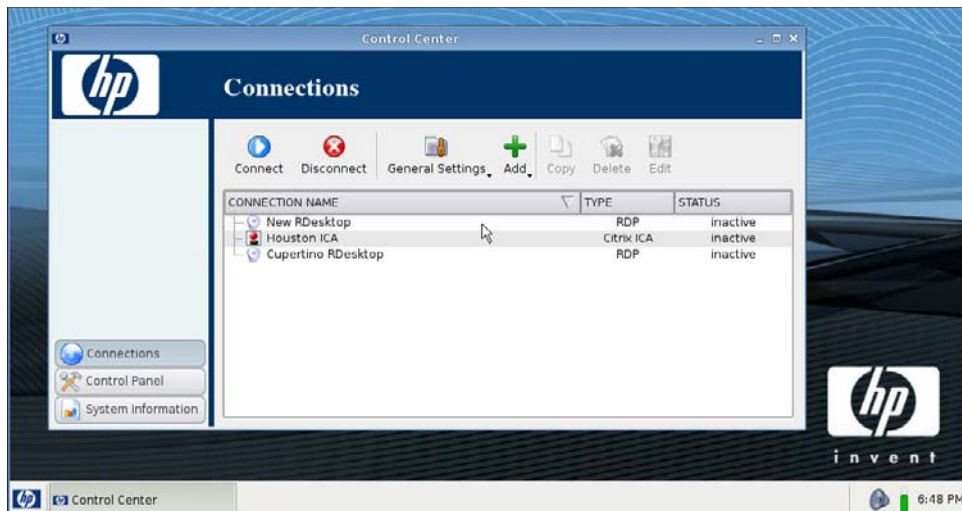


# 1 Introduction

This guide provides the network administrator with instructions for configuring the thin client and explains the various configuration utilities.

The HP ThinPro operating system provides access to Windows, Citrix, mainframes, mid-range servers, Unix/Linux hosts, and Web applications. A single console provides a streamlined and customizable user interface. Integrated support for virtualization brokers such as HP SAM, Citrix XDI, Leostream, VDM, and Provision Networks improve resource allocation when accessing HP blades, VMware, or XenDesktop environments.

HP ThinPro interface is displayed by default when you turn on the thin client. The desktop includes a taskbar that provides access to open applications, a volume icon, and a clock.



## Using HP ThinPro

HP ThinPro allows you to launch and manage host and remote application connections by creating an ICA, PNAgent, RDP, TeemTalk, Leostream, Provision Networks, VDM, X Windows, or Firefox connection. When logged in as Administrator, you can define which connections and connection types are visible when in User mode. The Administrator can further restrict Users from deleting connections or creating new ones.

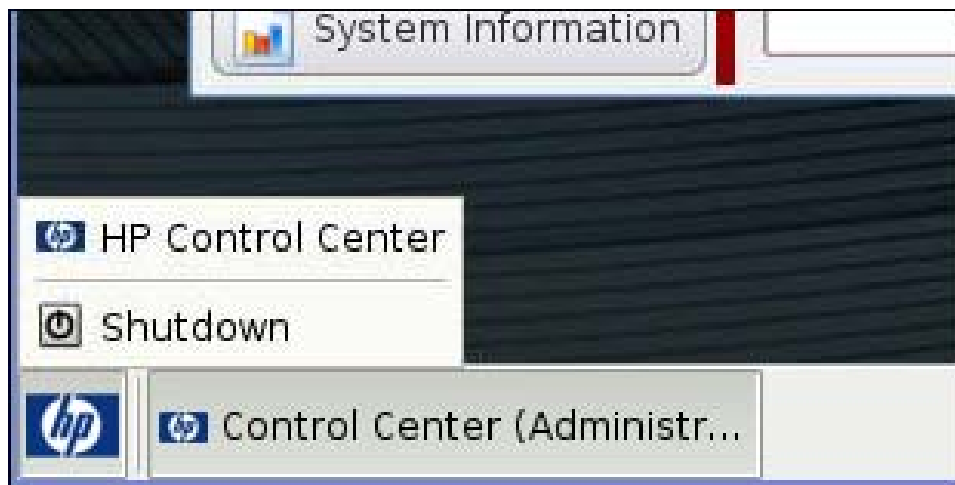


**NOTE:** You must log in with administrator permissions to access all components of the HP ThinPro window. If the banner at the top of the console window is red, then the operating system is in Administrative Mode. If the banner is blue, then the console is in User Mode.

HP ThinPro opens by default in the User Mode. To switch to the Administrative Mode:




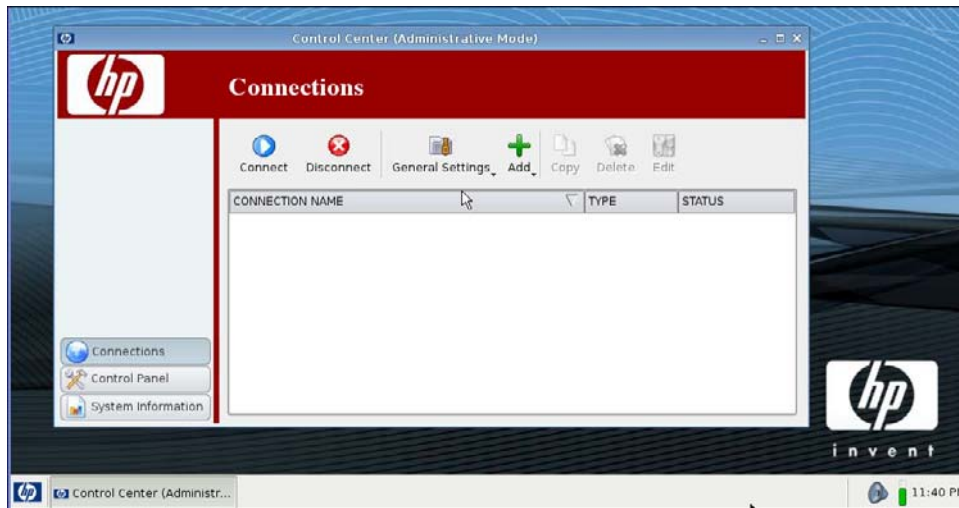
1. Click the HP logo in the bottom left of the screen and select **Shutdown**.



2. Click **Switch to Admin** and click **OK**.

3. Type the **Administrative password** in the field and click **OK**.

 **NOTE:** The default password for Administrative Mode is `root`.



---

## 2 Installation

HP ThinPro allows you to access and manage remote connections such as ICA, PNAgent, RDP, TeamTalk, Leostream, Provision Networks, VDM, X Windows, Firefox, etc. To access all HP ThinPro functionality, you must log in as an Administrator. As a User, you can run connections and have limited access to HP ThinPro functionality.

The HP ThinPro display, when configured, lists all server and/or application connections assigned to the user currently logged on to the terminal. For each connection, the display shows the name, type, and status of the connection.



**NOTE:** Double-click any displayed connection to activate that connection.

A pink field indicates required information. You may not finish or advance to a new page without supplying information in this field.

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# Connections

You can configure and assign connections using the Connections tab.

- ▲ Click **Connections**.



The **Connections** window lists all connections that you can assign to users. You can add, edit, and delete connections from this window.

- **Connection Name:** Displays the name of the connection. You cannot change the connection name from this column.
- **Type:** Displays the type of connection (ICA, PNAgent, RDP, TeemTalk, X Windows, Leostream, Provision Networks, VDM, Firefox, etc.). You cannot change the connection type from this column.
- **Status:** Displays the status, active or inactive, of the connection.

There are seven buttons across the top of the connection list:

- [Connect on page 6](#): Click to start a selected connection.
- [Disconnect on page 7](#): Click to disconnect a selected connection.
- [General Settings on page 7](#): Click to manage connection settings.
- [Add on page 18](#): Click to create a new connection and add it to the list of available connections.
- [Copy on page 65](#): Click to copy a connection and add it to the list of available connections.
- [Delete on page 65](#): Click to delete the selected connection. The connection is deleted from the lists of connections assigned to all users, not just the user currently logged on to the terminal.
- [Edit on page 66](#): Click to edit the selected connection.

## Connect

- ▲ To open a connection, click a selection under **Connection Name** that has a **Status** of **inactive** and click **Connect**.

## Disconnect

- ▲ To close a connection, click a selection under **Connection Name** that has a **Status** of **active** and click **Disconnect**.

## General Settings

General settings are shared by all connections of a given connection type.

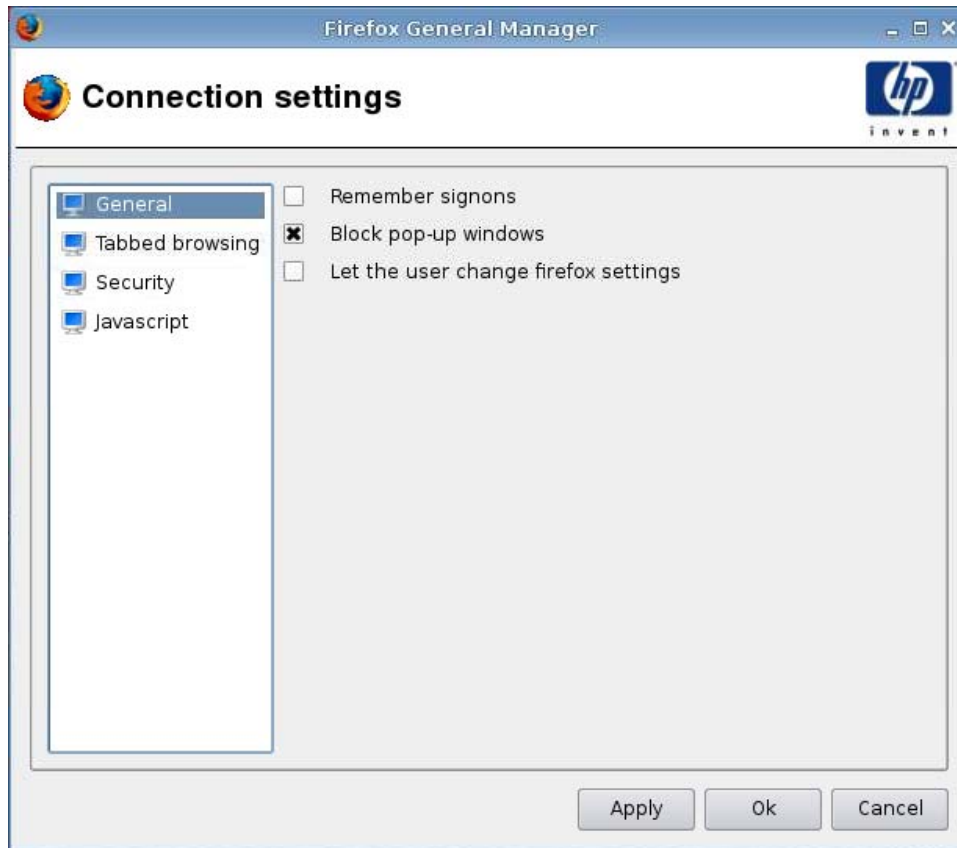
Three types of connections are available:

- [Firefox on page 7](#)
- [Citrix ICA on page 11](#)
- [RDP on page 17](#)

## Firefox

1. Go to **Connections > General Settings**.
2. Select **Firefox** and set the following options:
  - [General on page 8](#)
  - [Tabbed Browsing on page 9](#)
  - [Security on page 10](#)

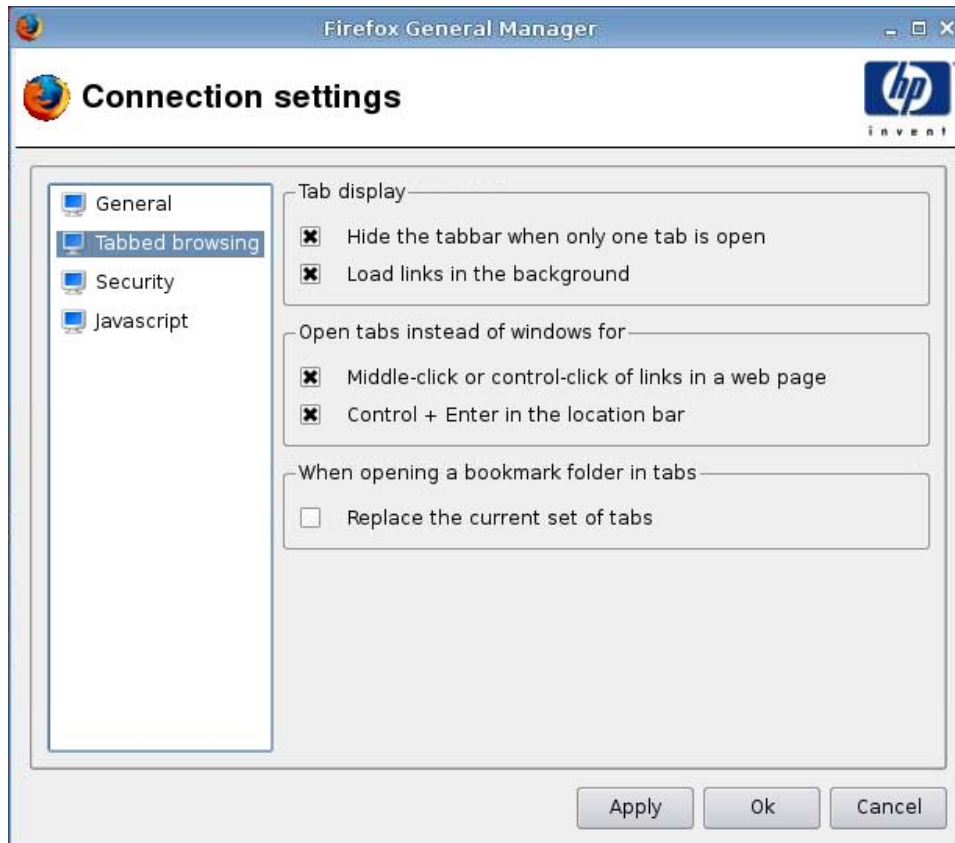
## General



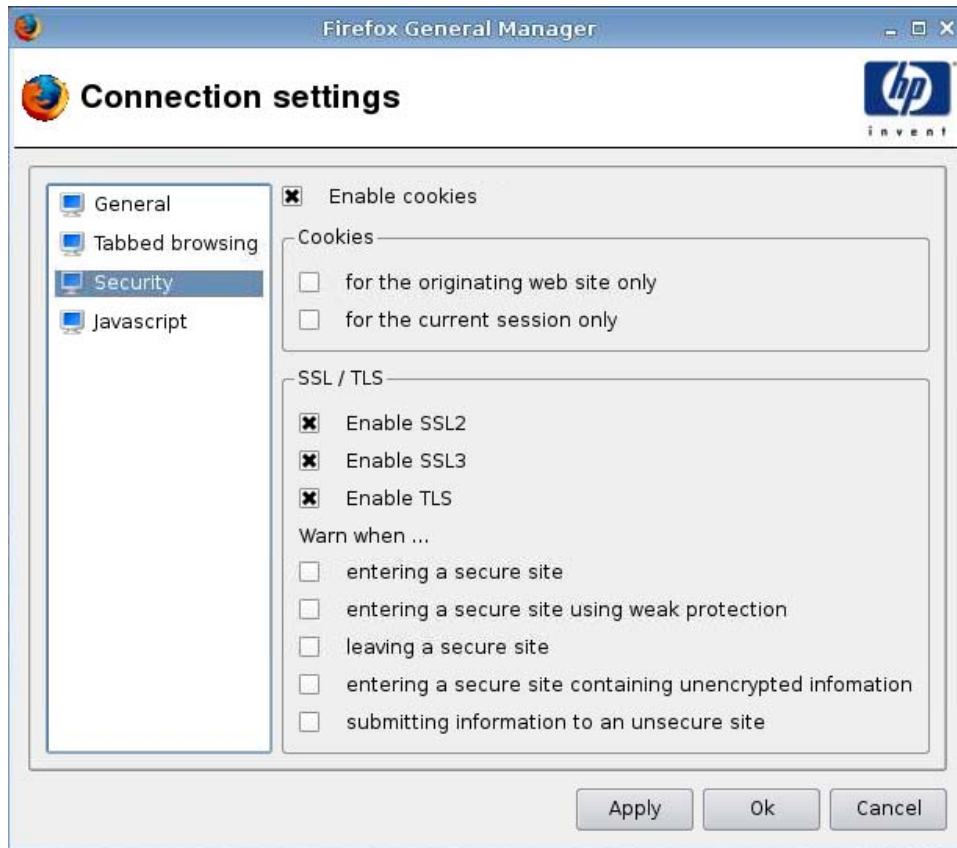
1. Set the following options:
  - **Remember signons**
  - **Block pop-up windows**
  - **Let the user change Firefox settings**
2. Click **Apply** to apply your settings.
3. Click **Ok** when you have finished configuring connecting settings.



## Tabbed Browsing



1. Set the following options:
  - **Tab display**
    - **Hide the tabbar when only one tab is open**
    - **Load links in the background**
  - **Open tabs instead of windows for**
    - **Middle-click or control-click of links in a web page**
    - **Control + Enter in the location bar**
  - **When opening a bookmark folder in tabs**
    - **Replace the current set of tabs**
2. Click **Apply** to apply your settings.
3. Click **Ok** when you have finished configuring connecting settings.



1. Set the following options:
  - **Enable cookies**
  - **Cookies**
    - **for the originating web site only**
    - **for the current session only**
  - **SSL/TLS**
    - **Enable SSL2**
    - **Enable SSL3**
    - **Enable TLS**
    - **Warn when ...**
      - entering a secure site**
      - entering a secure site using weak protection**
      - leaving a secure site**
      - entering a secure site containing unencrypted information**

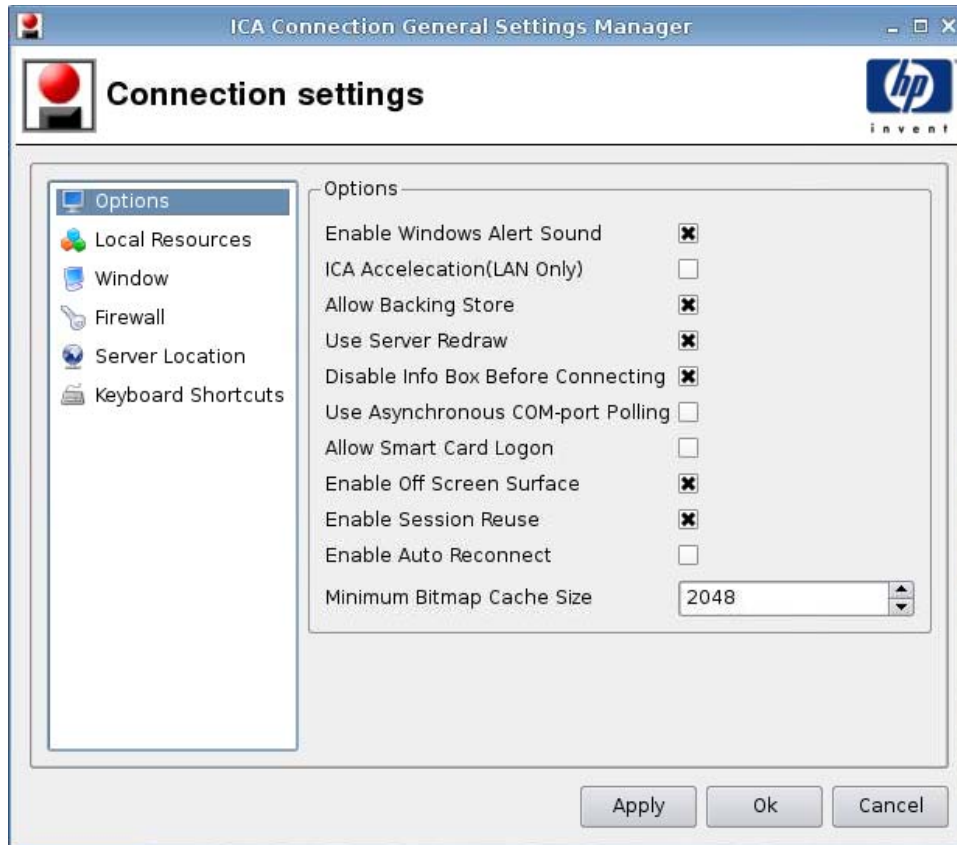
**—submitting information to an unsecure site**

2. Click **Apply** to apply your settings.
3. Click **Ok** when you have finished configuring connecting settings.

## **Citrix ICA**

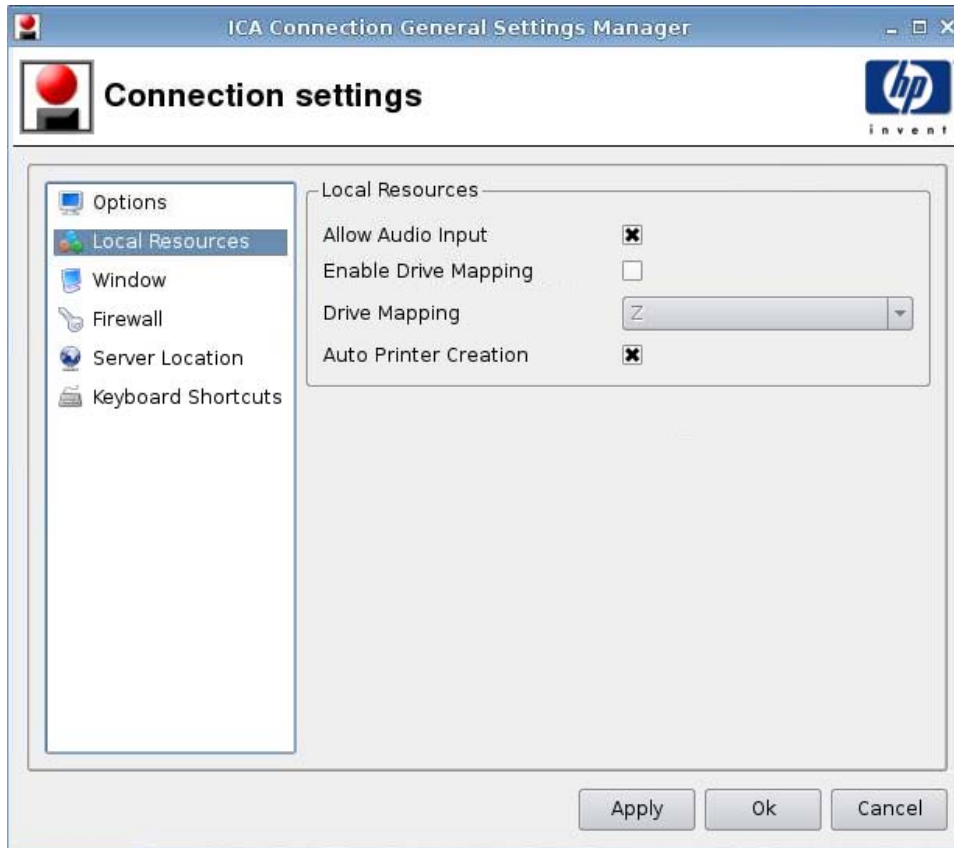
1. Go to **Connections > General Settings**.
2. Select **Citrix ICA** and set the following options:
  - [Options on page 12](#)
  - [Local Resources on page 13](#)
  - [Window on page 14](#)
  - [Firewall on page 15](#)
  - [Server Location on page 16](#)
  - [Keyboard Shortcuts on page 17](#)

## Options



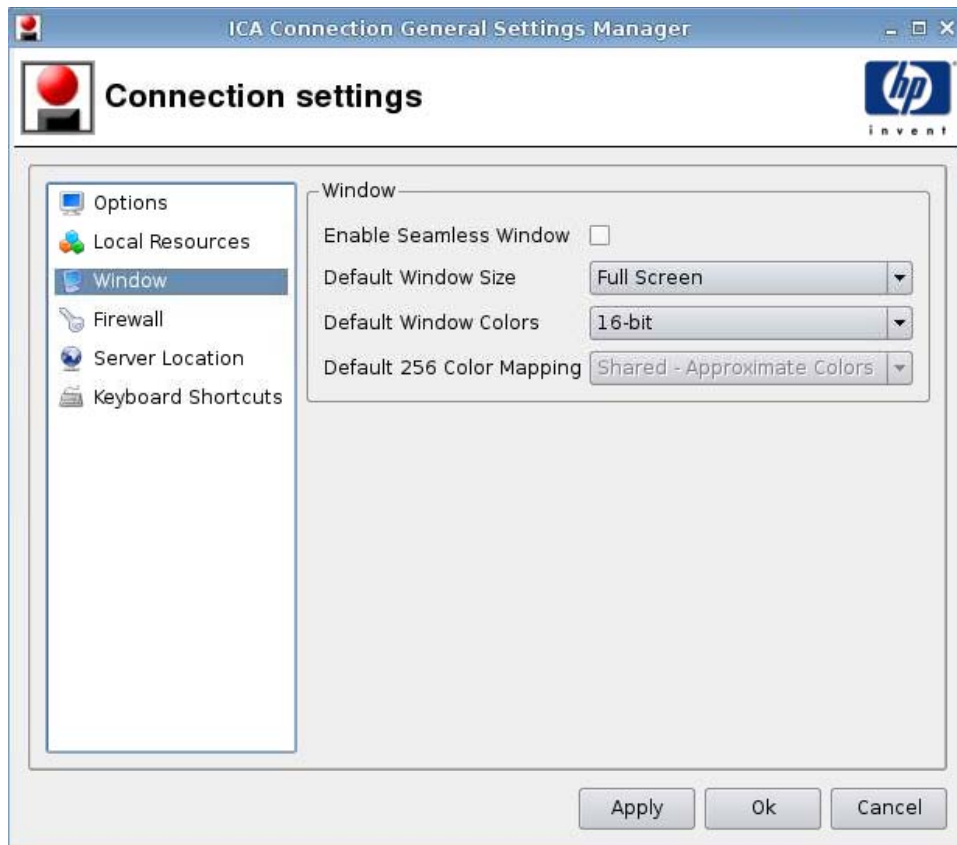
1. Set the following options:
  - **Options**
    - **Enable Windows Alert Sound**
    - **ICA Acceleration (LAN Only)**
    - **Allow Backing Store**
    - **Use Server Redraw**
    - **Disable Info Box Before Connecting**
    - **Use Asynchronous COM-port Polling**
    - **Allow Smart Card Logon**
    - **Enable Off Screen Surface**
    - **Enable Session Reuse**
    - **Enable Auto Reconnect**
    - **Minimum Bitmap Cache Size**
2. Click **Apply** to apply your settings.
3. Click **Ok** when you have finished configuring connecting settings.

