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.

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 24

Firewall 25

Smart Ping 27

Common Settings 28

RDP 29

Network 29

Window 30

Options 31

Local Resources 32

Experience 33
Advanced 34
Teemtalk 34
Adding a Teemtalk Connection using the Teemtalk Creation Wizard 35
Adding a Teemtalk Connection Manually 38
Firefox 40
Configuration 41
Advanced 42
PNAgent 42
Configuration 43
Advanced 44
Leostream 44
Network 45
Advanced 46
Provision 46
Network 47
Window 48
Options 49
Local Resources 51
Experience 52
Advanced 53
VMware View 54
Network 54
Options 56
Advanced 57
Xdmcp 58
Configuration 58
Advanced 59
SSH 59
Configuration 60
Advanced 62
Telnet 63
Configuration 63
Advanced 64
Custom 65
Configuration 65
Advanced 66
Copy 66
Delete 66
Edit 67
Control Panel 68
Boot Logo 69
Create a Theme 70

Install a Theme 71
Select this Theme 71
Remove this Theme 71
HP Agent Config 72
Altiris Configuration 73
Date and Time 74
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 87
Profile Manager 88
Screensaver 90
Display Modes Tab 90
Advanced Tab 91
Security 91
ThinPrint 92
HP ThinState Utility 92
Capture Thin Client Settings to USB Drive 93
Deploy Captured Settings from a USB Drive 95
Capture a Thin Client Full Image to a USB Drive 96
Deploy a Full Image to an FTP Site 97
Touch Screen 99
Software Update 99
User Permissions 100
Shadowing 101
Keyboard 102
Sound 103
Mouse 104
Window Manager 105
System Information 107
General 107
Network 108

Net Tools 109
Software Information 110

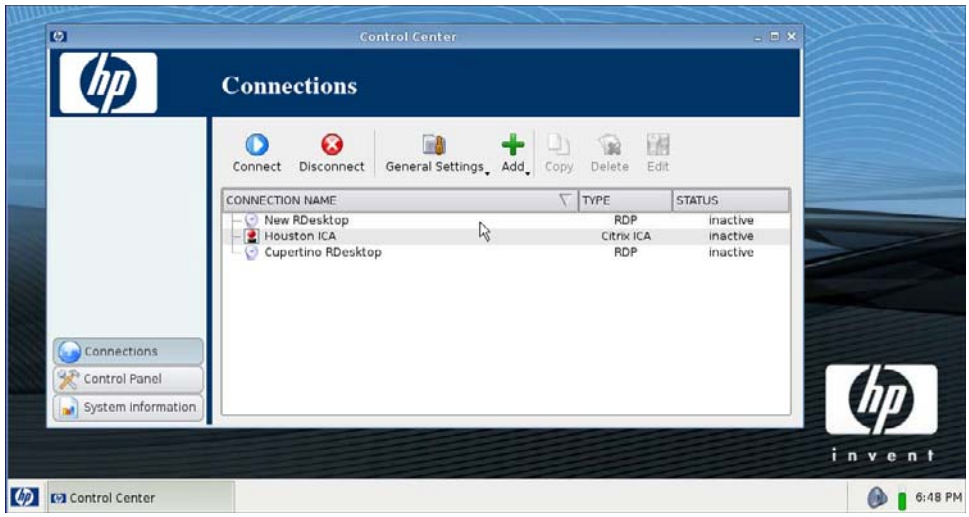
Index 111

1 Introduction

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

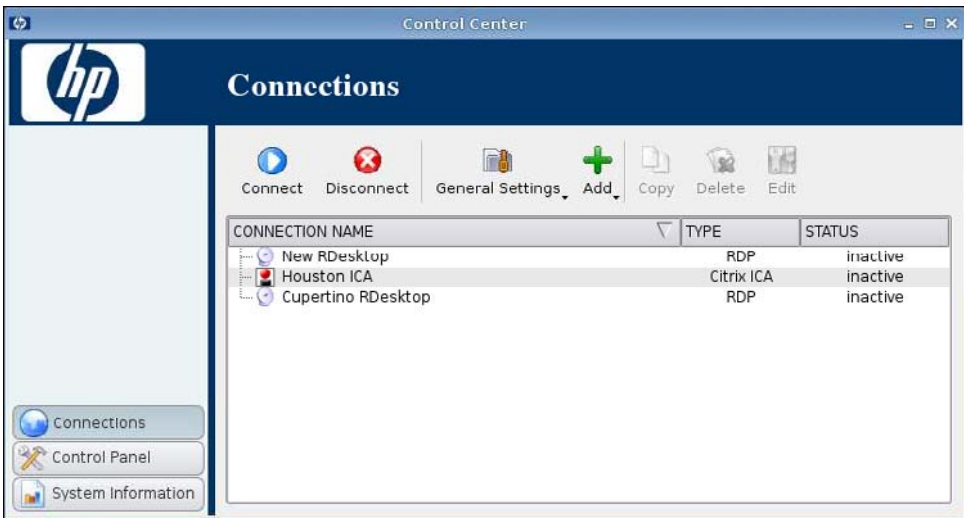
The HP ThinPro operating system provides access to Windows, Citrix, mainframes, mid-range servers, Unix/Linux hosts, and Web applications. A single console provides a streamlined and customizable user interface. Integrated support for virtualization brokers such as HP SAM, Citrix XDI, Leostream, VMware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

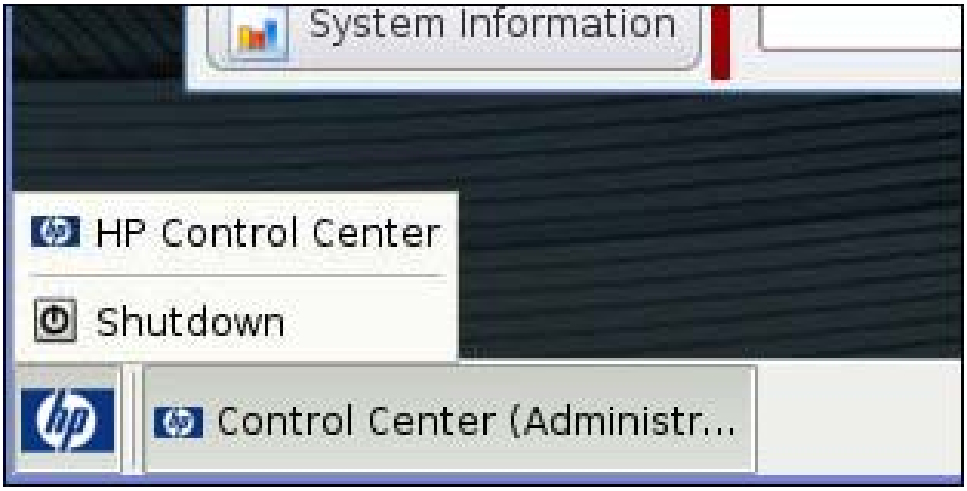
HP ThinPro allows you to launch and manage host and remote application connections by creating an ICA, PNAgent, RDP, TeemTalk, Leostream, Provision Networks, VMware View, X Windows, or Firefox connection. When logged in as Administrator, you can define which connections and connection types are visible 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:

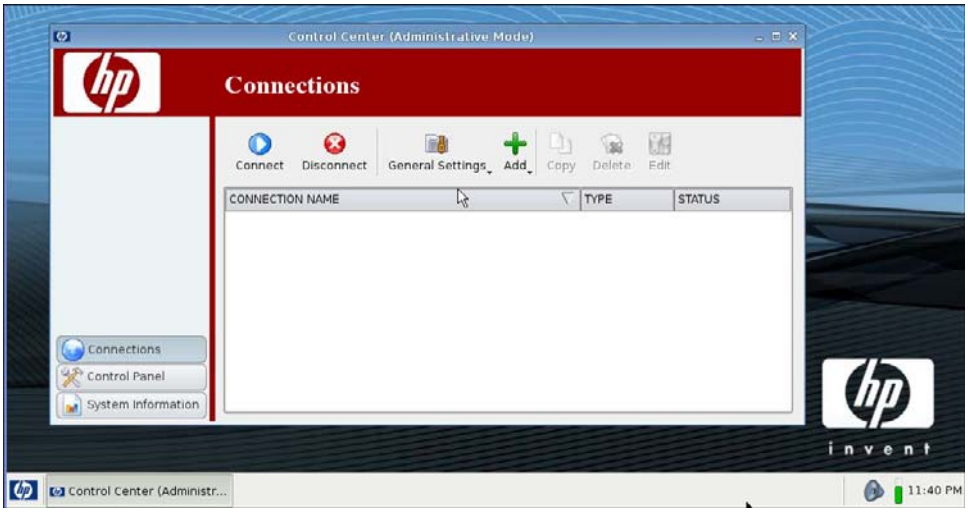
1. Click the HP logo in the bottom left of the screen and select **Shutdown**.



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, TeemTalk, Leostream, Provision Networks, VMware View, 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.

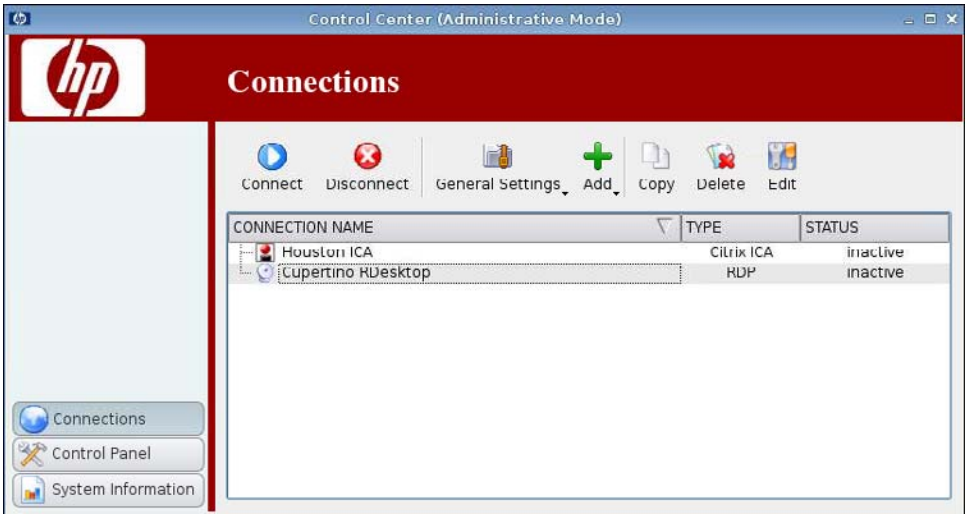
NOTE: Double-click any displayed connection to activate that connection.

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

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, VMware View, 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 66: Click to copy a connection and add it to the list of available connections.
- Delete on page 66: 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 67: 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.

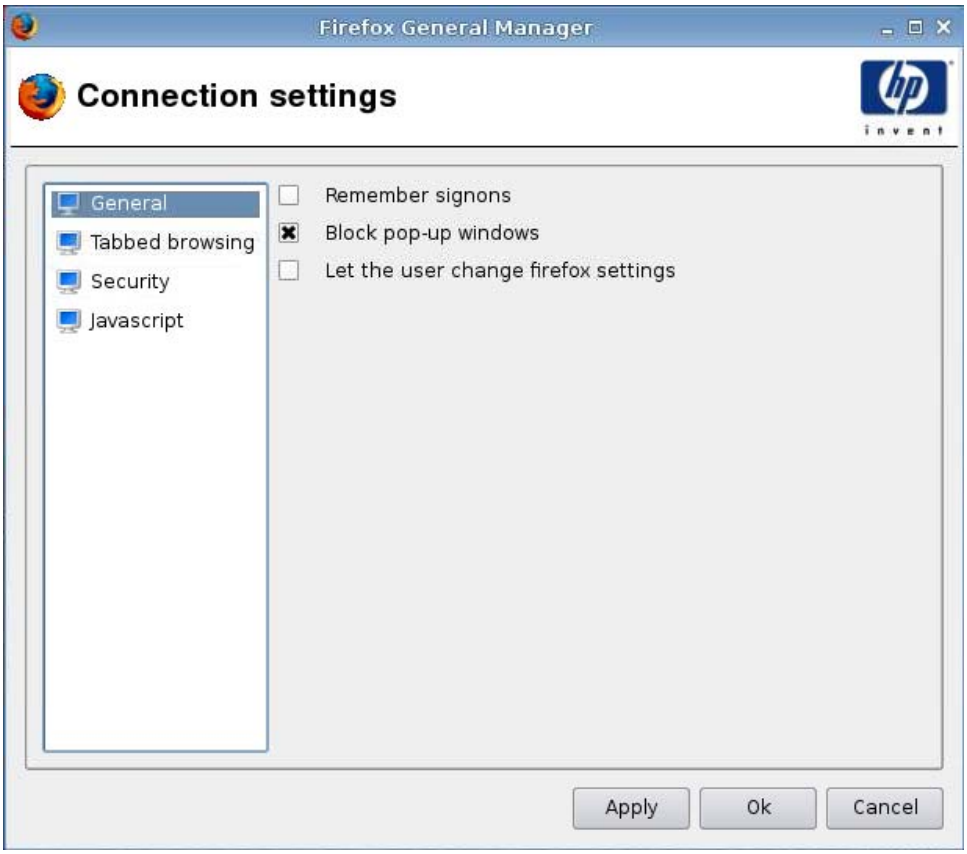
Three types of connections are available:

- 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.

Security

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

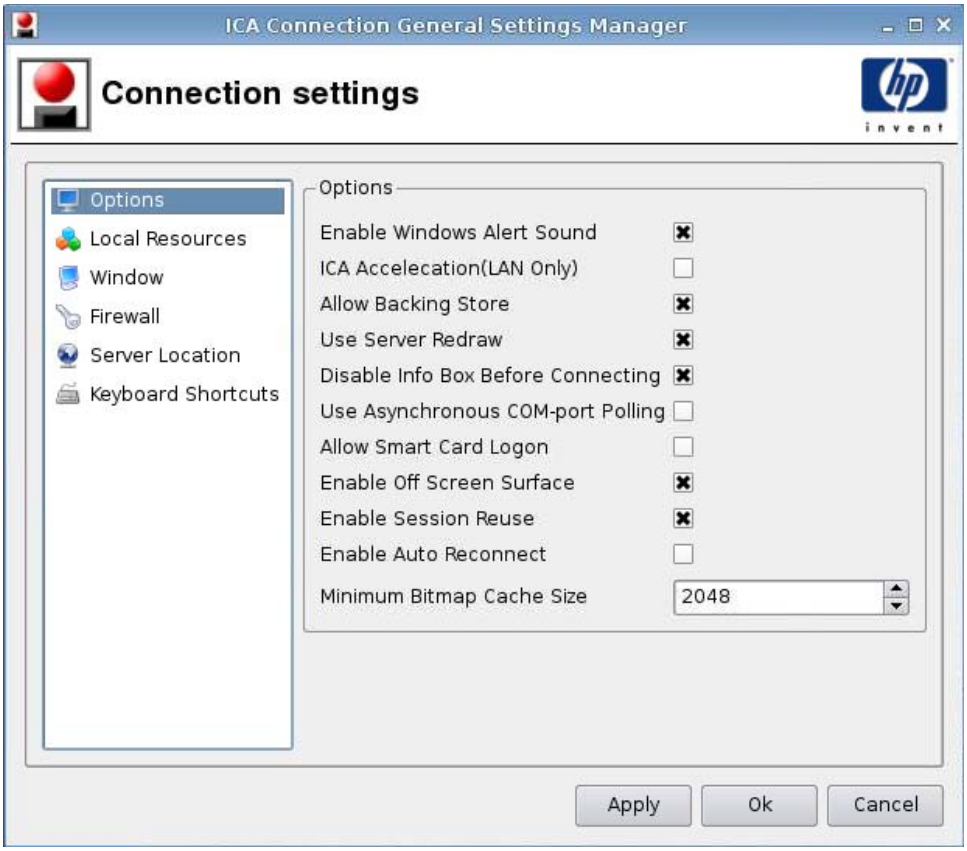
—submitting information to an unsecure site

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

Citrix ICA

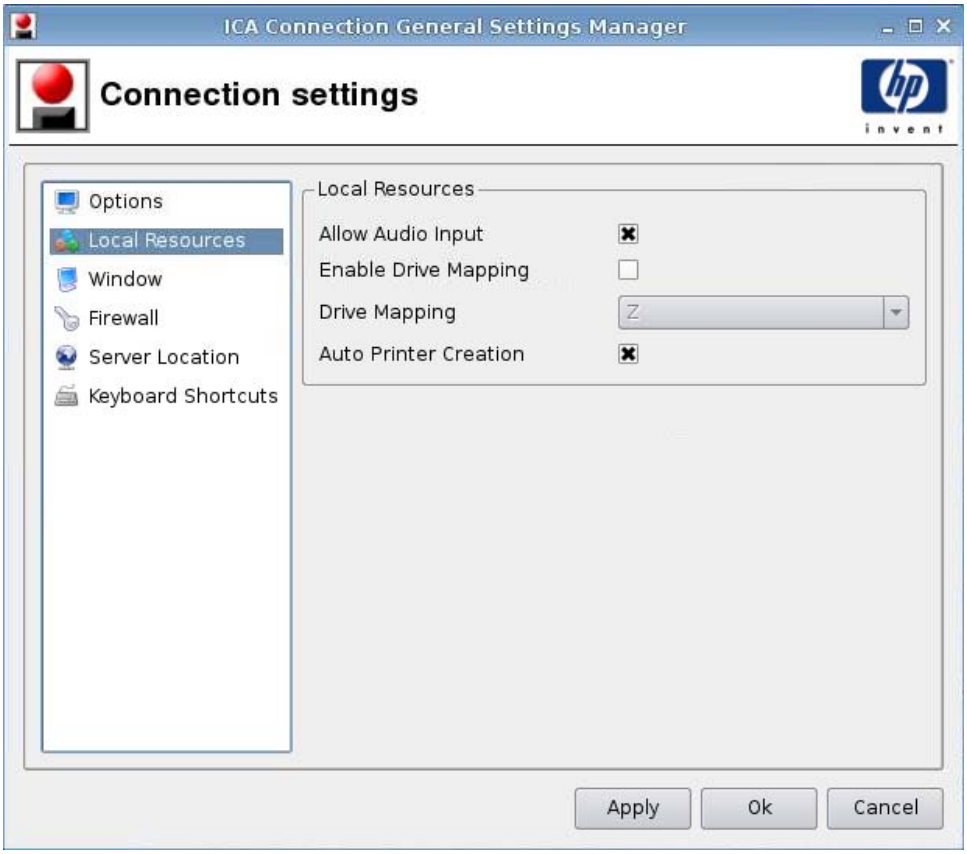
1. Go to **Connections** > **General Settings**.
2. Select **Citrix ICA** and set the following options:
   - Options on page 12
   - Local Resources on page 13
   - Window on page 14
   - Firewall on page 15
   - Server Location on page 16
   - Keyboard Shortcuts on page 17

Options



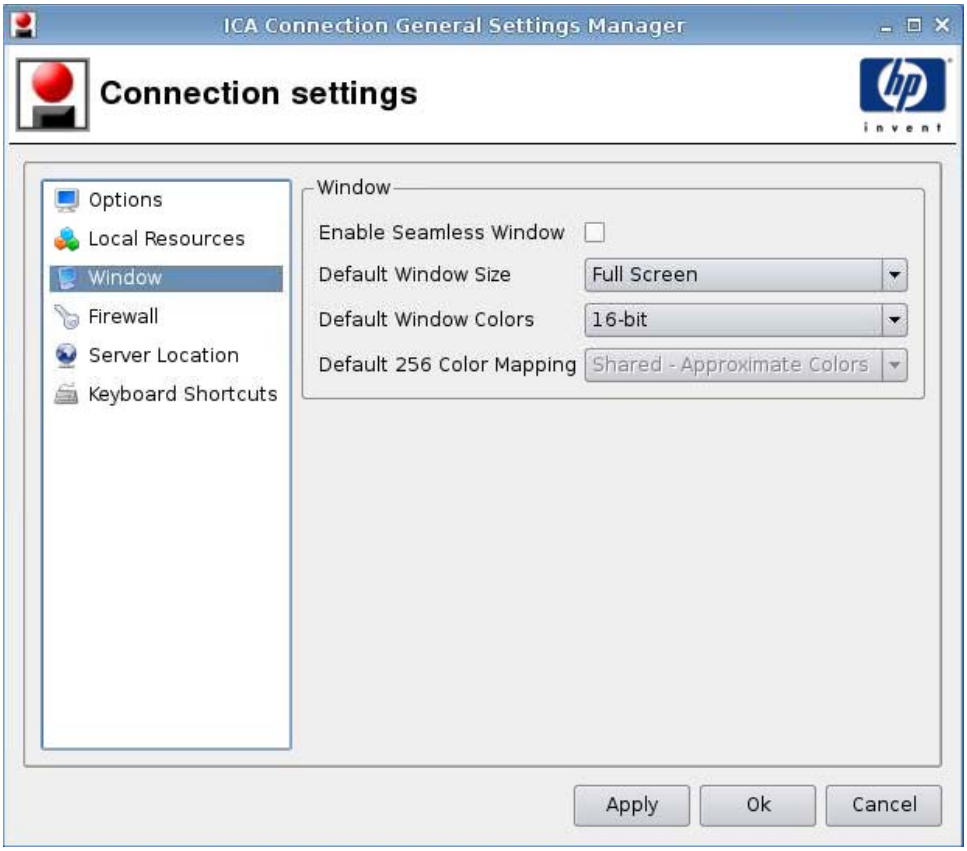
1. Set the following options:
   - **Options**
     - **Enable Windows Alert Sound**
     - **ICA Acceleration (LAN Only)**
     - **Allow Backing Store**
     - **Use Server Redraw**
     - **Disable Info Box Before Connecting**
     - **Use Asynchronous COM-port Polling**
     - **Allow Smart Card 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



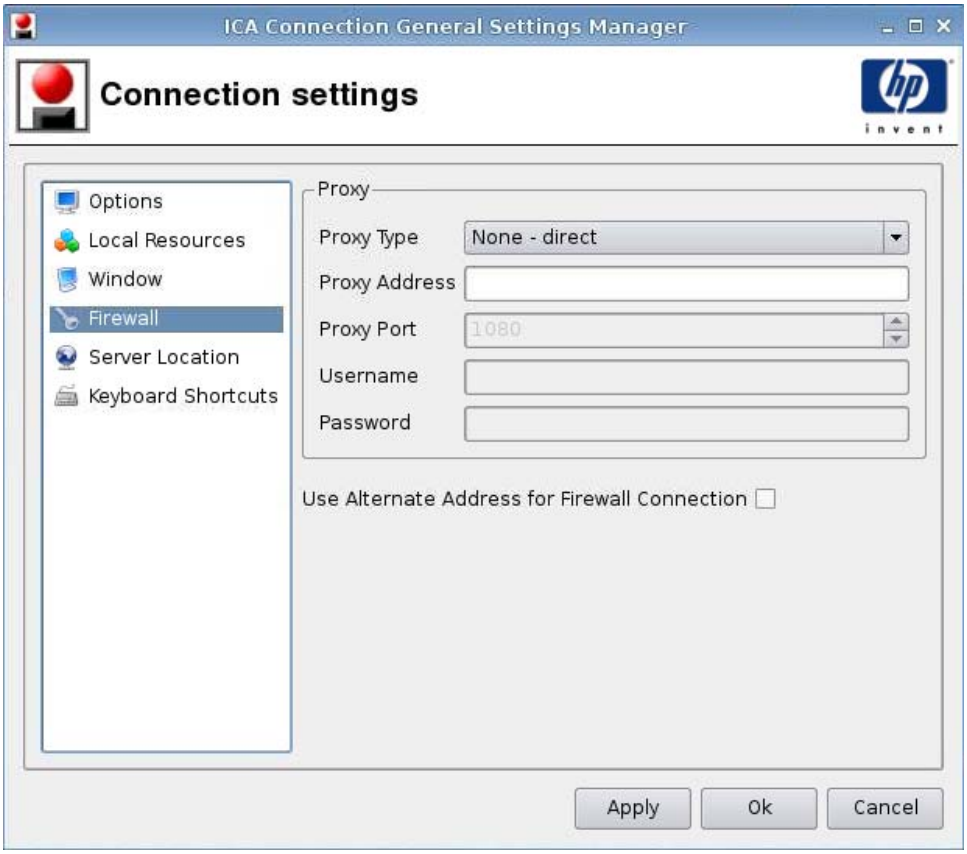
1. Set the following options:
   - **Allow Audio Input**
   - **Enable Drive Mapping**
   - **Drive Mapping**
   - **Auto Printer Creation**
2. Click **Apply** to apply your settings.
3. Click **Ok** when you have finished configuring connecting settings.

Window



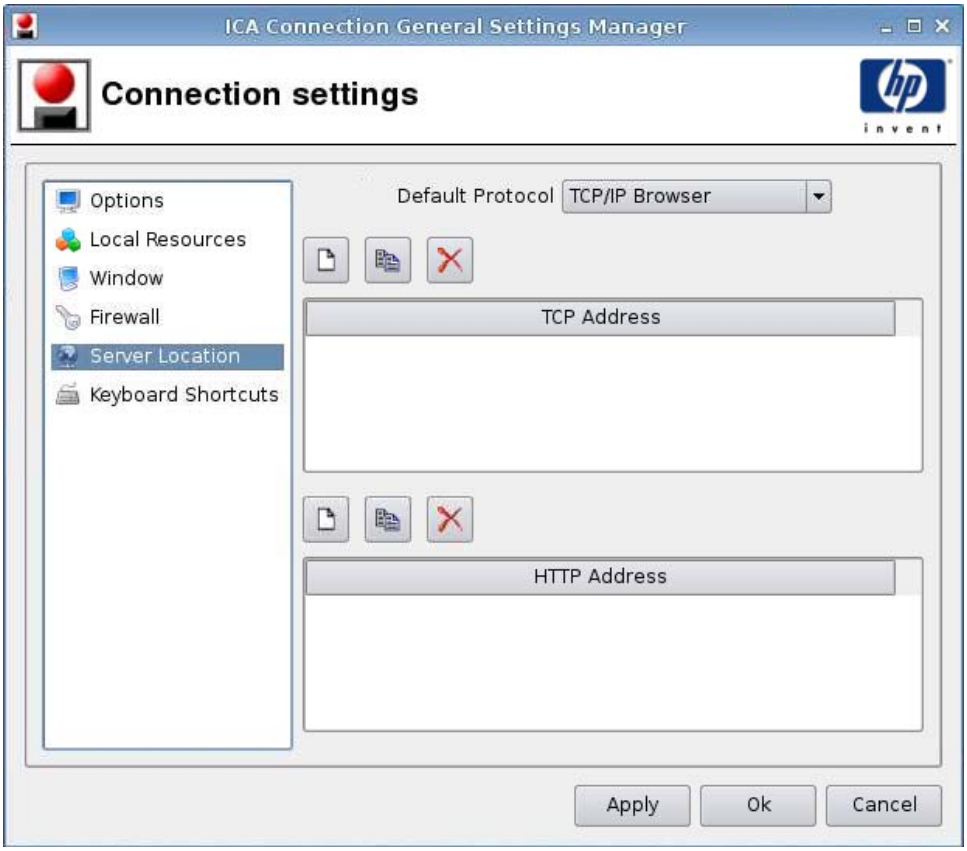
1. Set the following options:
   - **Enable Seamless Window**
   - **Default Window Size**
   - **Default Window Colors**
   - **Default 256 Color Mapping**
2. Click **Apply** to apply your settings.
3. Click **Ok** when you have finished configuring connecting settings.