## Local Resources



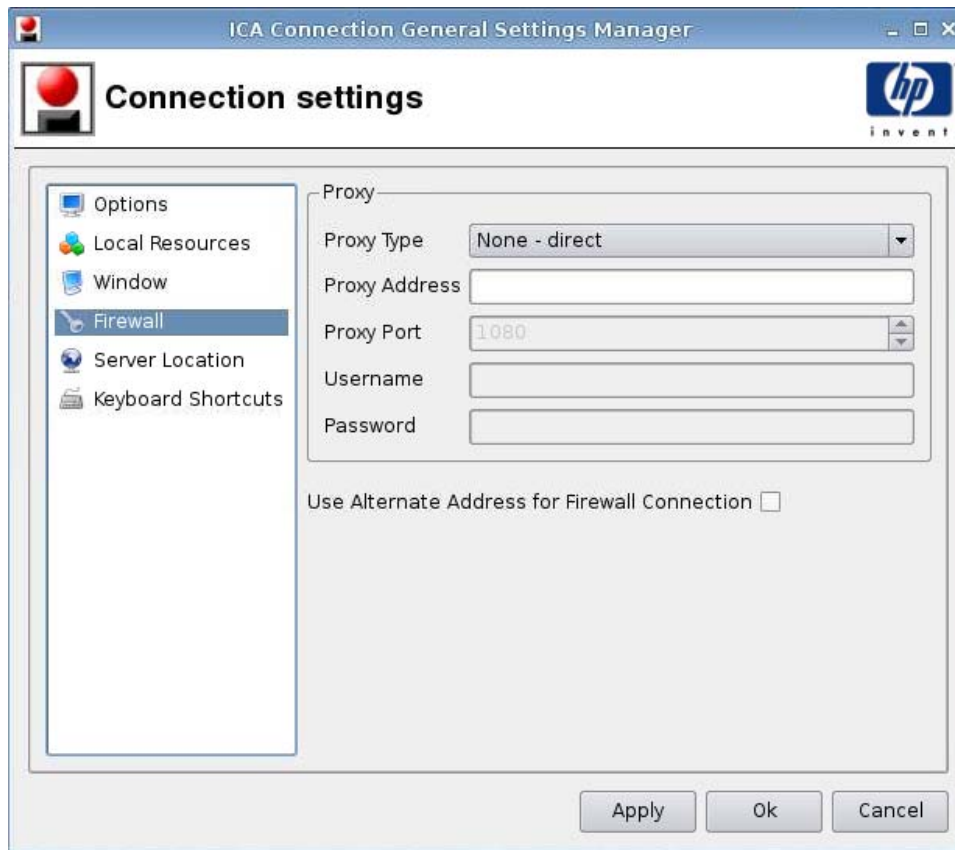
1. Set the following options:
  - **Allow Audio Input**
  - **Enable Drive Mapping**
  - **Drive Mapping**
  - **Auto Printer Creation**
2. Click **Apply** to apply your settings.
3. Click **Ok** when you have finished configuring connecting settings.

## Window



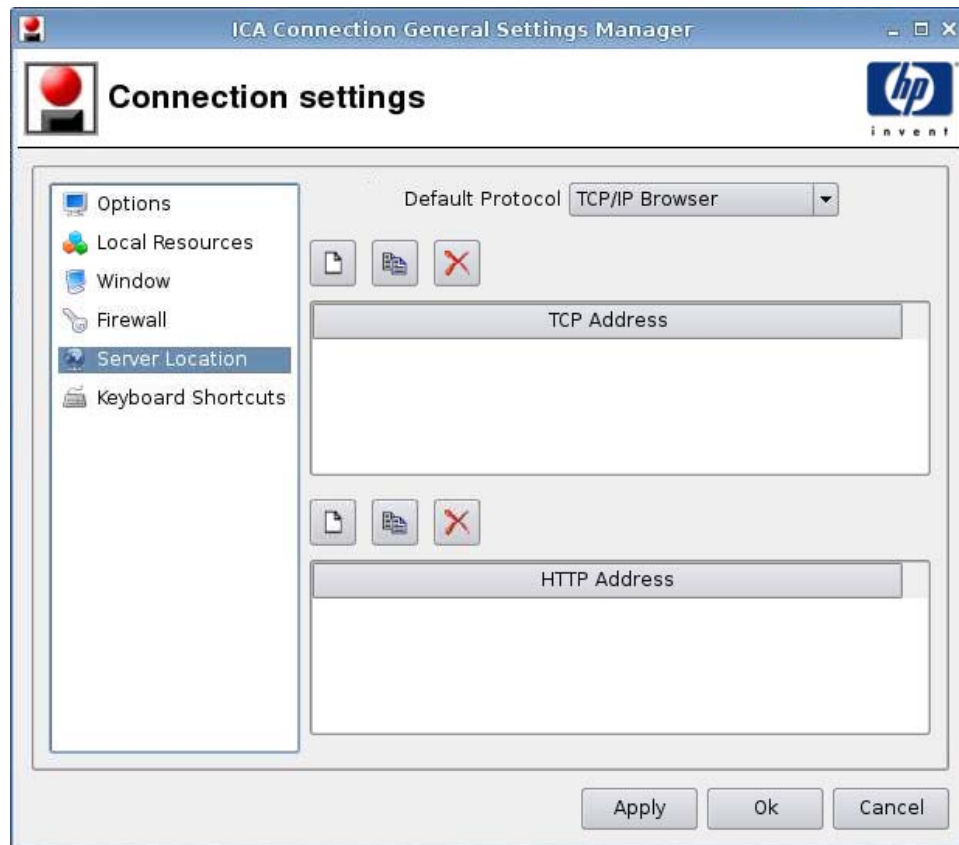
1. Set the following options:
  - **Enable Seamless Window**
  - **Default Window Size**
  - **Default Window Colors**
  - **Default 256 Color Mapping**
2. Click **Apply** to apply your settings.
3. Click **Ok** when you have finished configuring connecting settings.

## Firewall



1. Set the following options:
  - **Proxy**
    - **Proxy Type**
    - **Proxy Address**
    - **Proxy Port**
    - **Username**
    - **Password**
  - **Use Alternate Address for Firewall Connection**
2. Click **Apply** to apply your settings.
3. Click **Ok** when you have finished configuring connecting settings.

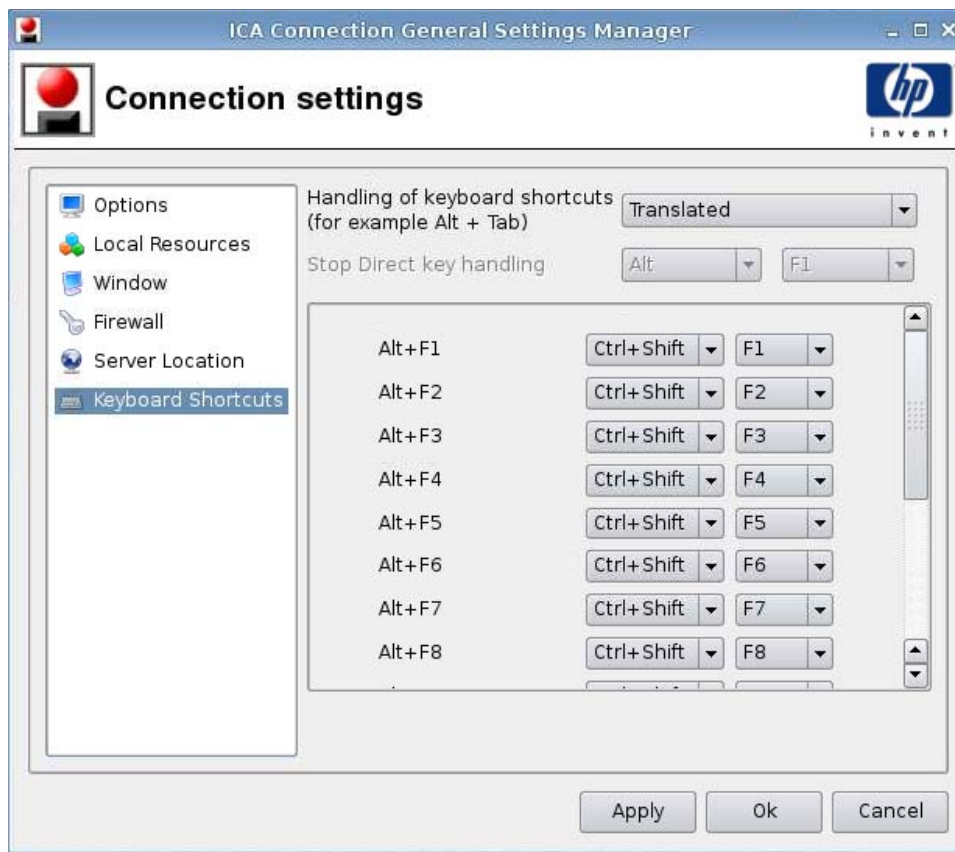
## Server Location



1. Set the following options:
  - **Default Protocol**
  - **TCP Address**
  - **HTTP Address**
2. Click **Apply** to apply your settings.
3. Click **Ok** when you have finished configuring connecting settings.



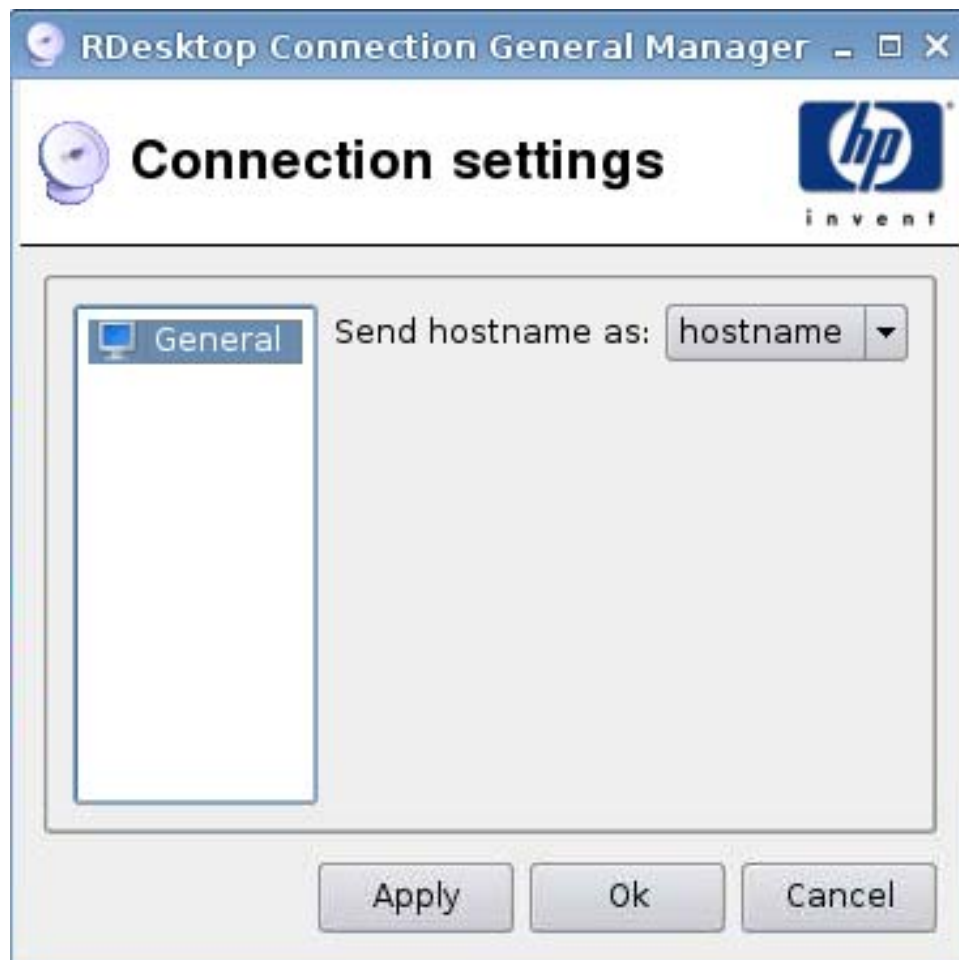
## Keyboard Shortcuts



1. Set the following options:
  - **Handling of keyboard shortcuts**
  - **Stop Direct key handling**
  - **Alt+F1 through F12**
2. Click **Apply** to apply your settings.
3. Click **Ok** when you have finished configuring connecting settings.

## RDP

1. Go to **Connections > General Settings**.
2. Select **RDP** and select the appropriate setting for **Send hostname as**.
3. Click **Apply** to apply your setting.
4. Click **Ok**.



## Add

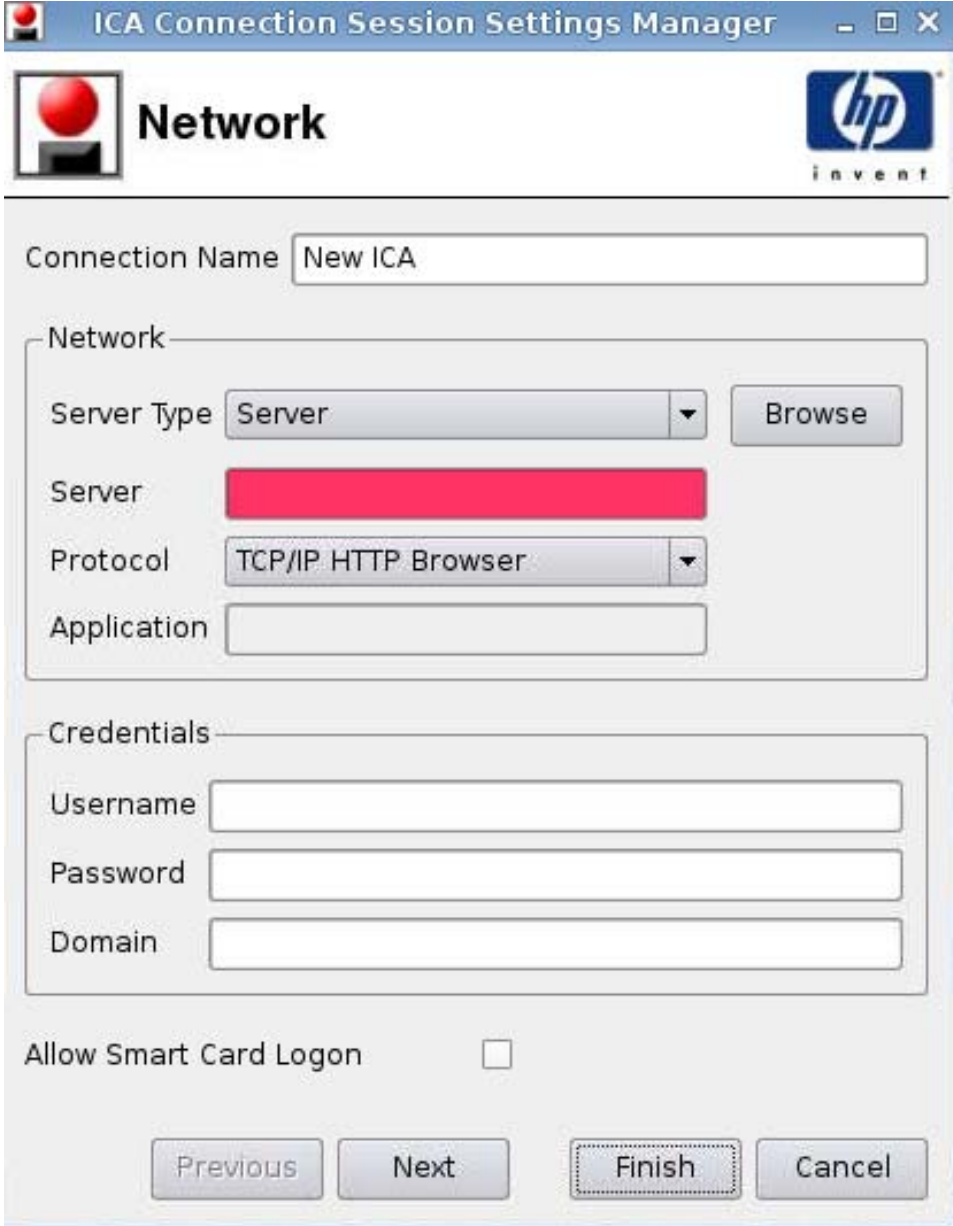
You have the option of adding the following connections:

- [Citrix ICA on page 19](#)
- [RDP on page 30](#)
- [Teemtalk on page 35](#)
- [Firefox on page 41](#)
- [PNAgent on page 43](#)
- [Leostream on page 45](#)
- [Provision on page 47](#)
- [VDM on page 55](#)
- [Xdmcp on page 56](#)
- [SSH on page 58](#)

- [Telnet on page 62](#)
- [Custom on page 64](#)

## Citrix ICA

1. To add a Citrix ICA connection, click **Connections** > **Add**.
2. Select **Citrix ICA** and set the following options:
  - [Network on page 20](#)
  - [Connection on page 22](#)
  - [Window on page 23](#)
  - [Application on page 25](#)
  - [Firewall on page 26](#)
  - [Smart Ping on page 28](#)
  - [Common Settings on page 29](#)



The image shows a screenshot of the 'ICA Connection Session Settings Manager' window, specifically the 'Network' tab. The window has a title bar with the text 'ICA Connection Session Settings Manager' and standard window controls. Below the title bar, there is a header area with a red sphere icon, the word 'Network' in large bold letters, and the HP logo with the word 'invent' below it. The main content area is divided into two sections: 'Network' and 'Credentials'. The 'Network' section contains a 'Connection Name' text box with 'New ICA' entered, a 'Server Type' dropdown menu set to 'Server' with a 'Browse' button next to it, a 'Server' text box with a pink background indicating it is required, a 'Protocol' dropdown menu set to 'TCP/IP HTTP Browser', and an empty 'Application' text box. The 'Credentials' section contains three text boxes for 'Username', 'Password', and 'Domain'. Below these sections is a checkbox labeled 'Allow Smart Card Logon' which is currently unchecked. At the bottom of the window are four buttons: 'Previous', 'Next', 'Finish' (which is highlighted with a dashed border), and 'Cancel'.

ICA Connection Session Settings Manager

**Network**

Connection Name: New ICA

Network

Server Type: Server [Browse]

Server: [Pink field]

Protocol: TCP/IP HTTP Browser

Application: [Empty]

Credentials


Username: [Empty]

Password: [Empty]

Domain: [Empty]

Allow Smart Card Logon: ☐

Previous Next Finish Cancel

 **NOTE:** A pink field indicates required information. You may not finish or advance to a new page without supplying information in this field.

1. Set the following options:
  - **Connection Name**
  - **Network**
    - **Server Type**
    - **Server**

- **Protocol**
    - **Application**
  - **Credentials**
    - **Username**
    - **Password**
    - **Domain**
  - **Allow Smart Card Logon**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Connection



1. Set the following options:
  - **Enable Audio Input**
  - **Use Data Compression**
  - **Enable Middle Button Paste**
  - **Use Disk Cache for Bitmaps**
  - **Enable Drive Mapping**
  - **Sound**
  - **Speed Screen**

- **Mouse Click Feedback**
  - **Local Text Echo**
  - **Encryption Level**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Window

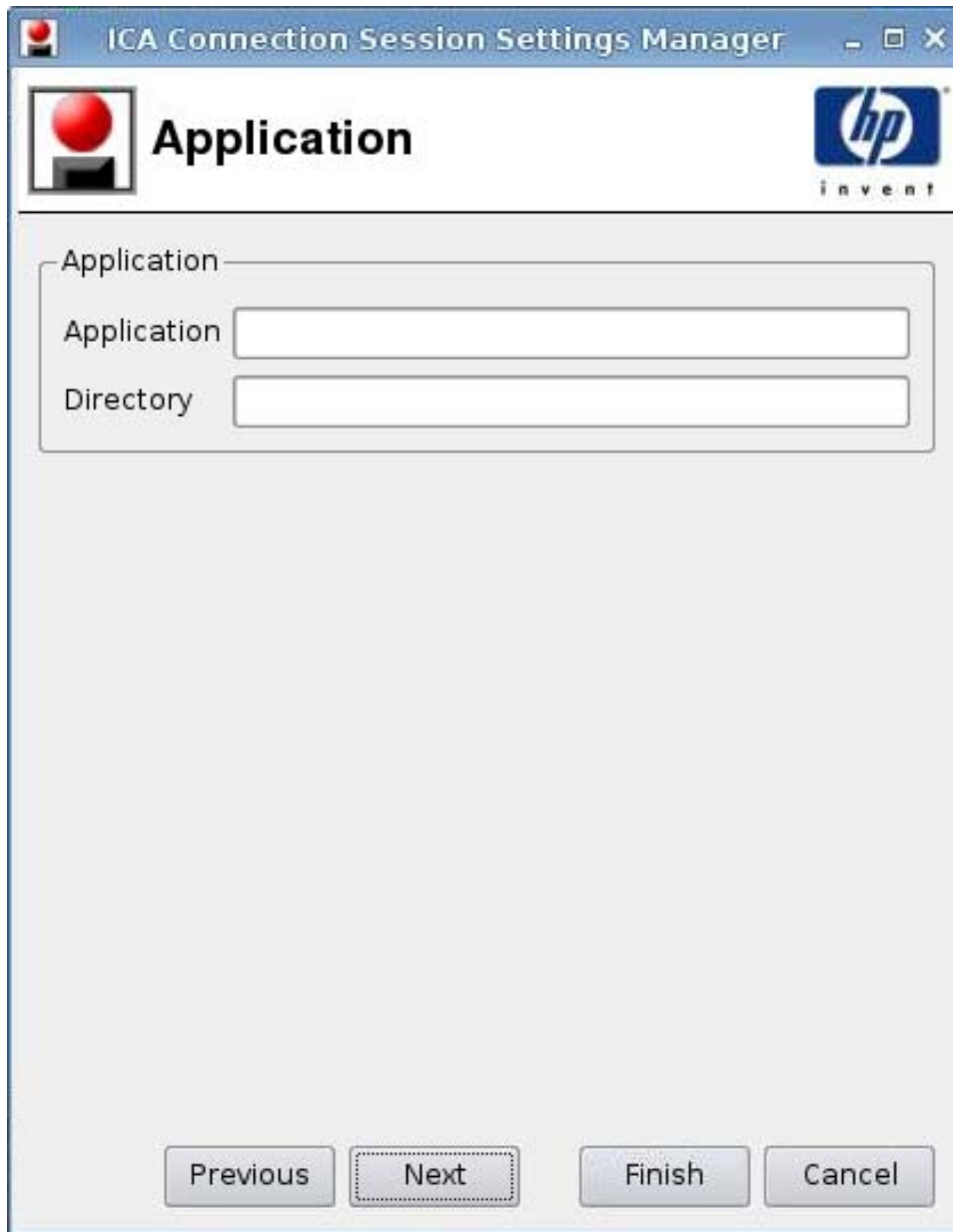


1. Set the following options:
- **Enable Seamless Window**
  - **Window Size**

- **Window Colors**
  - **256 Color Mapping**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.



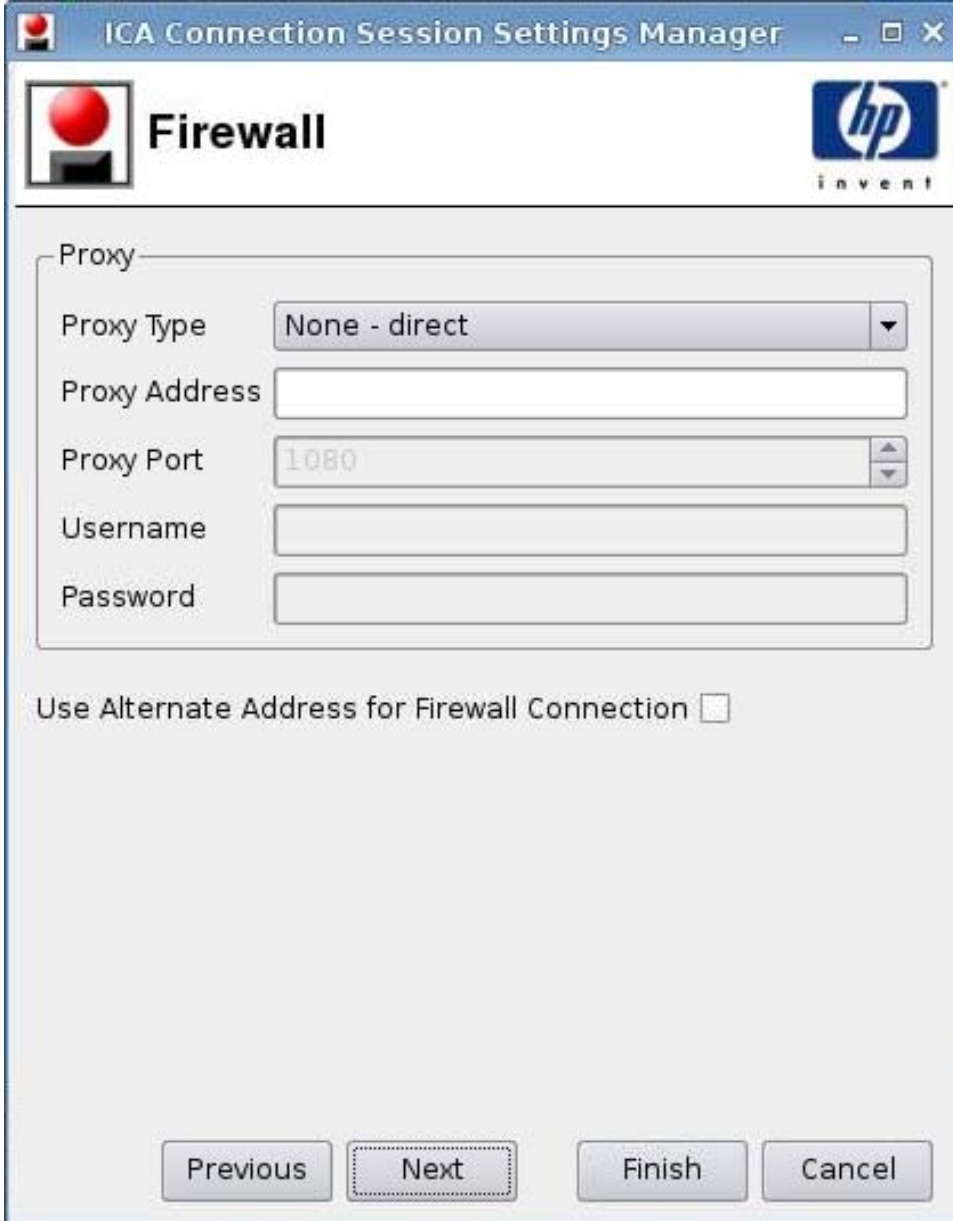
## Application



The image shows a screenshot of the 'ICA Connection Session Settings Manager' window, specifically the 'Application' tab. The window has a title bar with the text 'ICA Connection Session Settings Manager' and standard Windows window controls. Below the title bar, there is a header section with a red sphere icon on the left, the word 'Application' in the center, and the HP logo on the right. The main area of the window contains two input fields: 'Application' and 'Directory', both of which are currently empty. At the bottom of the window, there are four buttons: 'Previous', 'Next', 'Finish', and 'Cancel'. The 'Next' button is highlighted with a dashed border, indicating it is the active or recommended action.