Firewall



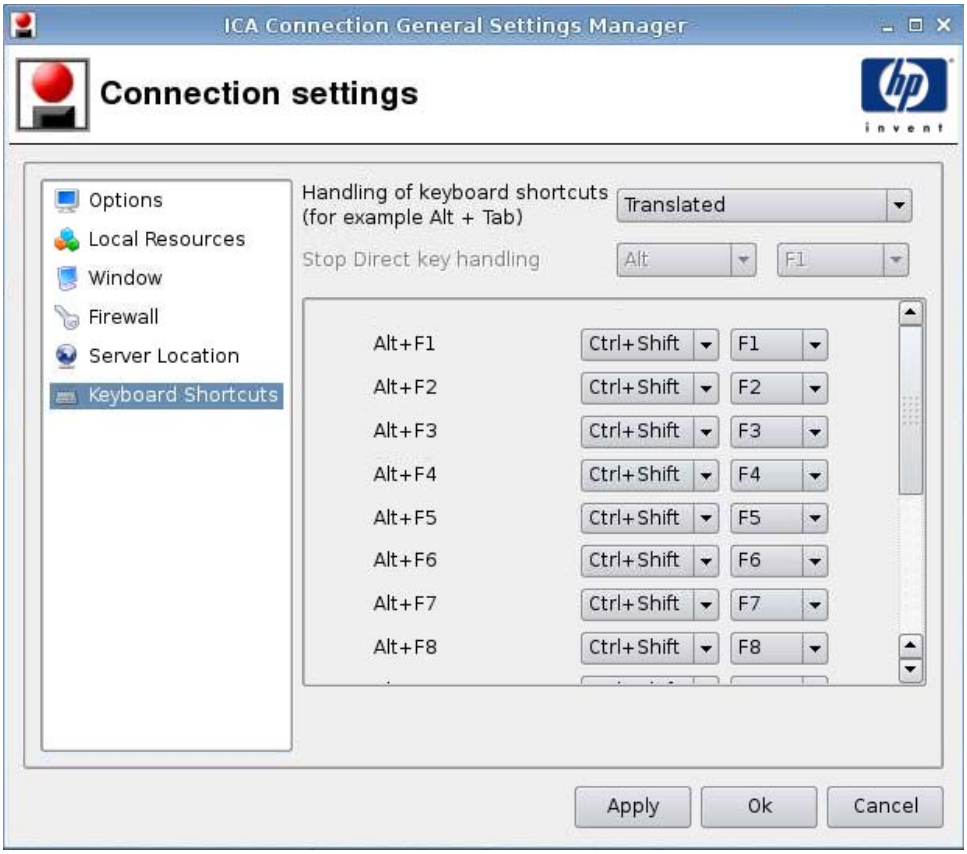
1. Set the following options:
   - **Proxy**
     - **Proxy Type**
     - **Proxy Address**
     - **Proxy Port**
     - **Username**
     - **Password**
   - **Use Alternate Address for Firewall Connection**
2. Click **Apply** to apply your settings.
3. Click **Ok** when you have finished configuring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

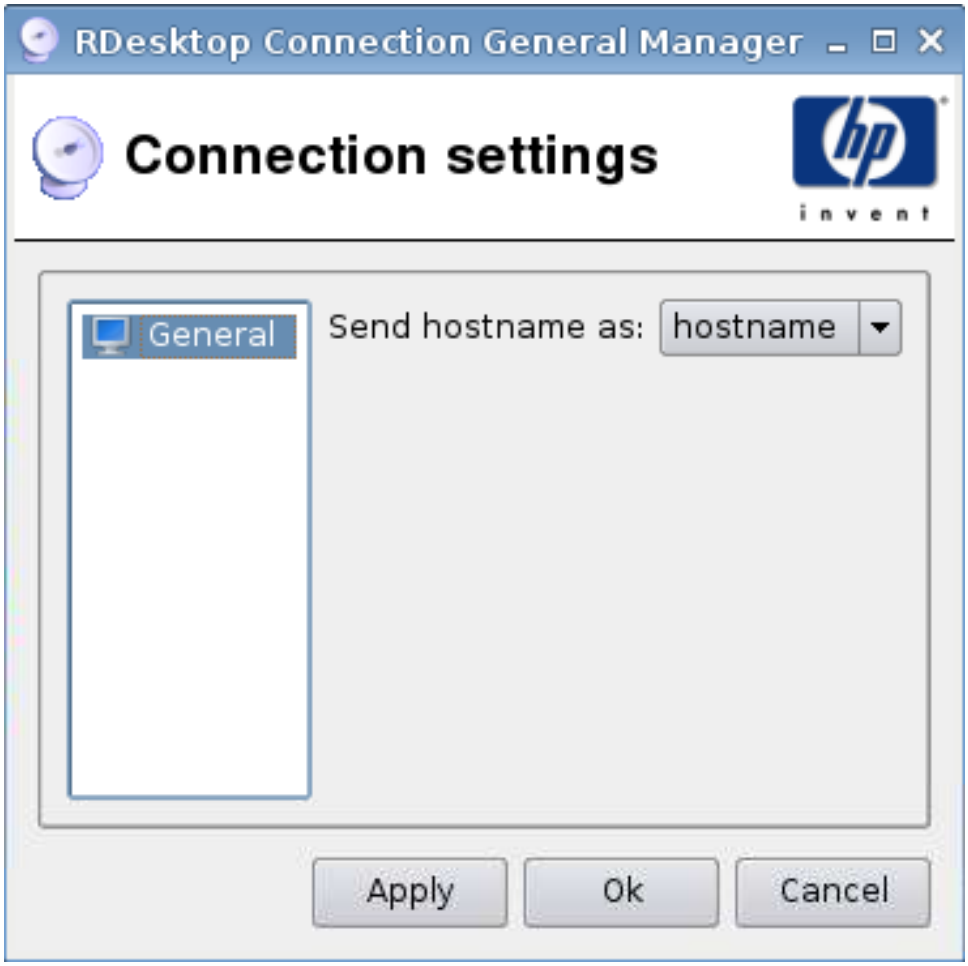
Keyboard Shortcuts



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:

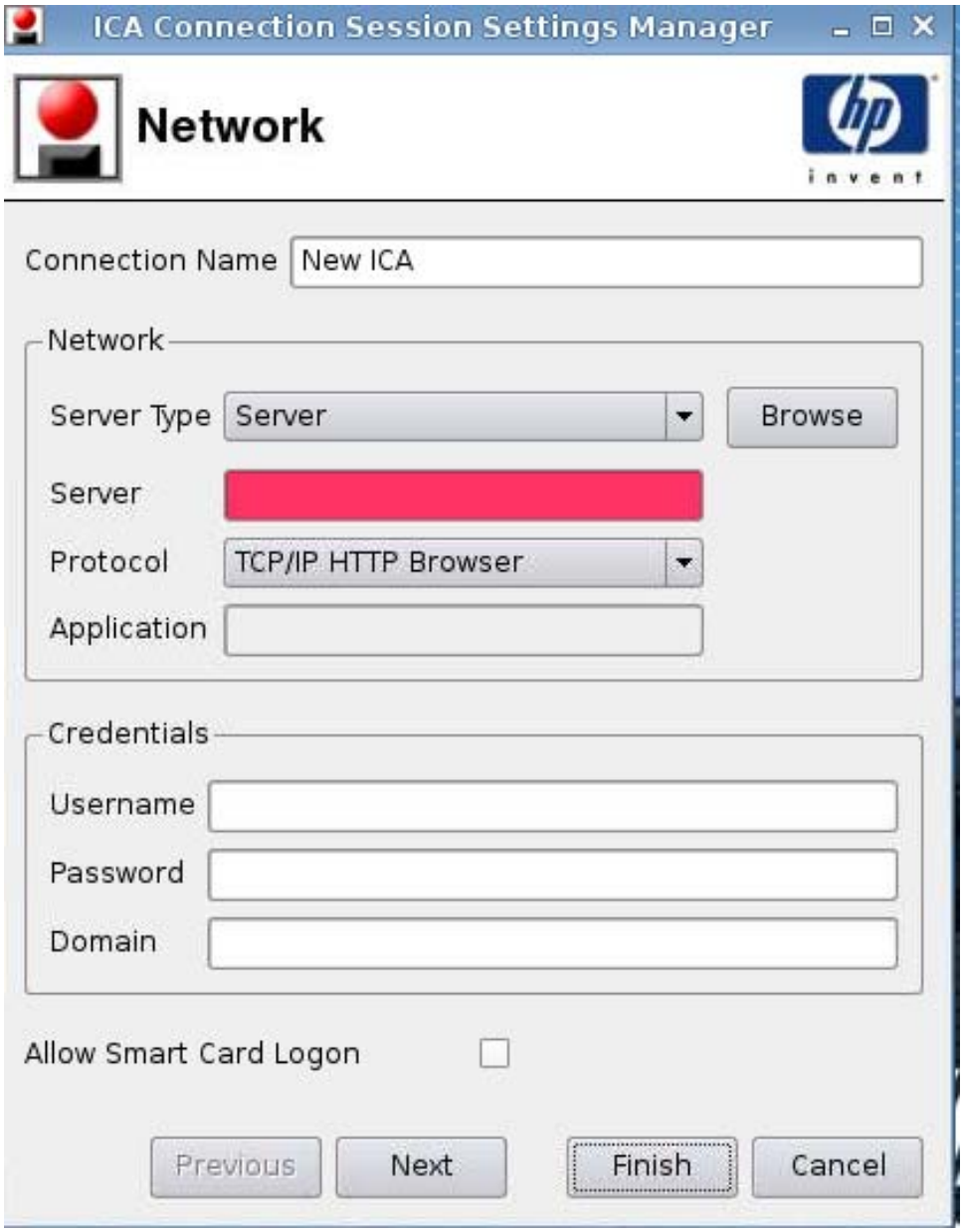
- Citrix ICA on page 19
- RDP on page 29
- Teemtalk on page 34
- Firefox on page 40
- PNAgent on page 42
- Leostream on page 44
- Provision on page 46
- VMware View on page 54
- Xdmcp on page 58
- SSH on page 59

- Telnet on page 63
- Custom on page 65

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 24
   - Firewall on page 25
   - Smart Ping on page 27
   - Common Settings on page 28

Network



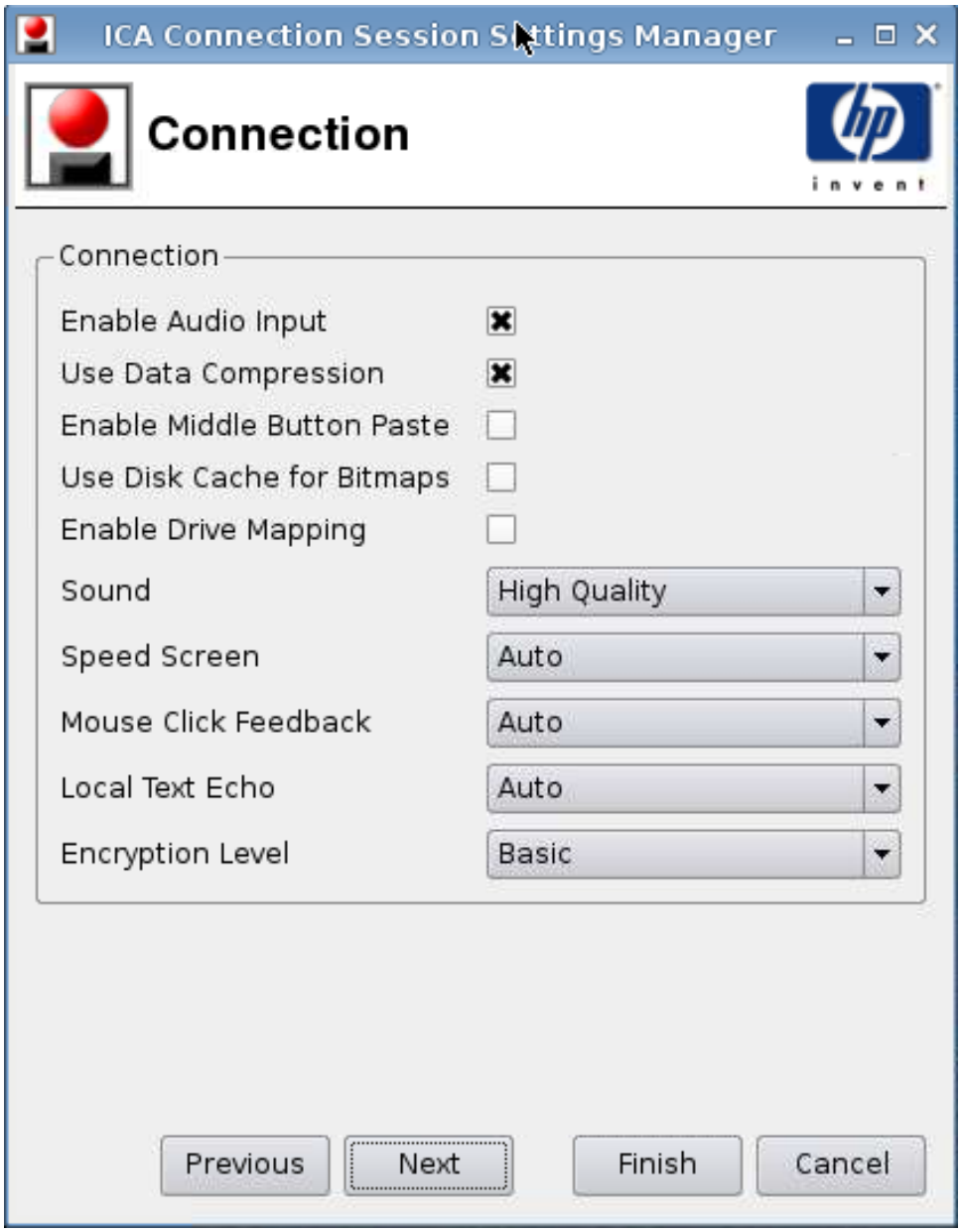
NOTE: A pink field indicates required information. You may not finish or advance to a new page without supplying information in this field.

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.

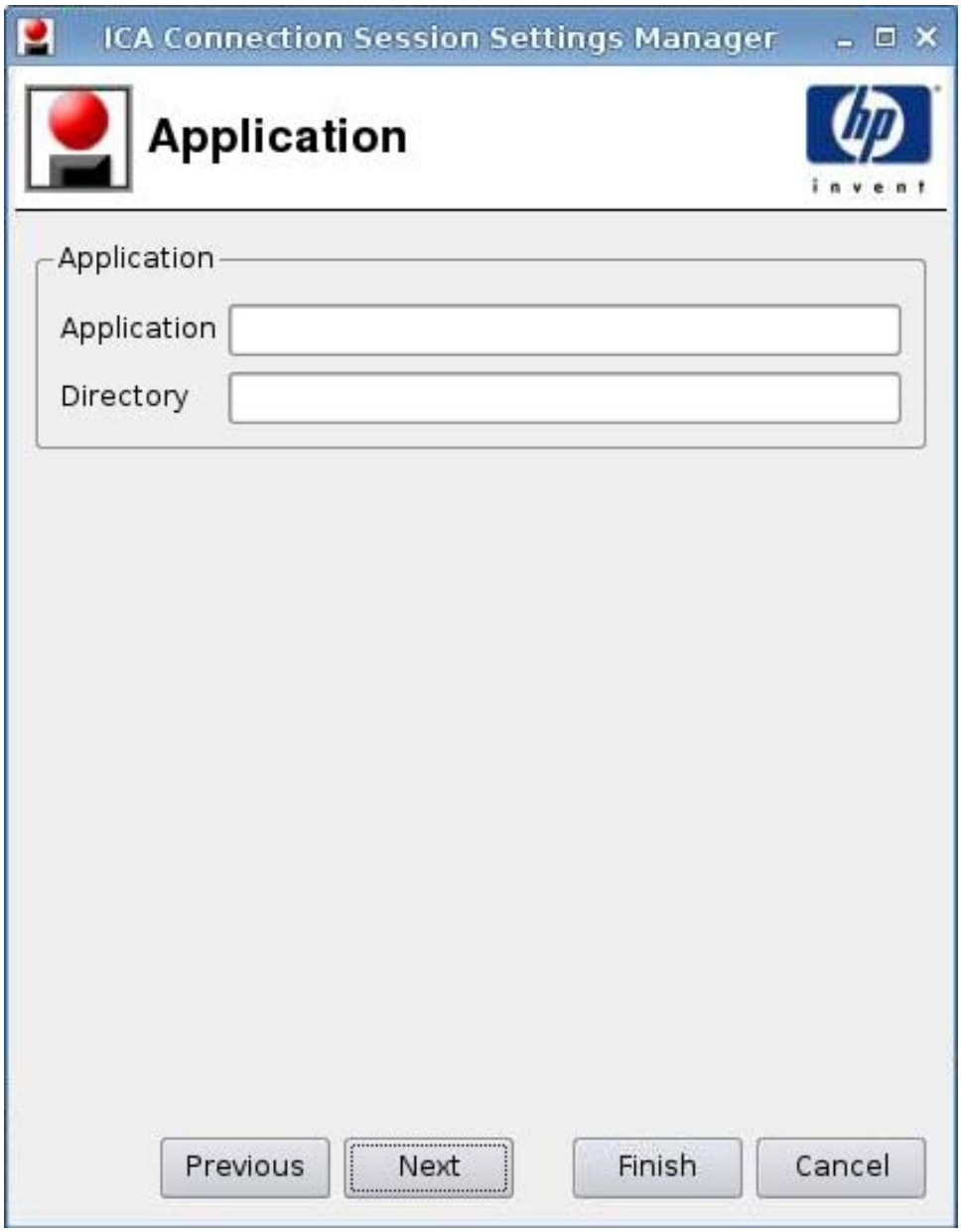
Window

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

- **Window Colors**
- **256 Color Mapping**

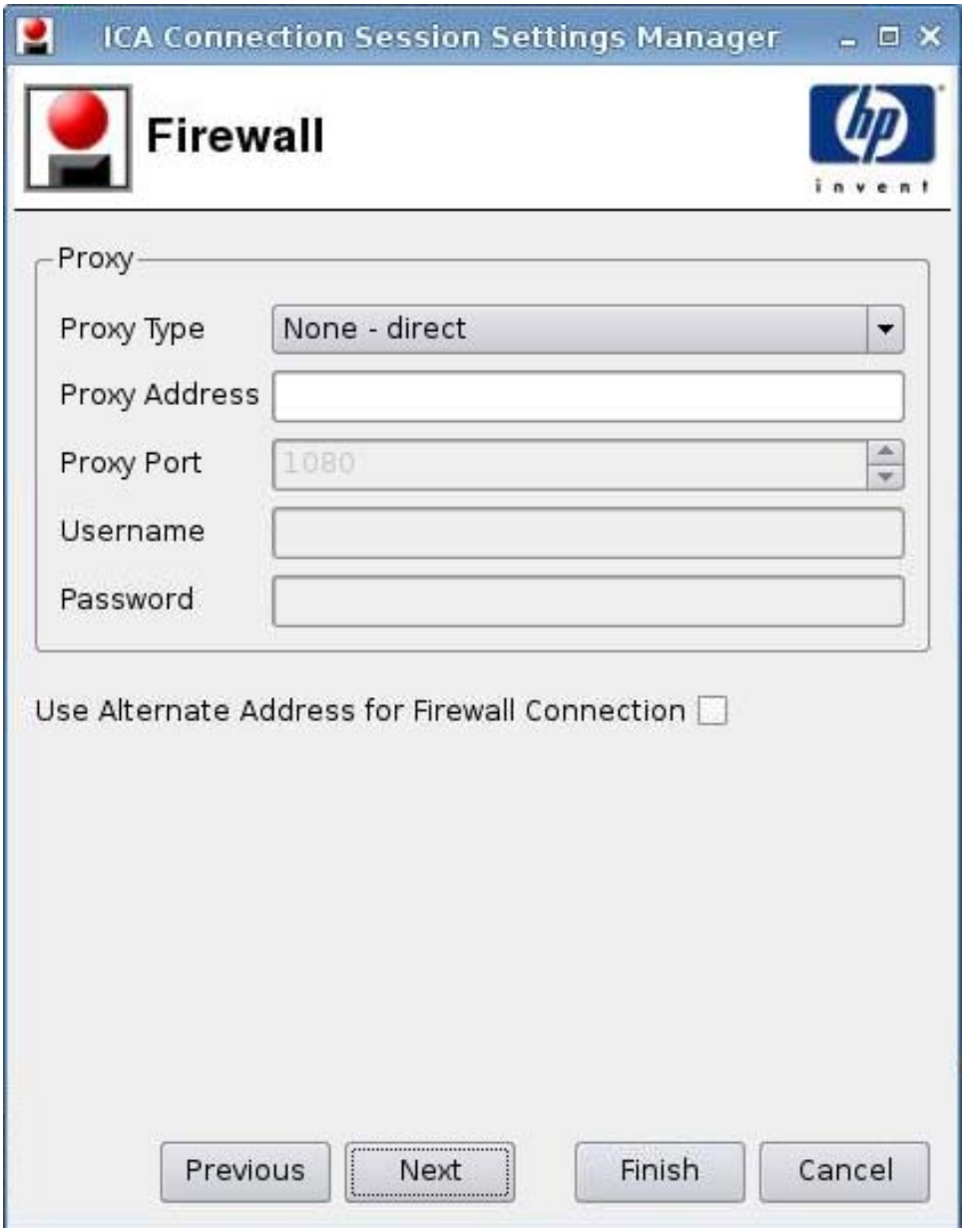
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

Application



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



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**

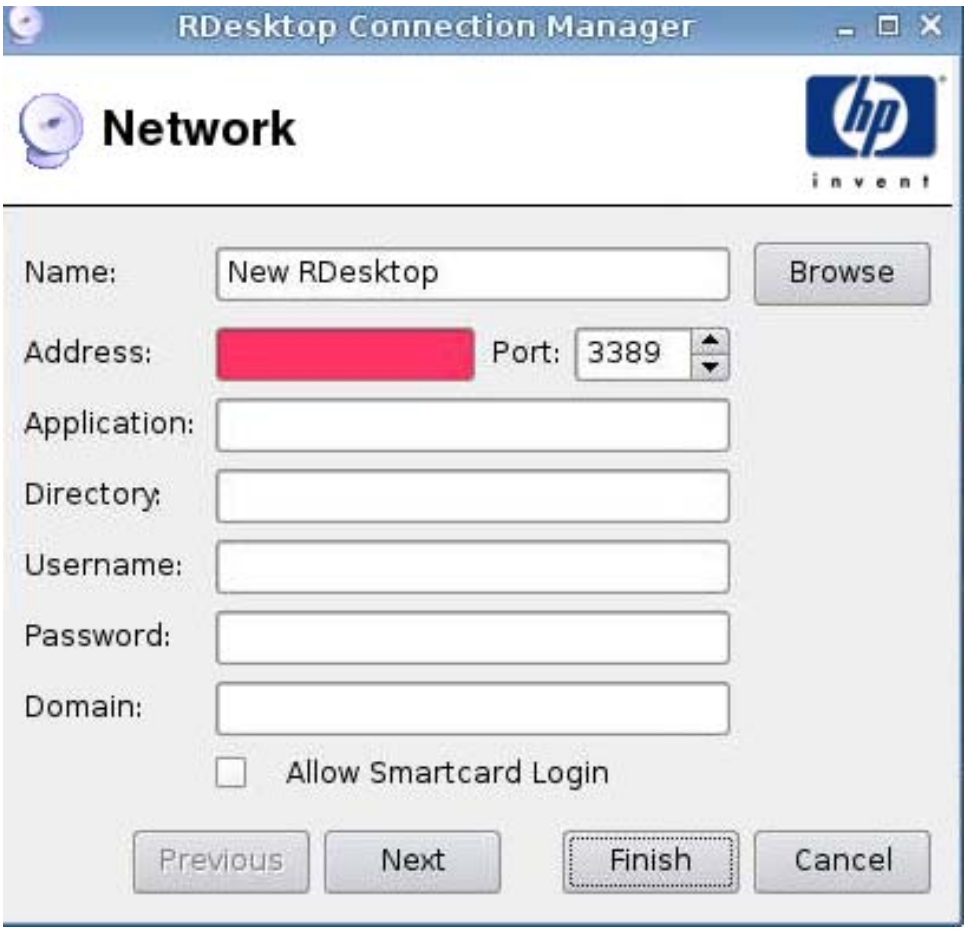
   NOTE: This option is only available in the Administrative Mode.

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 29
   - Window on page 30
   - Options on page 31
   - Local Resources on page 32
   - Experience on page 33
   - Advanced on page 34

Network



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

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

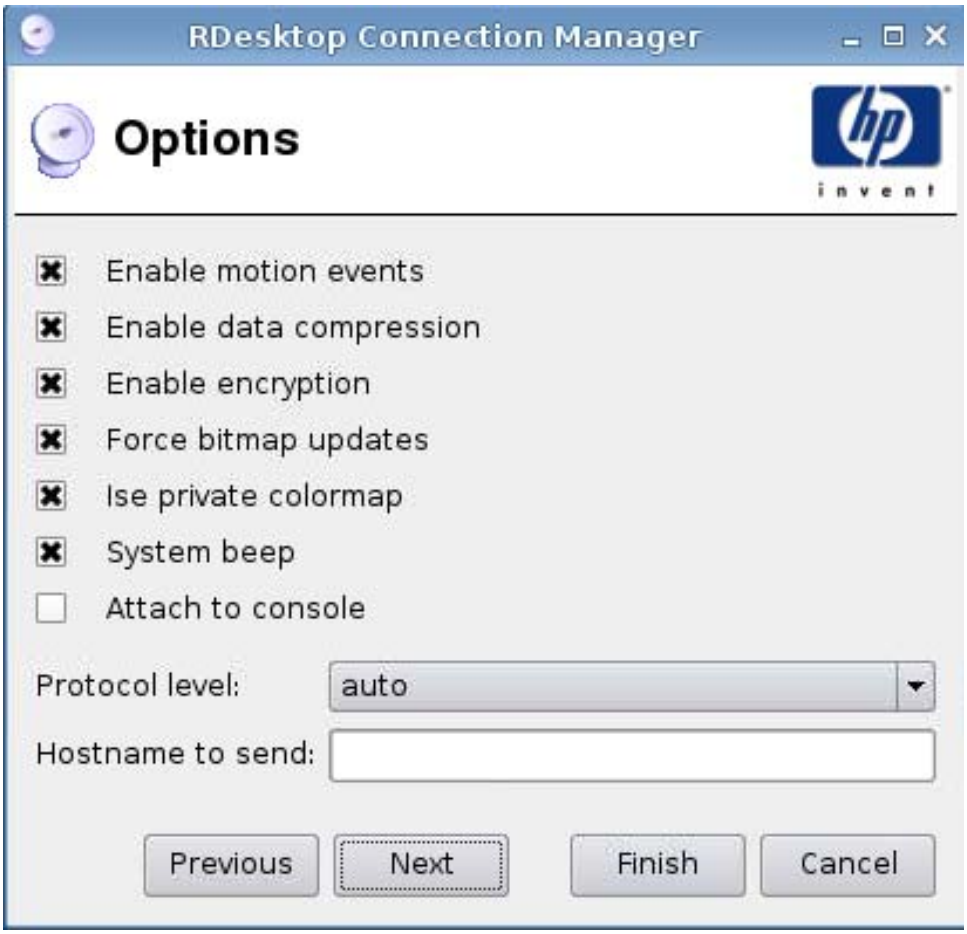
       —**Width**

—**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.