1. Set the following options:
  - **Application**
  - **Directory**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Firewall



The screenshot shows a window titled "ICA Connection Session Settings Manager" with a "Firewall" tab selected. The tab contains a "Proxy" section with the following fields: "Proxy Type" (set to "None - direct"), "Proxy Address" (empty), "Proxy Port" (set to "1080"), "Username" (empty), and "Password" (empty). Below these fields is a checkbox labeled "Use Alternate Address for Firewall Connection" which is unchecked. At the bottom of the window are four buttons: "Previous", "Next" (highlighted with a dashed border), "Finish", and "Cancel". The HP logo is visible in the top right corner of the window.

ICA Connection Session Settings Manager

**Firewall**

Proxy

Proxy Type: None - direct

Proxy Address:

Proxy Port: 1080

Username:

Password:

Use Alternate Address for Firewall Connection ☐

Previous Next Finish Cancel

1. Set the following options:
  - **Proxy**
    - **Proxy Type:** Select a proxy type
    - **Proxy Address:** Type the proxy host name
    - **Proxy Port:** Type the proxy host port

- **Username:** Type the proxy username for the account to use to connect to a remote computer.
  - **Password:** Type a password for the account to use to connect to a remote computer.
  - **Use Alternate Address for Firewall Connection**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Smart Ping




1. Set the following options:
  - **Smart Ping:** Allows you to enable HP ThinPro to ping the server before attempting a connection. If the server name fails to resolve or the server fails to respond to the ping, the thin client aborts the connection attempt.
  - **Smart Ping Port:** Allows you to specify a port for Smart Ping.
  - **Smart Ping Timeout:** Allows you to specify a time period for Smart Ping to keep pinging.
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Common Settings



1. Set the following options:

- **Fallback Connection**
- **Auto start priority**
- **Auto reconnect**
- **Show in user's list**

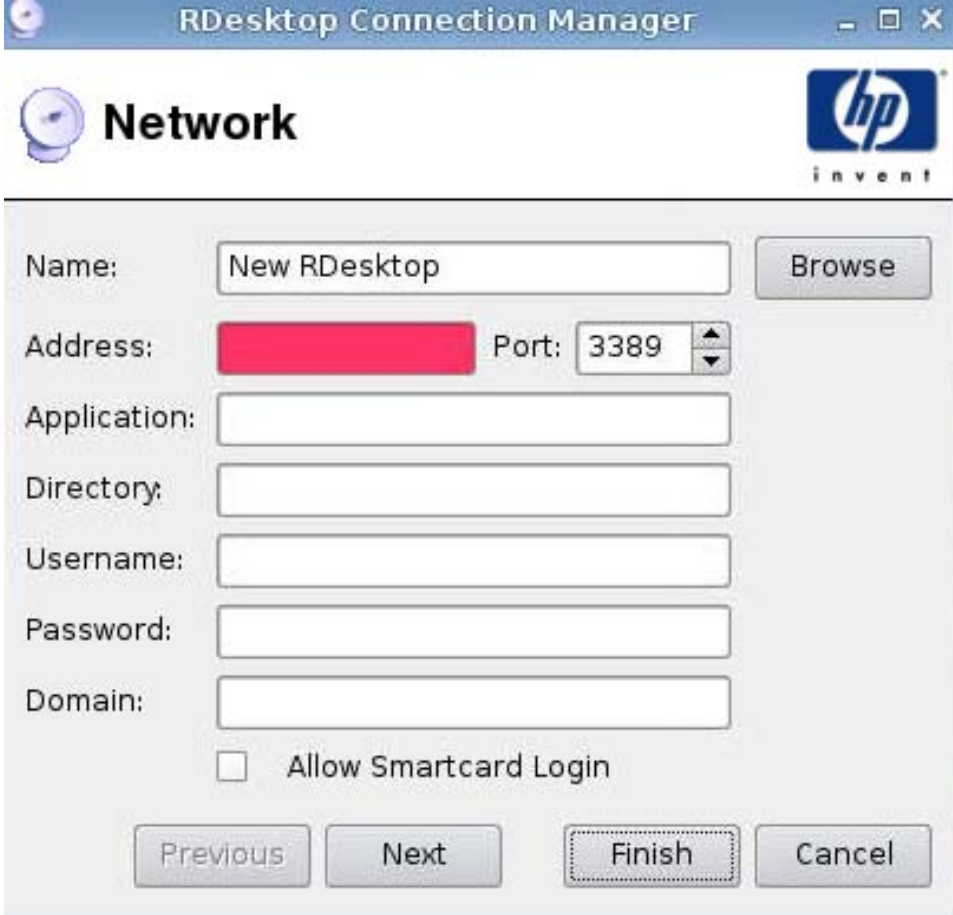
 **NOTE:** This option is only available in the Administrative Mode.

2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## RDP

1. To add an RDP connection, click **Connections > Add**.
2. Select **RDP** and set the following options:
  - [Network on page 30](#)
  - [Window on page 31](#)
  - [Options on page 32](#)
  - [Local Resources on page 33](#)
  - [Experience on page 34](#)
  - [Advanced on page 35](#)

## Network



The screenshot shows the 'RDesktop Connection Manager' window with the 'Network' tab selected. The window has a title bar with standard Windows controls and the HP logo. The main area contains several input fields and buttons. The 'Name' field is set to 'New RDesktop'. The 'Address' field is highlighted in red. The 'Port' is set to 3389. There are buttons for 'Browse', 'Previous', 'Next', 'Finish', and 'Cancel'. A checkbox for 'Allow Smartcard Login' is at the bottom.

Name:	New RDesktop	Browse
Address:	[Redacted]	Port: 3389
Application:		
Directory:		
Username:		
Password:		
Domain:		
<input type="checkbox"/> Allow Smartcard Login		
Previous	Next	Finish
Cancel		

1. Set the following options:
  - **Name**
  - **Address**
  - **Port**

- **Application**
  - **Directory**
  - **Username**
  - **Password**
  - **Domain**
  - **Allow Smartcard Login**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Window

The screenshot shows the 'Window' configuration window within the RDesktop Connection Manager. The window title is 'RDesktop Connection Manager'. The main heading is 'Window'. There are four main sections: 'Window type' with a dropdown set to 'full'; 'Percentage Size' with a spinner set to 85%; 'Fixed Size' with 'Width' set to 800 and 'Height' set to 600; and 'Window colors' with a dropdown set to 'auto'. At the bottom, there are four buttons: 'Previous', 'Next' (which is highlighted with a dashed border), 'Finish', and 'Cancel'. The HP logo is visible in the top right corner.

1. Set the following options:
- **Window type**
    - **Percentage Size**
    - **Fixed Size**
      - Width

—Height

- **Window colors**

2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Options



1. Set the following options:
  - **Enable motion events**
  - **Enable data compression**
  - **Enable encryption**
  - **Force bitmap updates**
  - **Use private colormap**
  - **System beep**
  - **Attach to console**



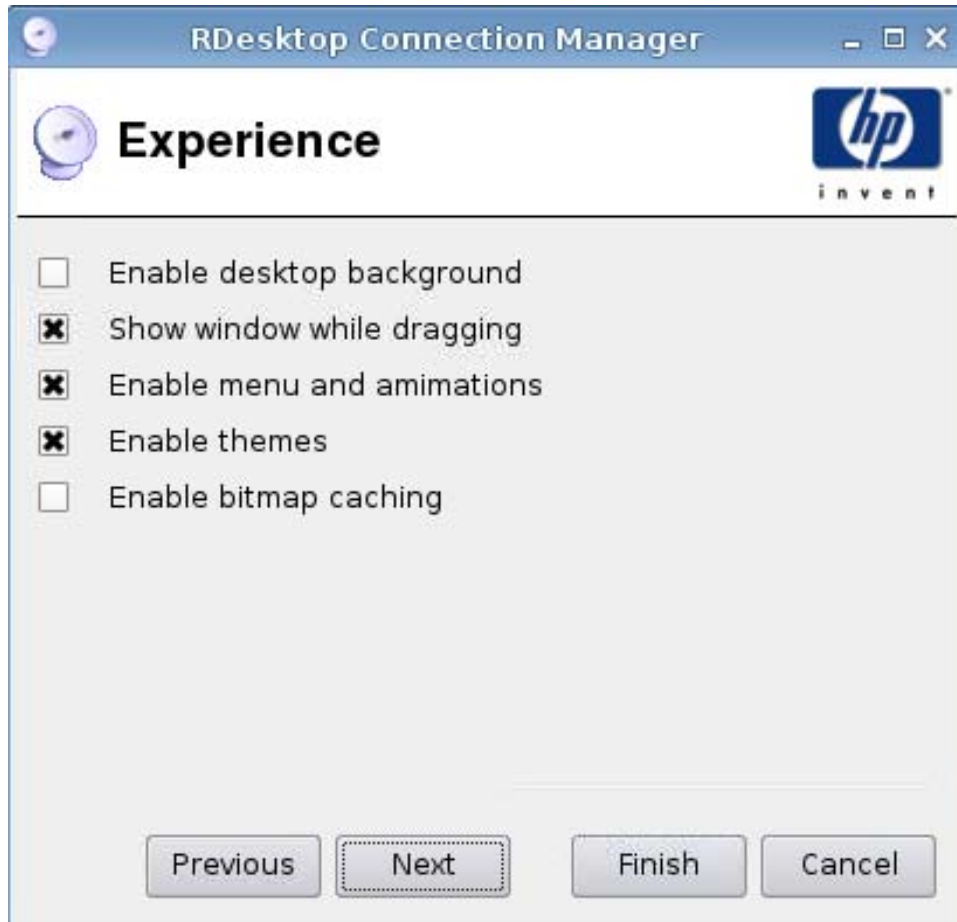
- **Protocol level**
  - **Hostname to send**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Local Resources



1. Set the following options:
  - **Sound redirecting**
    - **Enable sound redirecting**
  - **Devices mapping**
    - **Enable USB storage mapping**
    - **Enable serial port mapping**
    - **Enable printer mapping**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Experience



1. Set the following options:
  - **Enable desktop background**
  - **Show window while dragging**
  - **Enable menu and animations**
  - **Enable themes**
  - **Enable bitmap caching**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Advanced



1. Set the following options:

- **Fallback Connection**
- **Auto start priority**
- **Auto reconnect**
- **Show in user's list**



**NOTE:** This option is only available in the Administrative Mode.

2. Click **Finish** save your settings and close the dialog box.

## Teemtalk

You can add a new Teemtalk connection in two ways:

- [Adding a Teemtalk Connection using the Teemtalk Creation Wizard on page 36](#)
- [Adding a Teemtalk Connection Manually on page 39](#)

For more information on Teemtalk, see *HP TeemTalk Terminal Emulator 7.0 User Guide* at <http://bizsupport.austin.hp.com/bc/docs/support/SupportManual/c01534810/c01534810.pdf>.



#### Adding a Teemtalk Connection using the Teemtalk Creation Wizard

1. To add a Teemtalk connection using the wizard, click **Connections > Add**.
2. Select **Teemtalk** and click **Teemtalk creation wizard**.

## Connection Information



The image shows a screenshot of the 'TeemTalk Session Wizard - Step 1 of 3' window. The window has a title bar with the TeemTalk logo and standard window controls. Below the title bar is a header area with the TeemTalk logo and the title 'Connection Information'. The main area contains four input fields: 'Session Name' (a text box), 'Transport' (a dropdown menu with 'SSH2' selected), 'Connection' (a dropdown menu with 'Telnet' selected), and 'Emulation' (a dropdown menu with 'IBM 3151' selected). Each dropdown menu has a 'Configure' button next to it. At the bottom of the window are three buttons: '<Back', 'Next>', and 'Cancel'.

TeemTalk Session Wizard - Step 1 of 3

**Connection Information**

Session Name:

Transport: SSH2

Connection: Telnet

Emulation: IBM 3151

<Back Next> Cancel

1. Select and configure the **Connection Information**:
  - **Session Name**
  - **Transport** type
  - **Connection** type
  - **Emulation** type
2. Click **Next**.



1. Set the **Advanced Options**:

- **Auto Logon**
- **Key Macros**
- **Mouse Actions**
- **Soft Buttons**
- **Attributes**

2. Click **Next**.

## Finalization



1. Select whether or not to create an icon on the desktop and click **OK**.
2. Click **Finish** to save your settings and close the dialog box.

## Adding a Teemtalk Connection Manually

1. To add a Teemtalk connection manually, click **Connections > Add**.
2. Select **Teemtalk** and set the following options:
  - Configuration
  - Advanced

## Configuration



1. Set the following option:
  - **Name**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.




## Advanced



1. Set the following options:

- **Fallback Connection**
- **Auto start priority**
- **Auto reconnect**
- **Show in user's list**

 **NOTE:** This option is only available in the Administrative Mode.

2. Click **Finish** save your settings and close the dialog box.

## Firefox

1. To add a connection, click **Connections > Add**.
2. Select **Firefox** and set the following options:
  - [Configuration on page 42](#)
  - [Advanced on page 43](#)

## Configuration



Firefox Connection Manager

**Configuration**

Name:

URL:

☐ Enable full screen

☐ Enable kiosk mode

☐ Enable print dialog


1. Set the following options:
  - **Name**
  - **URL**
  - **Enable full screen**
  - **Enable kiosk**
  - **Enable print dialog**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Advanced



1. Set the following options:

- **Fallback Connection**
- **Auto start priority**
- **Auto reconnect**
- **Show in user's list**

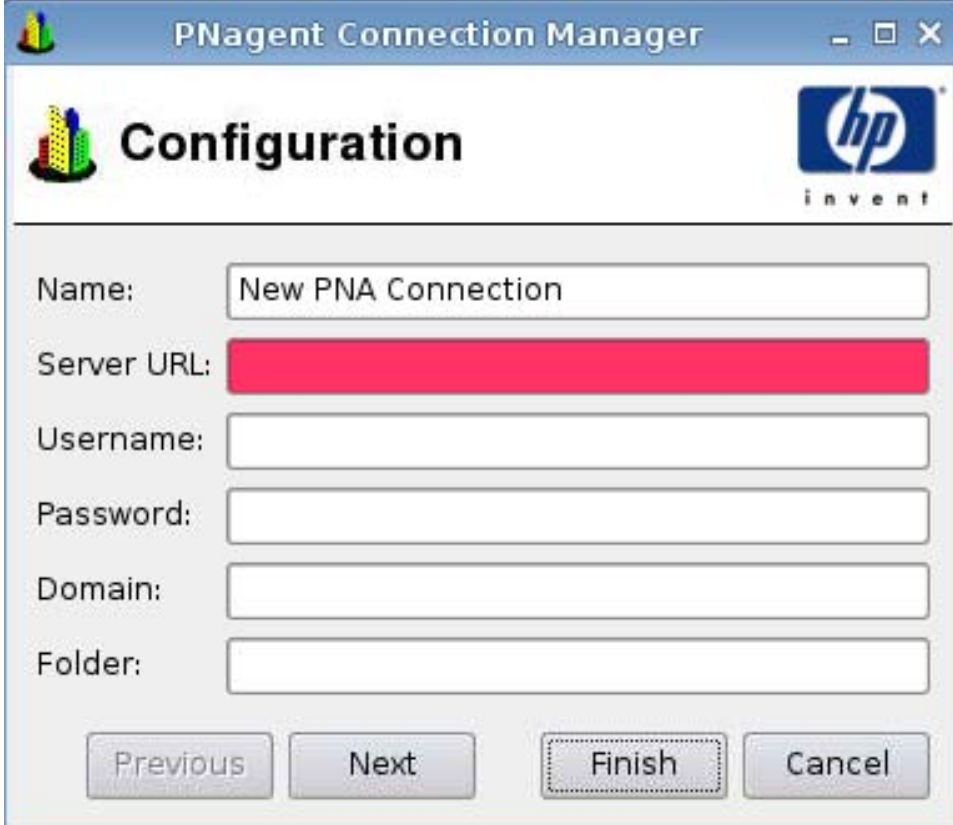
 **NOTE:** This option is only available in the Administrative Mode.

2. Click **Finish** save your settings and close the dialog box.

## PNAgent

1. To add a PNAgent connection, click **Connections > Add**.
2. Select **PNAgent** and set the following options:
  - [Configuration on page 44](#)
  - [Advanced on page 45](#)

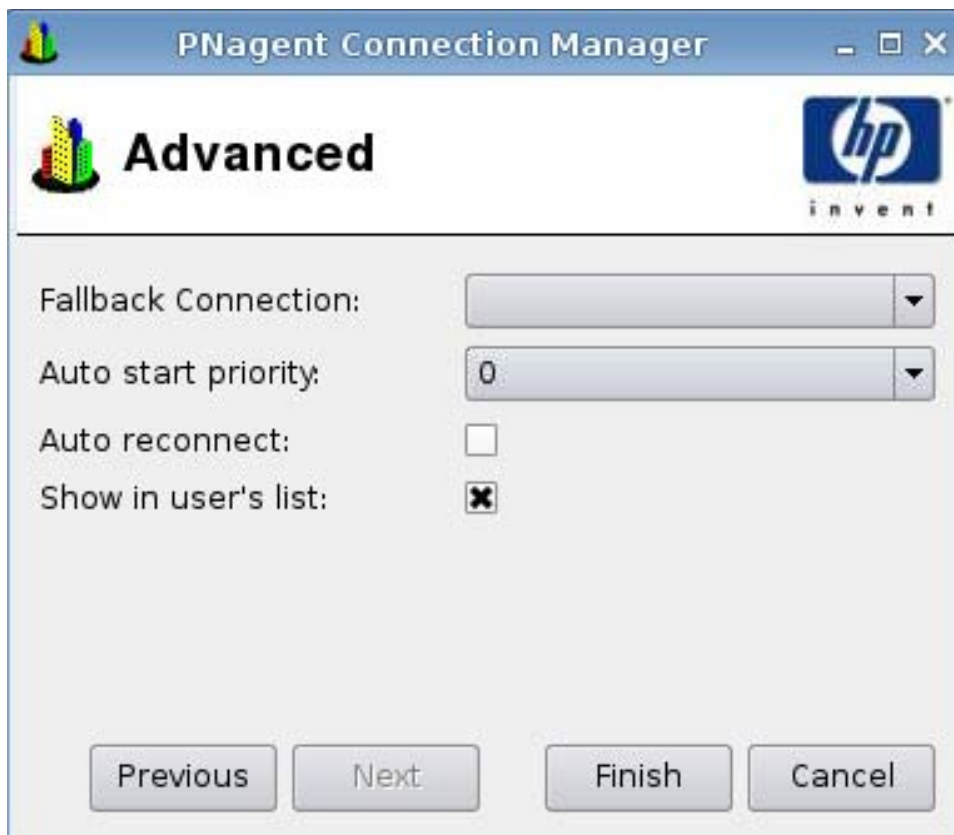
## Configuration




The image shows a Windows-style dialog box titled "PNagent Connection Manager". Inside the dialog, there is a section titled "Configuration" with the HP logo and the word "invent" below it. The configuration section contains several input fields: "Name:" with the text "New PNA Connection", "Server URL:" with a redacted field, "Username:", "Password:", "Domain:", and "Folder:". At the bottom of the dialog, there are four buttons: "Previous", "Next", "Finish" (which is highlighted with a dashed border), and "Cancel".

1. Set the following options:
  - **Name**
  - **Server URL**
  - **Username**
  - **Password**
  - **Domain**
  - **Folder**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Advanced




1. Set the following options:
  - **Fallback Connection**
  - **Auto start priority**
  - **Auto reconnect**
  - **Show in user's list**

 **NOTE:** This option is only available in the Administrative Mode.

2. Click **Finish** save your settings and close the dialog box.

## Leostream

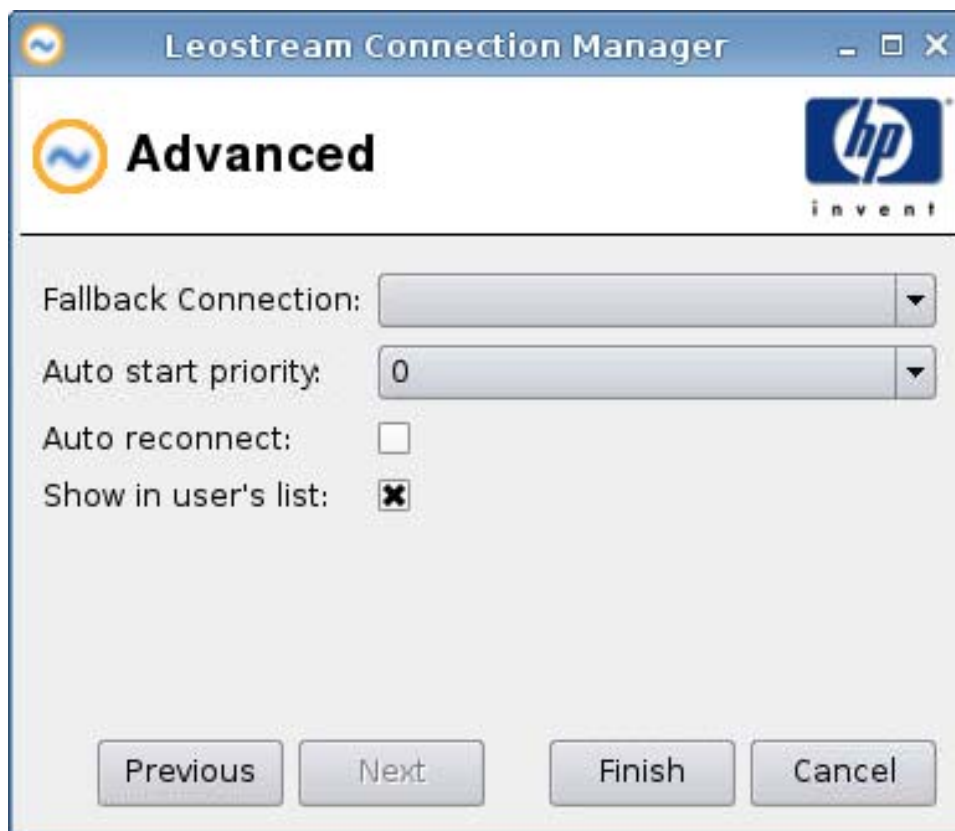
1. To add a Leostream connection, click **Connections > Add**.
2. Select **Leostream** and set the following options:
  - [Network on page 46](#)
  - [Advanced on page 47](#)



The screenshot shows a Windows-style dialog box titled "Leostream Connection Manager". Inside the dialog, there is a section titled "Network" with the HP logo and the word "invent" below it. The "Network" section contains several input fields: "Name:" with the text "New Leostream", "Broker:" with a redacted field, "Username:", "Password:", "Domain:", and "Folder:". At the bottom of the dialog, there are four buttons: "Previous", "Next", "Finish" (which is highlighted with a dashed border), and "Cancel".


1. Set the following options:
  - **Name**
  - **Broker**
  - **Username**
  - **Password**
  - **Domain**
  - **Folder**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Advanced



1. Set the following options:

- **Fallback Connection**
- **Auto start priority**
- **Auto reconnect**
- **Show in user's list**

 **NOTE:** This option is only available in the Administrative Mode.

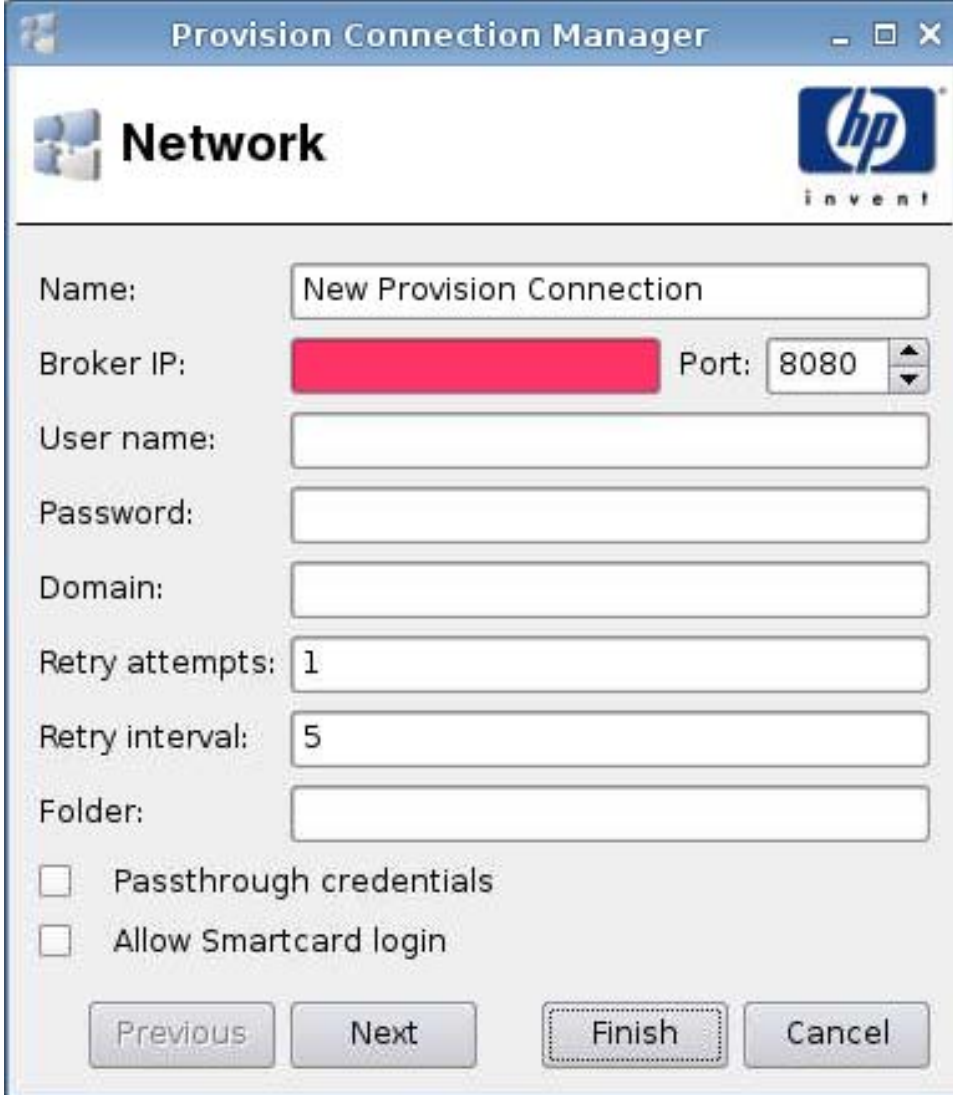
2. Click **Finish** save your settings and close the dialog box.

## Provision

1. To add a Provision connection, click **Connections > Add**.
2. Select **Provision** and set the following options:
  - [Network on page 48](#)
  - [Window on page 49](#)
  - [Options on page 50](#)
  - [Local Resources on page 52](#)


- [Experience on page 53](#)
- [Advanced on page 54](#)

## Network



The screenshot shows the 'Provision Connection Manager' window with the 'Network' tab selected. The window has a blue title bar and a header area with a network icon, the word 'Network', and the HP logo with 'invent' text. The main area contains several input fields and checkboxes. The 'Name' field is filled with 'New Provision Connection'. The 'Broker IP' field is redacted with a pink box, and the 'Port' is set to '8080'. The 'User name', 'Password', 'Domain', and 'Folder' fields are empty. 'Retry attempts' is set to '1' and 'Retry interval' is set to '5'. Two checkboxes, 'Passthrough credentials' and 'Allow Smartcard login', are unchecked. At the bottom are four buttons: 'Previous', 'Next', 'Finish' (highlighted with a dashed border), and 'Cancel'.

Provision Connection Manager

**Network**  invent

Name:

Broker IP:  Port:

User name:

Password:

Domain:

Retry attempts:

Retry interval:

Folder:

☐ Passthrough credentials

☐ Allow Smartcard login

1. Set the following options:

- **Name**
- **Broker IP**
- **User name**
- **Password**
- **Domain**
- **Retry attempts**
- **Retry interval**



- **Folder**
  - **Passthrough credentials**
  - **Allow Smartcard login**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Window

The screenshot shows a Windows-style dialog box titled "Provision Connection Manager" with a subtitle "Window" and the HP logo. The dialog is used for configuring window settings. It includes a "Window size" dropdown set to "full", a "Window Size" section with "Width" (800) and "Height" (600) spinners, a "Percentage" spinner set to 85, and a "Window Colors" dropdown set to 16. Navigation buttons at the bottom are "Previous", "Next", "Finish", and "Cancel".

1. Set the following options:
- **Window size**
  - **Window Size**
    - **Width**
    - **Height**

- **Percentage**
  - **Window Colors**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Options



The screenshot shows the 'Provision Connection Manager' window with the 'Options' tab selected. The window has a blue title bar and a header area with the HP logo and the word 'invent'. The main area contains a list of options with checkboxes. The 'Next' button is highlighted with a dashed border.

**Provision Connection Manager**

**Options**

☒ Enable motion events

☒ Enable data compression

☒ Enable encryption

☒ Force bitmap updates

☒ Use private colormap

☒ System beep

☐ Attach to console

Protocol level:

Hostname to send:

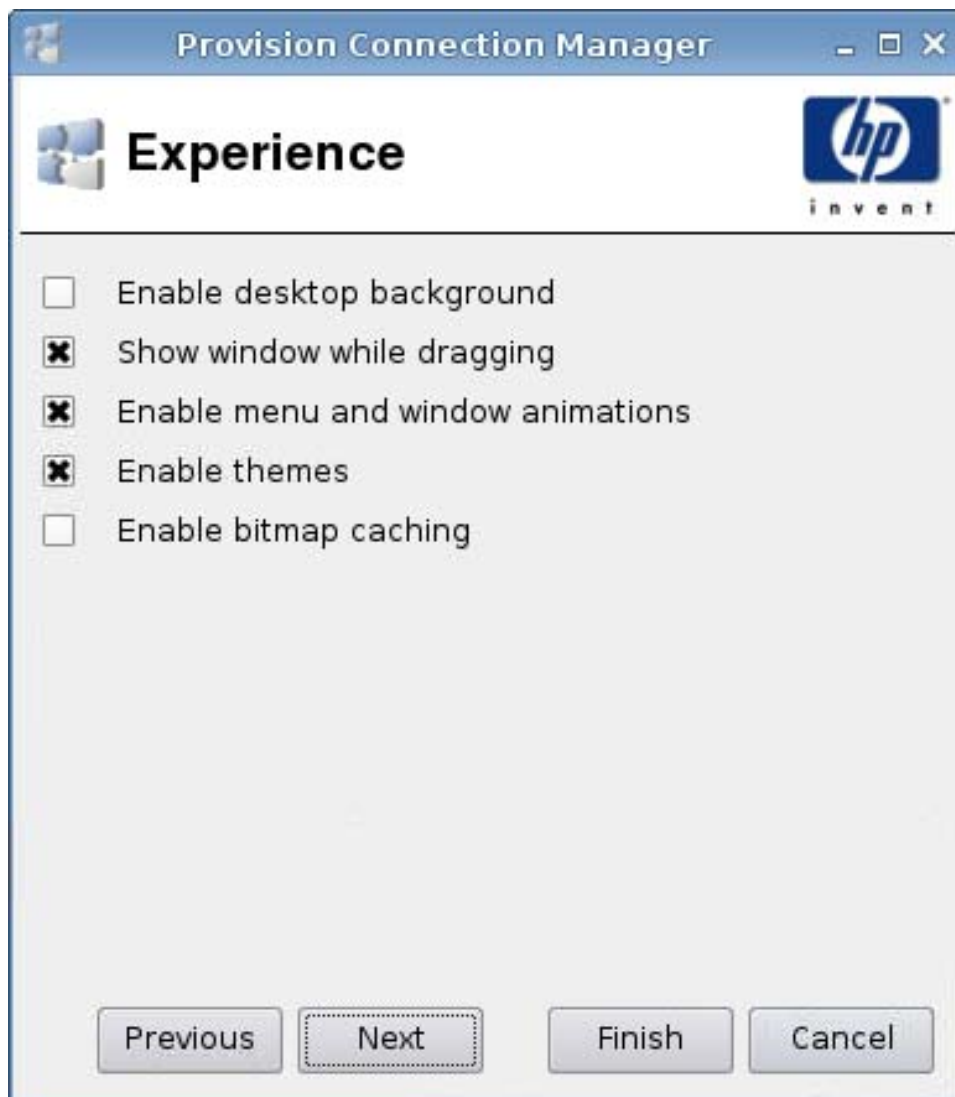
1. Set the following options:
- **Enable motion events**
  - **Enable data compression**
  - **Enable encryption**
  - **Force bitmap updates**
  - **Use private colormap**

- **System beep**
  - **Attach to console**
  - **Protocol level**
  - **Hostname to send**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.



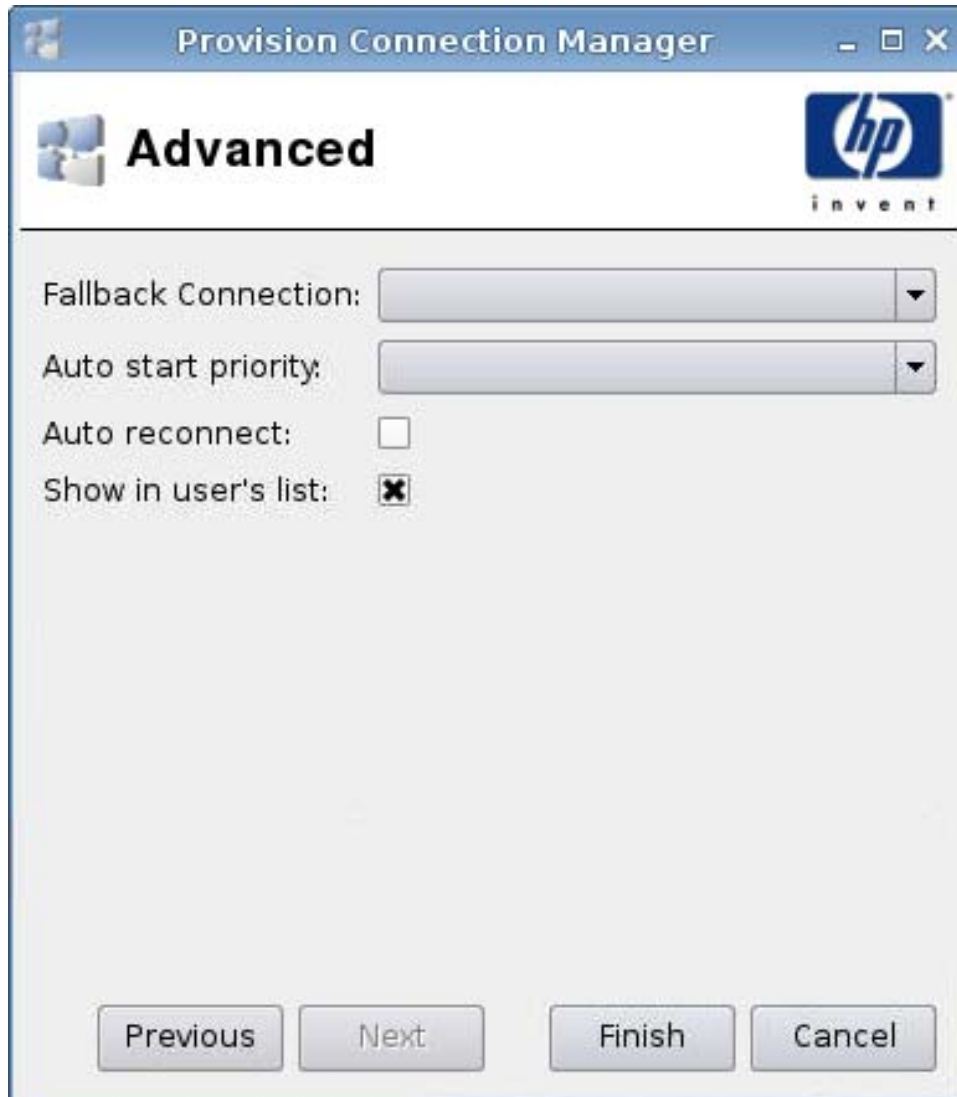
1. Set the following options:
  - **Sound**
    - **Redirect sound**
  - **Devices**
    - **Enable drive mapping**
    - **Map serial ports**
    - **Enable printer autocreation**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Experience




1. Set the following options:
  - **Enable desktop background**
  - **Show window while dragging**
  - **Enable menu and window animations**
  - **Enable themes**
  - **Enable bitmap caching**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Advanced



1. Set the following options:
  - **Fallback Connection**
  - **Auto start priority**
  - **Auto reconnect**
  - **Show in user's list**

 **NOTE:** This option is only available in the Administrative Mode.

2. Click **Finish** save your settings and close the dialog box.

## VDM

1. To add a VDM connection, click **Connections > Add**.
2. Select **VDM** and set the following options:
  - [Network on page 55](#)
  - [Advanced on page 56](#)

## Network



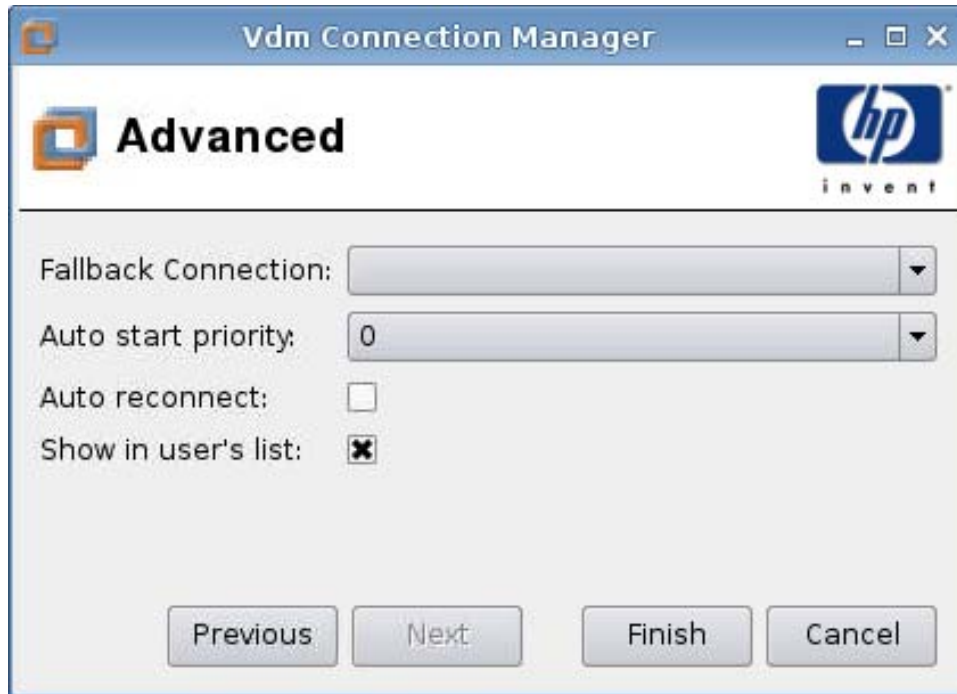
The screenshot shows a window titled "Vdm Connection Manager" with a "Network" tab selected. The window contains the following fields and buttons:

- Name:** A text box containing "New Vdm".
- Broker:** A text box containing "https://".
- Username:** An empty text box.
- Password:** An empty text box.
- Domain:** An empty text box.
- Buttons:** "Previous", "Next", "Finish" (highlighted with a dashed border), and "Cancel".

The HP logo and "invent" text are visible in the top right corner of the window.


1. Set the following options:
  - **Name**
  - **Broker**
  - **Username**
  - **Password**
  - **Domain** (case-sensitive)
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Advanced



1. Set the following options:

- **Fallback Connection**
- **Auto start priority**
- **Auto reconnect**
- **Show in user's list**

 **NOTE:** This option is only available in the Administrative Mode.

2. Click **Finish** save your settings and close the dialog box.

## Xdmcp

1. To add an Xdmcp connection, click **Connections > Add**.
2. Select **Xdmcp** and set the following options:
  - [Configuration on page 57](#)
  - [Advanced on page 58](#)



## Configuration



The image shows a window titled "Xdmcp Connection Manager" with a standard Linux window control bar. Inside the window, there is a header section with the X logo and the word "Configuration" on the left, and the HP logo with the word "invent" on the right. Below the header, there are several input fields and a checkbox. The "Name" field contains "New Xdmcp". The "Type" dropdown menu is set to "chooser". The "Address" field is empty. Below these, there is a section titled "Font Server" which contains a checkbox labeled "Use font server:" which is unchecked, and a text field labeled "Font server:" which is also empty. At the bottom of the window, there are four buttons: "Previous", "Next", "Finish" (which is highlighted with a dashed border), and "Cancel".

Xdmcp Connection Manager

**Configuration**

hp  
invent

Name: New Xdmcp

Type: chooser

Address:

Font Server

Use font server: ☐

Font server:

Previous Next Finish Cancel

1. Set the following options:
  - **Name**
  - **Type**
  - **Address** (required if the **Type** is **query**)
  - **Font Server**
    - **Use font server**
    - **Font server**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Advanced



1. Set the following options:

- **Fallback Connection**
- **Auto start priority**
- **Auto reconnect**
- **Show in user's list**



**NOTE:** This option is only available in the Administrative Mode.

2. Click **Finish** save your settings and close the dialog box.

## SSH

1. To add an SSH connection, click **Connections > Add**.
2. Select **SSH** and set the following options:
  - [Configuration on page 59](#)
  - [Advanced on page 61](#)

## Configuration

**Ssh Connection Manager**

**Configuration**

Name:

**Network**

Address:  Port:

User name:

Run application:

**Options**

- ☐ Compression
- ☐ X11 connection forwarding
- ☐ Force TTY allocation
- ☐ Fork into background

**Style**

Foreground color:

Background color:

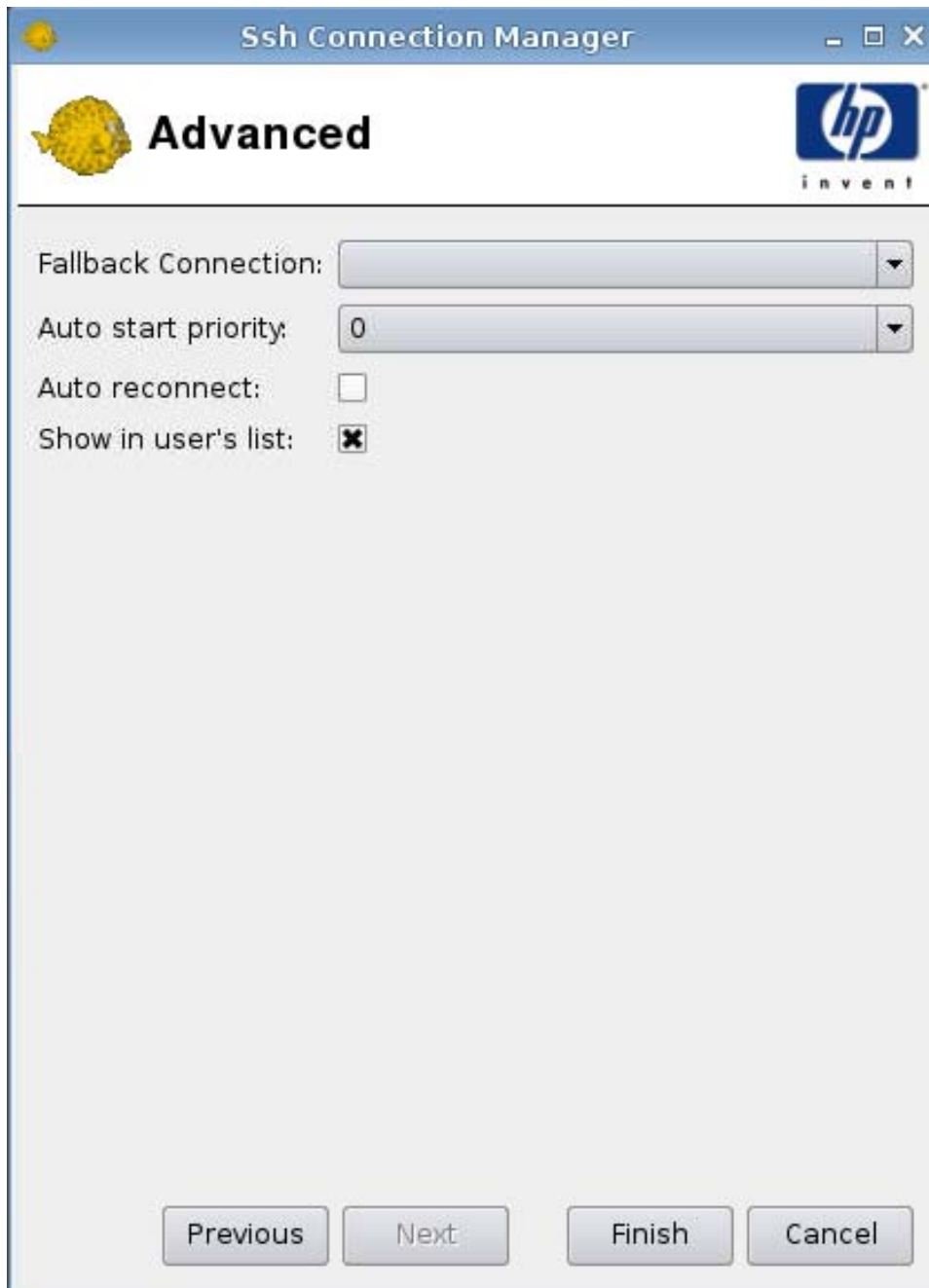
Font:

1. Set the following options:

- **Name**
- **Network**
  - **Address**
  - **Port**

- **User name**
    - **Run application**
  - **Options**
    - **Compression**
    - **X11 connection forwarding**
    - **Force TTY allocation**
    - **Fork into background**
  - **Style**
    - **Foreground color**
    - **Background color**
    - **Font**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

## Advanced



The screenshot shows the 'Ssh Connection Manager' window with the 'Advanced' tab selected. The window has a blue title bar and a header area with a yellow gear icon, the word 'Advanced', and the HP logo. The main area contains four settings: 'Fallback Connection' (a dropdown menu), 'Auto start priority' (a dropdown menu showing '0'), 'Auto reconnect' (an unchecked checkbox), and 'Show in user's list' (a checked checkbox with an 'x' icon). At the bottom, there are four buttons: 'Previous', 'Next', 'Finish', and 'Cancel'.

Ssh Connection Manager

**Advanced**

Fallback Connection:


Auto start priority:

Auto reconnect: ☐

Show in user's list: ☒

Previous Next Finish Cancel

1. Set the following options:
  - **Fallback Connection**
  - **Auto start priority**
  - **Auto reconnect**
  - **Show in user's list**

 **NOTE:** This option is only available in the Administrative Mode.

2. Click **Finish** save your settings and close the dialog box.

## Telnet

1. To add a Telnet connection, click **Connections > Add**.
2. Select **Telnet** and set the following options:
  - [Configuration on page 62](#)
  - [Advanced on page 63](#)

## Configuration



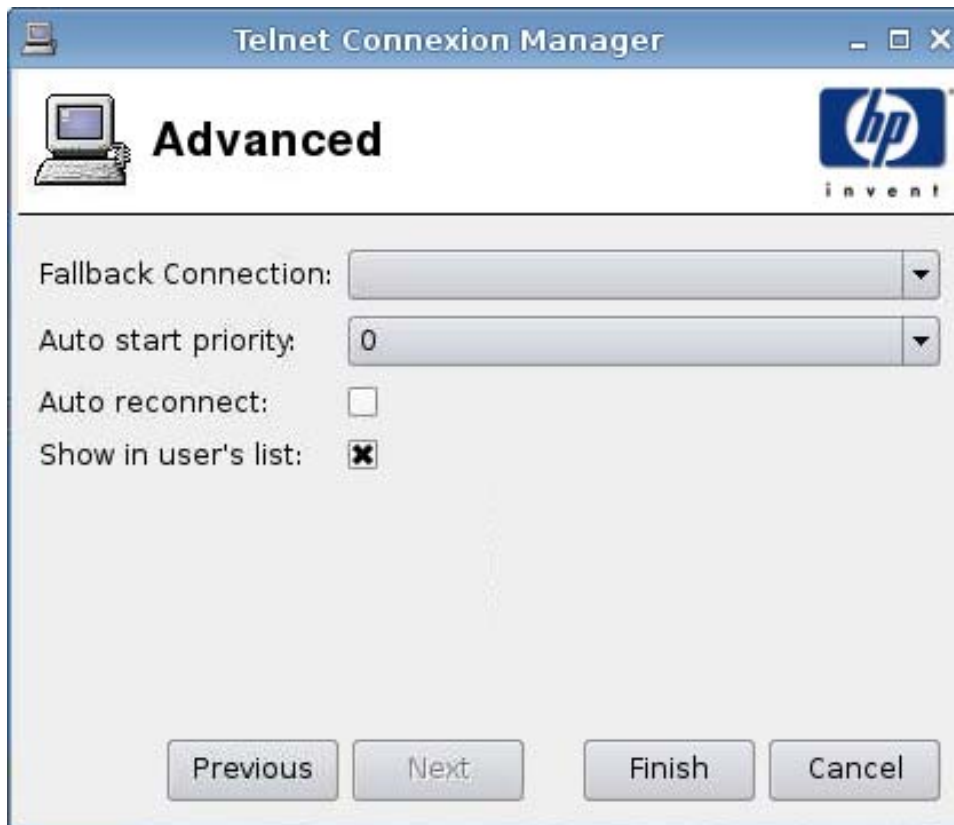
The image shows a Windows-style dialog box titled "Telnet Connexion Manager". Inside, there is a section titled "Configuration" with the HP logo. The dialog contains the following fields and controls:

- Name:** A text box containing "New Telnet".
- Address:** A text box with a red background, currently empty.
- Port:** A spinner box set to "23".
- Style:** A group box containing three settings:
  - Foreground color:** A dropdown menu set to "black".
  - Background color:** A dropdown menu set to "white".
  - Font:** A dropdown menu set to "7x14".
- Buttons:** At the bottom, there are four buttons: "Previous", "Next", "Finish" (which is highlighted with a dashed border), and "Cancel".