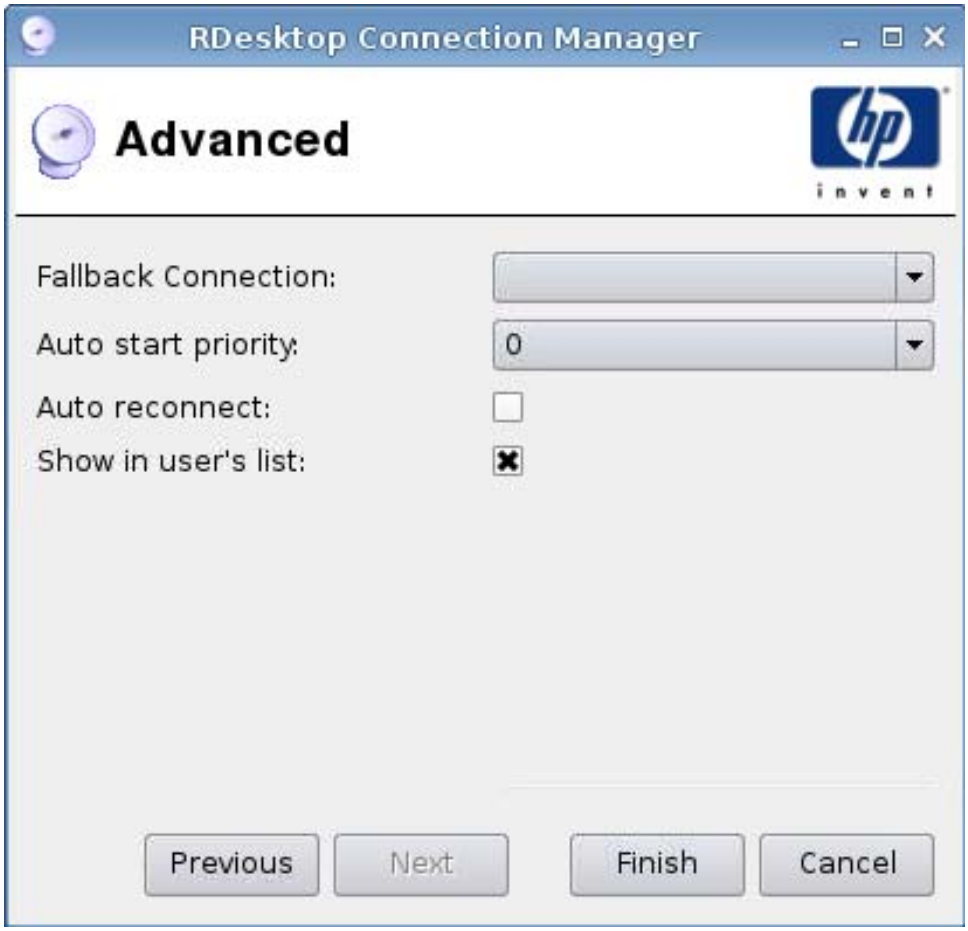
Local Resources

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 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**

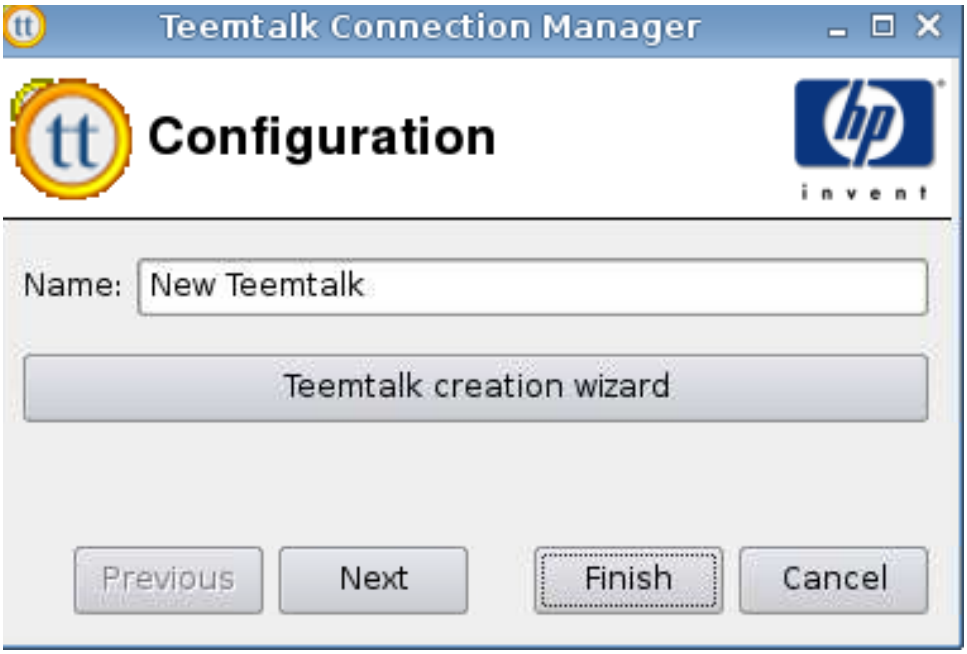
   NOTE: This option is only available in the Administrative Mode.
2. Click **Finish** save your settings and close the dialog box.

Teemtalk

You can add a new Teemtalk connection in two ways:

- Adding a Teemtalk Connection using the Teemtalk Creation Wizard on page 35
- Adding a Teemtalk Connection Manually on page 38

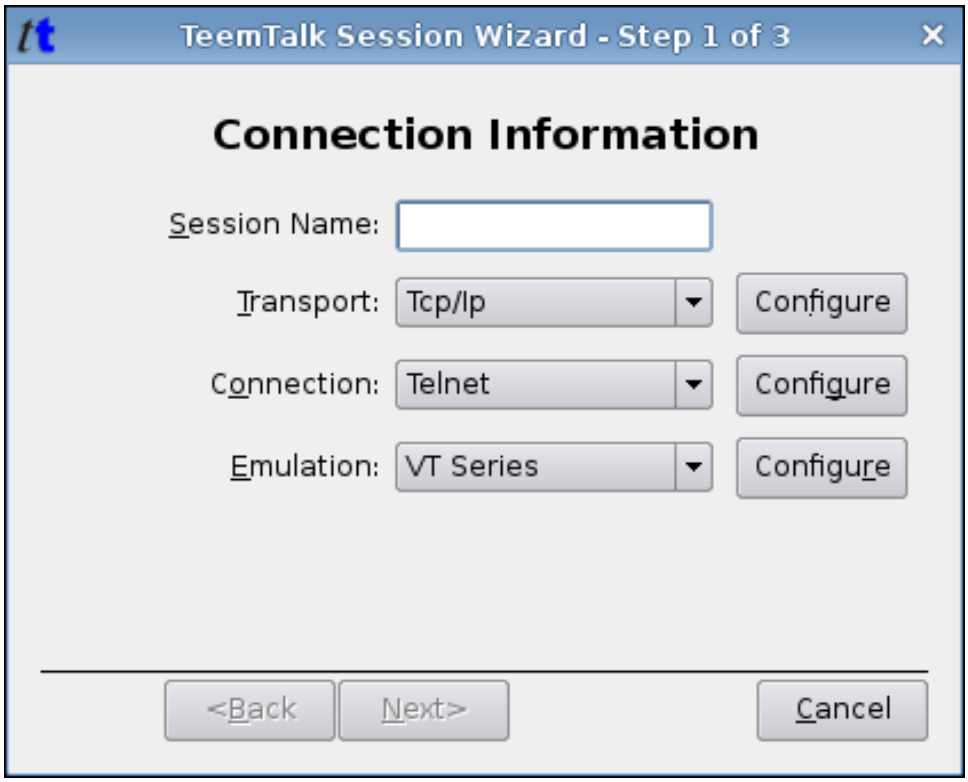
For more information on Teemtalk, see *HP TeemTalk Terminal Emulator 7.0 User Guide* at http://bizsupport.austin.hp.com/bc/docs/support/SupportManual/c01534810/c01534810.pdf.



Adding a Teemtalk Connection using the Teemtalk Creation Wizard

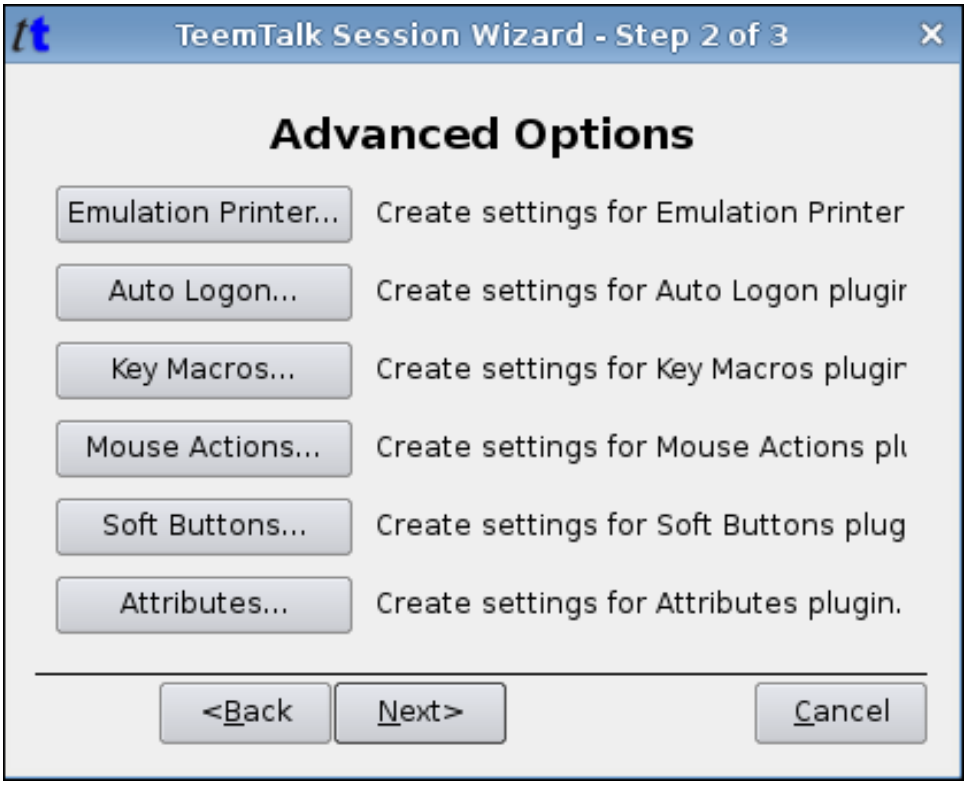
1. To add a Teemtalk connection using the wizard, click **Connections** > **Add**.
2. Select **Teemtalk** and click **Teemtalk creation wizard**.

Connection Information



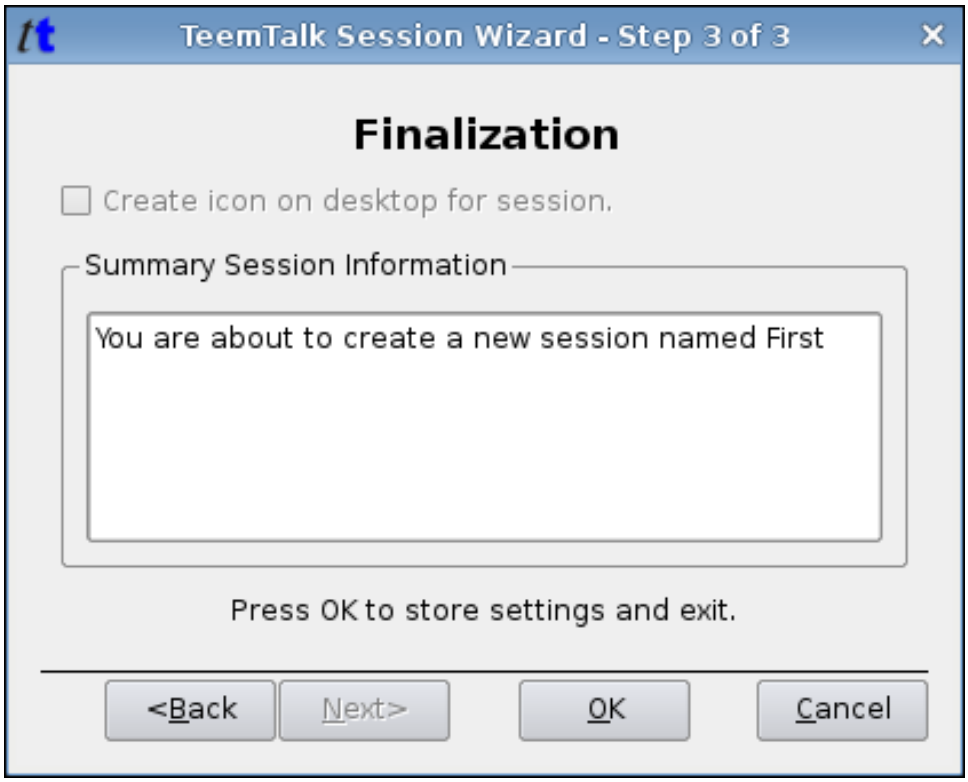
1. Select and configure the **Connection Information**:
   - **Session Name**
   - **Transport** type
   - **Connection** type
   - **Emulation** type
2. Click **Next**.

Advanced Options



1. Set the **Advanced Options**:
   - **Emulation Printer**
   - **Auto Logon**
   - **Key Macros**
   - **Mouse Actions**
   - **Soft Buttons**
   - **Attributes**
2. Click **Next**.

Finalization

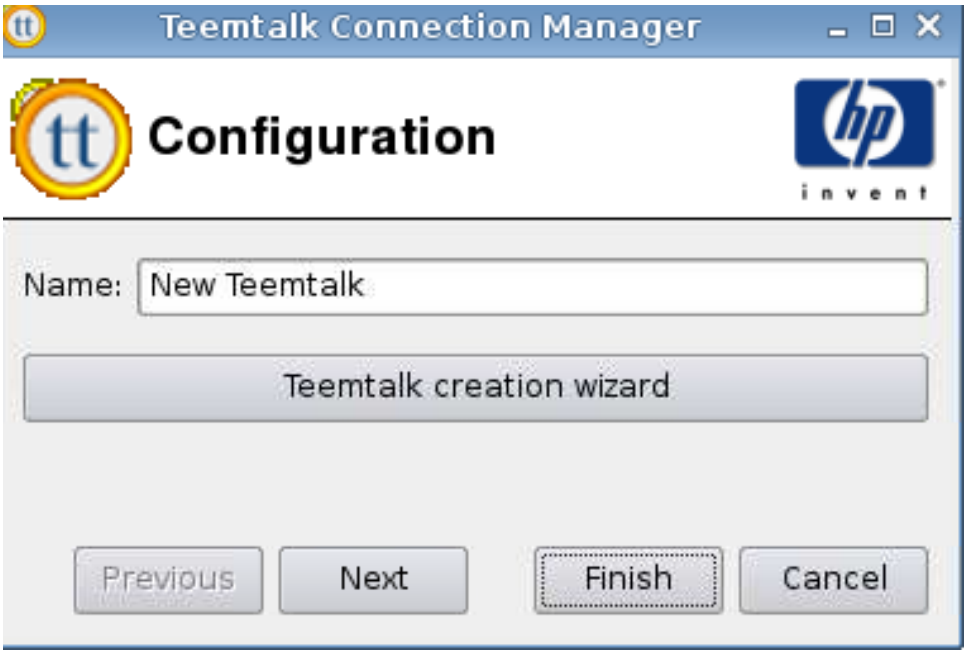


1. Select whether or not to create an icon on the desktop and click **OK**.
2. Click **Finish** to save your settings and close the dialog box.

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

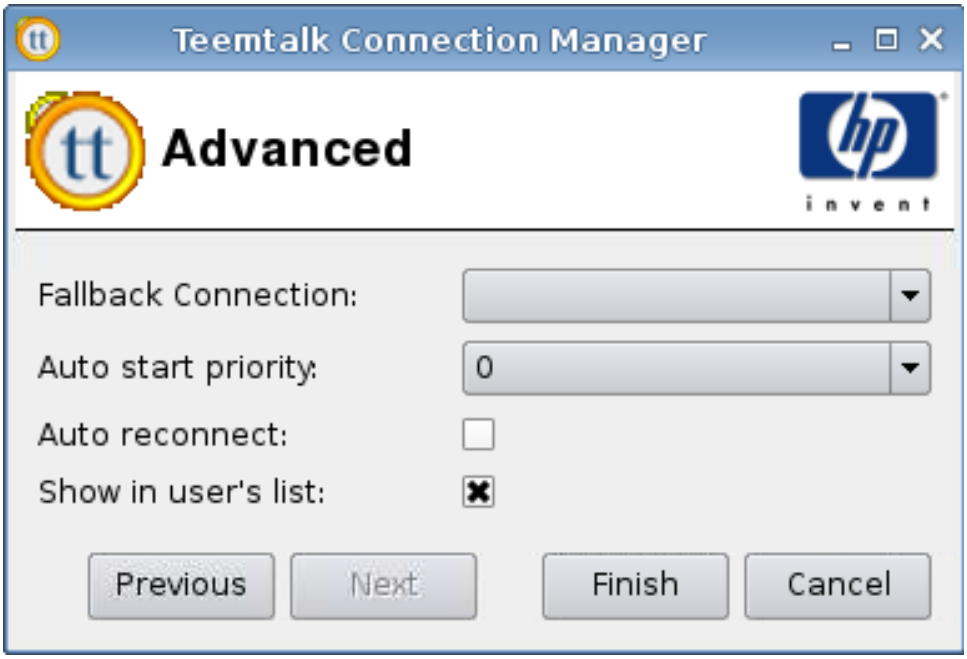


1. Set the following option:

   - **Name**

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

Advanced



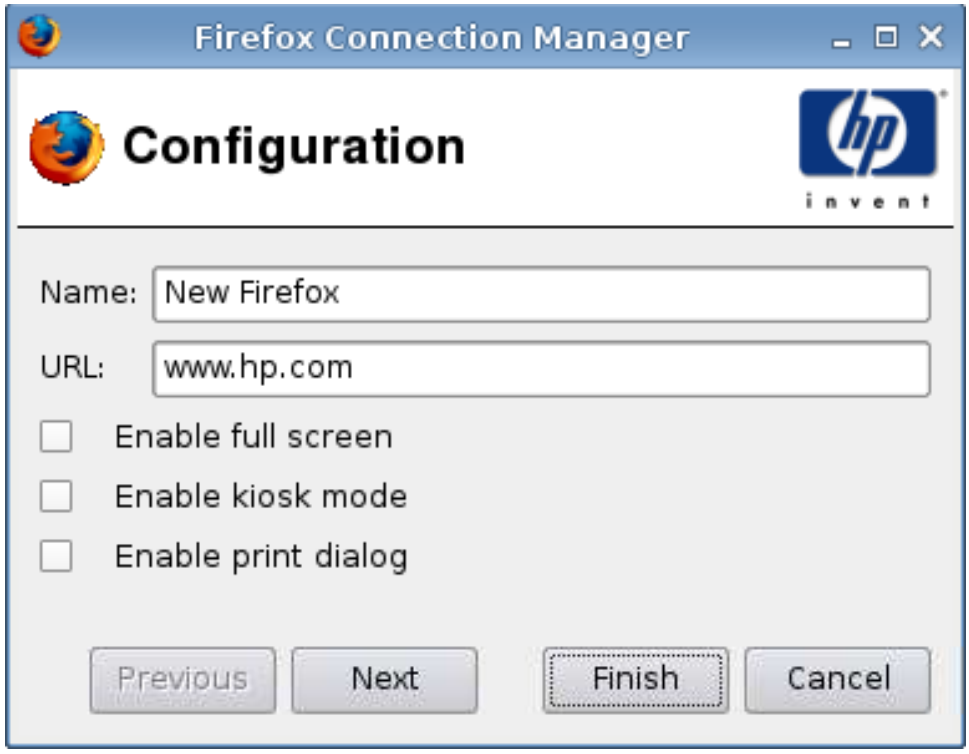
1. Set the following options:
   - **Fallback Connection**
   - **Auto start priority**
   - **Auto reconnect**
   - **Show in user's list**

   NOTE: This option is only available in the Administrative Mode.
2. Click **Finish** save your settings and close the dialog box.

Firefox

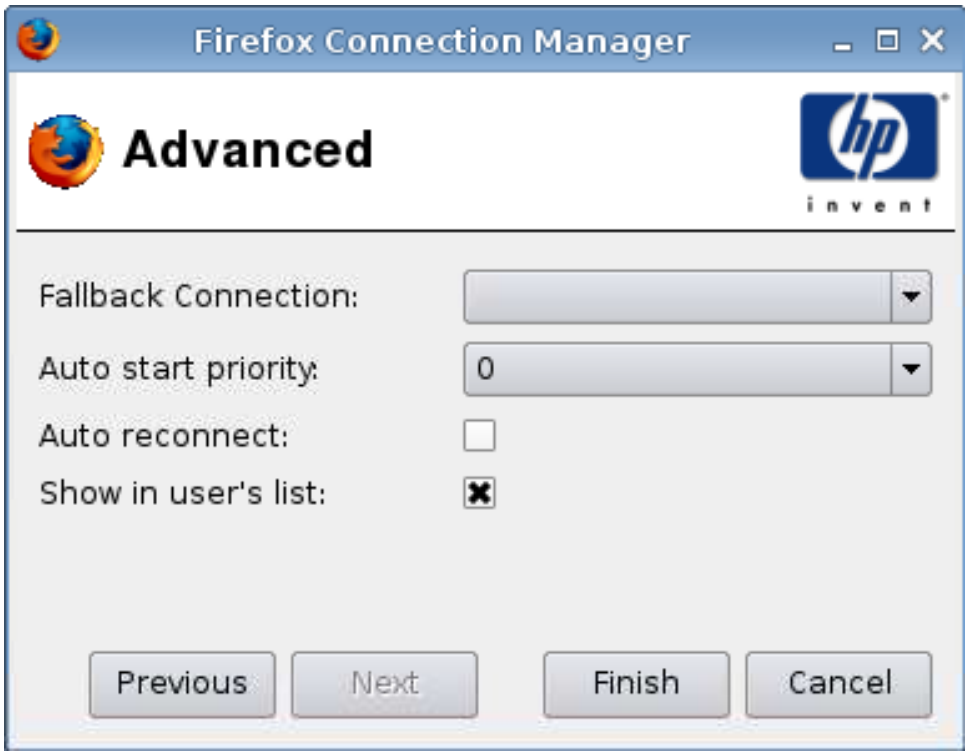
1. To add a connection, click **Connections** > **Add**.
2. Select **Firefox** and set the following options:
   - Configuration on page 41
   - Advanced on page 42

Configuration



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.

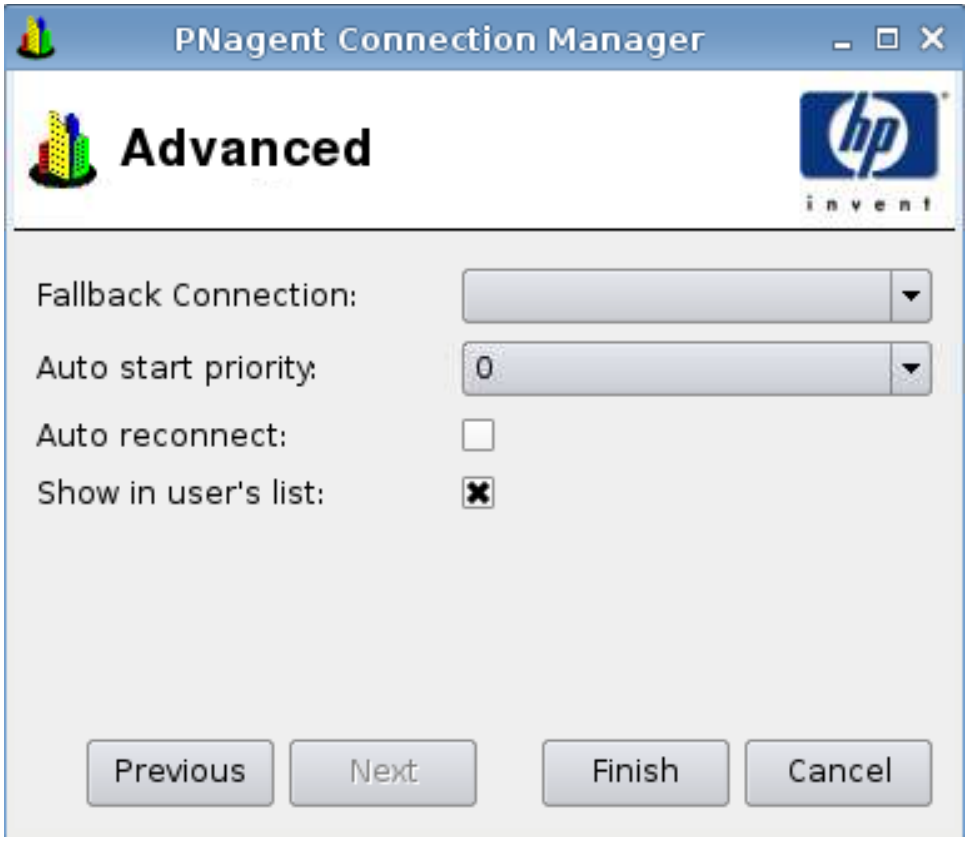
PNAgent

1. To add a PNAgent connection, click **Connections** > **Add**.
2. Select **PNAgent** and set the following options:
   - Configuration on page 43
   - Advanced on page 44

Configuration

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



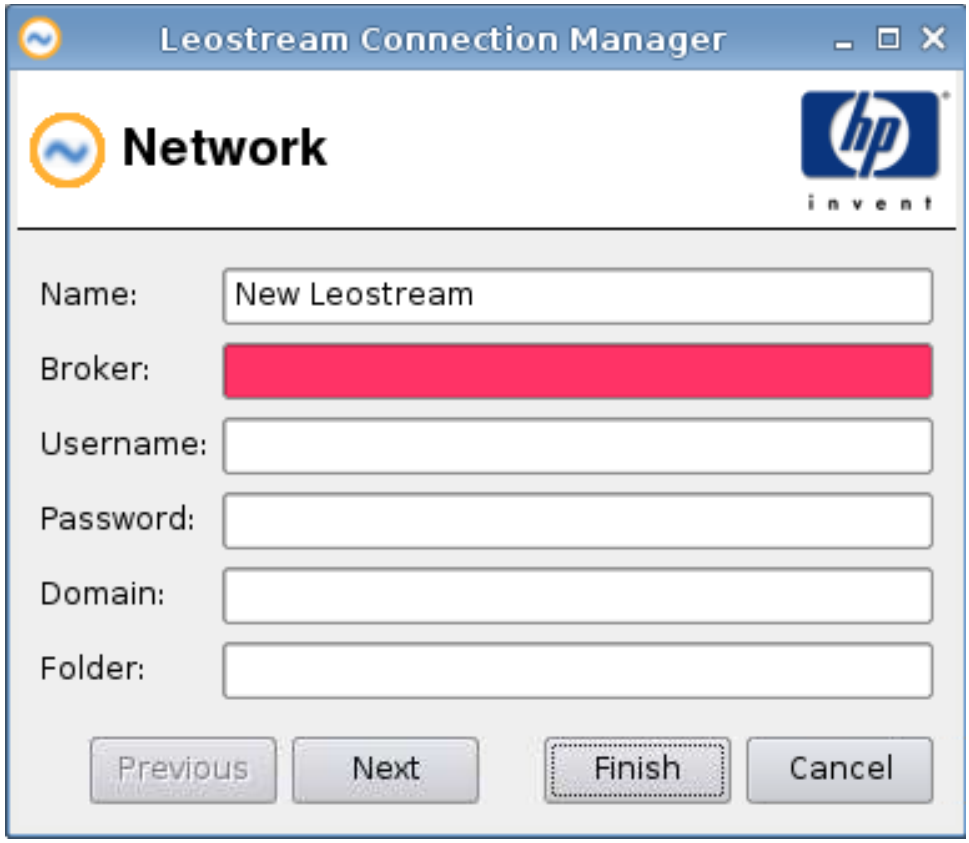
1. Set the following options:
   - **Fallback Connection**
   - **Auto start priority**
   - **Auto reconnect**
   - **Show in user's list**

   NOTE: This option is only available in the Administrative Mode.
2. Click **Finish** save your settings and close the dialog box.