1. Set the following options:
  - **Name**
  - **Address**

- **Port**
  - **Style**
    - **Foreground color**
    - **Background color**
    - **Font**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

### Advanced



1. Set the following options:
- **Fallback Connection**
  - **Auto start priority**
  - **Auto reconnect**
  - **Show in user's list**


 **NOTE:** This option is only available in the Administrative Mode.

2. Click **Finish** save your settings and close the dialog box.

## Custom

1. To add a Custom connection, click **Connections > Add**.
2. Select **Custom** and set the following option:
  - [Configuration on page 64](#)

## Configuration

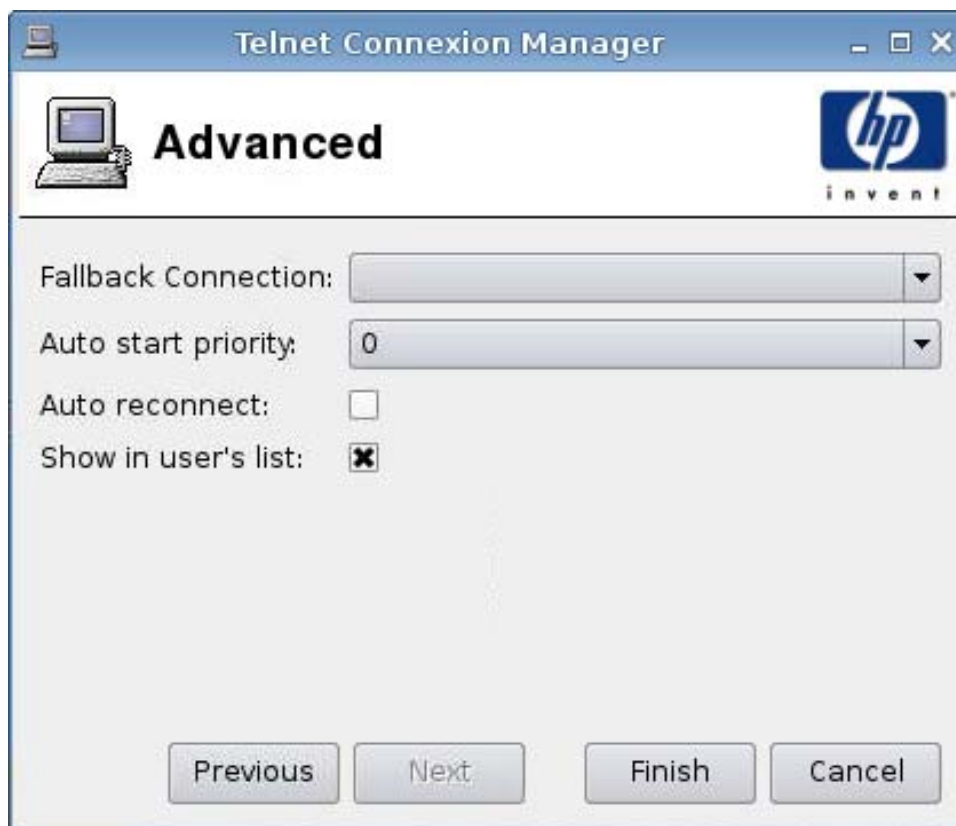


The screenshot shows a Windows-style dialog box titled "Custom Script Connection Manager". Inside, there is a section titled "Configuration" with the HP logo. Below the title, there is a text field labeled "Name:" containing the text "New Custom Connection". Underneath this is a label "Enter command to run" followed by a large, empty text area for entering a command. At the bottom of the dialog, there are four buttons: "Previous", "Next", "Finish" (which is highlighted with a dashed border), and "Cancel".

1. Set the following options:
  - **Name**
  - **Enter command to run**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.




## Advanced



1. Set the following options:

- **Fallback Connection**
- **Auto start priority**
- **Auto reconnect**
- **Show in user's list**

 **NOTE:** This option is only available in the Administrative Mode.

2. Click **Finish** save your settings and close the dialog box.

## Copy

- ▲ To copy a connection, click a selection under **Connection Name** and then click **Copy**.  
A copy of the connection appears in the list under **Connection Name**.

## Delete

- ▲ To delete a connection, click a selection under **Connection Name** and then click **Delete**.  
The connection is removed from the list under **Connection Name**.

## Edit

1. To edit a connection, click a selection under **Connection Name** and then click **Edit**.  
The connection settings window for that connection opens.
2. Edit the connection and click **Apply**.
3. Click **Ok**.

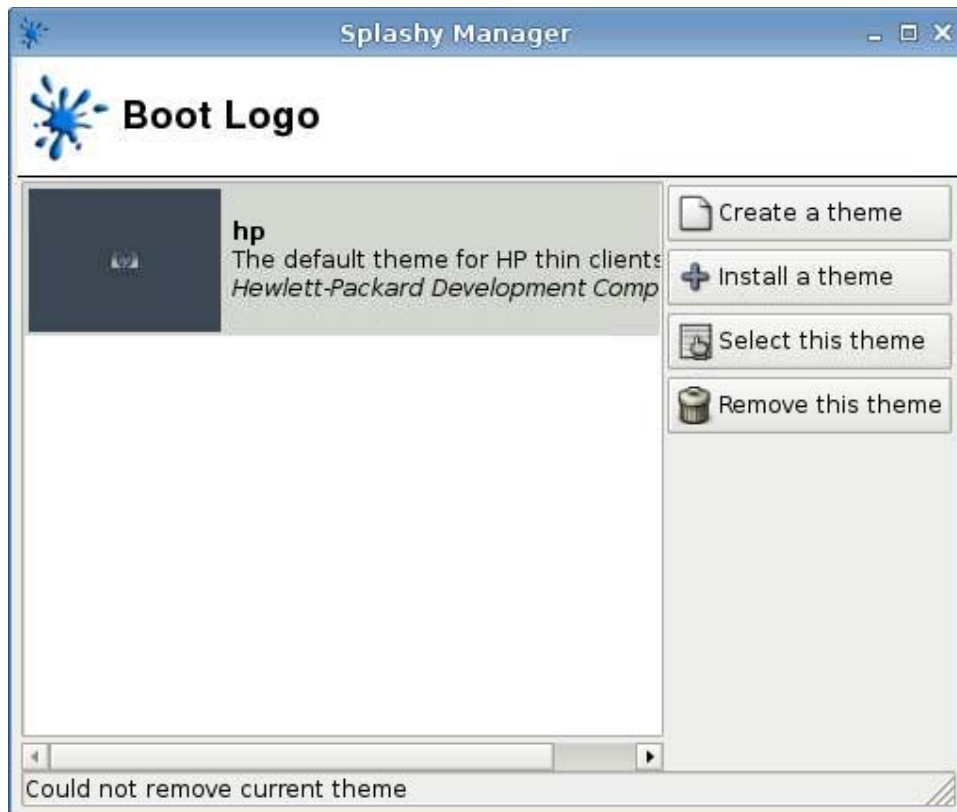
# Control Panel



- [Boot Logo on page 68](#)
- [HP Agent Config on page 71](#)
- [Altiris Configuration on page 72](#)
- [Date and Time on page 73](#)
- [Desktop Background on page 74](#)
- [Display Preferences on page 75](#)
- [ezUpdate on page 76](#)
- [Language on page 80](#)
- [Network on page 81](#)
- [Printer on page 85](#)
- [Profile Manager on page 89](#)
- [Screensaver on page 90](#)
- [Security on page 92](#)
- [ThinPrint on page 93](#)
- [HP ThinState Utility on page 93](#)
- [Touch Screen on page 100](#)

- [Software Update on page 100](#)
- [User Permissions on page 101](#)
- [Shadowing on page 102](#)
- [Keyboard on page 103](#)
- [Sound on page 104](#)
- [Mouse on page 105](#)
- [Window Manager on page 106](#)

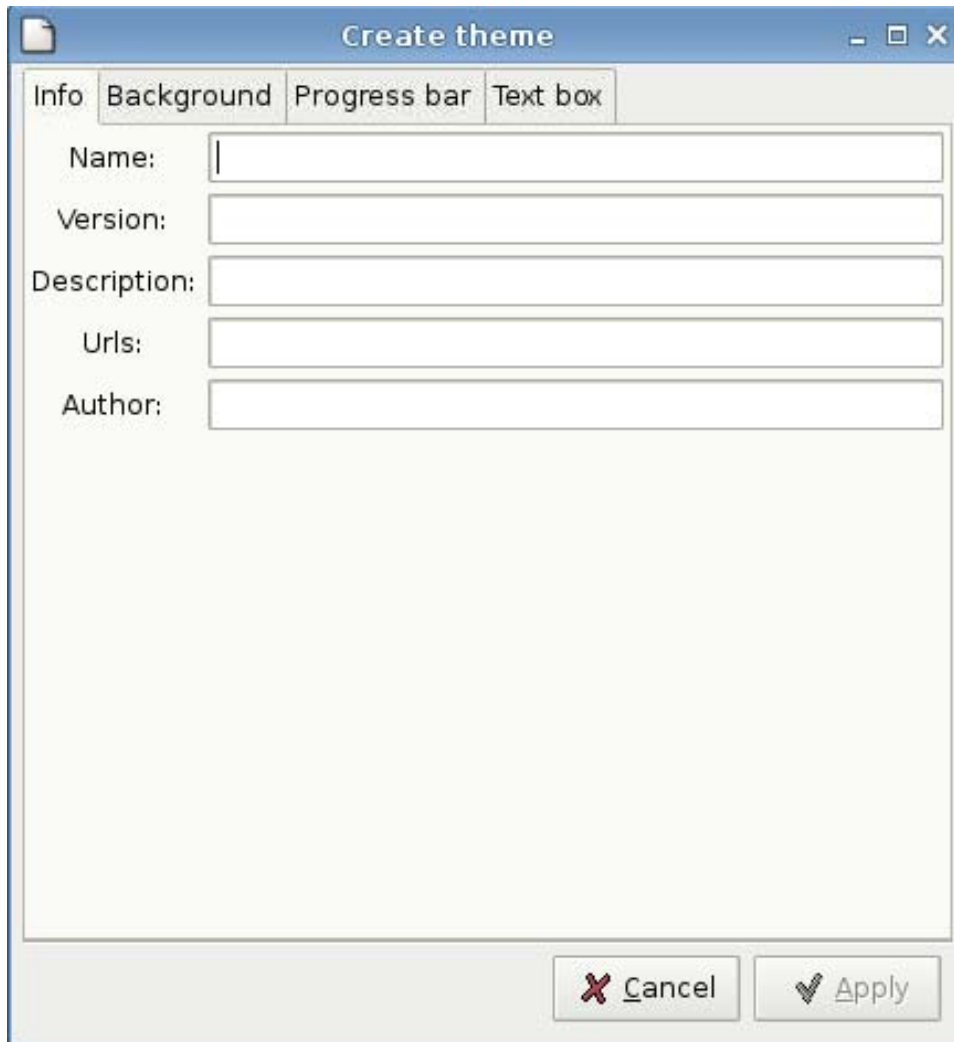
## Boot Logo



This feature allows you to design and select boot logo themes.

 **NOTE:** Theme files must be .png files.

## Create a Theme



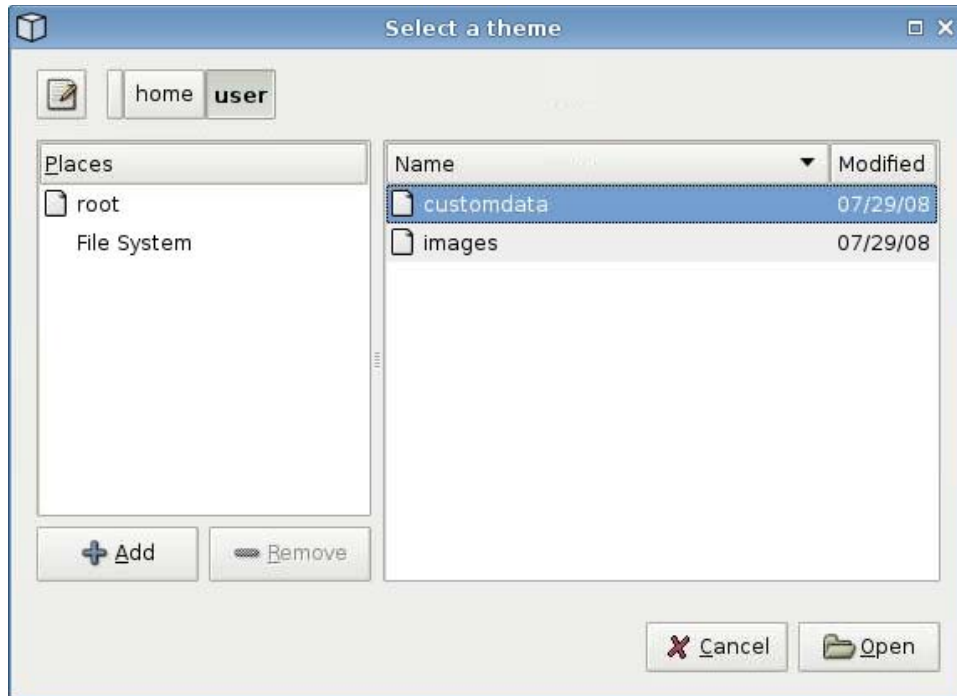
The image shows a Windows-style dialog box titled "Create theme". It has four tabs: "Info", "Background", "Progress bar", and "Text box". The "Info" tab is currently selected. Inside the "Info" tab, there are five text input fields with labels: "Name:", "Version:", "Description:", "Urls:", and "Author:". Each field is empty. At the bottom right of the dialog, there are two buttons: "Cancel" (with a red 'X' icon) and "Apply" (with a green checkmark icon).

To create a theme:

▲ Click **Control Panel > Boot Logo > Create a theme**.

Use the **Info**, **Background**, **Progress bar**, and **Text box** tabs to identify and create a theme.

## Install a Theme



To install a theme:

- ▲ Click **Control Panel > Boot Logo > Install a theme.**

## Select this Theme

To select a theme:

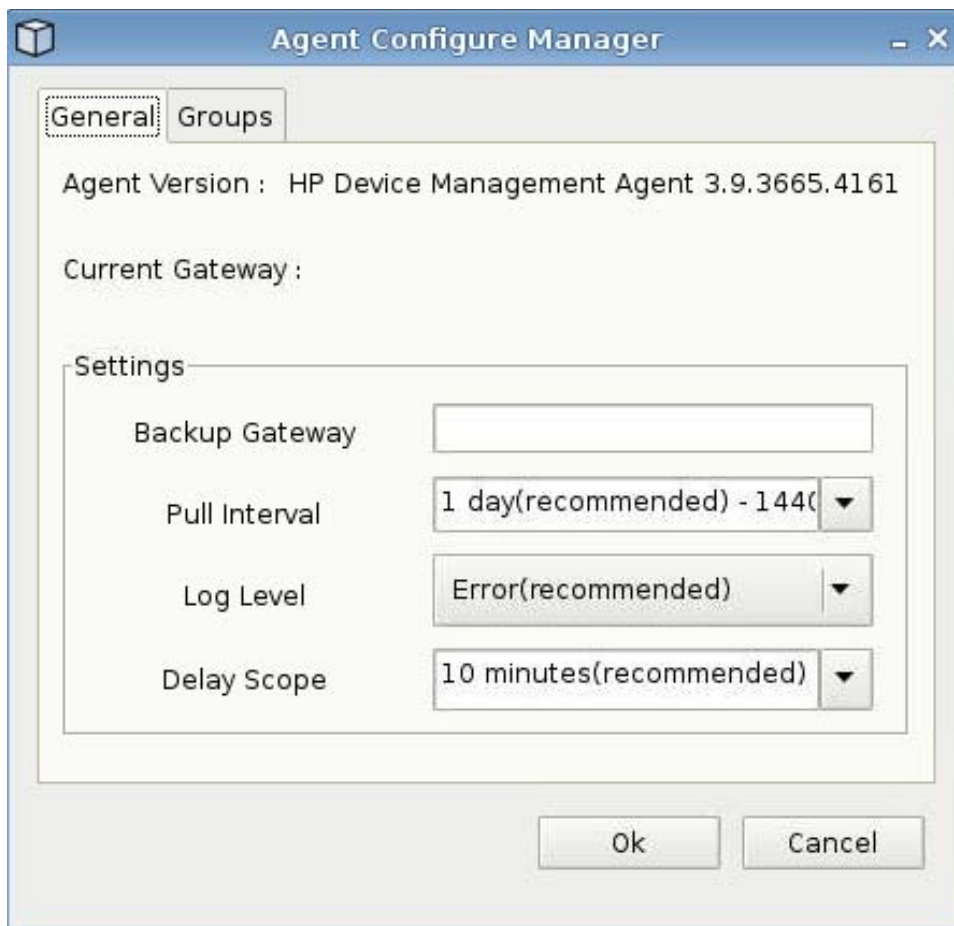
1. Click **Control Panel > Boot Logo.**
2. Select the theme you want from the list and click **Select this theme.**

## Remove this Theme

To remove a theme:


1. Click **Control Panel > Boot Logo.**
2. Select the theme you want from the list and click **Remove this theme.**

## HP Agent Config




Configure the HP Device Management Agent using this feature.

1. Click **Control Panel > HP Agent Configuration** to access this screen.
2. Use the **General** tab to set the following
  - **Backup Gateway**
  - **Pull Interval**
  - **Log Level**
  - **Delay Scope**
3. Set the groups using the **Groups** tab. You can select pre-assigned groups from the DHCP tab or you can use static custom groups.
4. Click **Ok** to save your changes.

 **NOTE:** Changes will take effect after the Agent is restarted.

## Altiris Configuration



 **NOTE:** Altiris is disabled by default. It can be activated automatically if the local area network DHCP server provides Altiris server information through DHCP Tag 190.

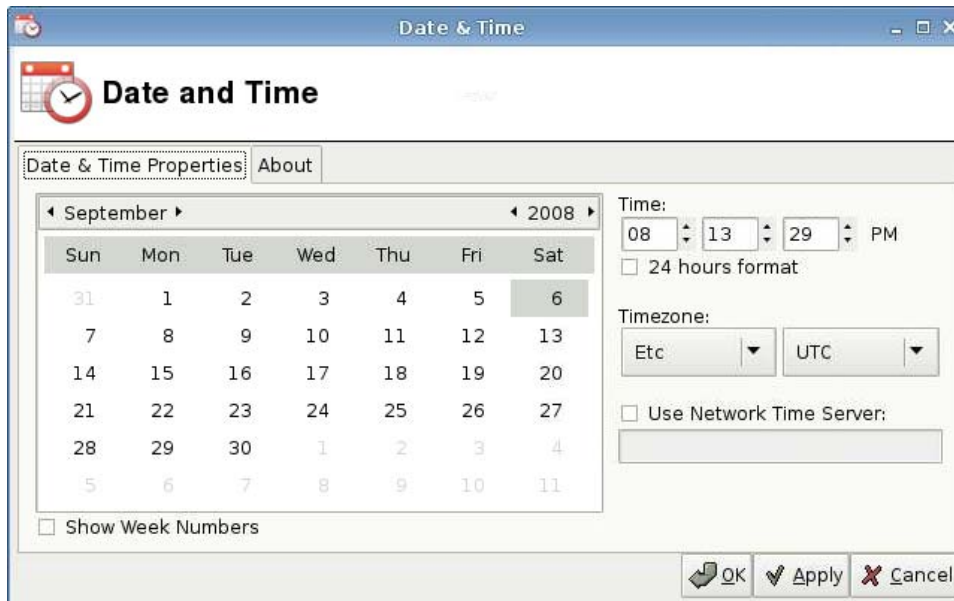
To configure or disable Altiris Agent:

1. Click **Control Panel > Altiris Configuration**.
2. Specify the Altiris settings in the fields shown.  
Or  
Select **Disable Altiris Agent** to disable Altiris.
3. Select **Use Multicast**: if you want to use the default Altiris server address.
4. The default **Multicast Address**: is displayed. Type your installation address if necessary.
5. Type or select the **Multicast Port**: (Altiris server port).
6. If **Use Multicast** is not selected, type the specific Altiris server address in the **TCP Address** field.



7. Type or select the **TCP Port:** (Altiris server port).
8. Click **OK** to save your changes and close the dialog box.

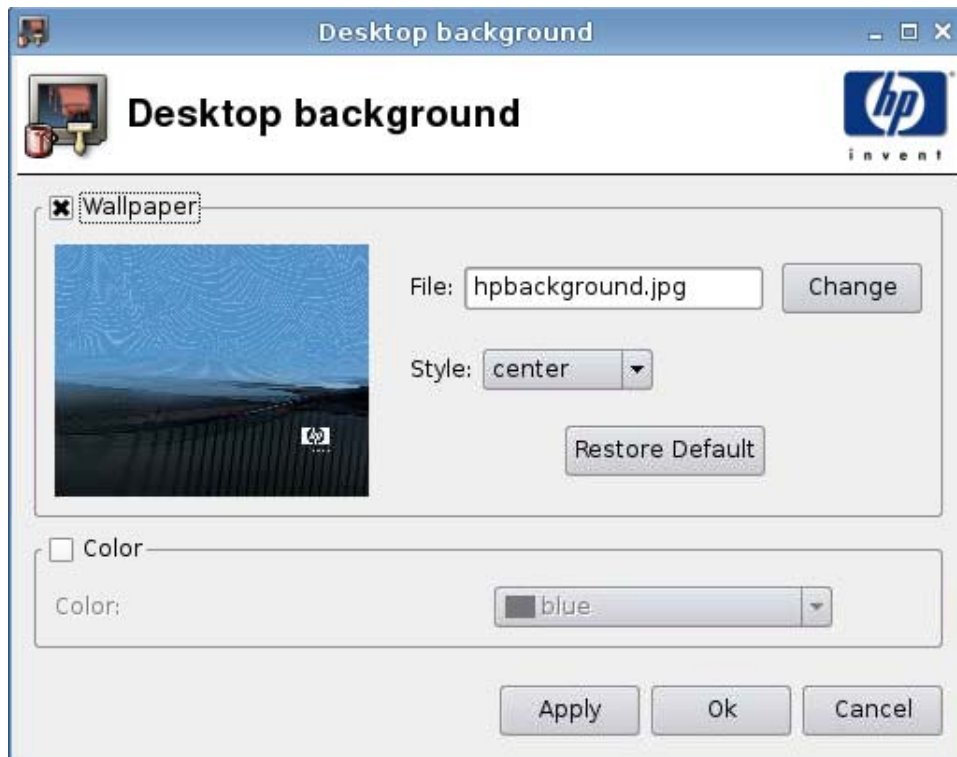
## Date and Time



To set date, time, and time zone information:

1. Click **Control Panel > Date and Time**.
2. Specify the date, time, and time zone.
3. Click **Apply**, and then click **OK** to save your changes and close the dialog box.

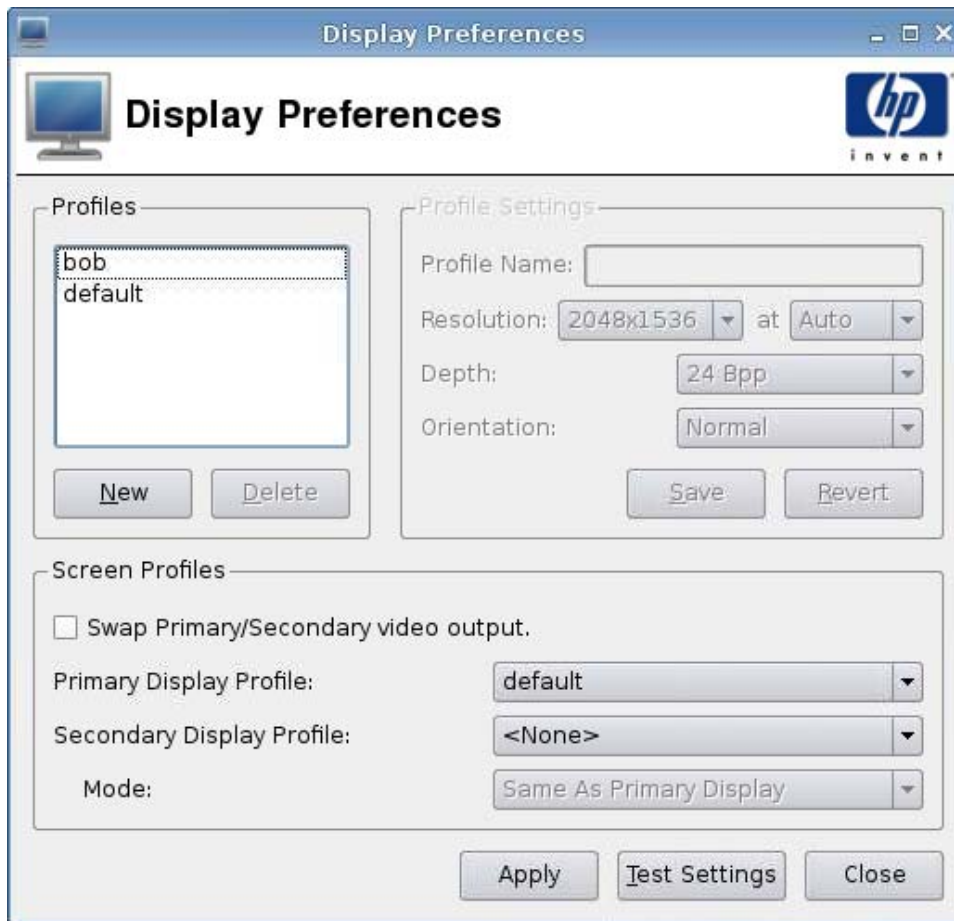
## Desktop Background



To change the desktop background:


1. Click **Control Panel > Desktop Background**.
2. Click **Change**, and then navigate to the image file you want to use as the desktop background.
3. Next to **Style**, select **center**, **tile**, or **fullscreen**.
4. Click **Restore Default** to discard changes and return to the factory image
5. To change the color, select **Color** and select a color in the **Color** field.
6. Click **Apply**, and then click **Ok** to save your changes and close the dialog box.

## Display Preferences



To add a profile:

1. Click **Control Panel > Display Preferences**.
2. Click **New**.
3. Under **Profile Settings**, type a name in the **Profile Name** field.
4. Select the appropriate **Resolution** for your monitor.

 **NOTE:** If you select a low resolution, you may need to reboot your thin client for the change to take effect.

5. Select the color **Depth**
6. Select the appropriate **Orientation** for your monitor.
7. Click **Save** to keep your changes or **Revert** to discard them.
8. Under **Screen Profiles**, select **Swap Primary/Secondary video output**, if desired.
9. Select the **Primary Display Profile** and the **Secondary Display Profile**.
10. Set the .

11. Click **Test Settings** to check the profile.
12. Click **Apply**, and then click **Close** to save your changes and close the dialog box.

To edit a profile:

1. Click **Control Panel > Display Preferences**.
2. Select a profile in the **Profiles** list.
3. Edit the **Profile Settings** and **Screen Profiles** as desired.
4. Click **Test Settings** to check the profile.
5. Click **Apply**, and then click **Close** to save your changes and close the dialog box.

To delete a profile:


1. Click **Control Panel > Display Preferences**.
2. Select a profile in the **Profiles** list and click **Delete**.
3. Click **Apply**, and then click **Close** to save your changes and close the dialog box.

## ezUpdate

This is a passive management solution based on a specific directory layout on an ftp/http or nfs location. This directory layout can contain specific instructions for the ThinPro image. If ezUpdate is enabled, when ThinPro is booted up, it checks this ftp/http/nfs server for new instructions and then carries out those instructions.



To use ezUpdate:

 **NOTE:** You must set up your ezUpdate server before you can use ezUpdate.

1. Click **Control Panel > ezUpdate**.
2. Select **Enable ezUpdate on system startup**, or clear the check box to disable this feature.
3. If you enable ezUpdate, either select **Use DHCP tag to detect ezUpdate server**  
Or  
Specify the **Protocol** and type the **Server**, **Path**, **User name**, and **Password** in the fields.
4. Click **Ok** to save your changes and close the dialog box.

## ezUpdate Server Deployment

Currently, ezUpdate supports four protocols:

- ftp
- http
- nfs
- local

The following procedures uses an ftp server to describe deployment of the ezUpdate server.

To deploy an ezUpdate server:

1. Create a directory to hold the update packages: /ftproot/ezupdate.
2. Under the root directory, create a file named client\_triggers.
3. Put the hostname of the clients that are going to be updated in this file, one hostname per line. This file is used to control which hosts will receive updates.

Besides the exact hostname, you may also list regular expressions in this file, for example:

- HP.\* matches all hostnames that start with "HP".
  - HP[0-9]\* matches all hostnames that start with "HP" followed by zero or more digits, e.g., HP12345 matches but HP12345A does not.
  - HP[0-9]\++ matches all hostnames that start with "HP" followed by one or more digits.
4. Create four directories named "CUSTOM", "FIRMWARE", "PACKAGES", and "PROFILE" under ezUpdate root directory. You may classify the updates and put the packages and .2do files to the proper directories according to their properties.
  5. Create (ezUpdate-root)/update\_list. This is a plain text file which lists paths to the .2do files that should be installed on the clients, for example:
    - PACKAGES/acrobat/install.2do
    - PACKAGES/flash/install.2do
    - PACKAGES/firefox/uninstall.2do
    - PROFILE/install.2do

For details of the .2do file, please refer to "xpe\_snapin\_ref.pdf". Here is an simple example:

```
# The name and the version of the package, *required*.
# PACKAGE_NAME=acrobat
# VERSION=1
#
# This file is processed by Remote Manager as part
# of the update procedure.
#
```

```
# Install the snapin via the install_snapin script. SCRIPT
install_snapin.sh <<< adobe-acrobat.hpk

# END OF .2DO
```

Pay attention to "PACKAGE\_NAME" and "VERSION" entries, as they are both mandatory and very important to the ezUpdate version control mechanism.

install\_snapin.sh and acrobat-acrobat.hpk are stored in the same directory with this .2do file. When performing update, they are downloaded by the client to the local storage. Then install\_snapin.sh is executed locally, and the real installation is performed.

Here is an example of an install\_snapin.sh script:

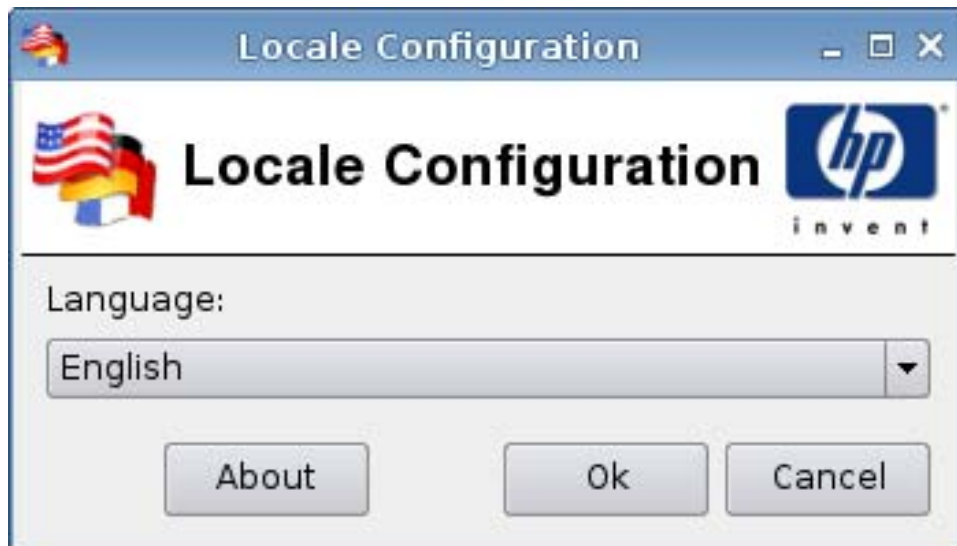
```
# This script is downloaded to an HP appliance
# in order to install a hpk snapin.
# This script should work as part of a complete installation
# or as part of an installation to a running system.
#
RAMDIR=/tmp
echo Installing adobe acrobat...
#
# Copy the "snapin.tgz" file to the ramdisk.
/bin/cat - > ${RAMDIR}/snapin.hpk
echo installing ${RAMDIR}/snapin.hpk
IPKFILE="${RAMDIR}/snapin.hpk"
# Install the "snapin.hpk" file
/usr/bin/hpkg -i "${IPKFILE}"
if [ $? -ne 0 ] ; then
    echo ERROR - Snapin install failed.
    exit 1
fi
echo OK
exit 0
# END OF SCRIPT
```

## DHCP Server Deployment

The code for ezUpdate server option is 137, and the tag string can be constructed in three ways:

- proto://user:passwd@host/directory
- nfs:host:fullpath
- local:fullpath

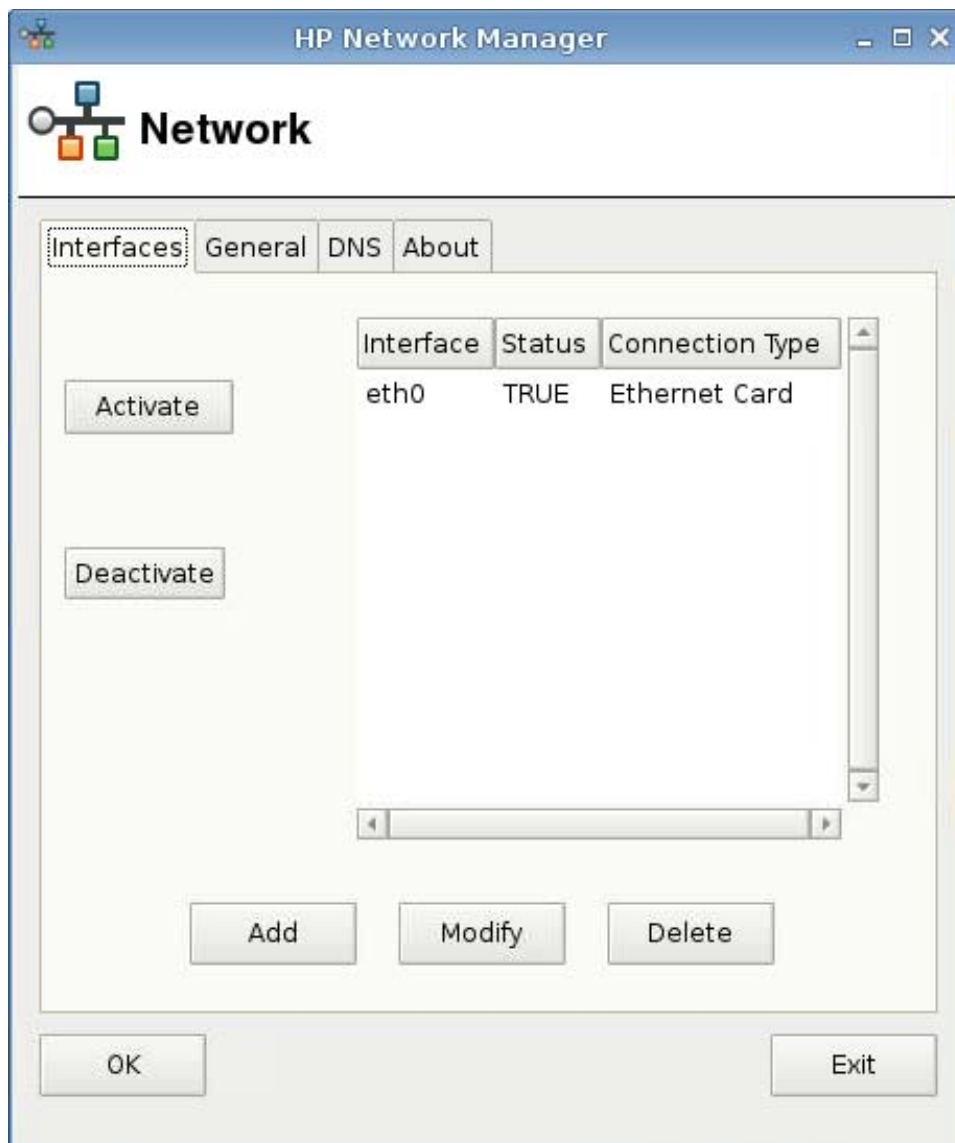
## Language



1. Click **Control Panel > Language**.
2. Select the language you want to use.
3. Click **Ok** to save your changes and close the dialog box.



## Network



To set **Network** attributes:

- ▲ Click **Control Panel > Network**.

### Interfaces Tab

To activate a connection:

- ▲ Select an inactive connection from the list and click **Activate**.

To close a connection:

- ▲ Select an active connection from the list and click **Deactivate**.

To add a connection:

- ▲ Click **Add**, and then supply the connection specifications.

To modify a connection:

1. Select a connection from the list and click **Modify**.
2. Click **Active on boot** if you want the connection to be active upon boot.
3. Click **Apply** to confirm the configuration changes.
4. Click **OK** on the confirmation notice to close the notice and dialog box.

To close a connection:

1. Select a connection from the list and click **Delete**.
2. Click **OK** to confirm.

To close the dialog box:

- ▲ Click **OK**.

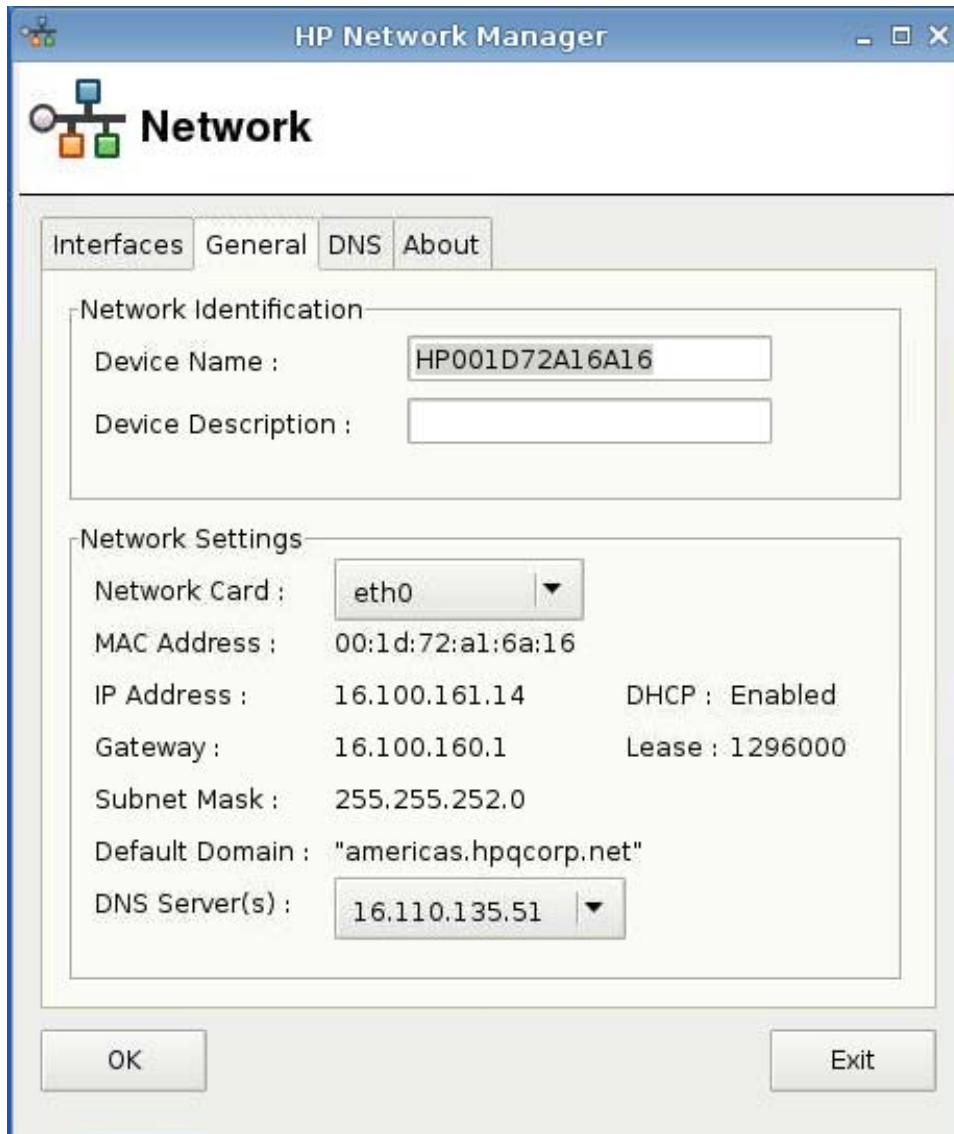


---

**NOTE:** Restart the Xserver if you have changed the device name under the **General** tab.

---

## General Tab



The image shows a screenshot of the HP Network Manager application window. The title bar reads "HP Network Manager". Inside the window, there is a "Network" icon and the word "Network". Below this, there are four tabs: "Interfaces", "General", "DNS", and "About". The "General" tab is currently selected. The "General" tab contains two main sections: "Network Identification" and "Network Settings".

**Network Identification**

- Device Name : HP001D72A16A16
- Device Description :

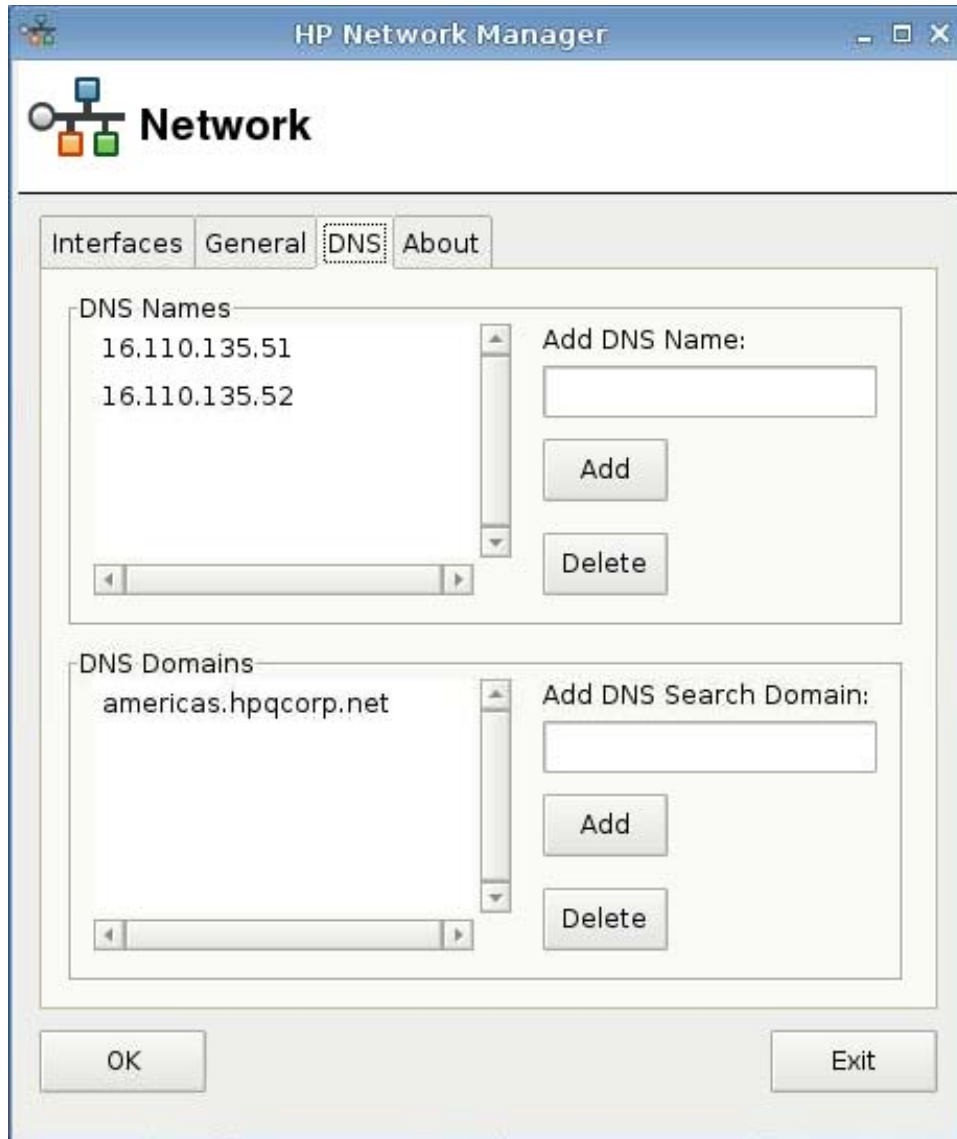
**Network Settings**

- Network Card : eth0
- MAC Address : 00:1d:72:a1:6a:16
- IP Address : 16.100.161.14 DHCP : Enabled
- Gateway : 16.100.160.1 Lease : 1296000
- Subnet Mask : 255.255.252.0
- Default Domain : "americas.hpqcorp.net"
- DNS Server(s) : 16.110.135.51

At the bottom of the dialog box, there are two buttons: "OK" and "Exit".

Specify or change network identification or settings in this dialog box.

## DNS Tab



To add a DNS name:

1. Type a DNS IP address in the **Add DNS Name** field.
2. Click **Add**.

The new DNS name appears in the **DNS Names** list.

To delete a DSN name:

- ▲ Select a name in the **DNS Names** list and click **Delete**.

To add a DNS domain:

1. Type a search domain in the **Add DNS Search Domain** field.
2. Click **Add**.


The new search domain appears in the **DNS Domains** list.

To delete a DSN domain:

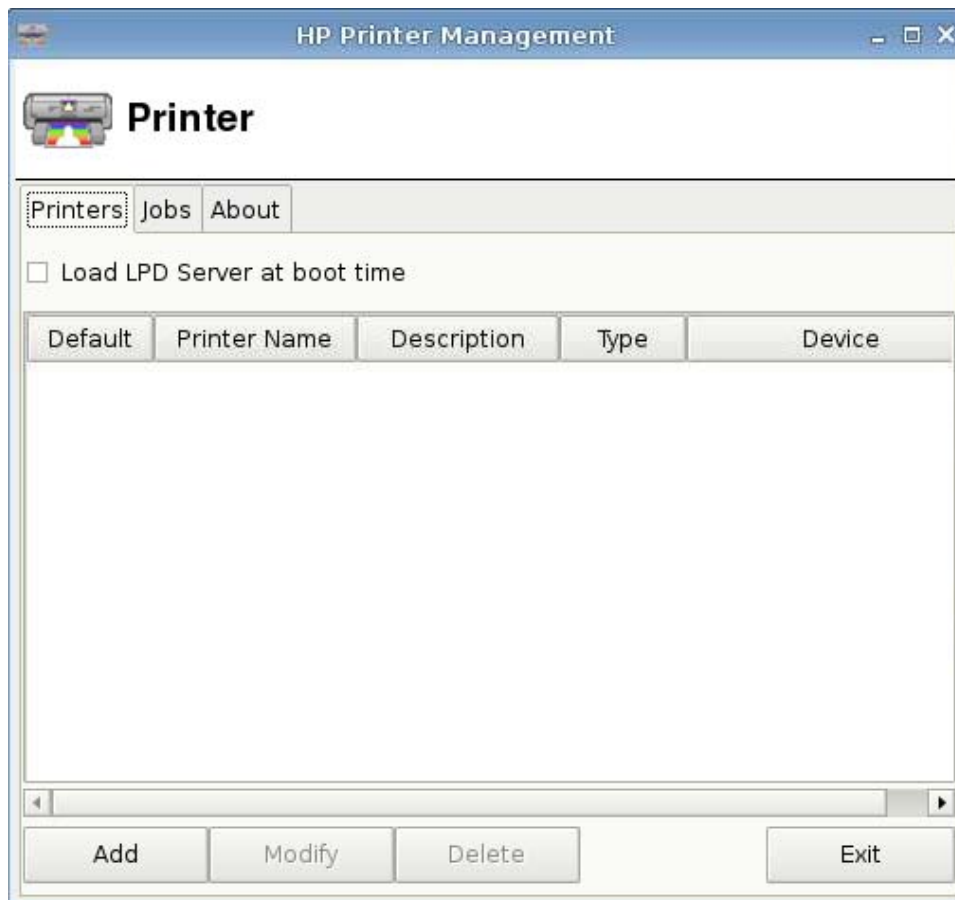
- ▲ Select a name in the **DNS Domains** list and click **Delete**.

To close the dialog box:

- ▲ Click **OK**.

 **NOTE:** Restart the Xserver if you have changed the device name under the **General** tab.

## Printer



Use this dialog box:

- Printers tab: to add, modify, or delete printers
- Jobs tab: to select printers or delete print jobs


### Printers Tab

Use the **Printers** tab to add, modify, and delete printers from the thin client.

## Add Printers

The following **Add New Printer** options are available:

- Parallel Printer
- Serial Printer
- USB Printer
- Network Printer
- Samba Printer



The screenshot shows a window titled "Add New Printer" with a close button (X) in the top right corner. The window is divided into two main sections: "Printer Type" and "Printer Info".

**Printer Type:** This section contains five radio buttons. The first, "Parallel Printer", is selected and highlighted with a dashed border. The other options are "Serial Printer", "USB Printer", "Network Printer", and "Samba Printer".

**Printer Info:** This section contains several input fields and checkboxes:

- Printer Name:** An empty text input field.
- Description:** An empty text input field.
- Device Port:** A dropdown menu showing "/dev/lp0".
- Windows Driver:** An empty text input field.
- Use Filter:** A dropdown menu showing "/usr/lib/lprng/filters/lpf".
- Use Form Feed:** An unchecked checkbox.
- Make Default:** An unchecked checkbox.

At the bottom of the window are three buttons: "Ok", "Test", and "Cancel".

To add a printer:

1. Click **Control Panel > Printer**.
2. On the **Printers** tab, click **Add**.
3. Select **Parallel Printer**.
4. Type the **Printer Name**, **Description**, and **Windows Driver** in the corresponding fields.

5. Select **Use Form Feed** if desired.
6. Select **Make Default** if you want this to be your default printer.
7. If you want to test your specifications, click **Test**.
8. Click **Ok** to add the printer and close the **Add New Printer** dialog box.

### Modify Printers

To modify a printer:

1. Select the printer from the list and click **Modify**.
2. Modify the printer attributes as desired.
3. Click **Exit** to close the dialog box.

### Delete Printers

To delete a printer:

1. Select the printer from the list and click **Delete**.
2. Click **OK** to confirm.
3. Click **Exit** to close the dialog box.

## Jobs Tab



To delete print jobs:

1. Select a printer from the **Select Printer** list.
2. Select a job from the list and click **Delete**.
3. To delete all jobs, click **Delete All**.
4. Click **Refresh** to refresh the view.



## Profile Manager



In Profile Manager, you can

- Restore factory defaults
- Save the current configuration
- Import a profile
- Export the current profile

To restore factory defaults:

1. Click **Control Panel > Profile Manager**.
2. Click **restore factory defaults**.

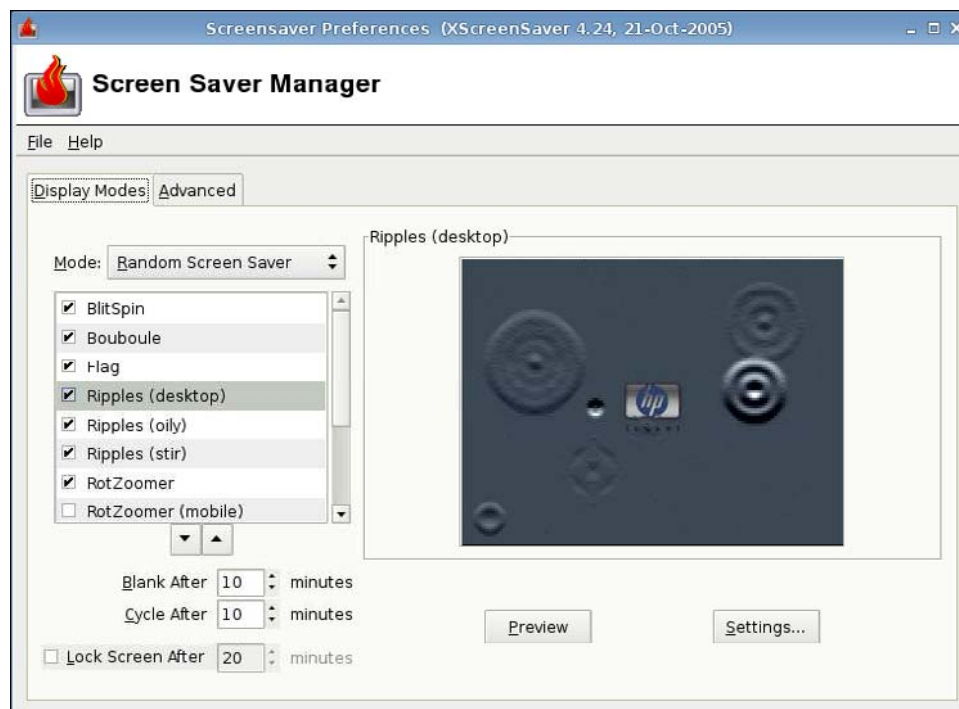
1. Click **Control Panel > Profile Manager**.
2. Click **Safe current configuration**.