Leostream

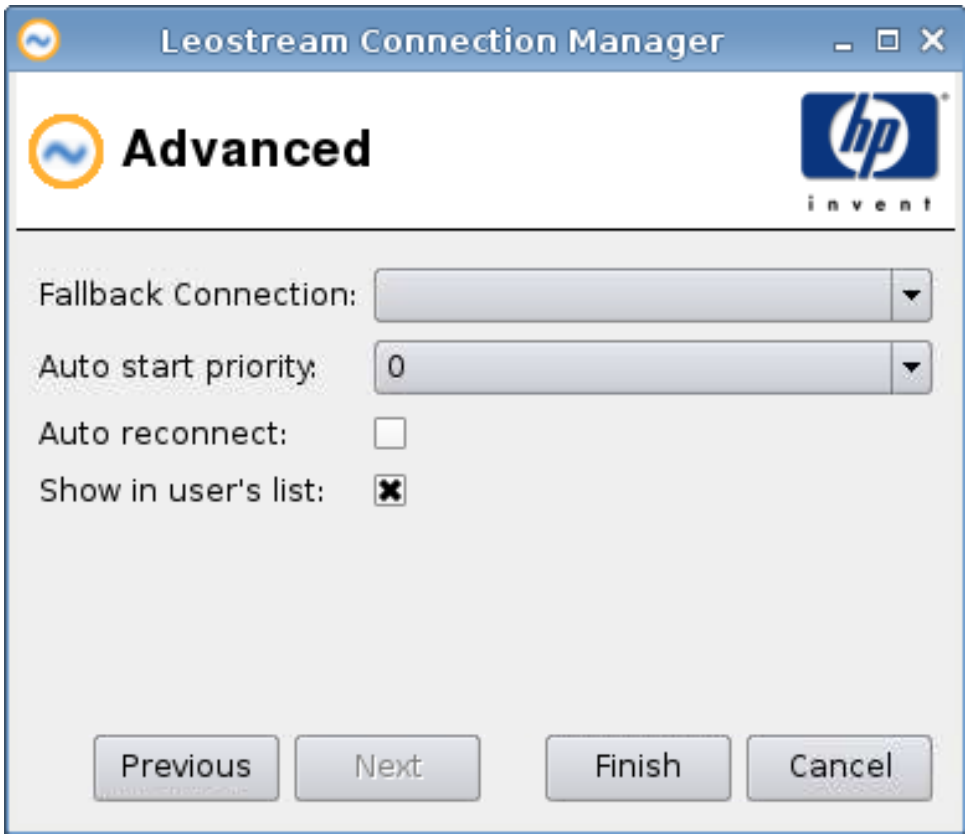
1. To add a Leostream connection, click **Connections** > **Add**.
2. Select **Leostream** and set the following options:
   - Network on page 45
   - Advanced on page 46

Network



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**

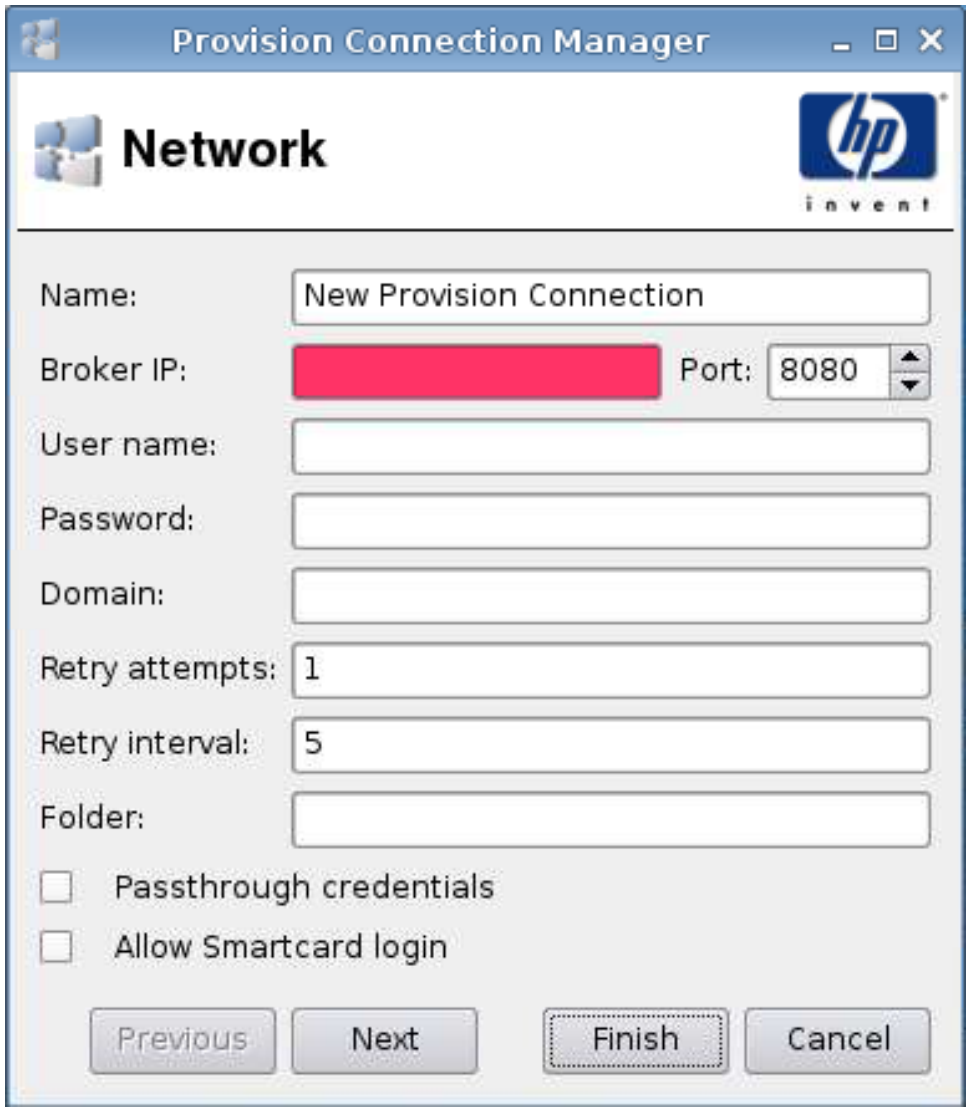
   NOTE: This option is only available in the Administrative Mode.
2. Click **Finish** save your settings and close the dialog box.

Provision

1. To add a Provision connection, click **Connections** > **Add**.
2. Select **Provision** and set the following options:
   - Network on page 47
   - Window on page 48
   - Options on page 49
   - Local Resources on page 51

- Experience on page 52
- Advanced on page 53

Network

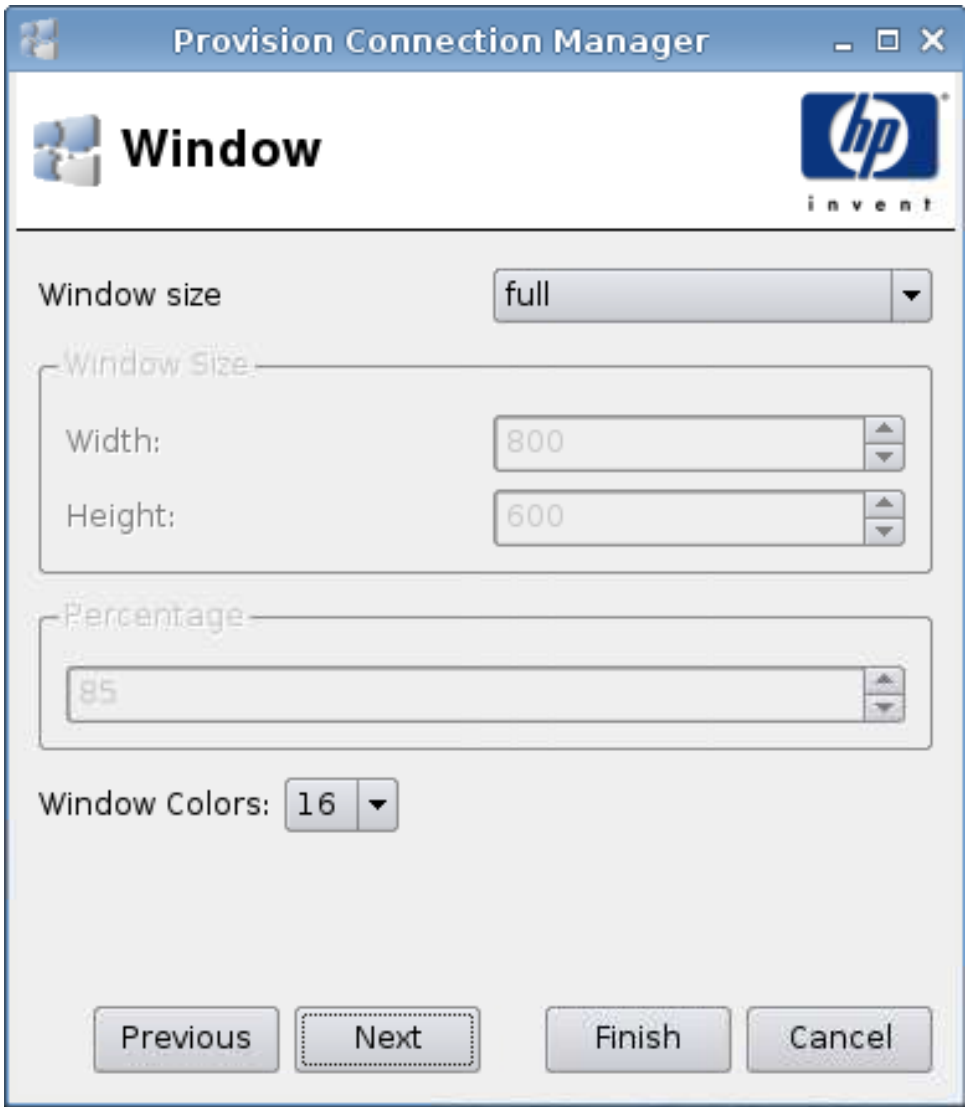


1. Set the following options:
   - **Name**
   - **Broker IP**
   - **User name**
   - **Password**
   - **Domain**
   - **Retry attempts**
   - **Retry interval**

- **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

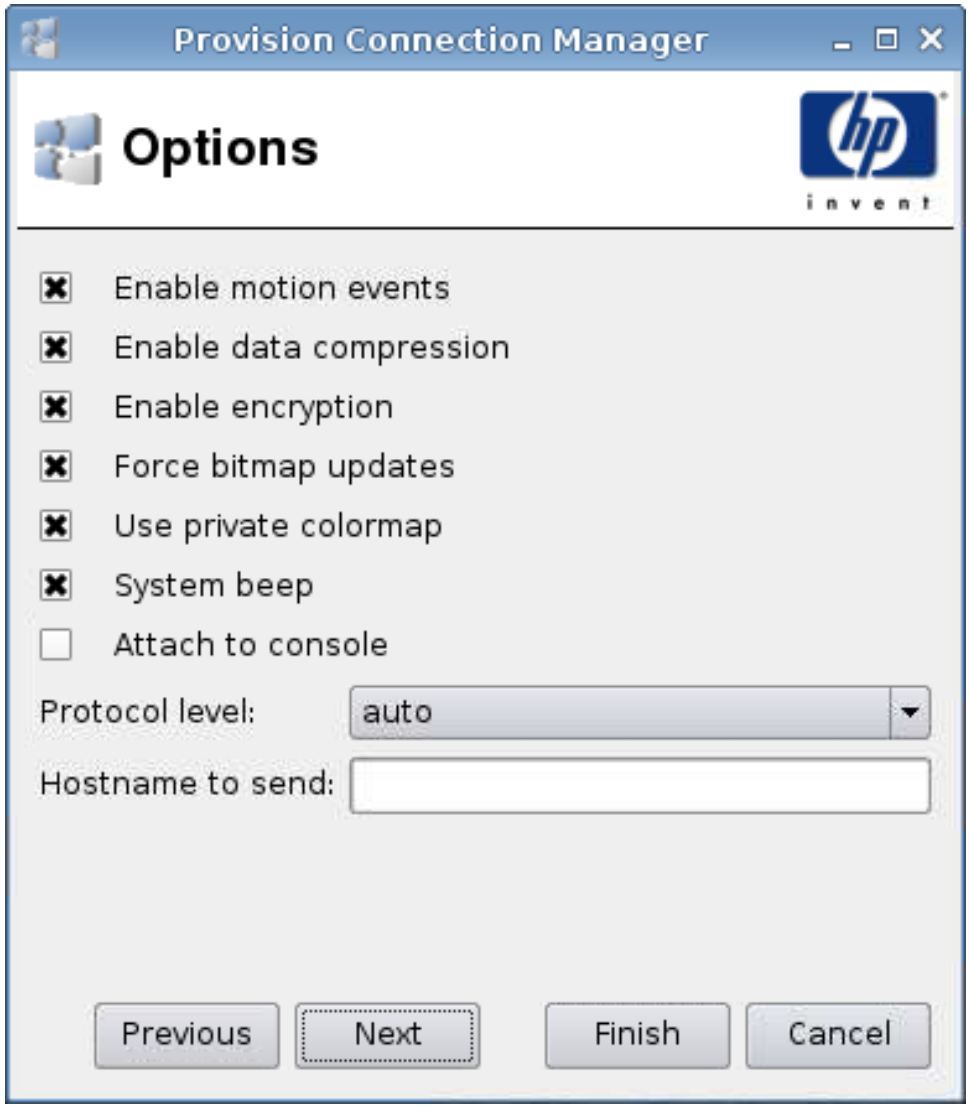


1. Set the following options:
   - **Window size**
   - **Window Size**
     - **Width**
     - **Height**

- **Percentage**
- **Window Colors**

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

Options

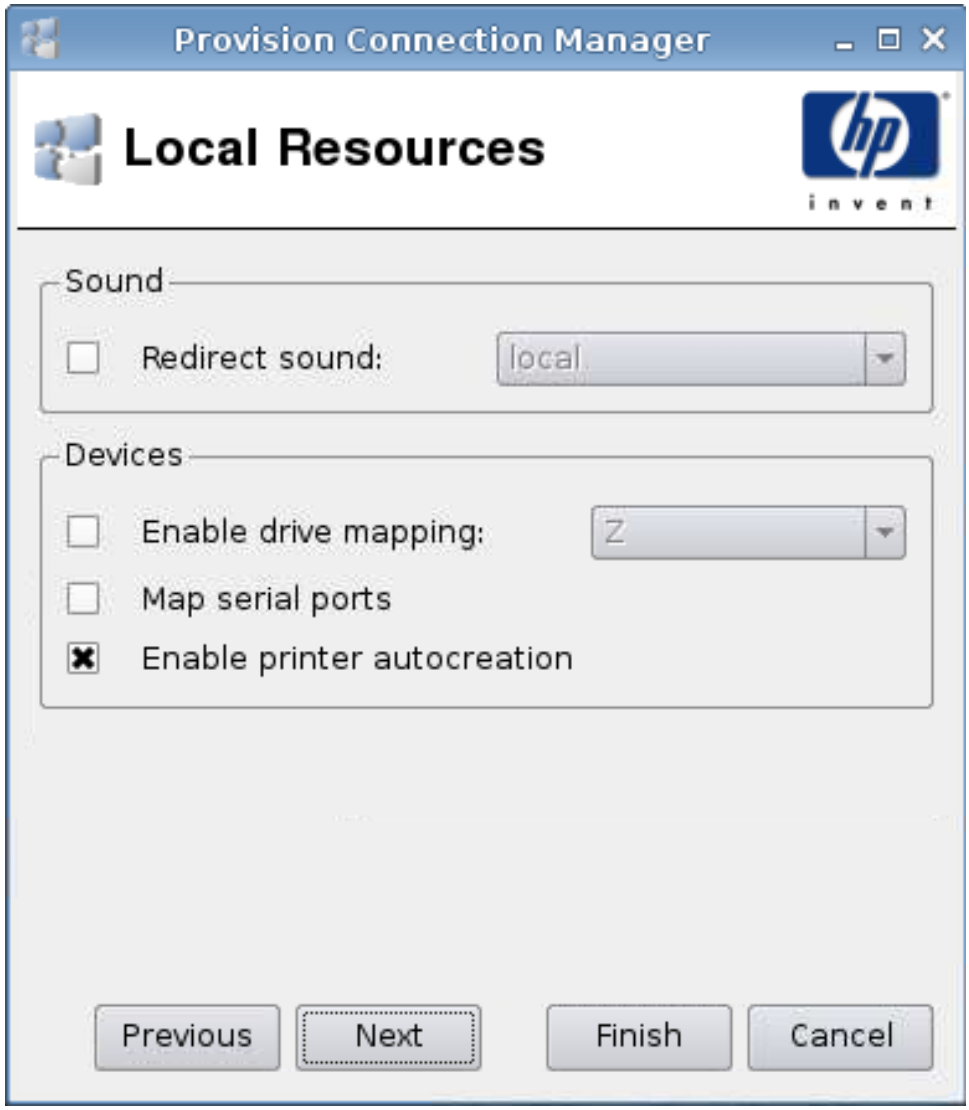


1. Set the following options:
   - **Enable motion events**
   - **Enable data compression**
   - **Enable encryption**
   - **Force bitmap updates**
   - **Use private colormap**
   - **System beep**

- **Attach to console**
- **Protocol level**
- **Hostname to send**

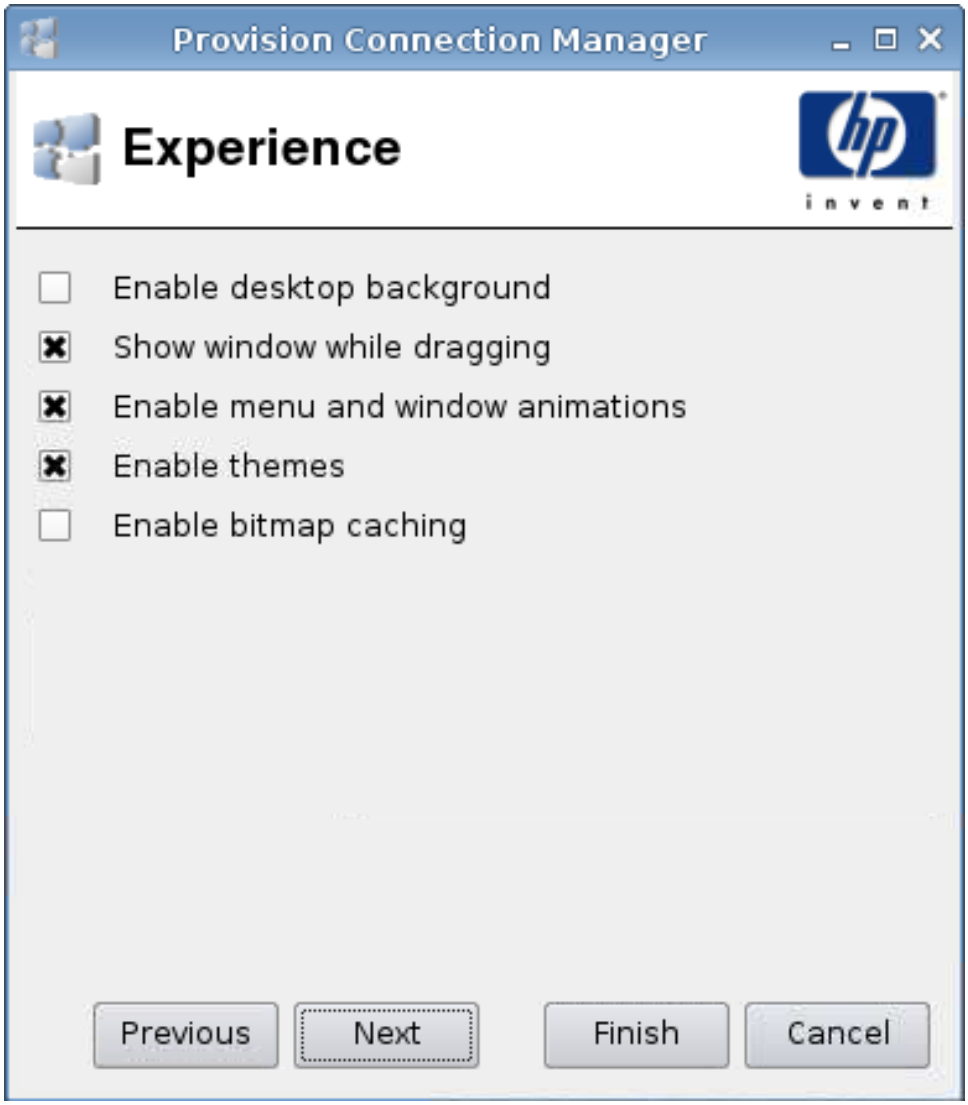
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

Local Resources



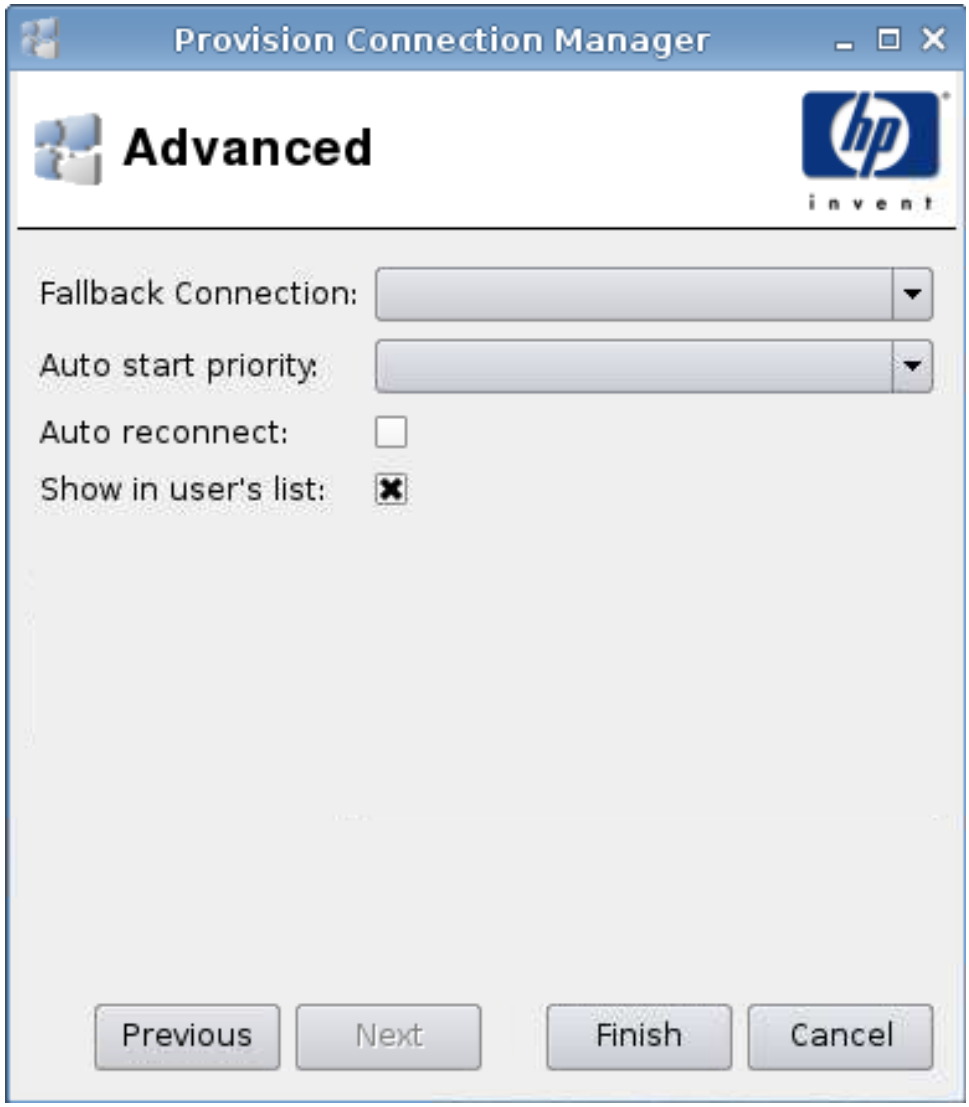
1. Set the following options:
   - **Sound**
     - **Redirect sound**
   - **Devices**
     - **Enable drive mapping**
     - **Map serial ports**
     - **Enable printer autocreation**
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

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**

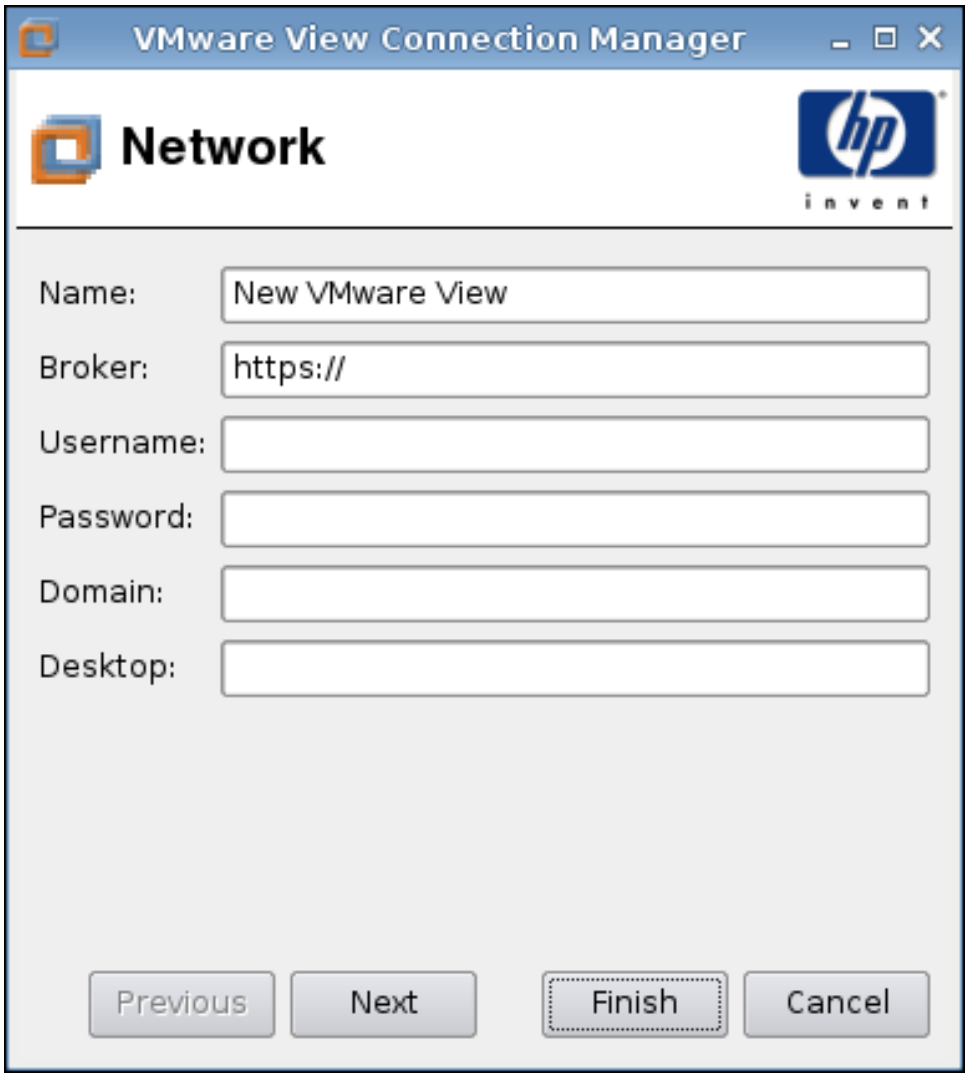
   NOTE: This option is only available in the Administrative Mode.