1. Click **Control Panel > Profile Manager**.
2. Click **Import a Profile**.
3. Browse to the profile you wish to import and click **Open**.
4. Click **Import Profile**.

The thin client will import the selected profile and restart.

1. Click **Control Panel > Profile Manager**.
2. Click **Export current Profile**.
3. Browse to the location where you would like to save the profile, type a profile name in the **File name** field, and click **Save**.
4. Click **OK** to confirm export success.

## Screensaver




 **NOTE:** Help is not available.

## Display s Tab

To set display s:

1. Click **Control Panel > Screensaver**.
  2. Select the :
    - Disable Screen Saver
    - Blank Screen Only
    - Only One Screen Saver
    - Random Screen Saver
  3. If you have selected **Only One Screen Saver**, select one screen saver from the list and clear the check boxes of all other screen savers.

If you have selected **Random Screen Saver**, select all screen savers you would like to appear randomly.
  4. To view screen savers,
    - Click on a screen saver name and it appears in a window in the dialog box.
    - Click on the up or down arrow below the screen saver box to view the previous or next screen saver on the full screen. Click your cursor to return to the normal view.
  5. Set the period of inactivity to activate the screen saver in minutes in the **Blank After** field. Use the up and down arrows next to the field or type the number in the field.
  6. If you selected **Random Screen Saver**, set the time for each screen saver to run before changing in the **Cycle After** field. Use the up and down arrows next to the field or type the number in the field.
  7. If you want the screen to blank and a password to be required to unlock the computer after a period of inactivity, set the time in the **Lock Screen After** field. Use the up and down arrows next to the field or type the number in the field.
- 
-  **NOTE:** If the screen is locked while in Administrative Mode, type the user password in the field.
- 
8. Click **Preview** to view a full-screen preview of your selected screen saver.
  9. Click **Settings** to see settings for that screen saver.

## Advanced Tab

Use this tab to set additional attributes for the display:

- Image Manipulation
- Text Manipulation
- Display Power Management
- Fading and Colormaps

## Security



This feature allows you to change Administrator and User passwords.

To change your password:

1. Click **Control Panel > Security**.
2. Select **Administrator** or **User** and click **Change password**.
3. Type the new password in the **New password** and **Confirmation** files and click **Ok**.
4. Click **Ok**.

## ThinPrint

The image shows a 'Thinprint configuration' window. At the top, there's a title bar with standard window controls. Below it, the window has a header area with the 'ThinPrint .print' logo on the left and the 'hp invent' logo on the right. The main area contains two input fields: 'Bandwidth:' with the value '65535' and 'Packet size:' with the value '8192'. Below these is a section titled 'Printers settings' which contains a table. The table has three columns: 'Class', 'Name', and 'Max Keep Alive(in mn)'. There are two rows in the table, one for 'Paraprint' and one for 'seriprint'. Each row has a checkbox to its left. At the bottom right of the window are 'Ok' and 'Cancel' buttons.

	Class	Name	Max Keep Alive(in mn)
<input type="checkbox"/>	Paraprint	Paraprint	10
<input type="checkbox"/>	seriprint	seriprint	10

To use ThinPrint:

1. Select the printer you want to use and click **Ok**.
2. Reboot the computer so that the setting will become effective.

## HP ThinState Utility

HP ThinState allows you to copy and deploy thin client settings to another HP thin client of identical I and hardware.

- [Capture Thin Client Settings to USB Drive on page 93](#)
- [Deploy Captured Settings from a USB Drive on page 96](#)
- [Capture a Thin Client Full Image to a USB Drive on page 97](#)
- [Deploy a Full Image to an FTP Site on page 98](#)




**NOTE:** HP ThinState is not a standalone tool and can only be accessed by the administrator from within the thin client image.

*What do I need to have?*

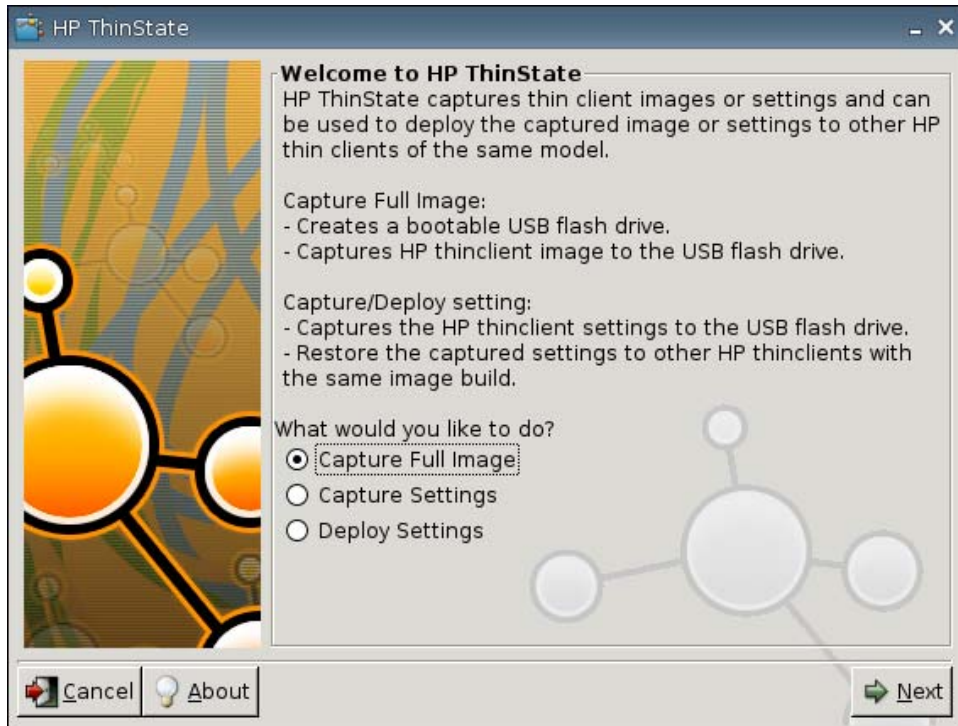
- An HP thin client unit that contains the latest HP provided image.
- An HP-approved USB flash drive.

## Capture Thin Client Settings to USB Drive

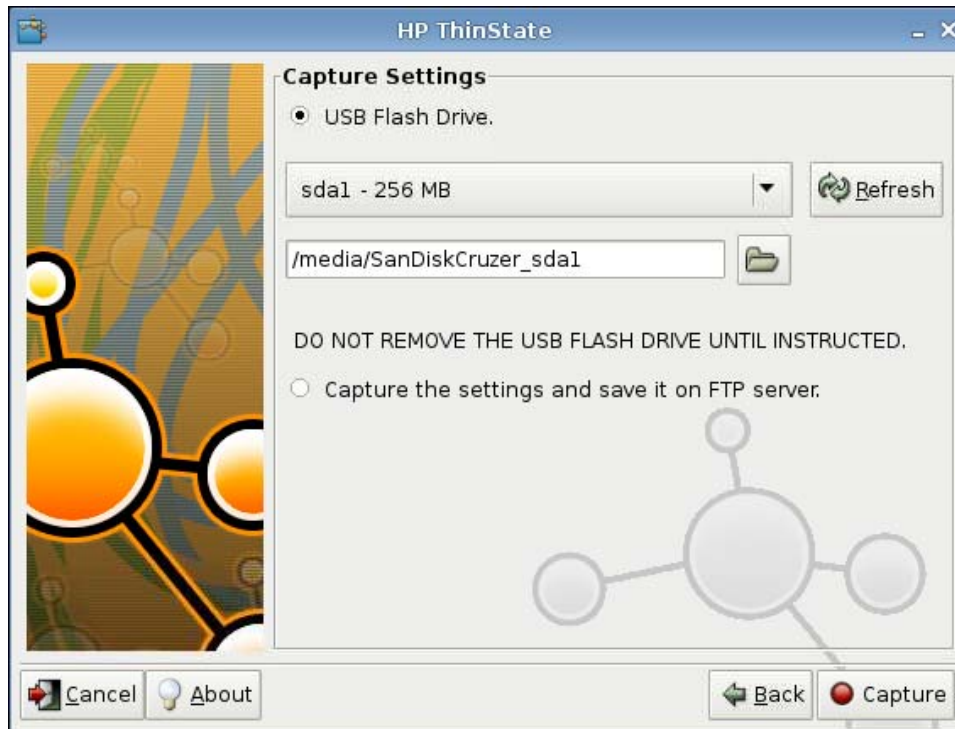
To use HP ThinState to capture thin client settings to a USB drive:

 **NOTE:** If using a USB flash drive to capture settings and the flash drive contains previously captures settings, you must format the USB flash drive prior to using the ThinState utility.

1. Attach a USB flash drive to the thin client.
2. Go to **Control Panel > Thinstate**.
3. Click **OK** on the notification message. The following window is displayed:

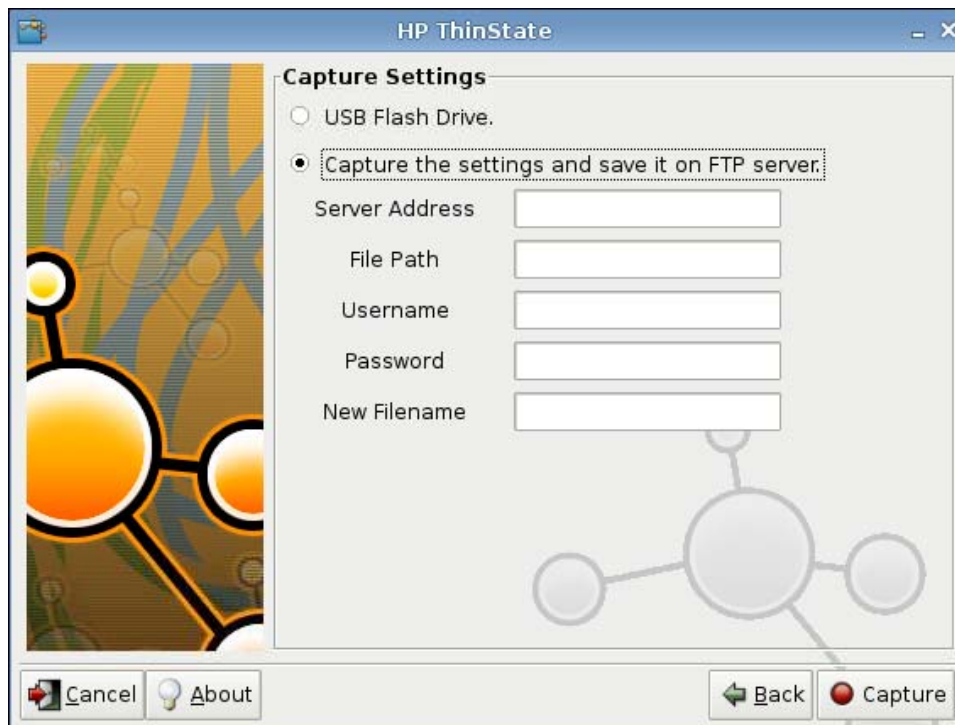


4. Select **Capture Settings**, and then click **Next**. The following window is displayed:




5. Select the target USB flash drive from the list.

(Optional Destination) Select **Capture the settings and save it on FTP server** to save settings to a FTP server and type the FTP Server Address, File Path, Username, Password, and New Filename.



6. Click **Capture**.
7. Click **OK** on the information message.

Settings capture is complete. Remove the USB flash drive.

 **NOTE:** You must remove the USB drive prior to system reboot.

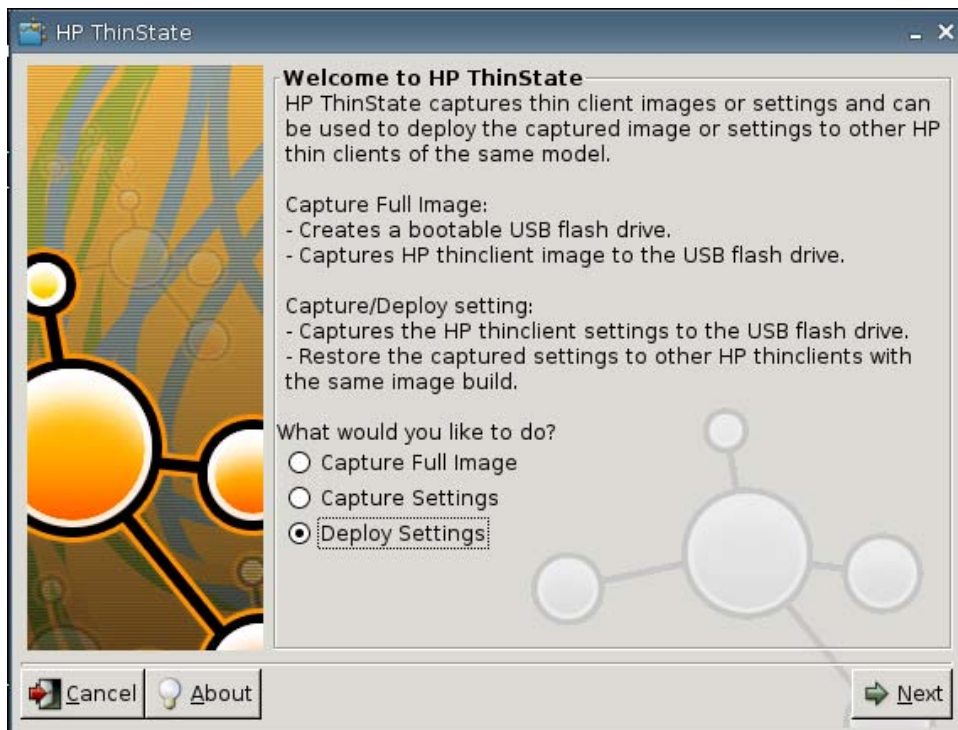
8. Close the window.

Use the capture settings on the USB drive to replicate (deploy) on different systems or to restore the current capture back to its original setting after settings are altered.

## Deploy Captured Settings from a USB Drive

To Use HP ThinState to Deploy Captured Settings from a USB drive:

1. Attach the USB flash drive on which you captured settings.
2. On the thin client to which you want to deploy captured settings, click **Control Panel > Thinstate**.
3. Click **OK** on the warning message. The following window is displayed.




4. Select **Deploy Settings**.
5. Click **Next**.
6. Select the target USB flash drive from the list.
7. Click **Deploy**.



After image setting settings have been deployed successfully, you may remove the USB flash drive.

8. Click **OK** on the information message.


The thin client immediately reboots deploying settings.

 **NOTE:** If you do not remove the USB flash drive, during reboot, you are prompted to press any key. Simply remove the flash drive and press any key to continue reboot.

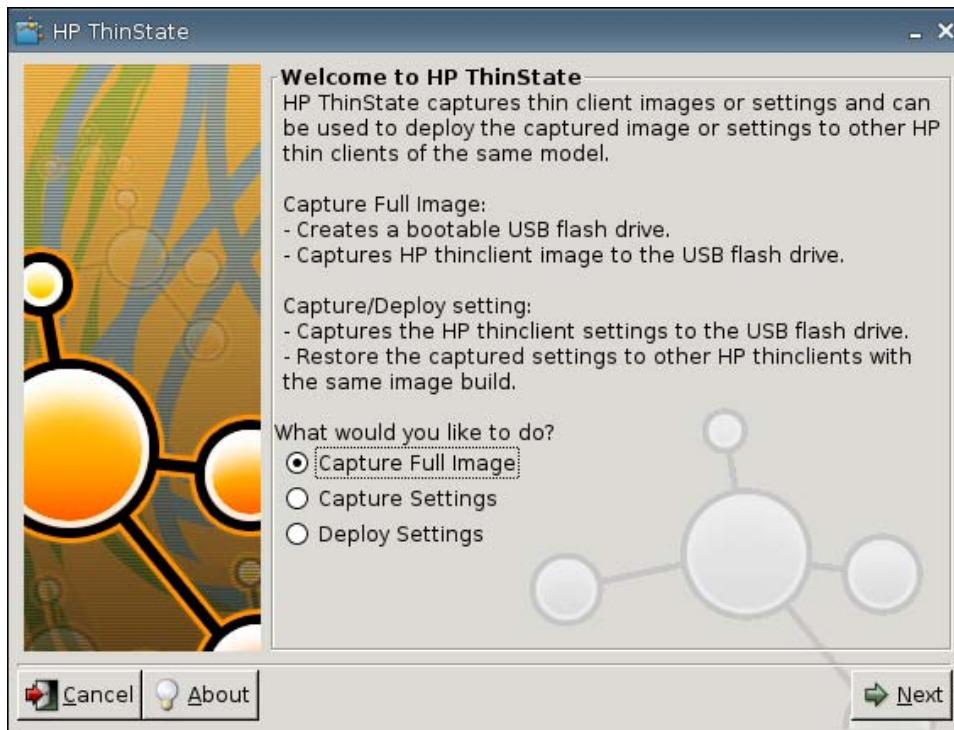
## Capture a Thin Client Full Image to a USB Drive

To use HP ThinState to capture a thin client full image to a USB drive:

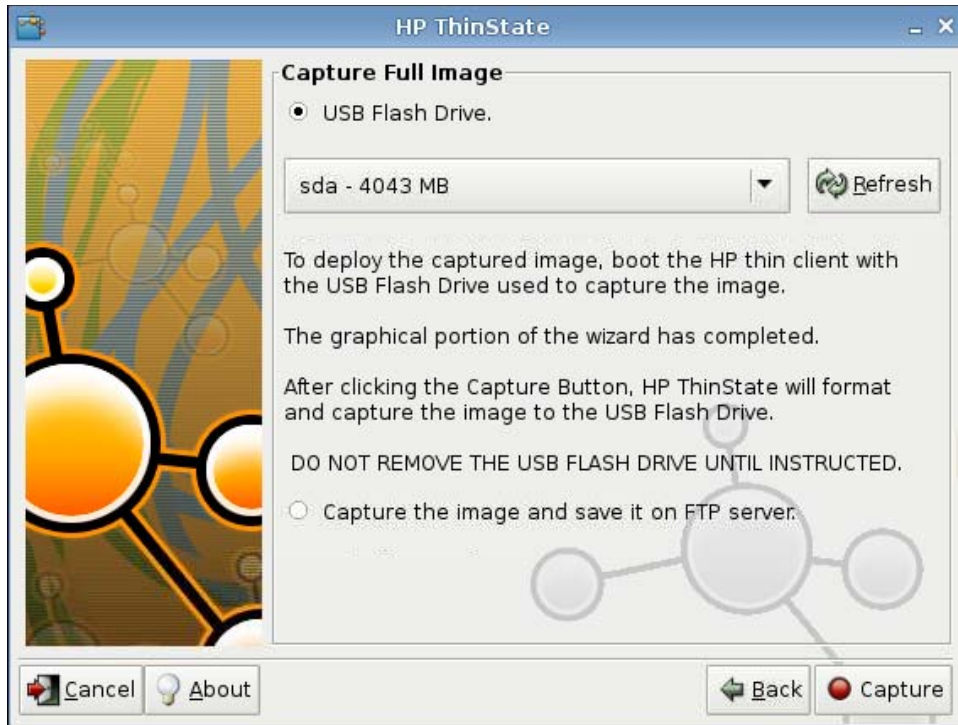
1. Attach a USB flash drive to the thin client.

 **NOTE:** HP ThinState, when capturing a full image, automatically formats the USB flash drive and makes the flash drive bootable.

2. Go to **Control Panel > Thinstat**.
3. Click **OK** on the notification message. The following window is displayed:



4. Select **Capture Full Image**, and then click **Next**. The following window is displayed:



5. By default, all settings are captured. Click **Customize Captured Settings** to select only settings you want captured.
6. Click **Capture**.
7. Click **OK** on the warning message.


When full image capture is complete, you are instructed to remove the USB drive.

8. Remove the USB flash drive and click **OK**.
9. Close the **HP ThinState** window.

Use the capture full image on the USB drive to replicate on different systems or to restore the current thin client back to its original image.

To install a full image from a USB drive, simply attach a USB drive to the target thin client, reboot the unit, and follow the onscreen instructions.

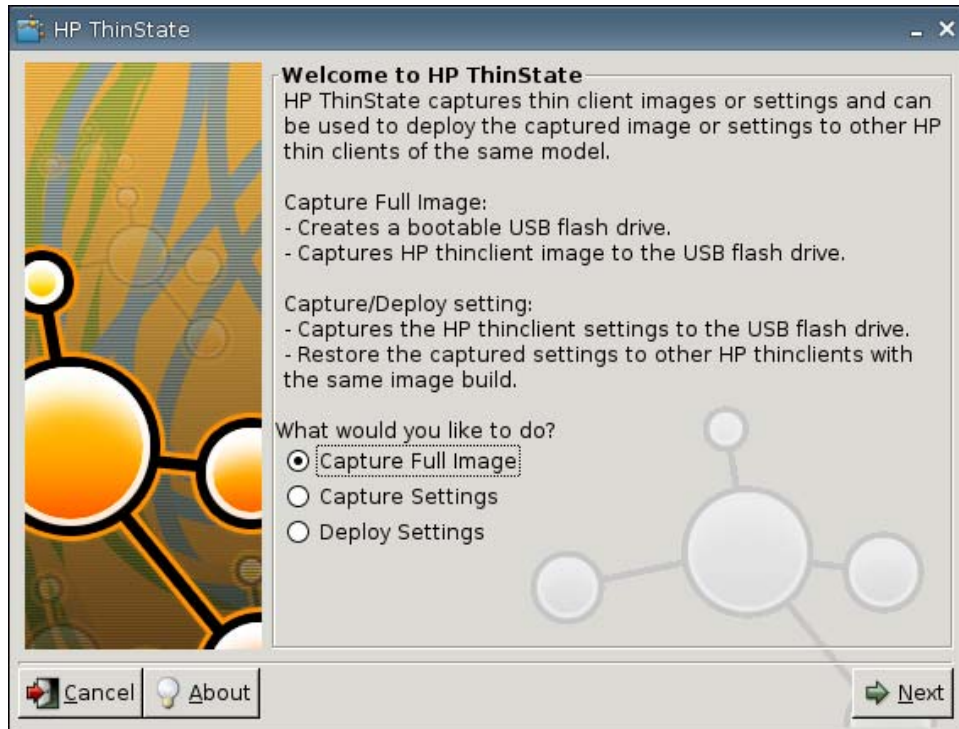
## Deploy a Full Image to an FTP Site

 **NOTE:** You must have at least 1G RAM to perform this procedure.

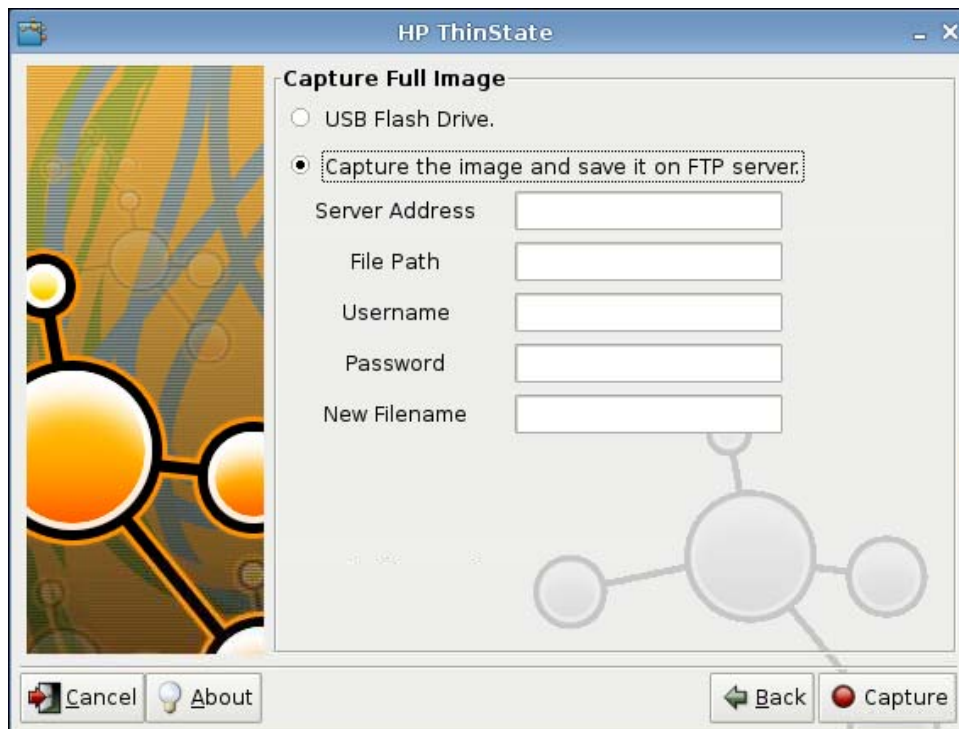
To use HP ThinState to deploy a full image to an FTP site:

1. On the thin client from which you want to deploy a captured full image, click **Control Panel > Thinstate**.

2. Click **OK** on the warning message. The following window is displayed.



3. Select **Capture Full Image**.
4. Click **Next**.
5. Select **Capture the image and save it on FTP server**. The following window is displayed.



6. Click **Capture**.
7. Click **OK** on the notification message.
8. Close the **hpthinstate** customized settings dialog box.

## Touch Screen



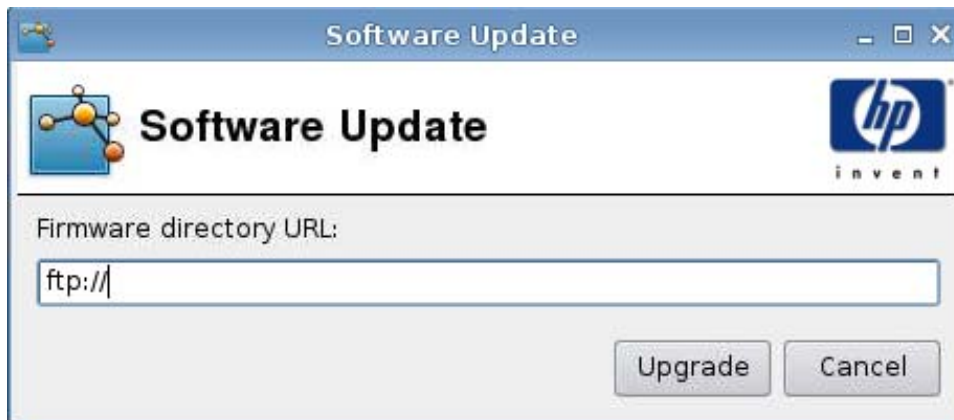
Touch Screen allows you to operate the thin client by touching the display screen.

To enable touch screen:

1. Click **Control Panel > Touch Screen** and select **Enable Touch Screen**.
2. Click **Ok** to save your changes and close the dialog box.
3. Restart the desktop.
  - a. Click the HP logo in the bottom left of the screen and select **Shutdown**.
  - b. Click **Restart the Desktop**.
4. Click **Control Panel > Touch Screen** and click **Calibrate** to calibrate the touch screen.

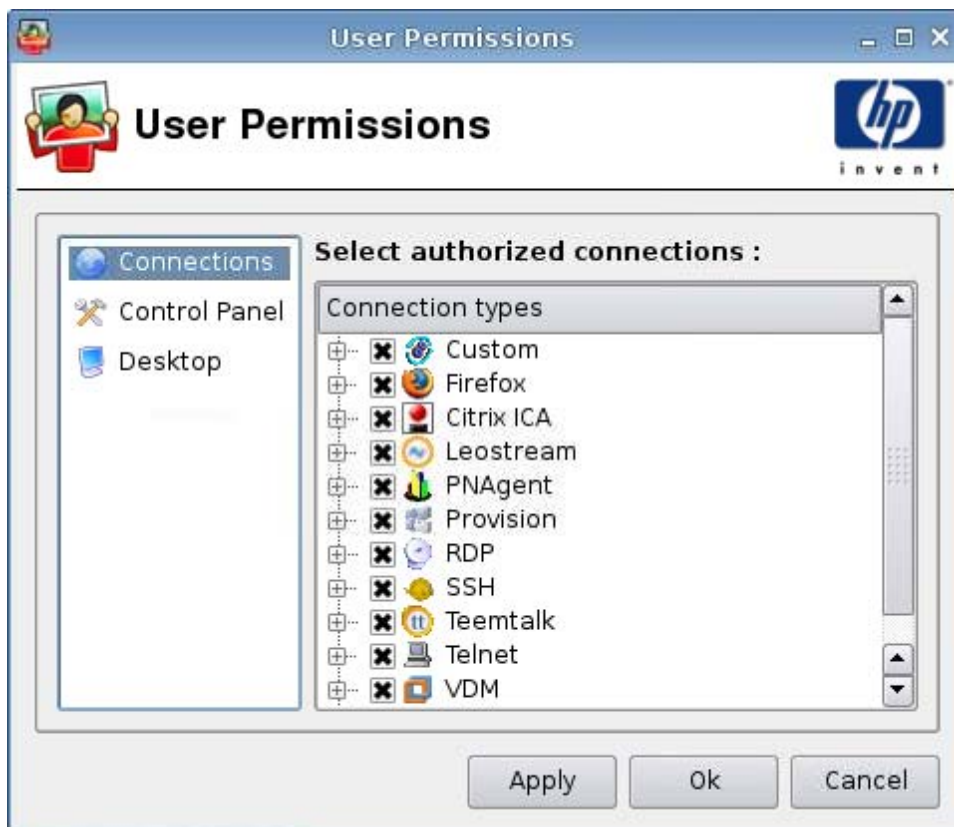
## Software Update

Software update allows you to upgrade the HP ThinPro image by providing the URL of a ftp or a http server containing ThinPro firmware.



1. Click **Control Panel > Software Update**.
2. Type the URL in the **Firmware directory URL** field and click **Upgrade**.

## User Permissions



You can customize user permissions:

- Authorized connections
- Authorized applications
- Desktop options

To set user permissions:

1. Click **Control Panel > User Permissions**.
2. Click **Connections** in the left panel and select authorized connections by selecting or clearing check boxes.
3. Click **Control Panel** in the left panel and select authorized applications by selecting or clearing check boxes.
4. Click **Desktop** in the left panel and select desktop options by selecting or clearing check boxes.
5. Click **Apply**, then click **Ok** to close the dialog box.

## Shadowing




Virtual Network Computing (VNC) is a remote control program that allows you to see the desktop of a remote machine and control it with your local mouse and keyboard, just as if you were sitting in the front of that computer.

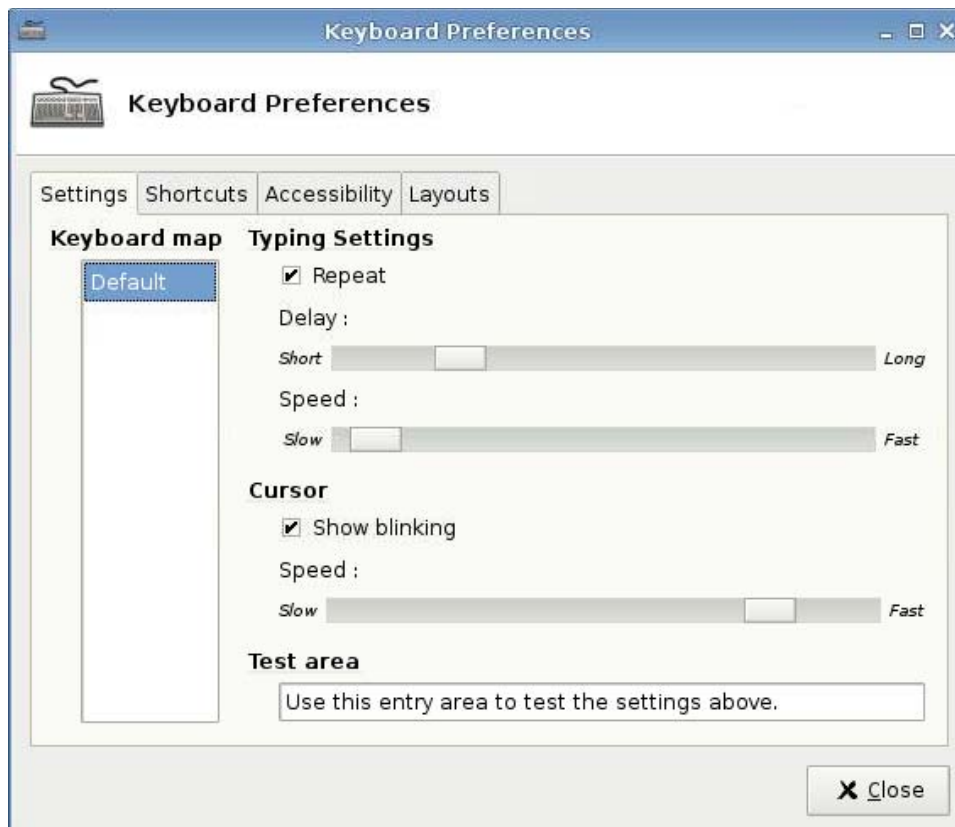


To allow a thin client to be accessed from another location:

1. Click **Control Panel > Shadowing**.
2. Select **Enable VNC Shadow** to enable the thin client to be accessed using VNC.
3. Select **VNC Read Only** to make the VNC session read only.
4. Select **VNC Use Password** to require a password to access the thin client using VNC
5. Select **VNC Notify User to Allow Refuse** to display a message when someone uses VNC to access the thin client and allow a user to refuse VNC access.
6. Select **Re-set VNC server right now** and click **Ok** to reset the VNC server.
7. Click **Ok** to save the settings and exit the dialog box.

 **NOTE:** You will need to restart the thin client for the changes to take effect.

## Keyboard



This allows you to set various keyboard preferences:

- Settings: set typing and cursor speeds
- Shortcuts: add or remove keyboard shortcuts
- Accessibility: enable and set parameters for sticky keys, slow keys, and bounce keys
- Layouts: set the keyboard layout and layouts

To set keyboard preferences

1. Click **Control Panel > Keyboard**.
2. Set your preferences and click **Close** to save your preferences and close the dialog box.

## Sound



This allows you to specify audio parameters.

1. Click **Control Panel > Sound**.
2. Set your device and control parameters, and click **Close** to save your preferences and close the dialog box.



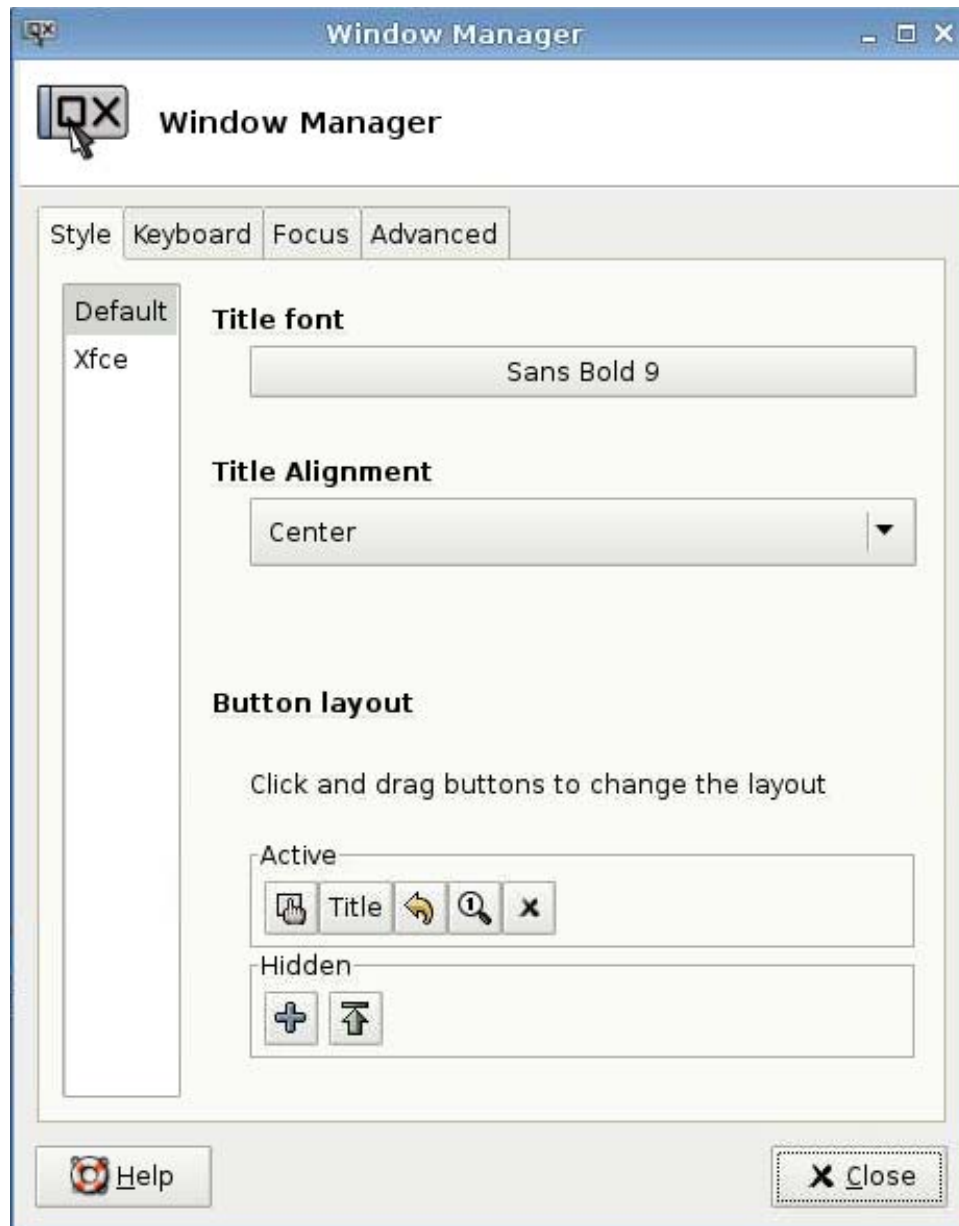
## Mouse



To set the mouse behavior and cursor size:

1. Click **Control Panel > Mouse**.
2. Set your preferences on the three tabs:
  - **Behavior**
  - **Cursor**
  - **Accessibility**
3. Click **Close** to save your settings and close the dialog box.

## Window Manager



To set window management specifications:

1. Click **Control Panel > Window Manager**.
2. Set your specifications on the following tabs:
  - **Style**
  - **Keyboard**
  - **Focus**
  - **Advanced**
3. Click **Close** to save your settings and close the dialog box.

On the **Style** tab, you can set the following

- **Title font**
- **Title Alignment**
- **Button layout**

On the **Keyboard** tab, you can set **Window shortcuts**.

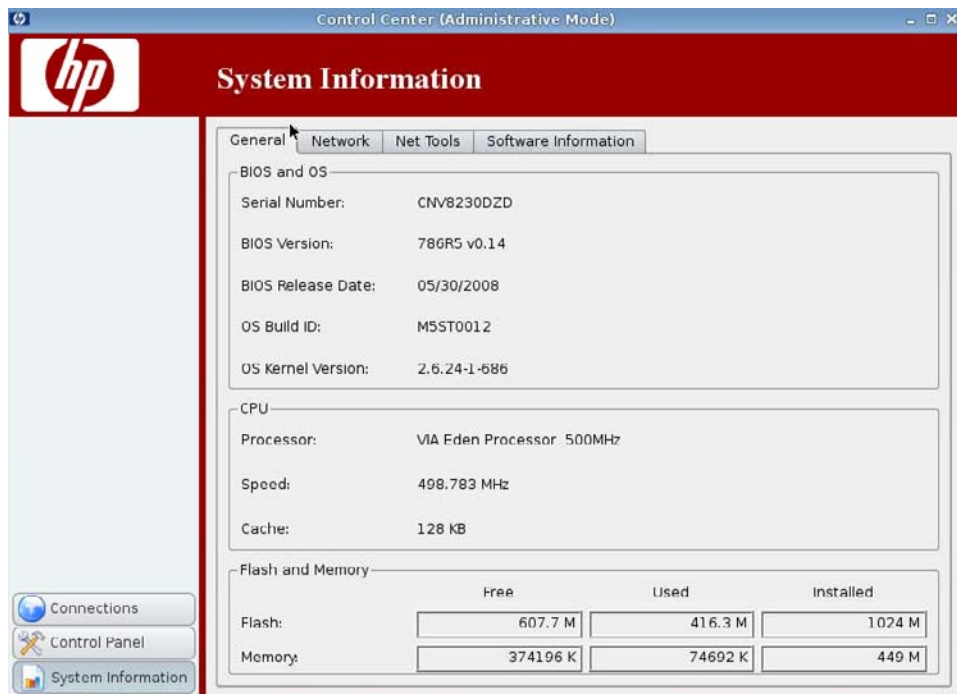
Use the **Focus** tab to specify focus parameters:

- **Focus I**
- **New window focus**
- **Raise on focus**
- **Raise on click**

You can also specify the following **Advanced** settings:

- **Windows snapping**
- **Wrap workspaces**
- **Opaque move and resize**
- **Double click action**

# System Information



The System Information screen has four tabs:

- [General on page 108](#)
- [Network on page 109](#)
- [Net Tools on page 110](#)
- [Software Information on page 111](#)

## General

This screen displays the following information:

- BIOS and OS
  - Serial Number
  - BIOS Version
  - BIOS Release Date

- OS Build ID
- OS Kernel Version
- CPU
  - Processor
  - Speed
  - Cache
- Flash and Memory
  - Free
  - Used
  - Installed

## Network

The screenshot shows the HP Control Center (Administrative Mode) window with the 'System Information' tab selected. The 'Network' sub-tab is active, displaying configuration for the 'eth0' interface. The interface is enabled and configured with a static IP address of 16.100.163.17 and a network mask of 255.255.252.0. The default gateway is 16.100.160.1. DNS settings include a hostname of HP001D/2A16A16, a default domain of americas.hpqcorp.net, and two nameservers: 16.110.135.52 and 16.110.135.51. A table of interface statistics shows received and transmitted packets, bytes, and errors.

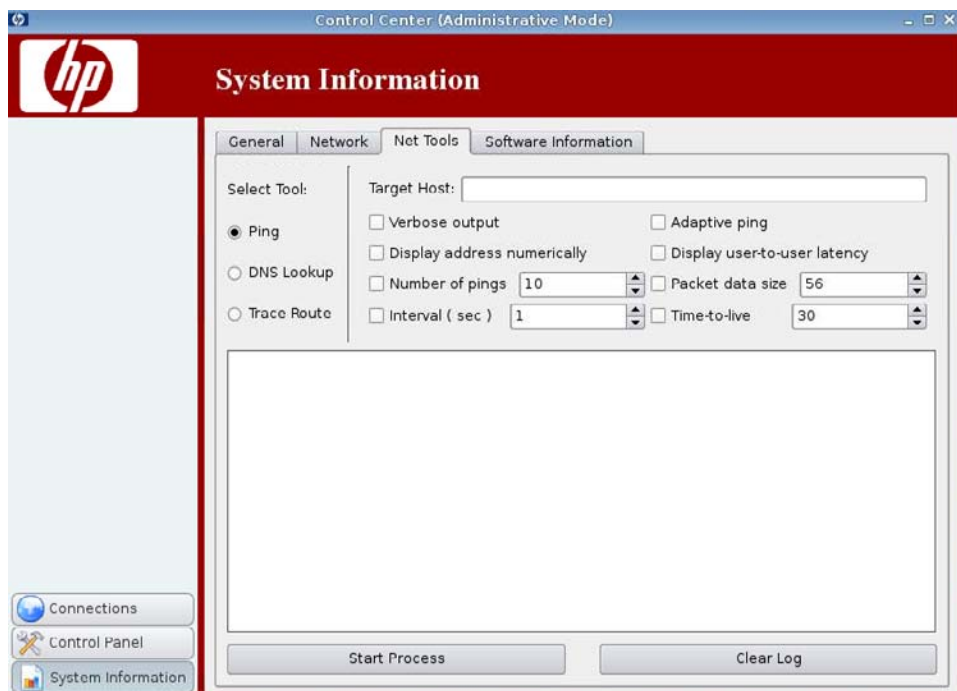
Interface Statistics	Value
Received	
Packets	374455
Bytes	29032680
Errors	0
Dropped	0
Overruns	0
Frame Errors	0
Transmitted	
Packets	281152

The Network screen displays the following information:

- Interface
  - Name
  - State
  - Type
  - IP Address
  - Network Mask

- DHCP Server Address
- Interface Statistics
- Network
  - Default Gateway
- DNS Settings
  - Hostname
  - Default Domain
  - Nameservers

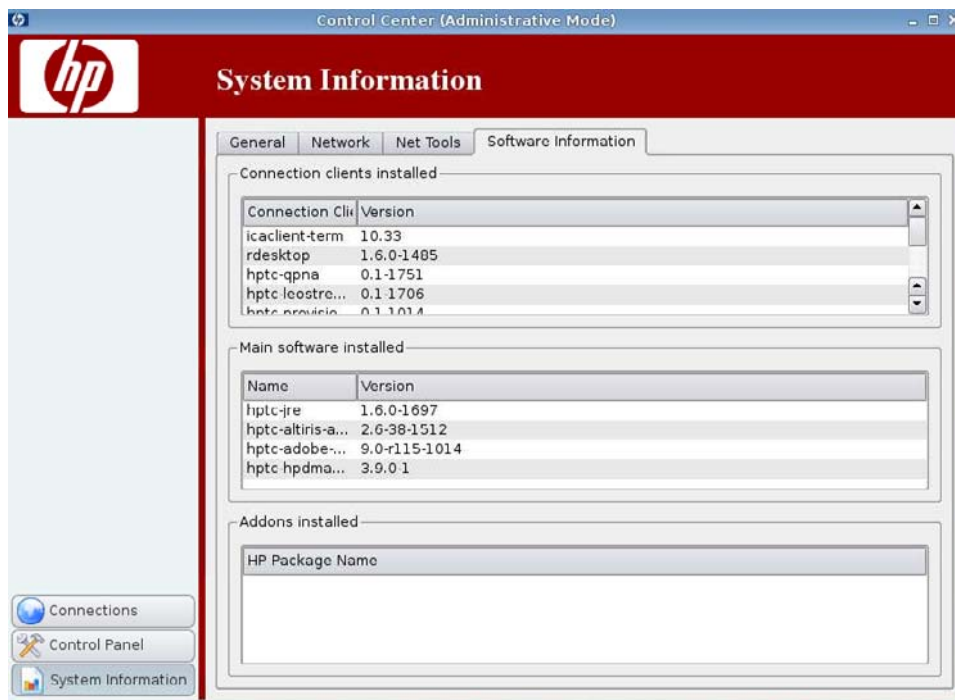
## Net Tools



The Net Tools screen allows you to set parameters for the following:

- Ping
- DNS Lookup
- Trace Route

## Software Information



The Software Information screen displays the following information:

- Connection clients installed
- Main software installed
- Addons installed

---

# Index

## A

- add printers 86
- adding connection
  - Citrix ICA 19
  - Custom 64
  - Firefox 41
  - ICA 19
  - Leostream 45
  - PNAgent 43
  - Provision 47
  - RDP 30
  - SSH 58
  - Teemtalk 35
  - Telnet 62
  - VDM 55
  - Xdmcp 56
- administrator, log in as 5
- Agent Config 71
- Altiris configuration 72

## B

- boot logo
  - create theme 69
  - install theme 70
  - remove theme 70
  - select theme 70

## C

- Citrix ICA
  - adding connection 19
  - Application options 25
  - Common Settings options 29
  - configuring connection 11
  - Connection options 22
  - Firewall options 26
  - Firewall settings 15
  - Keyboard Shortcuts settings 17
  - Local Resources settings 13
  - Network options 20

- options 19
- Options settings 12
- Server Location settings 16
- Smart Ping options 28
- Window options 23
- Window settings 14
- connect 6
- connection, adding
  - Citrix ICA 19
  - Custom 64
  - Firefox 41
  - ICA 19
  - Leostream 45
  - PNAgent 43
  - Provision 47
  - RDP 30
  - SSH 58
  - Teemtalk 35
  - Telnet 62
  - VDM 55
  - Xdmcp 56
- connections
  - add 18, 65
  - configuring 6
  - delete 65
  - edit 66
  - list of 18
- control panel
  - Altiris configuration 72
  - boot logo 68
  - date and time 73
  - desktop background 74
  - display preferences 75
  - ezUpdate 76
  - HP Agent Config 71
  - HP ThinState 93
  - keyboard 103
  - language 80
  - mouse 105

- network 81
- printer 85
- profile manager 89
- screen saver 90
- security 92
- shadowing 102
- software update 100
- sound 104
- ThinPrint 93
- touch screen 100
- user permissions 101
- window manager 106
- copy, connections 65
- Custom
  - adding connection 64
  - Configuration options 64
  - options 64

## D

- date and time 73
- delete printers 87
- delete, connections 65
- desktop background 74
- disconnect 7
- display preferences 75
- display s screen saver 91
- DSN, network 84

## E

- edit, connections 66
- ezUpdate
  - DHCP server deployment 80
  - server deployment 78

## F

- Firefox
  - adding connection 41
  - Advanced options 43
  - Configuration options 42
  - configuring connection 7



- General settings 8
- options 41
- Security settings 10
- Tabbed Browsing settings 9

## G

- general settings 7
- general system information 108

## H

- HP ThinPro 1
- HP ThinState 93

## I

- ICA
  - adding connection 19
  - Application options 25
  - common Settings options 29
  - configuring connection 11
  - Connection options 22
  - Firewall options 26
  - Firewall settings 15
  - Keyboard Shortcuts settings 17
  - Local Resources settings 13
  - Network options 20
  - options 19
  - Options settings 12
  - Server Location settings 16
  - Smart Ping options 28
  - Window options 23
  - Window settings 14
- image
  - thin client 1
- image, thin client 1
- installation 5
- interfaces, network 81

## J

- jobs, printer 88

## K

- keyboard 103

## L

- language 80
- Leostream
  - adding connection 45
  - Advanced options 47
  - Network options 46
  - options 45

## M

- modify printers 87
- mouse 105
- Multicast 72

## N

- net tools, system information 110
- network
  - DNS 84
  - general 83
  - interfaces 81
  - system information 109

## O

- options
  - Citrix ICA 19
  - Custom 64
  - Firefox 41
  - ICA 19
  - Leostream 45
  - PNAgent 43
  - Provision 47
  - RDP 30
  - SSH 58
  - Teemtalk 35
  - Telnet 62
  - VDM 55
  - Xdmcp 56

## P

- PNAgent
  - adding connection 43
  - Advanced options 45
  - Configuration options 44
  - options 43
- printer 85
- printer jobx 88
- printers
  - add 86
  - delete 87
  - list of 86
  - modify 87
- profile manager 89
- Provision
  - adding connection 47
  - Advanced options 54
  - Experience options 53
  - Local Resources options 52
  - Network options 48
  - Options 50

- options 47
- Window options 49

## R

- RDP
  - adding connection 30
  - Advanced options 35
  - configuring connection 17
  - Experience options 34
  - Local Resources options 33
  - Network options 30
  - Options 32
  - options 30
  - settings 17
  - Window options 31

## S

- screen saver
  - advanced 91
  - display s 91
- security 92
- shadowing 102
- software information, system information 111
- software update 100
- sound 104
- SSH
  - adding connection 58
  - Advanced options 61
  - Configuration options 59
  - options 58
- system information
  - general 108
  - net tools 110
  - network 109
  - software information 111

## T

- TCP 72
- Teemtalk
  - adding connection 35
  - adding connection manually 39
  - adding connection with wizard 36
  - advanced options 38, 41
  - configuration options 40
  - connection information 37
  - finalization 39
  - options 35

## Telnet

- adding configuration 62
- Advanced options 63, 65
- Configuration options 62
- options 62

thin client image 1

thin client, installation 5

ThinPrint 93

ThinPro 1

## ThinState

- capture full image to USB drive 97
- capture thin client settings to USB drive 93
- deploy captured settings from USB drive 96
- deploy full image to FTP site 98

time and date 73

touch screen 100

## U

### user

- interface, HP ThinPro 1
- log in as 5
- permissions 101

## V

### VDM

- adding connection 55
- Advanced options 56
- Network options 55
- options 55

## W

window manager 106

## X

### Xdmcp

- adding connection 56
- Advanced options 58
- Configuration options 57
- options 56