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

VMware View

1. To add a VMware View connection, click **Connections** > **Add**.
2. Select **VMware View** and set the following options:
   - Network on page 54
   - Options on page 56
   - Advanced on page 57

Network

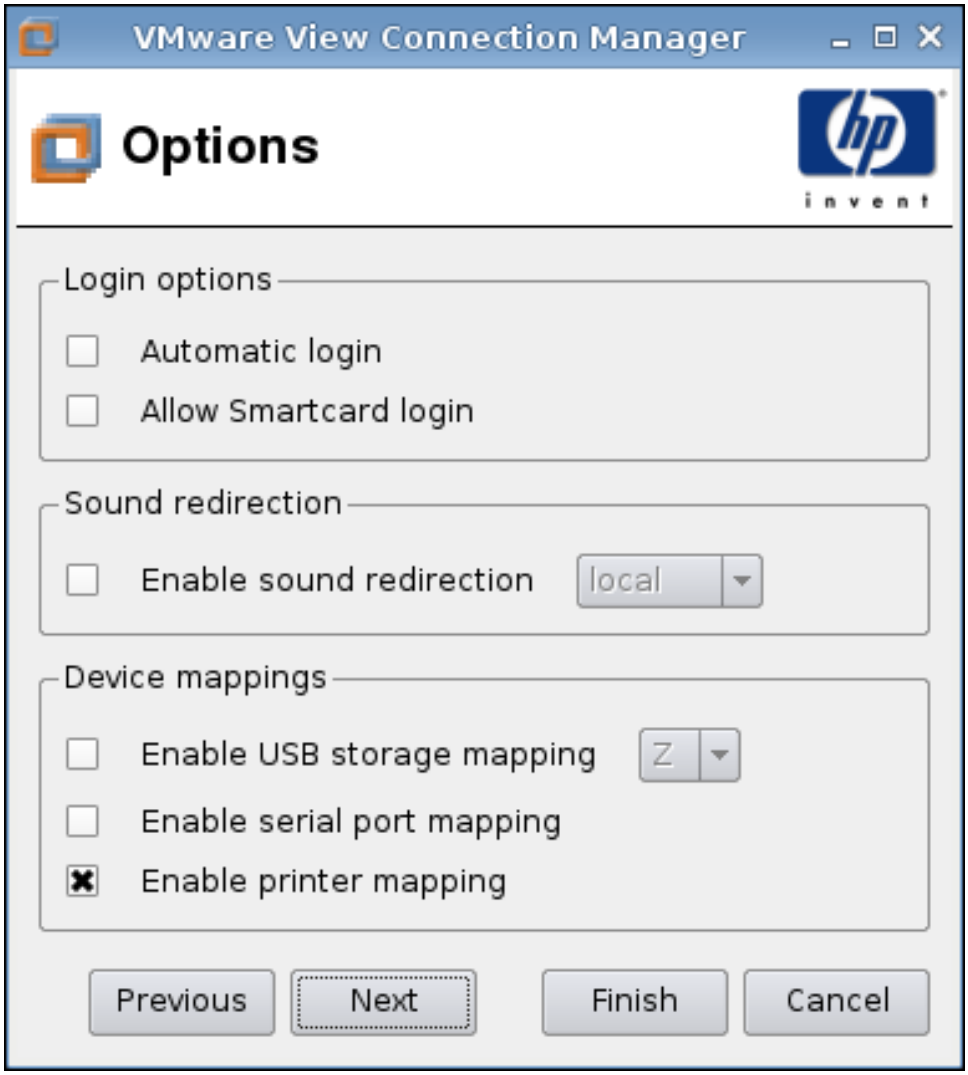


1. Set the following options:
   - **Name**
   - **Broker**
   - **Username**
   - **Password**

- **Domain** (case-sensitive)
- **Desktop**

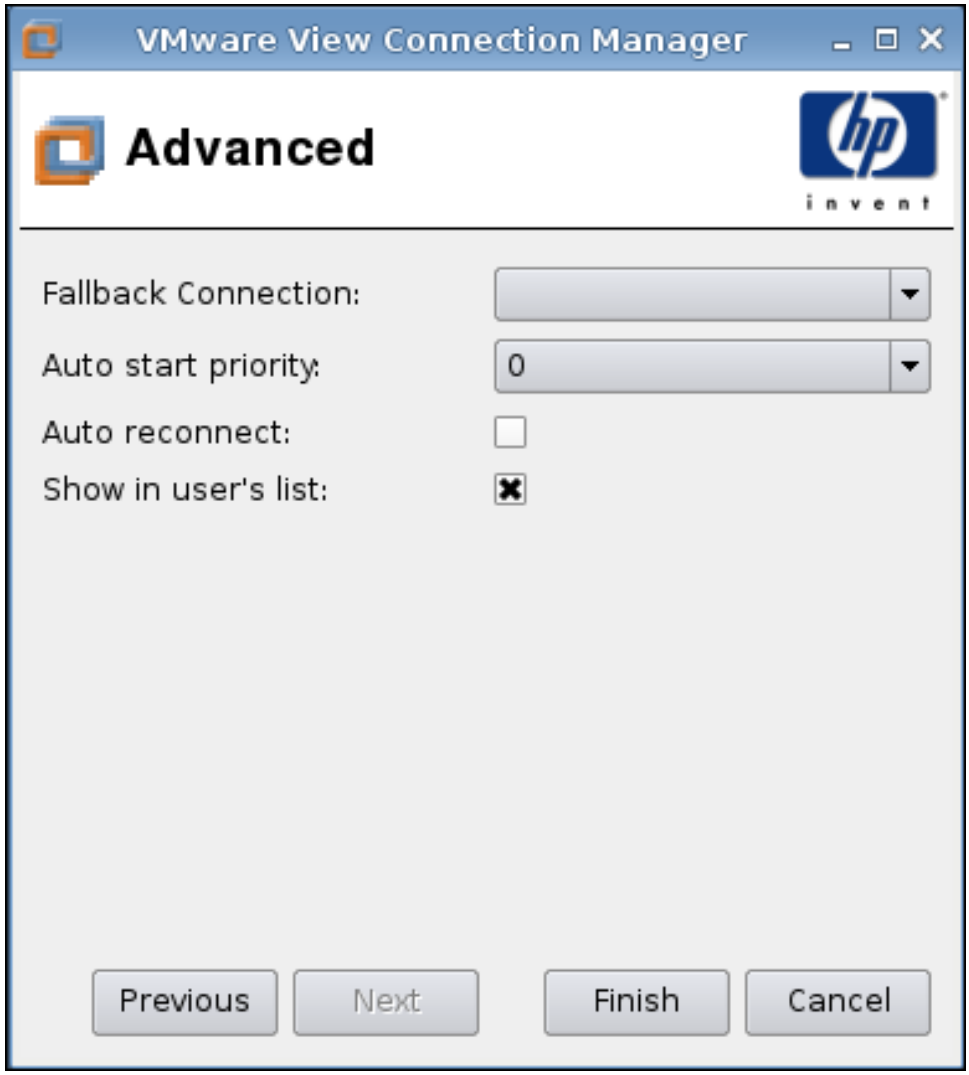
2. Click **Next** to advance to the next window or click **Finish** save your settings and close the dialog box.

Options



1. Set the following options:
   - Login options
     - Automatic login
     - Allow Smartcard login
   - Sound redirection
     - Enable sound redirection
   - Device mappings
     - 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.

Advanced



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

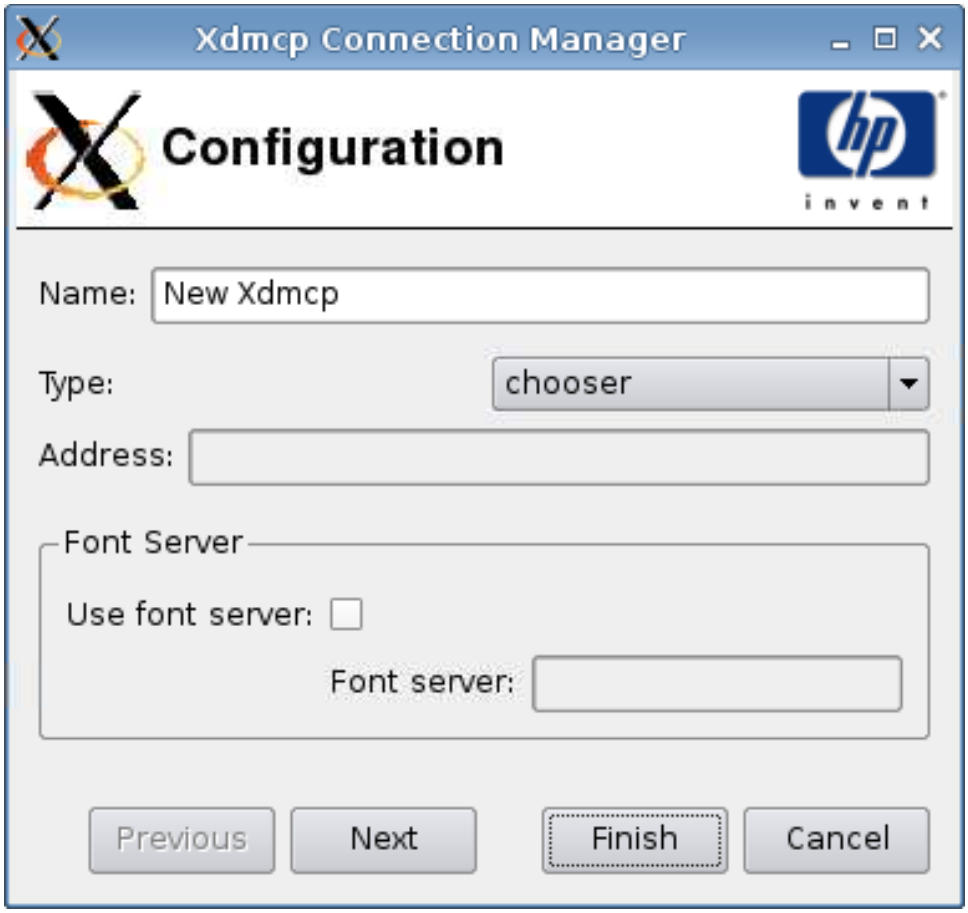
   NOTE: This option is only available in the Administrative Mode.

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

Xdmcp

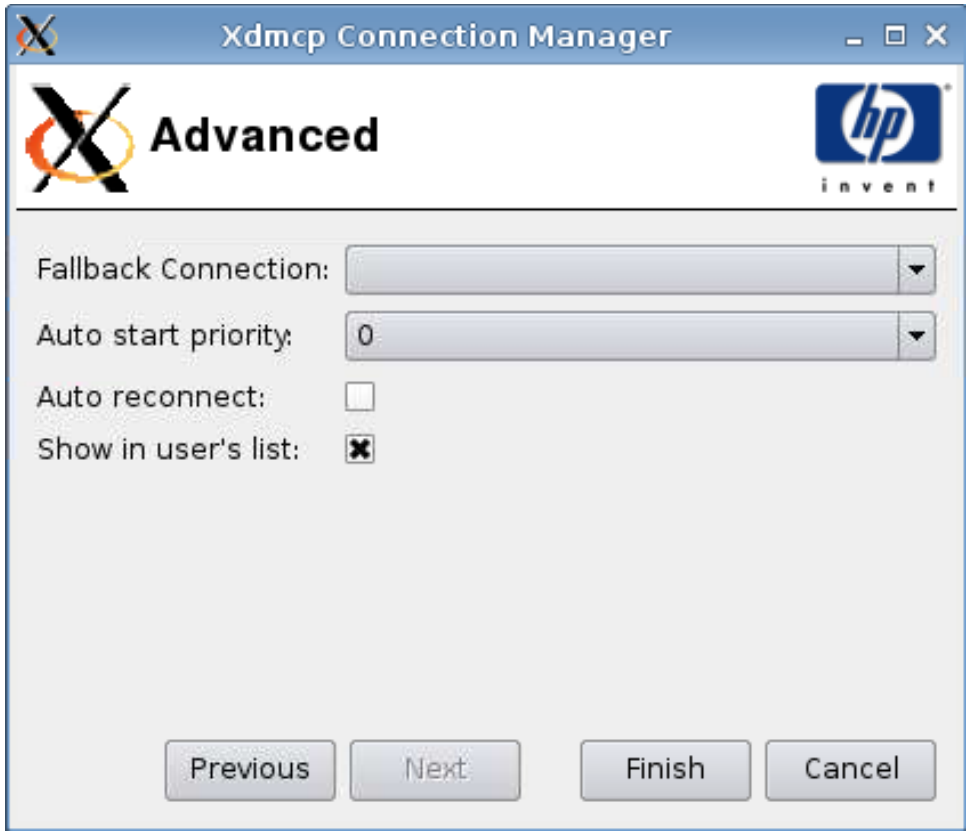
1. To add an Xdmcp connection, click **Connections** > **Add**.
2. Select **Xdmcp** and set the following options:
   - Configuration on page 58
   - Advanced on page 59

Configuration



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



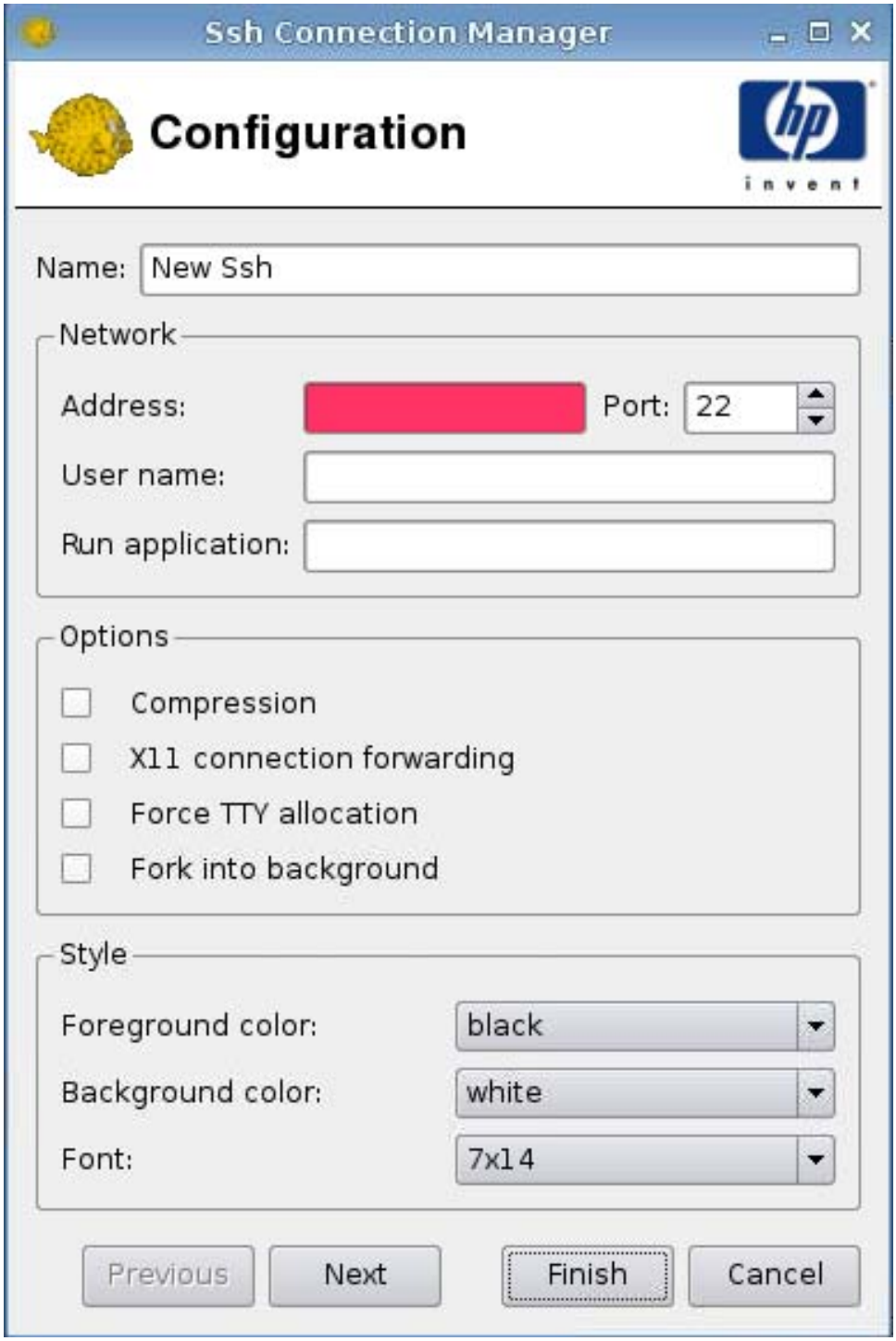
1. Set the following options:
   - **Fallback Connection**
   - **Auto start priority**
   - **Auto reconnect**
   - **Show in user's list**

   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 60
   - Advanced on page 62

Configuration

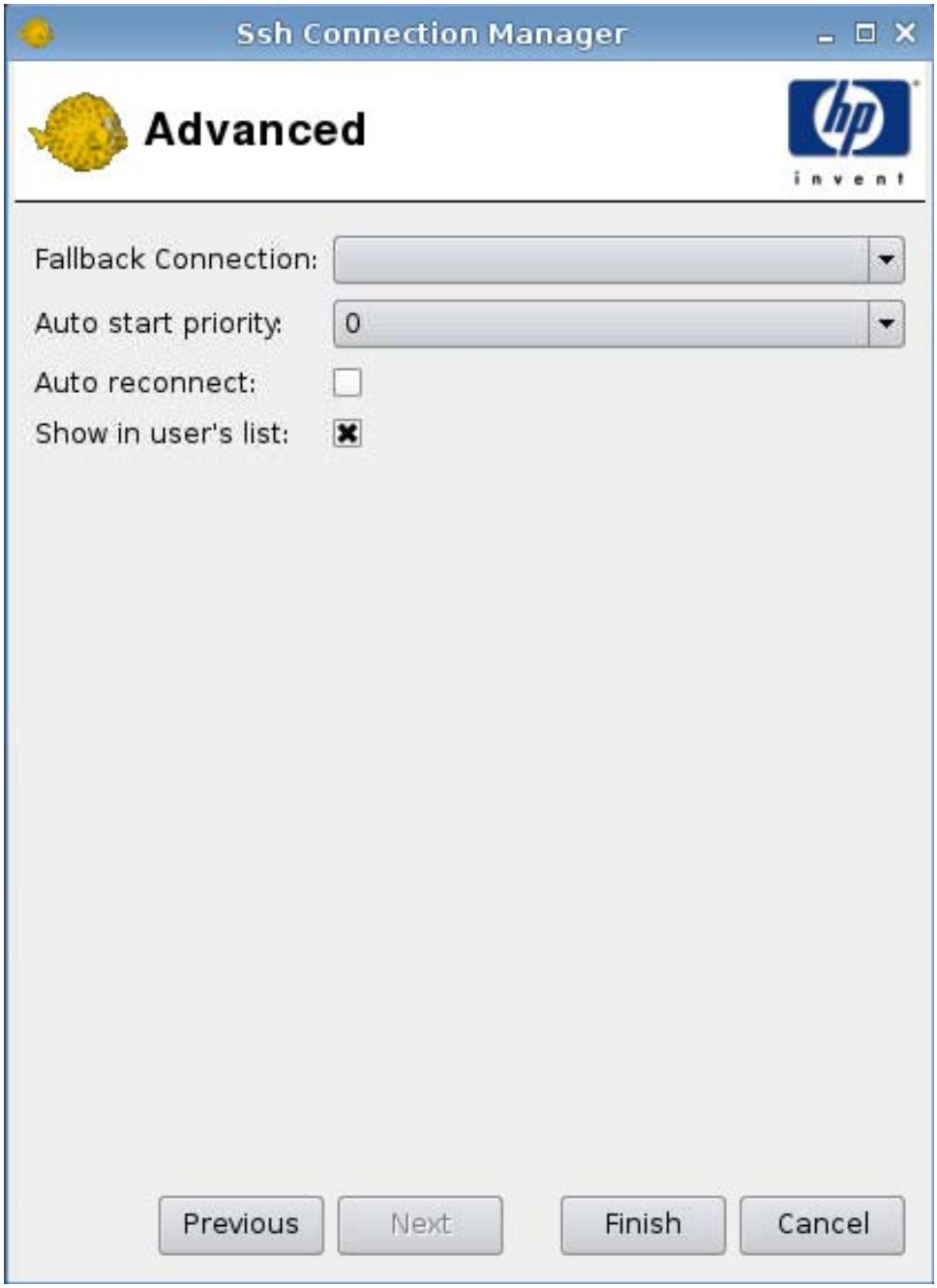


1. Set the following options:
   - **Name**
   - **Network**
     - **Address**
     - **Port**

    - **User name**
    - **Run application**
- **Options**
    - **Compression**
    - **XII 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



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

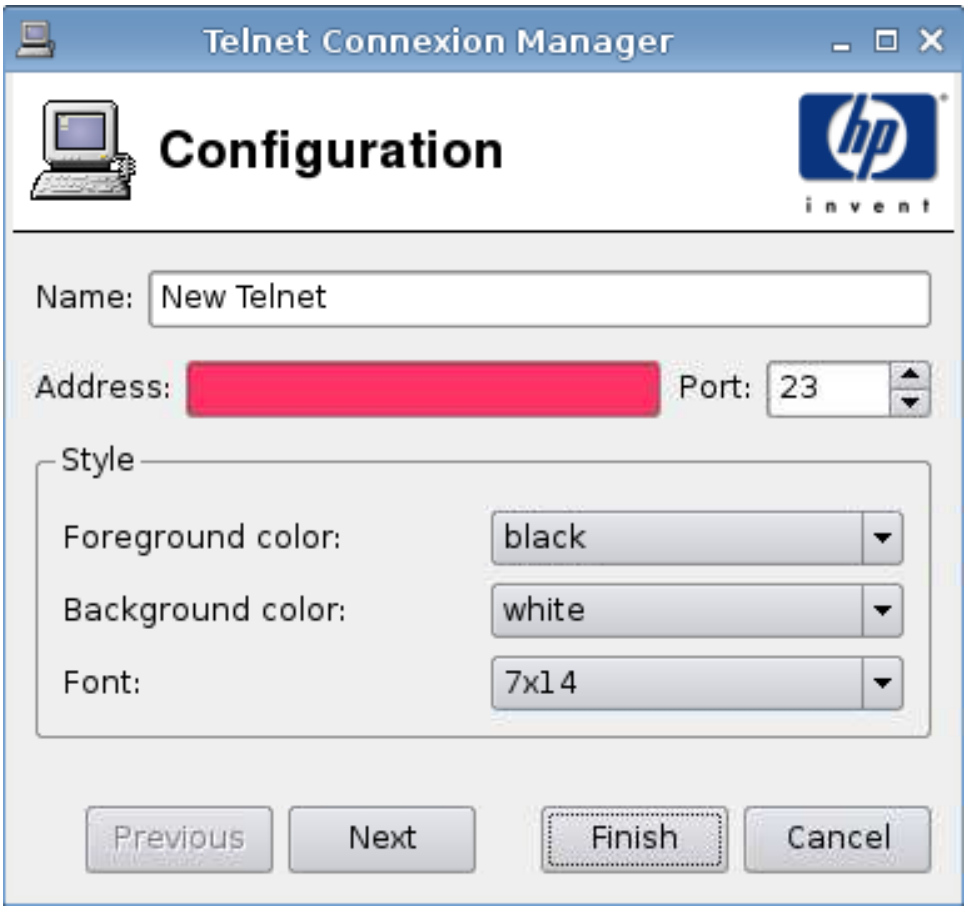
   NOTE: This option is only available in the Administrative Mode.

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 63
   - Advanced on page 64

Configuration

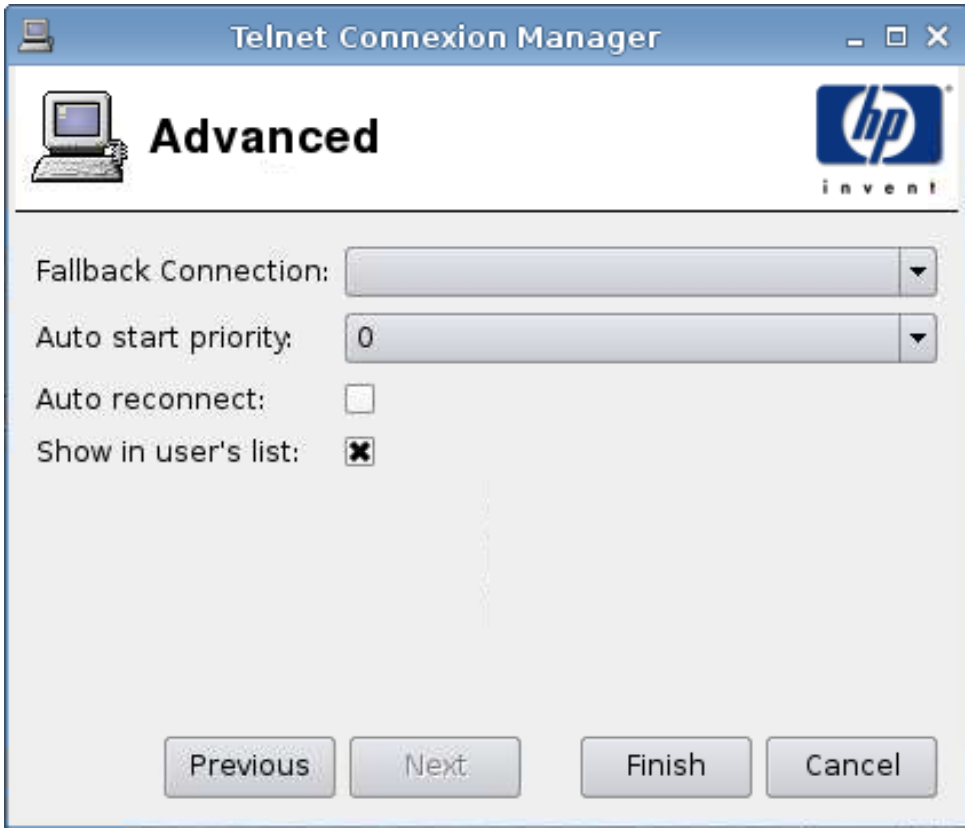


1. Set the following options:
   - **Name**
   - **Address**

- **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**

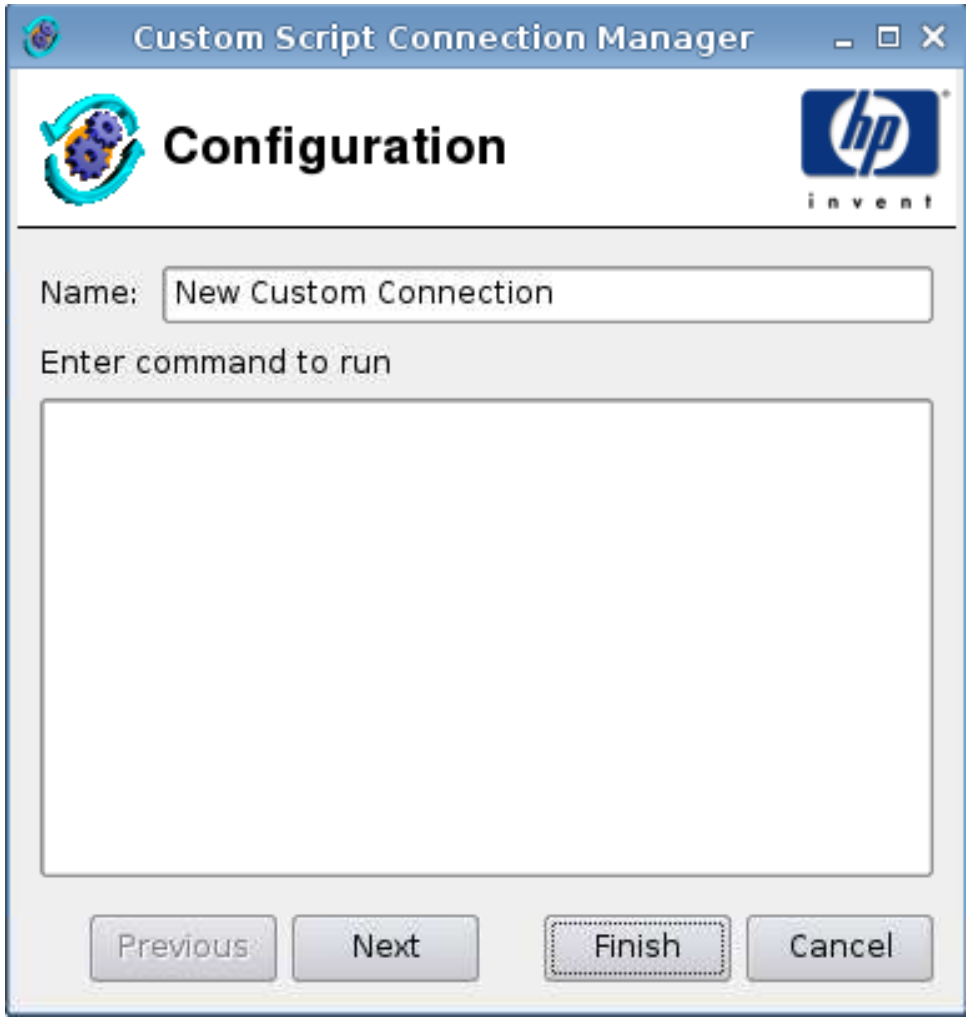
   NOTE: This option is only available in the Administrative Mode.

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

Custom

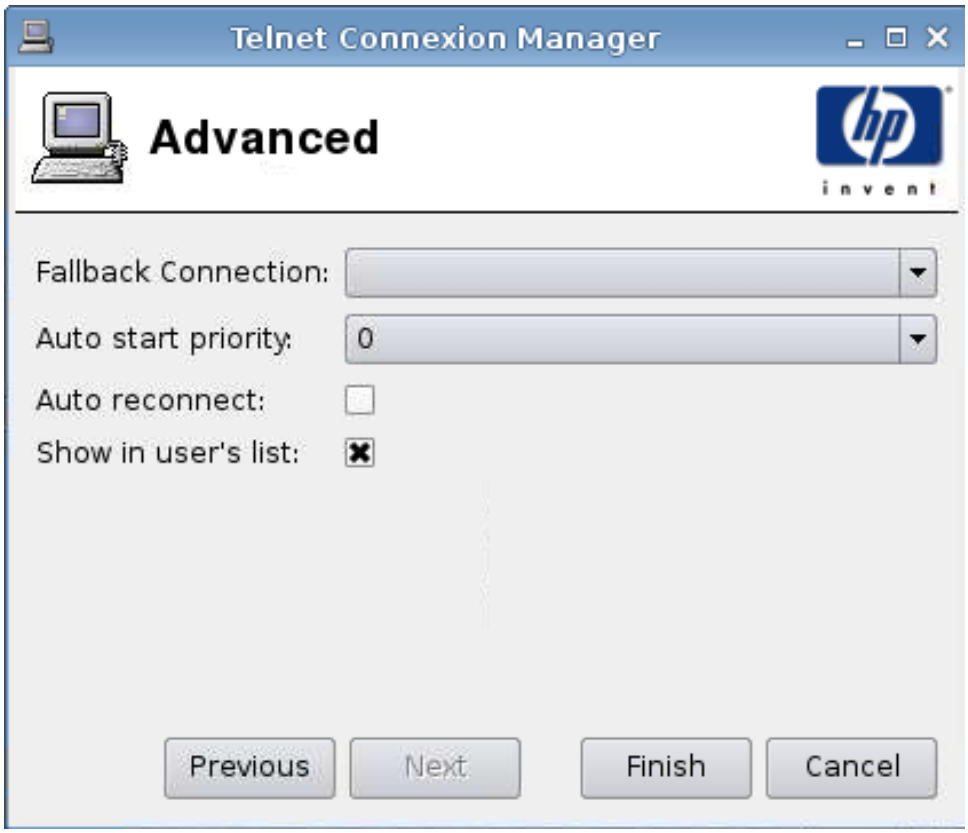
1. To add a Custom connection, click **Connections** > **Add**.
2. Select **Custom** and set the following option:
   - Configuration on page 65

Configuration



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.

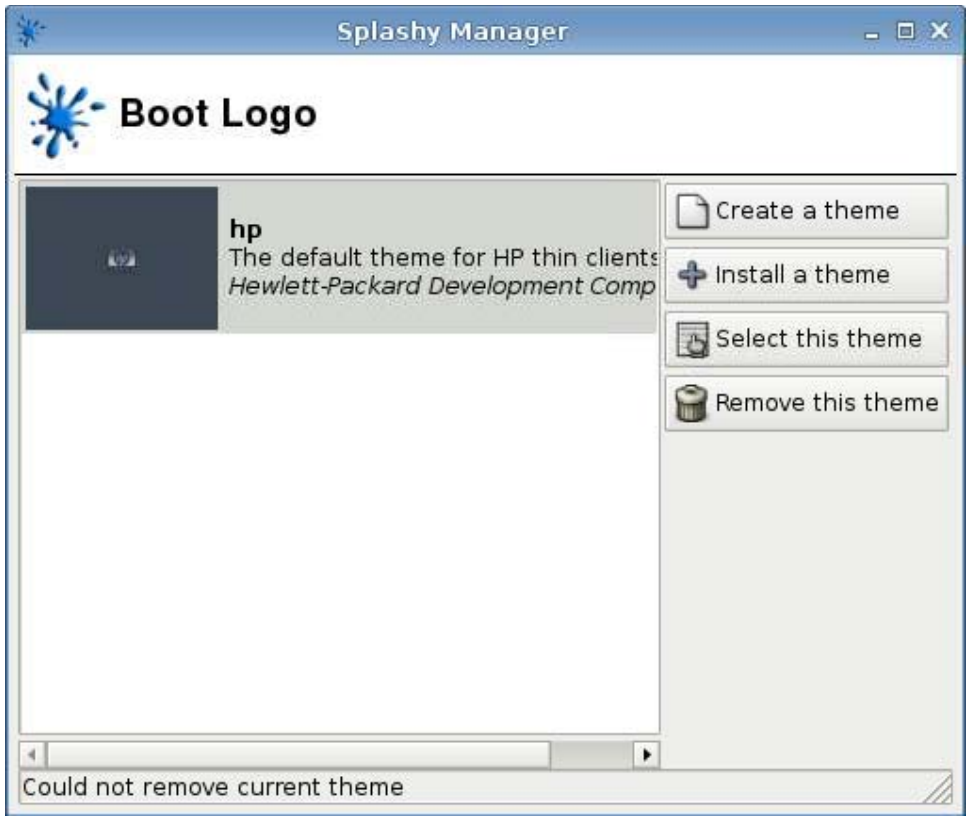
2. Edit the connection and click **Apply**.
3. Click **Ok**.

Control Panel

- Boot Logo on page 69
- HP Agent Config on page 72
- Altiris Configuration on page 73
- Date and Time on page 74
- 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 88
- Screensaver on page 90
- Security on page 91
- ThinPrint on page 92
- HP ThinState Utility on page 92
- Touch Screen on page 99
- Software Update on page 99

- User Permissions on page 100
- Shadowing on page 101
- Keyboard on page 102
- Sound on page 103
- Mouse on page 104
- Window Manager on page 105

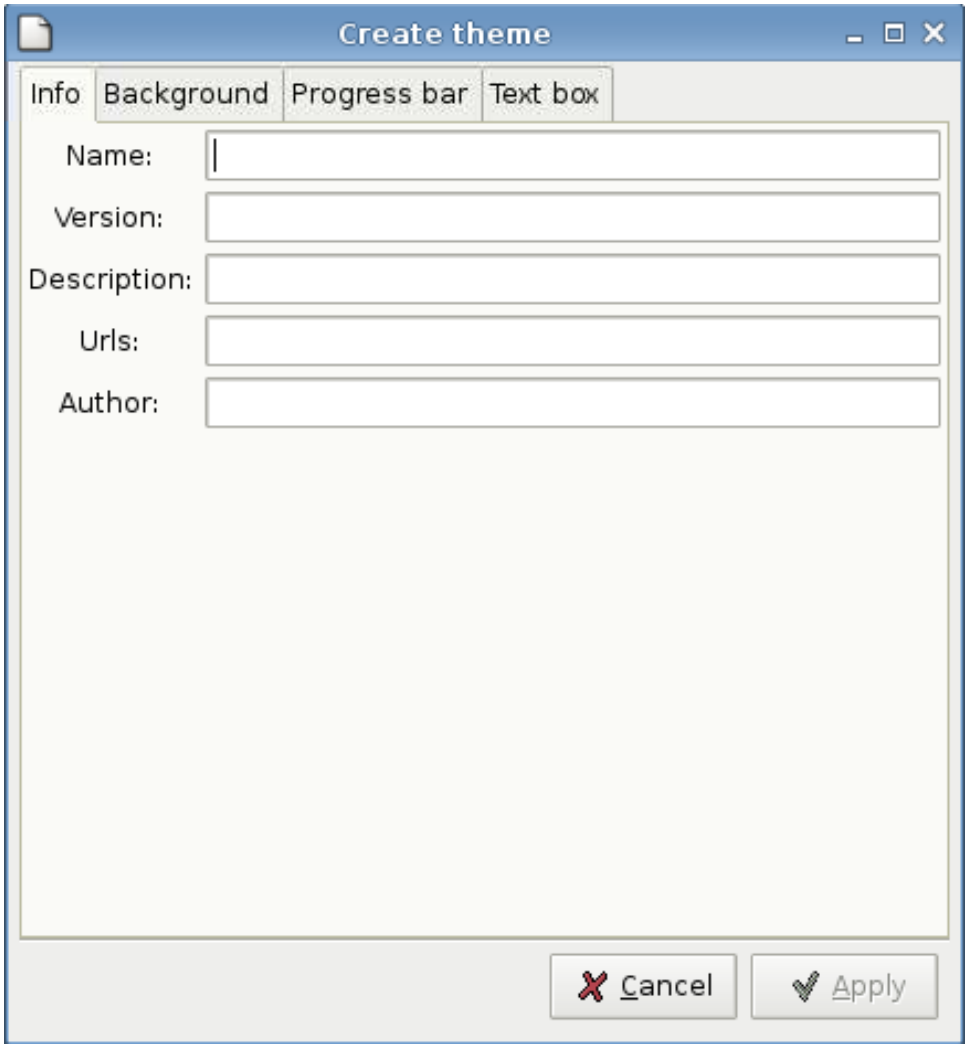
Boot Logo



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

NOTE: Theme files must be .png files.

Create a Theme

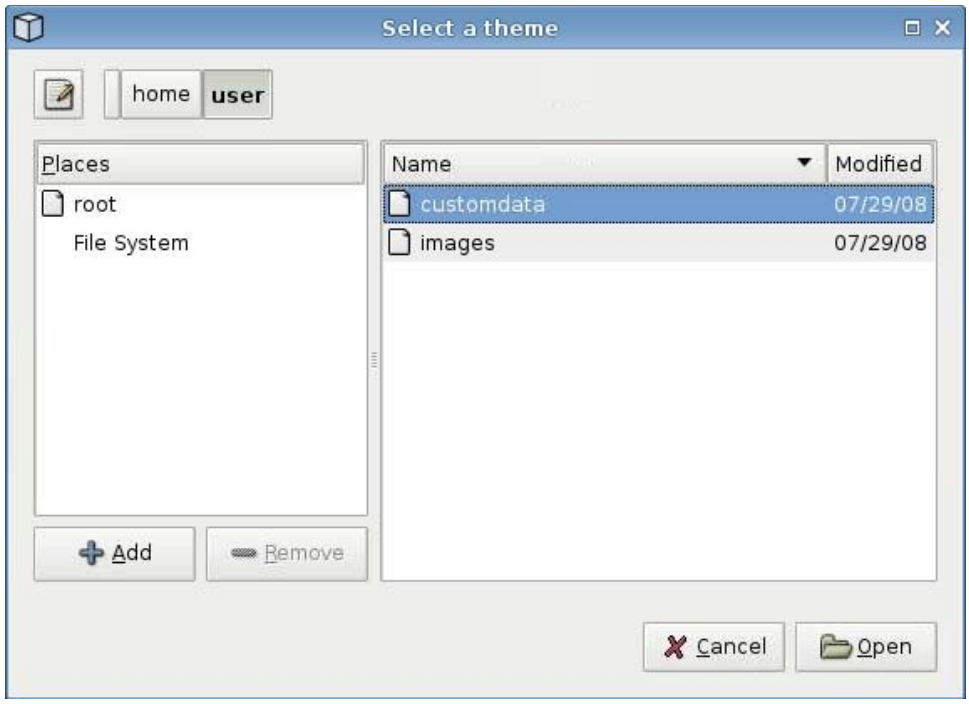


To create a theme:

▲ 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:

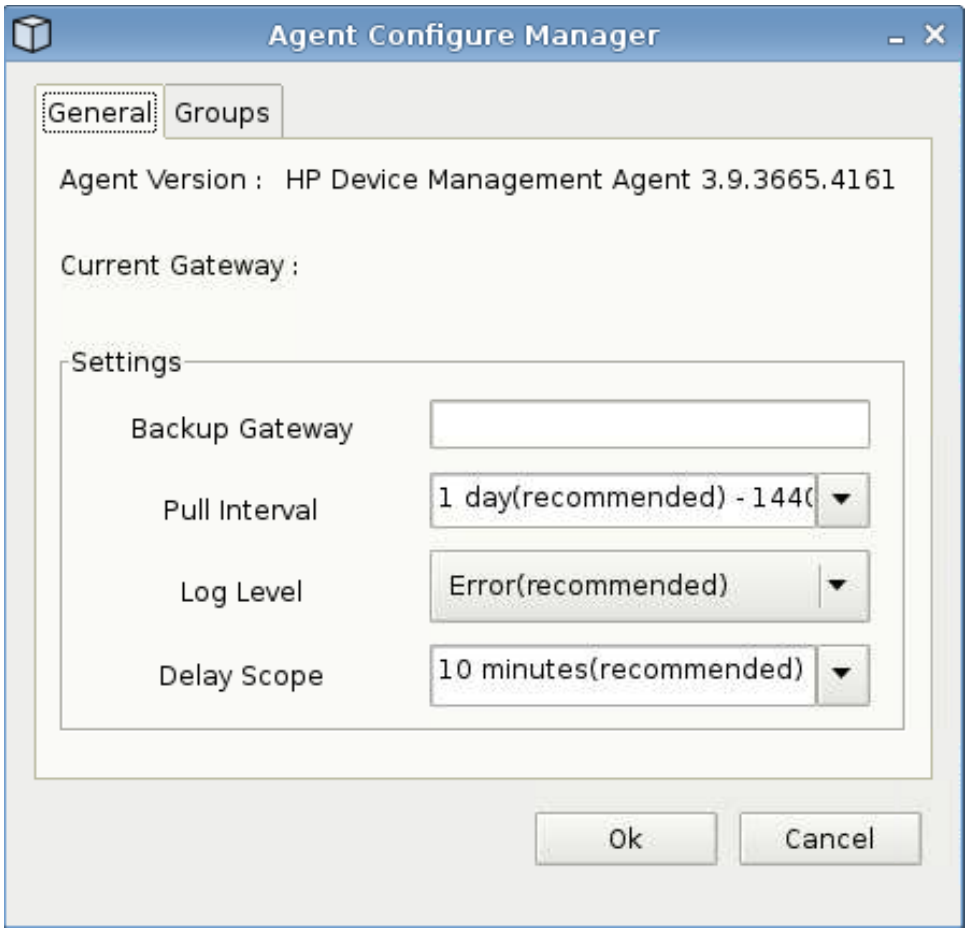
1. Click **Control Panel** > **Boot Logo**.
2. Select the theme you want from the list and click **Select this theme**.

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

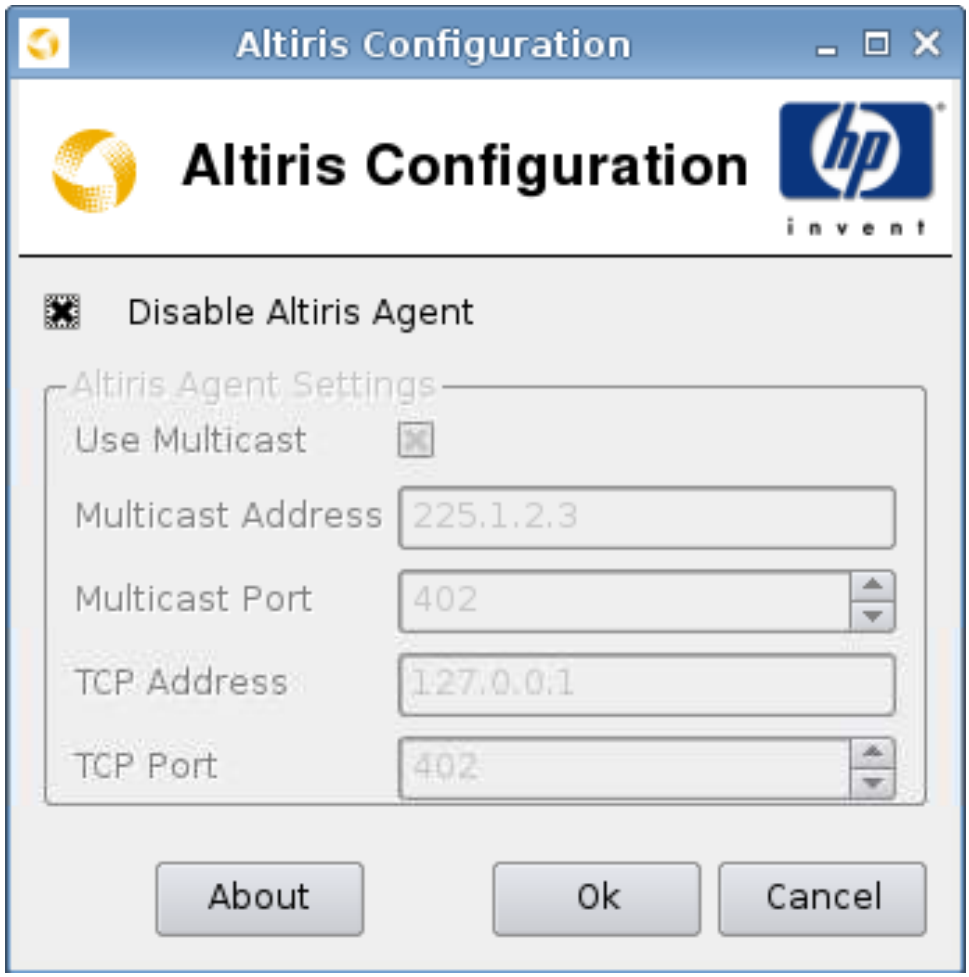


Configure the HP Device Management Agent using this feature.

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.

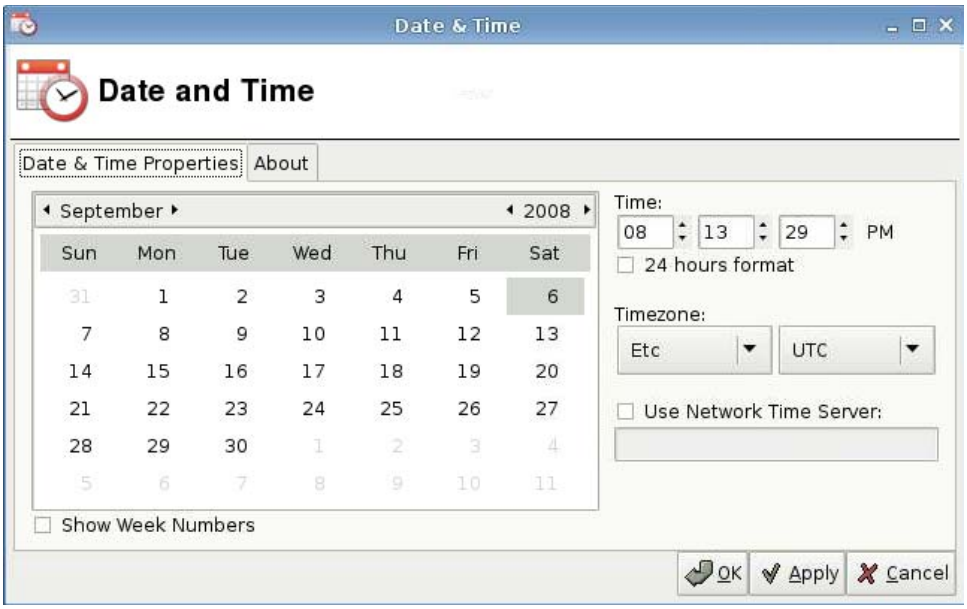
To configure or disable Altiris Agent:

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.

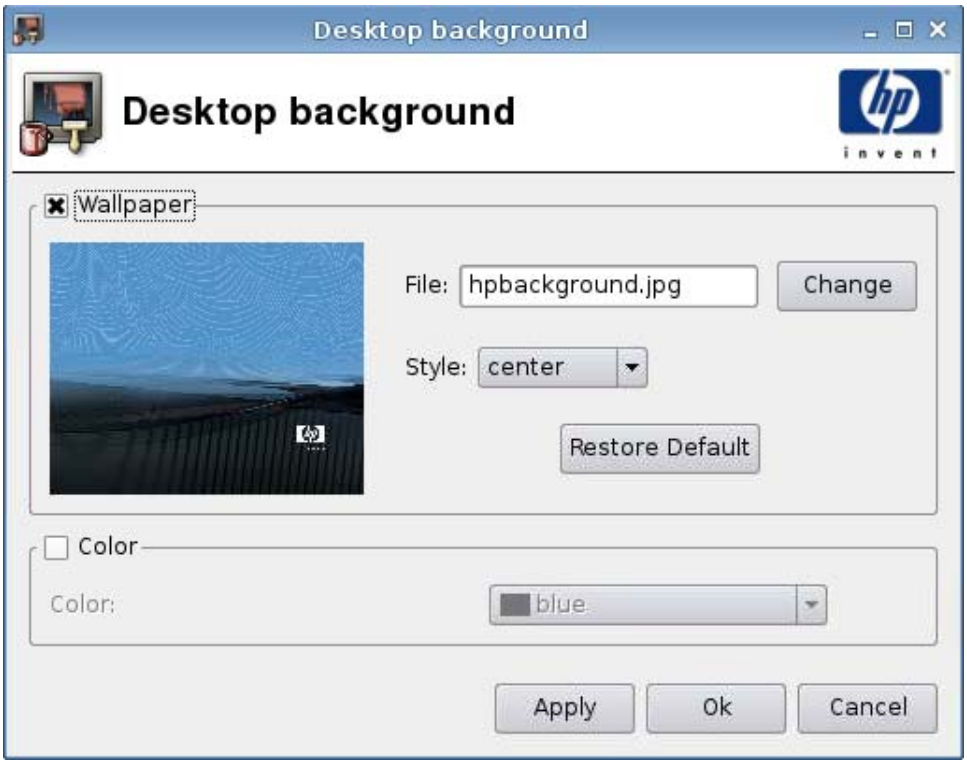
Date and Time



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.

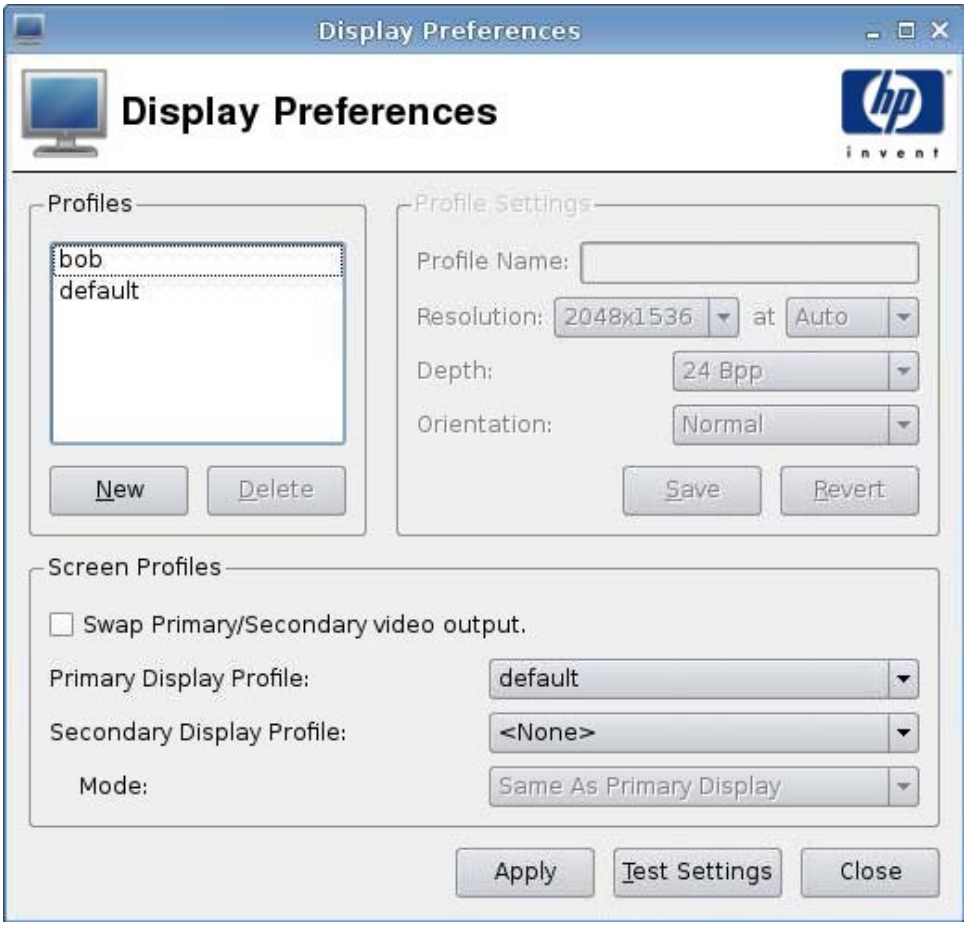
Desktop Background



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** filed.
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 **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 **Mode**.
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:

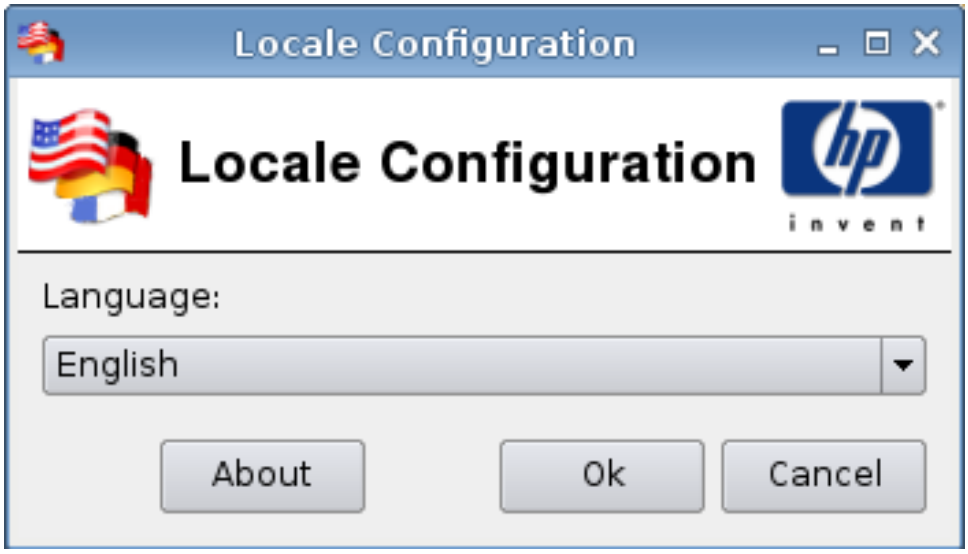
```
# This script is downloaded to an HP appliance

# 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

if

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:

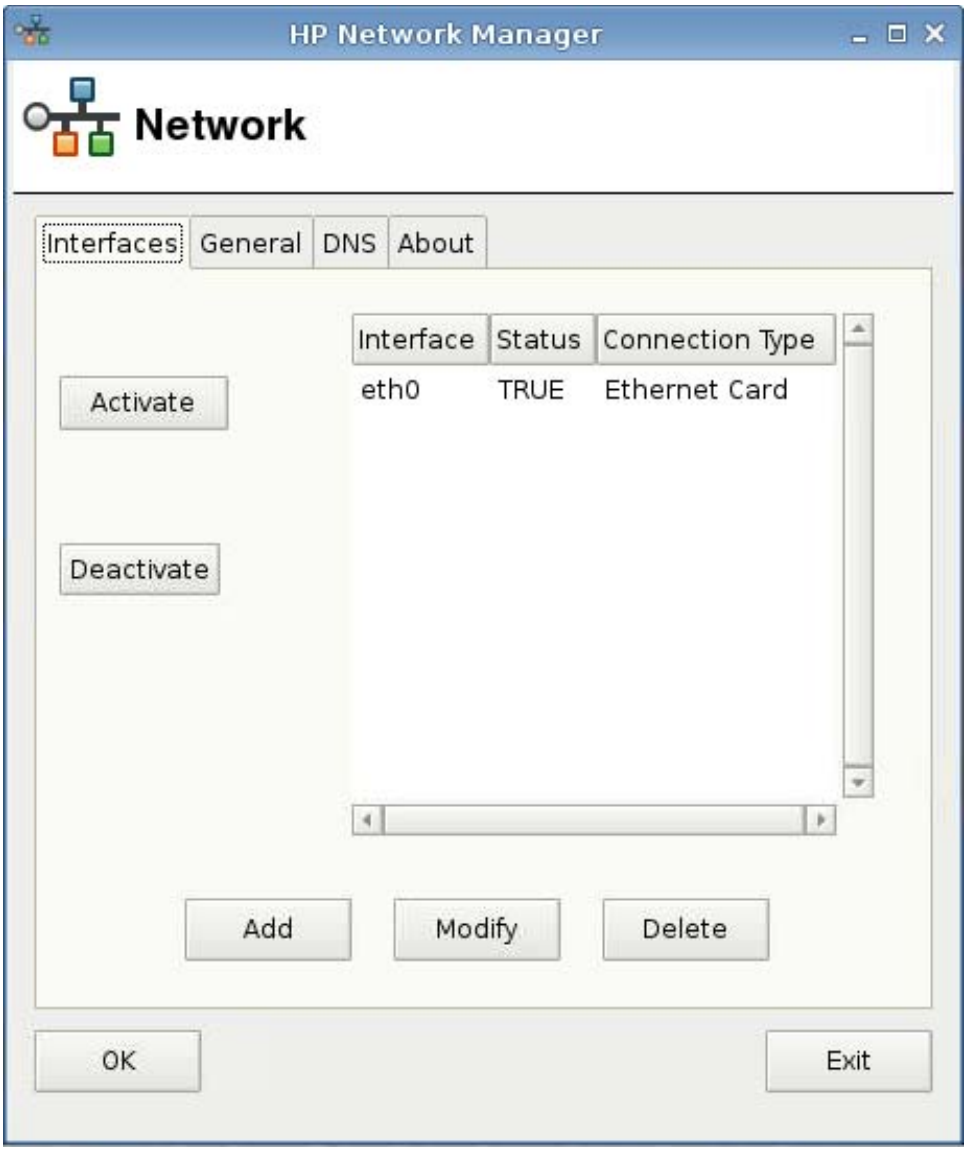
- proto://user:passwd@host/directory
- nfs:host:fullpath
- local:fullpath

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 delete 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 delete a connection:

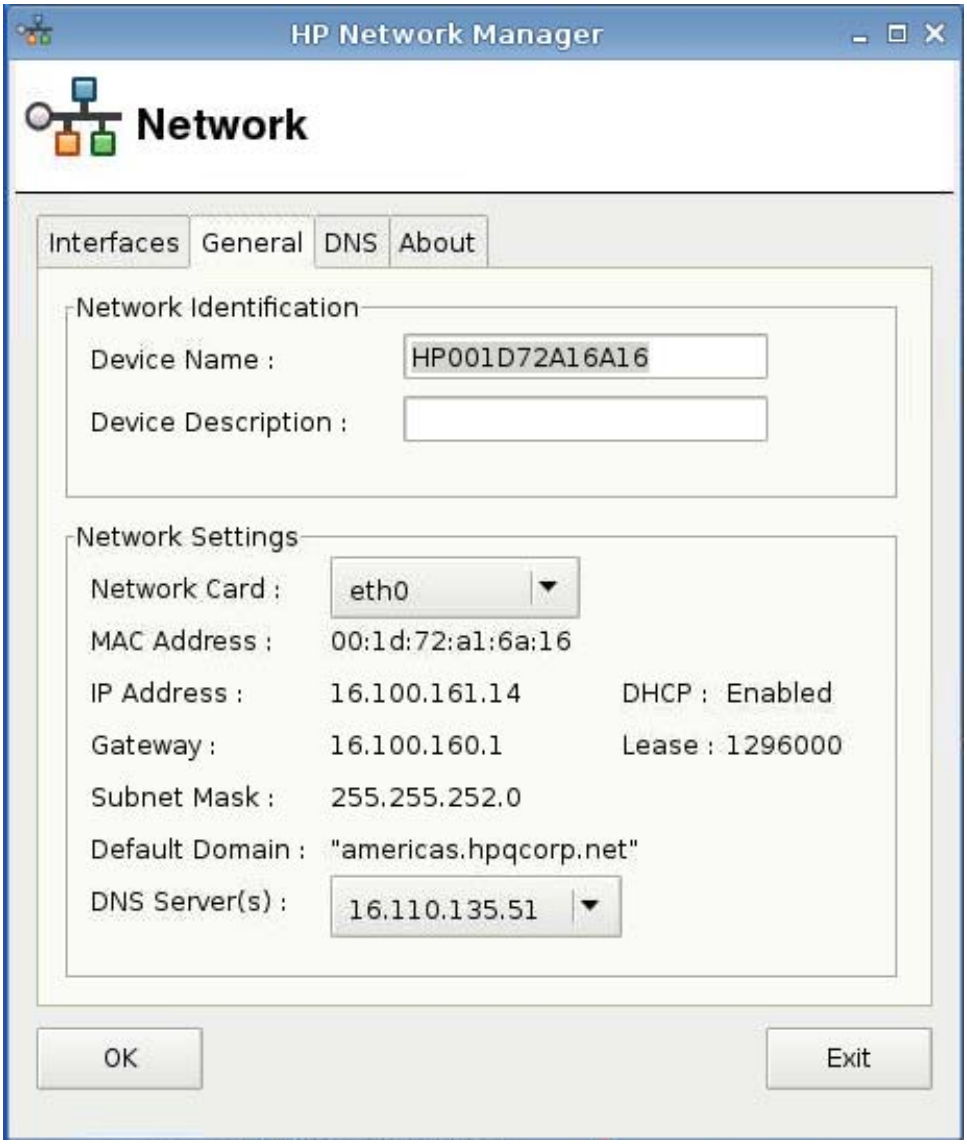
1. Select a connection from the list and click **Delete**.
2. Click **OK** to confirm.

To close the dialog box:

- Click **OK**.

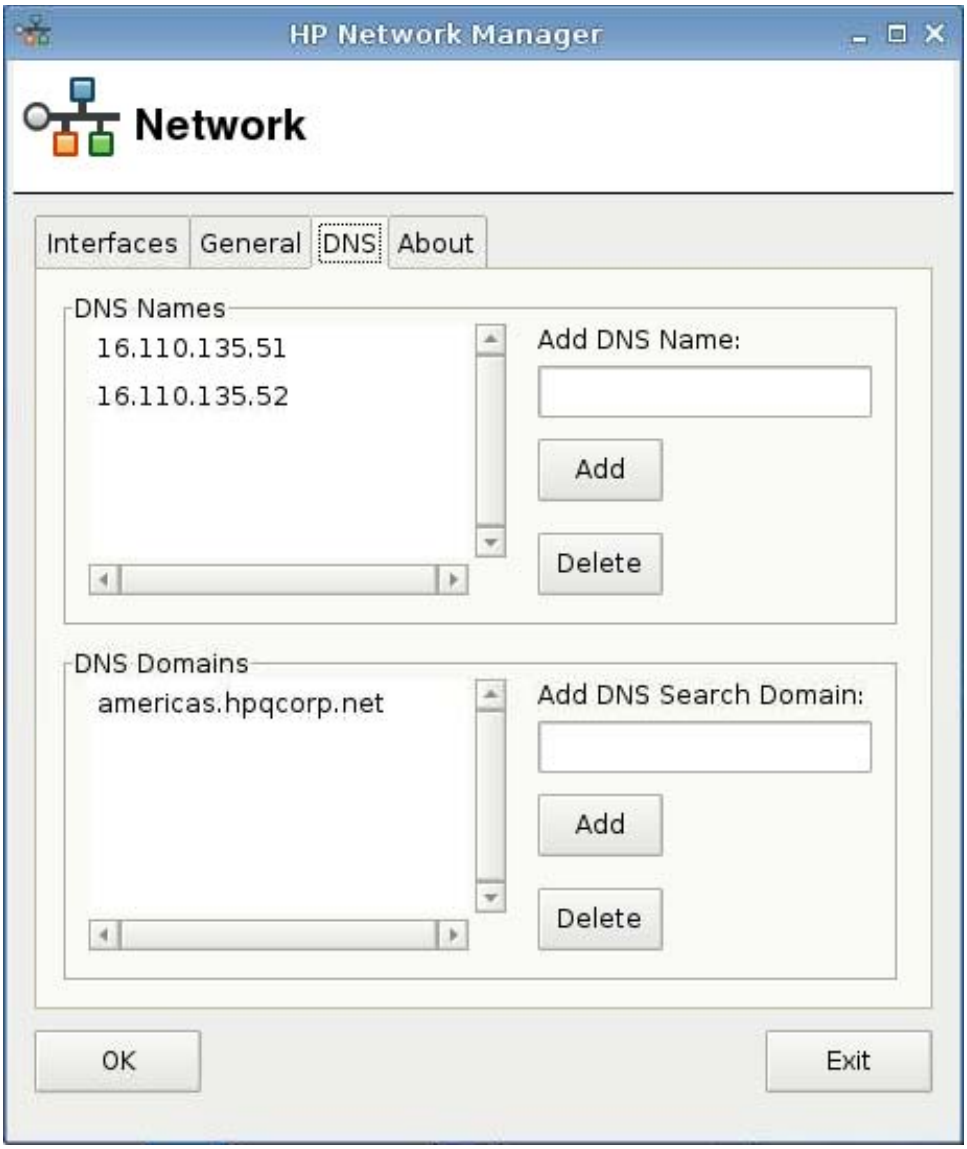
NOTE: Restart the Xserver if you have changed the device name under the **General** tab.

General Tab



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 DNS 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 DNS domain:

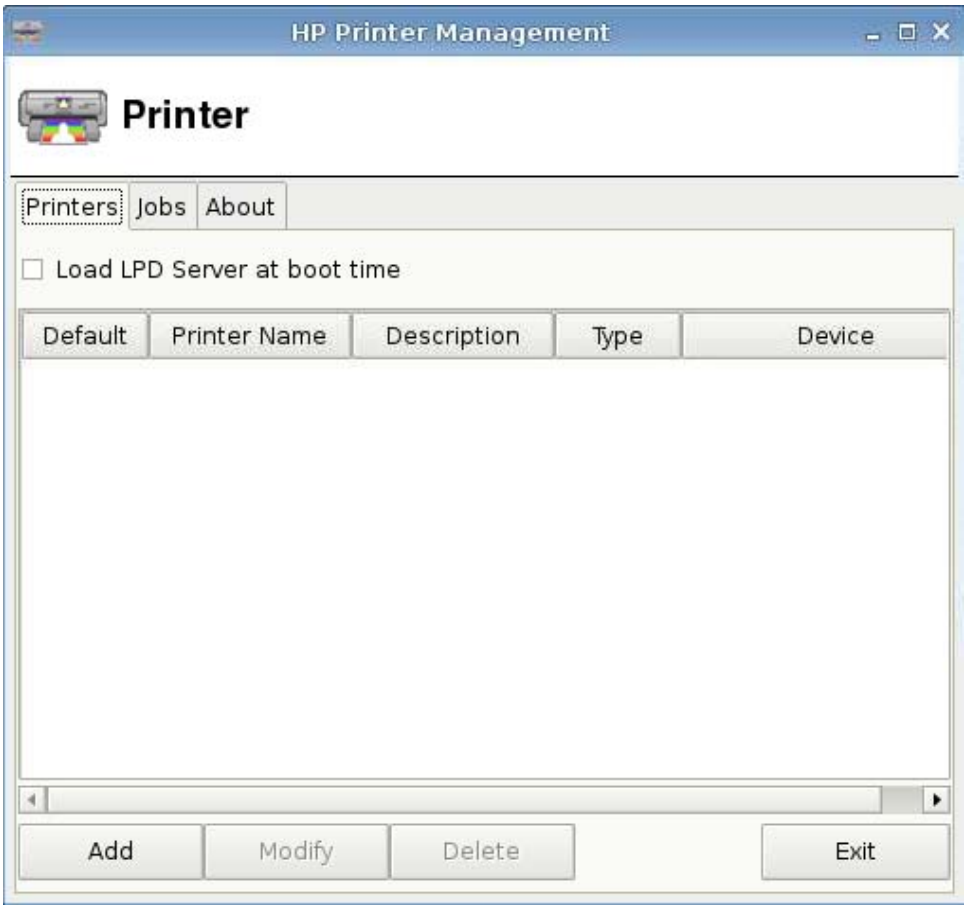
▲ Select a name in the **DNS Domains** list and click **Delete**.

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

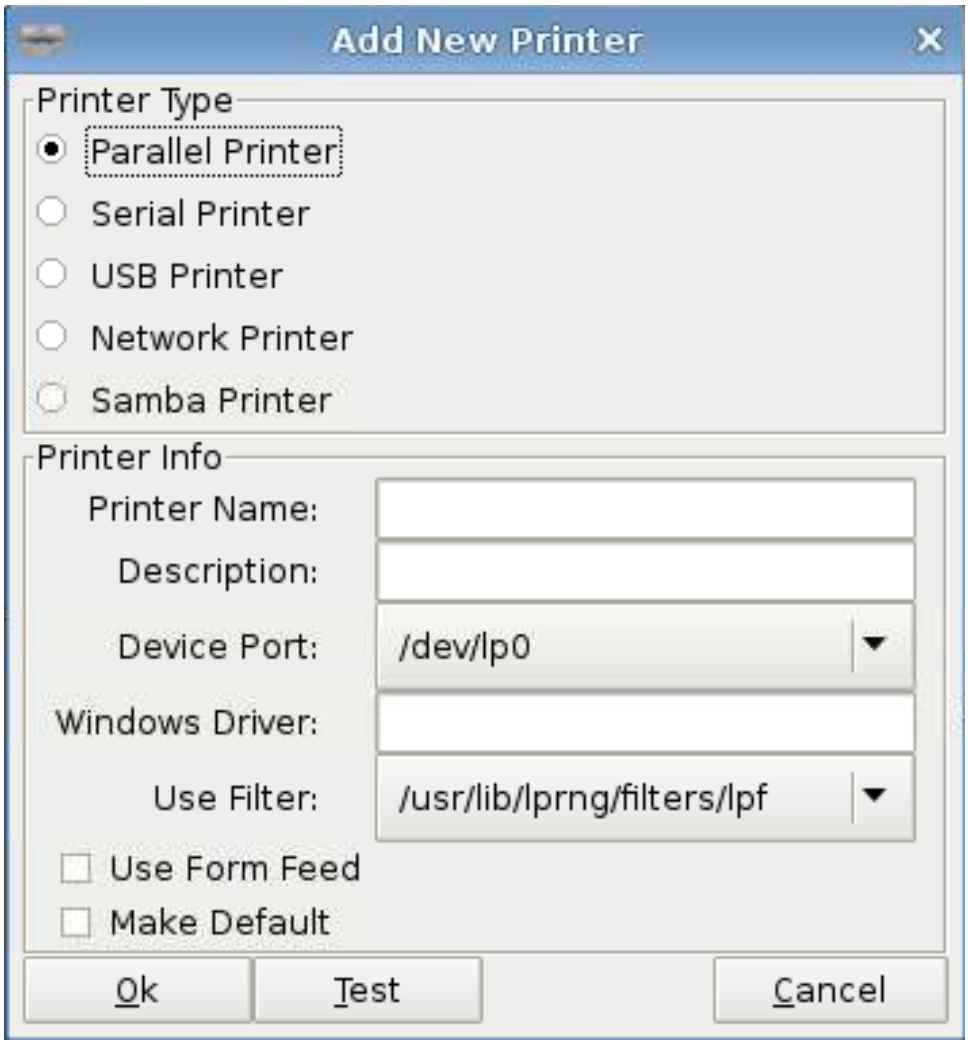
Printers Tab

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



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**.

To save the current configuration:

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

To import a profile:

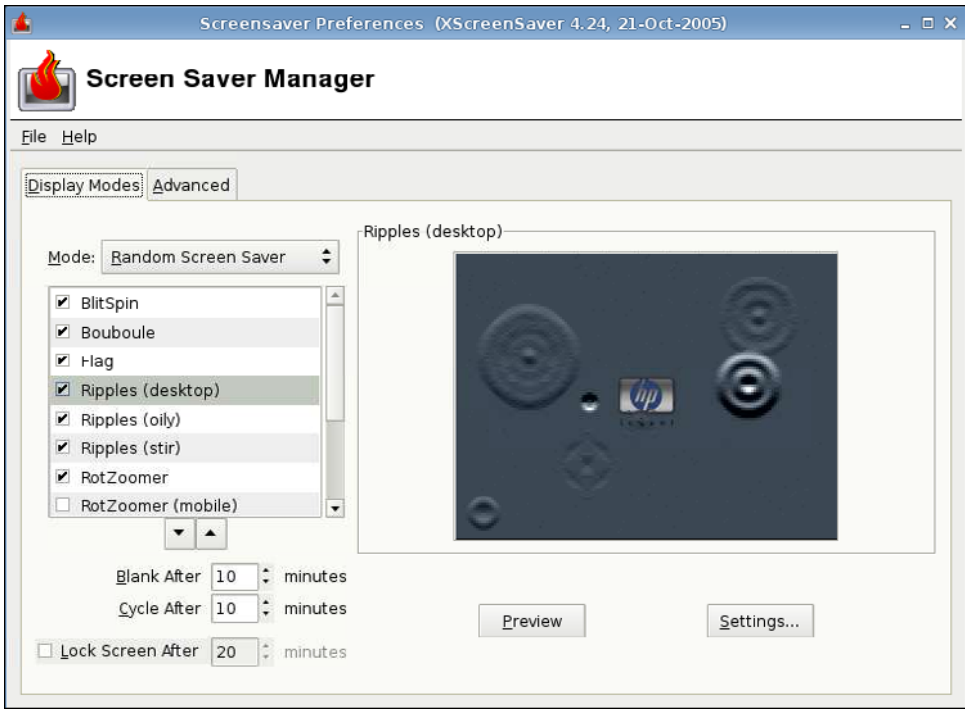
1. Click **Control Panel** > **Profile Manager**.
2. Click **Import a Profile**.
3. Browse to the profile you wish to import and click **Open**.
4. Click **Import Profile**.

   The thin client will import the selected profile and restart.

To export the current profile:

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 Modes Tab

To set display modes:

1. Click **Control Panel** > **Screensaver**.
2. Select the mode:
   - 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.

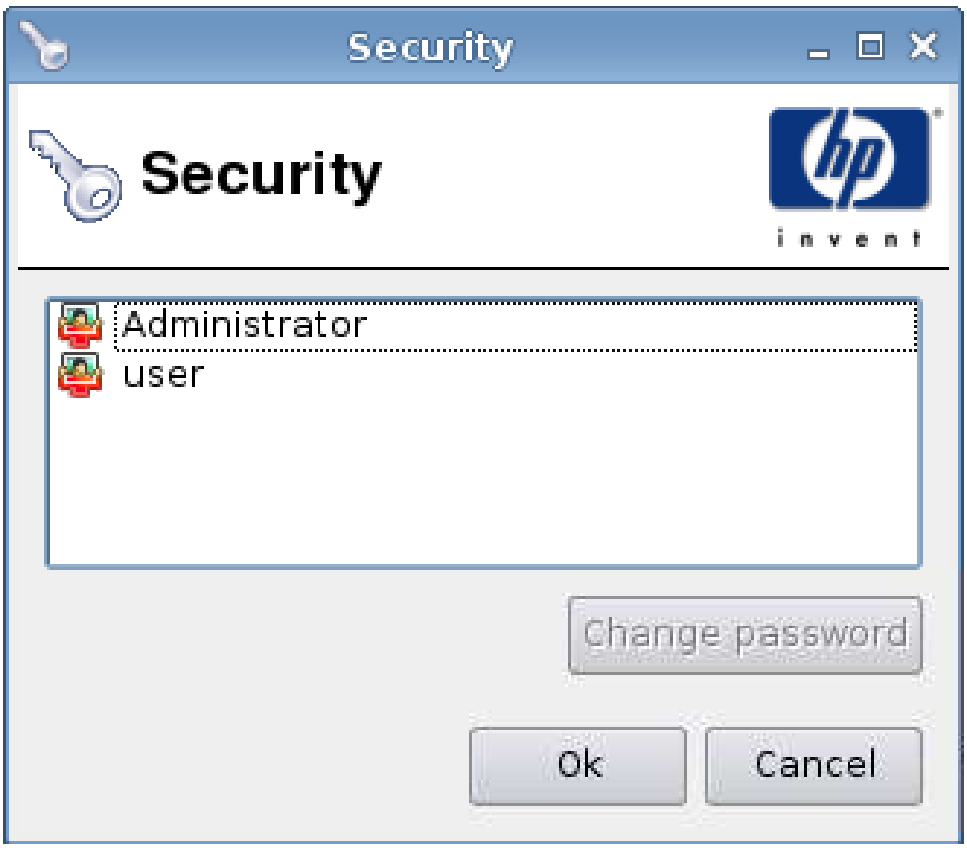
9. Click **Settings** to see settings for that screen saver.

Advanced Tab

Use this tab to set additional attributes for the display:

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

Security

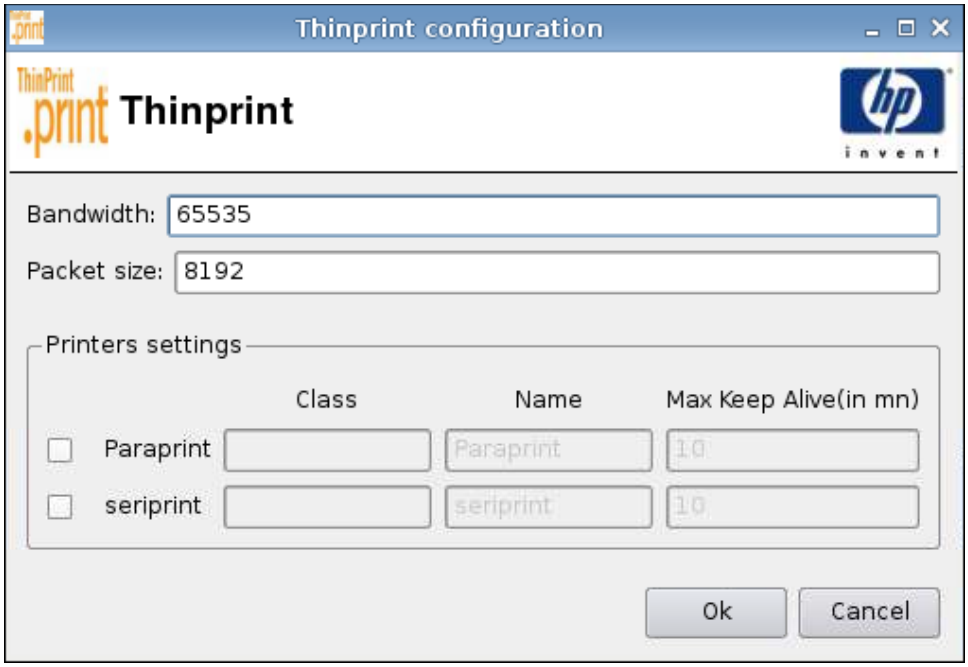


This feature allows you to change Administrator and User passwords.

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** fields and click **Ok**.
4. Click **Ok**.

ThinPrint



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 model and hardware.

- Capture Thin Client Settings to USB Drive on page 93
- Deploy Captured Settings from a USB Drive on page 95
- Capture a Thin Client Full Image to a USB Drive on page 96
- Deploy a Full Image to an FTP Site on page 97

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?

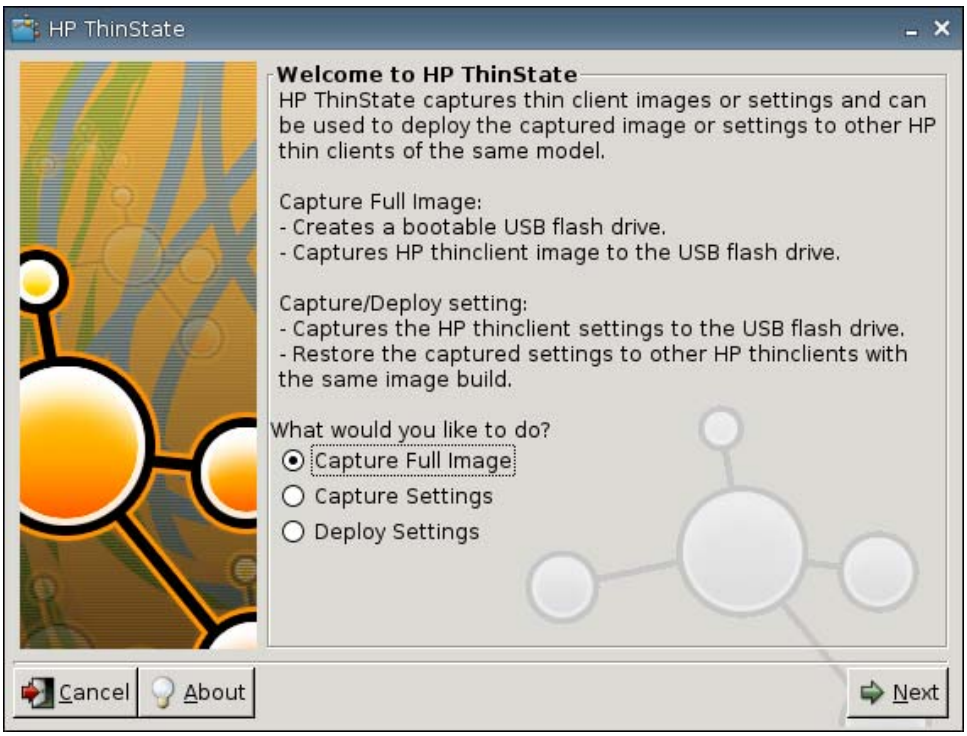
- An HP thin client unit that contains the latest HP provided image.
- An HP-approved USB flash drive.

Capture Thin Client Settings to USB Drive

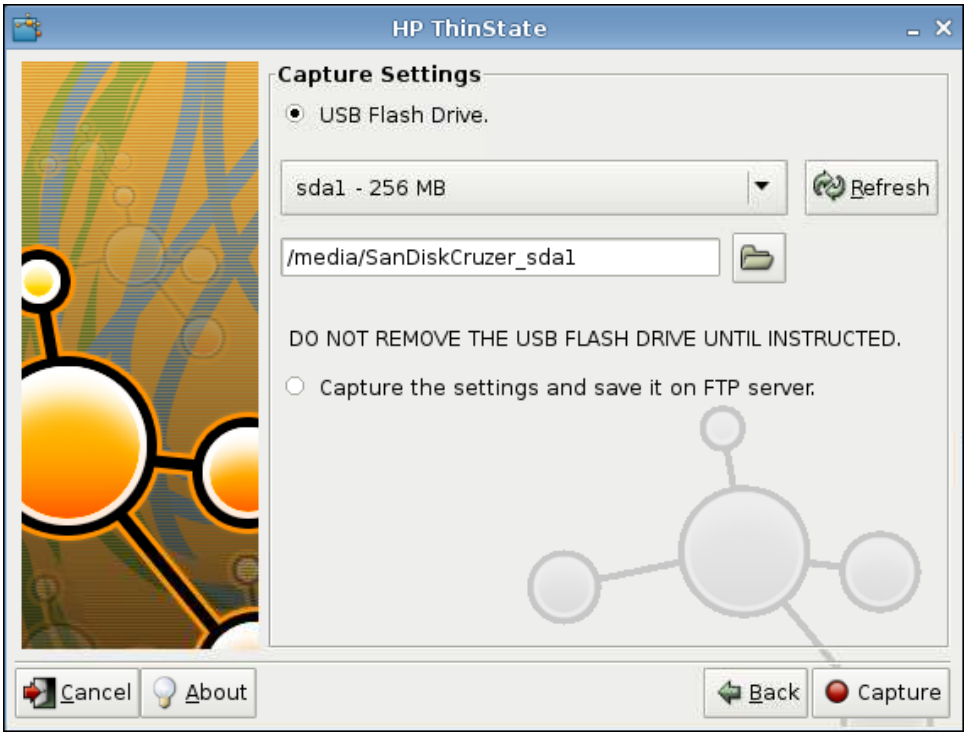
To use HP ThinState to capture thin client settings to a USB drive:

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:

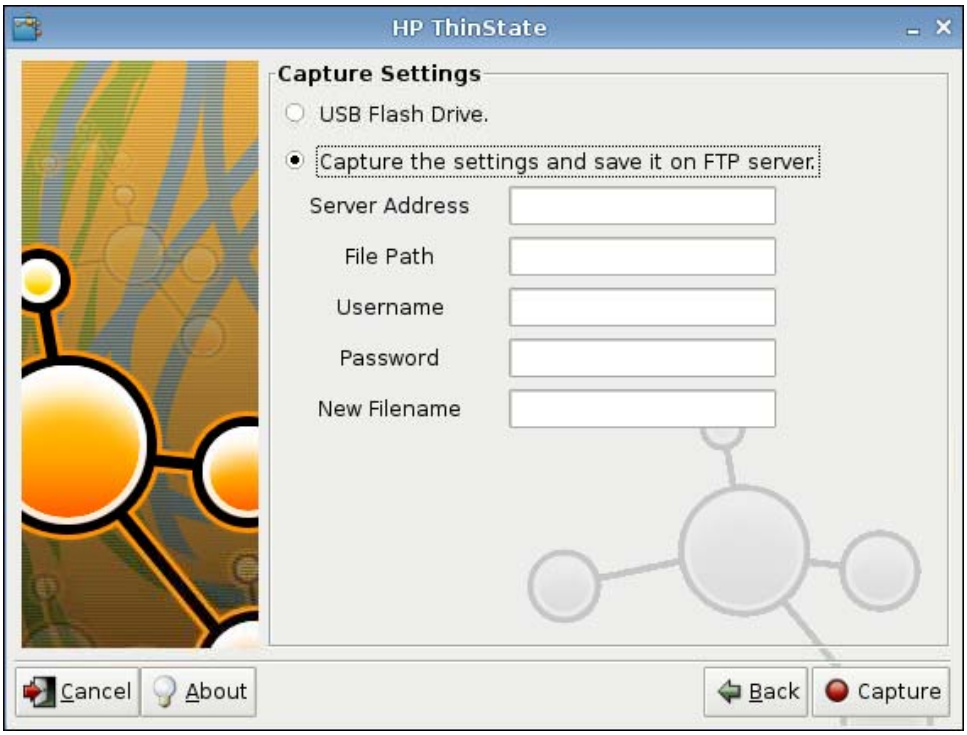


4. Select **Capture Settings**, and then click **Next**. The following window is displayed:



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.

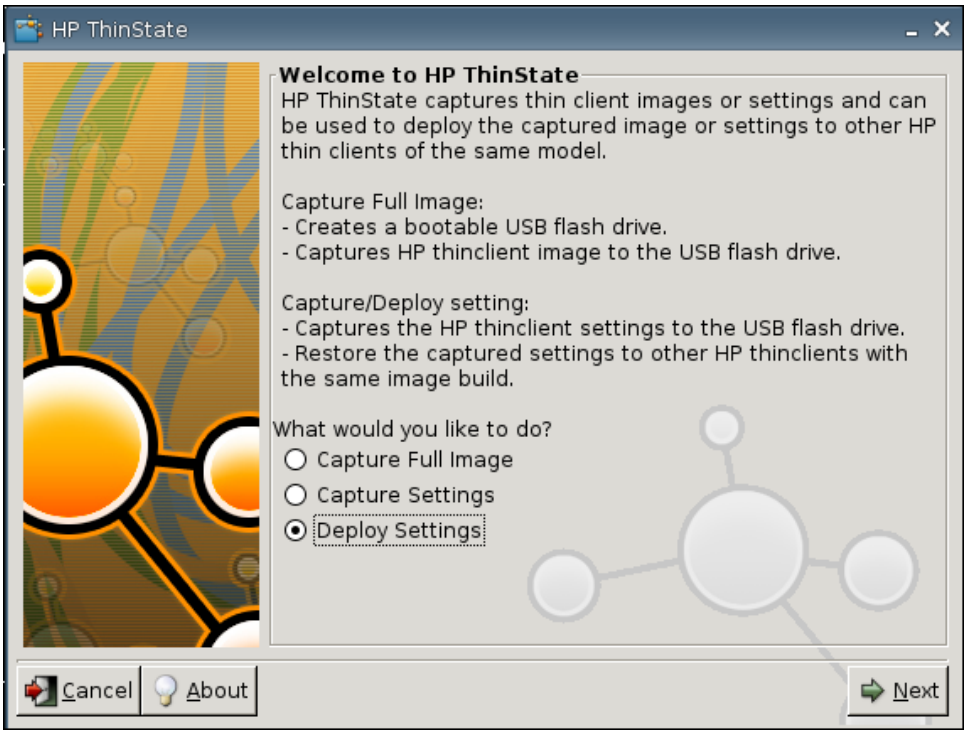
8. Close the window.

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.

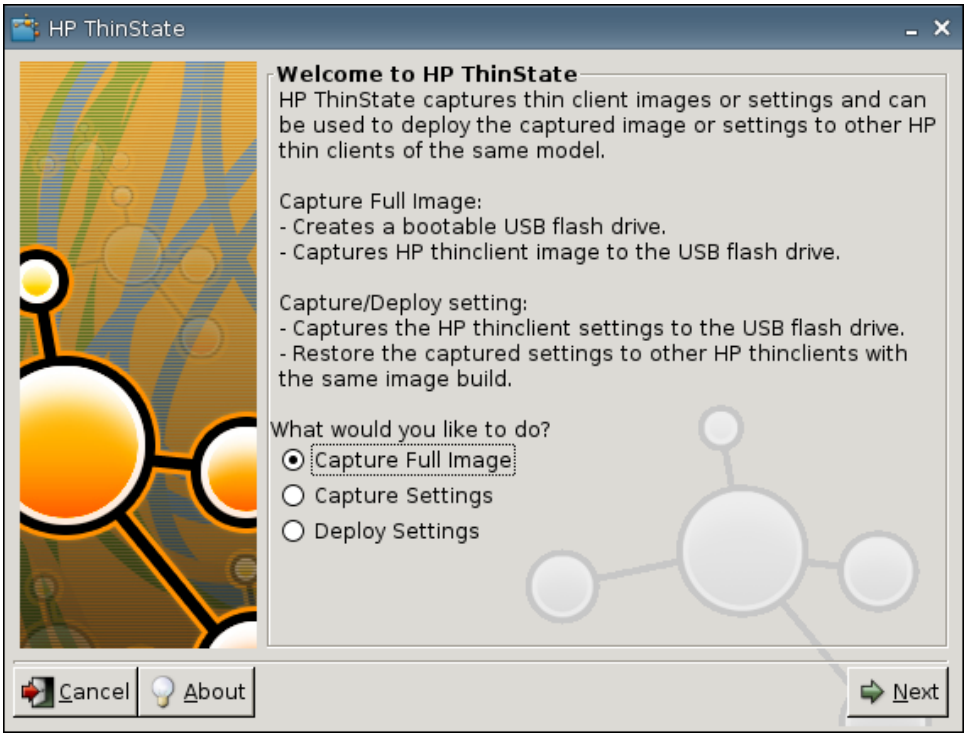
Capture a Thin Client Full Image to a USB Drive

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

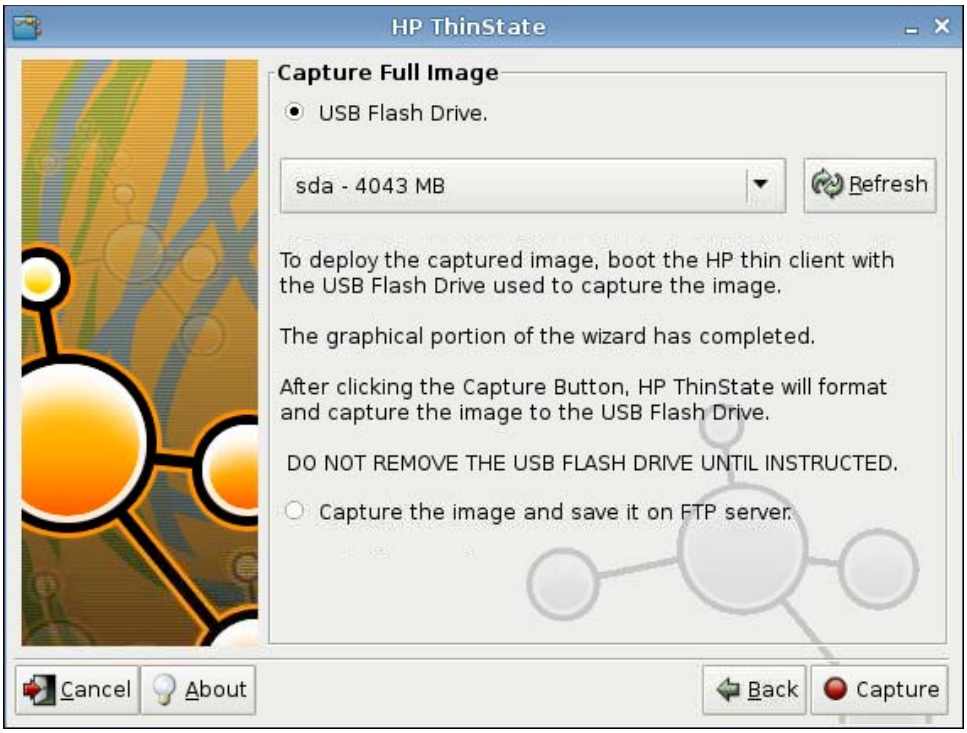
1. Attach a USB flash drive to the thin client.

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** > **ThinState**.
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.

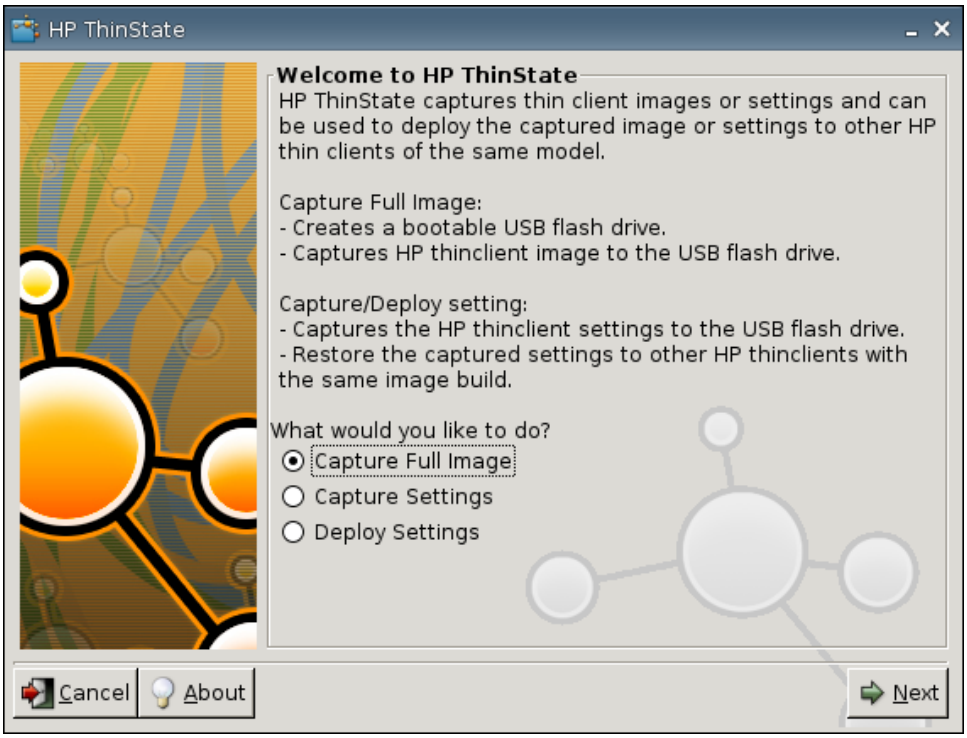
Deploy a Full Image to an FTP Site

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

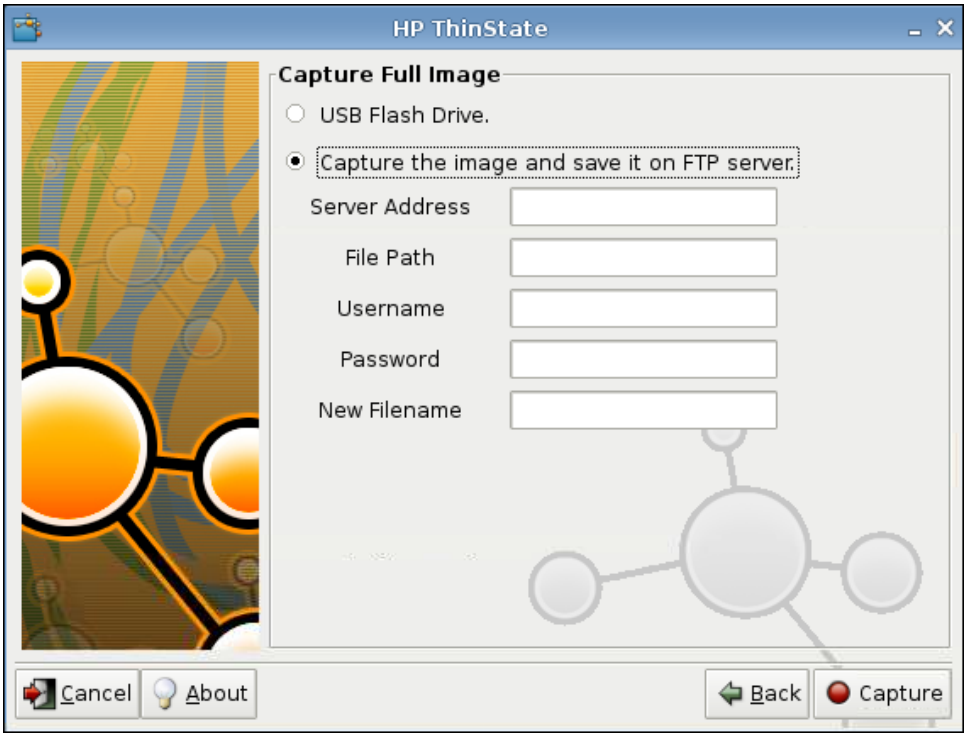
To use HP ThinState to deploy a full image to an FTP site:

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

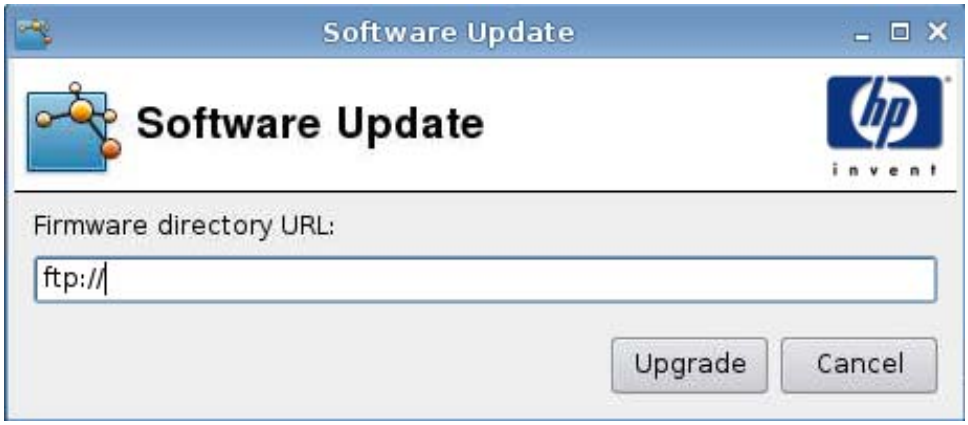
Touch Screen allows you to operate the thin client by touching the display screen.

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

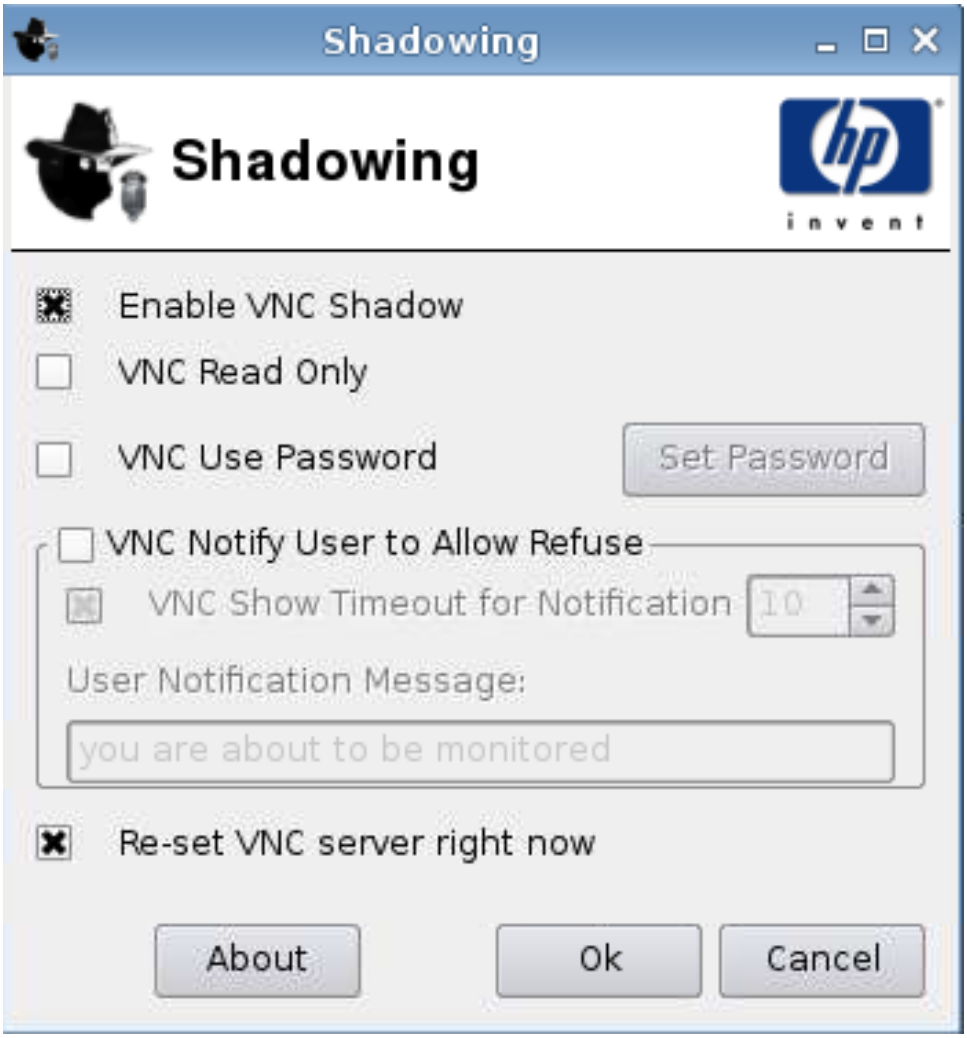
You can customize user permissions:

- 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 model and layouts

To set keyboard preferences

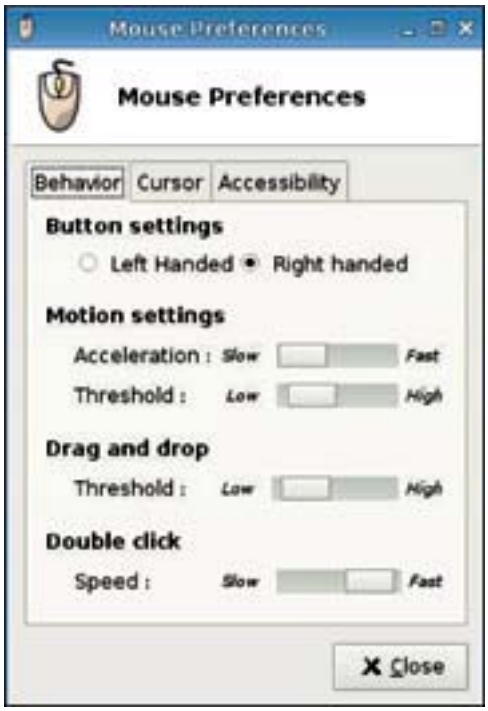
1. Click **Control Panel** > **Keyboard**.
2. Set your preferences and click **Close** to save your preferences and close the dialog box.

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.

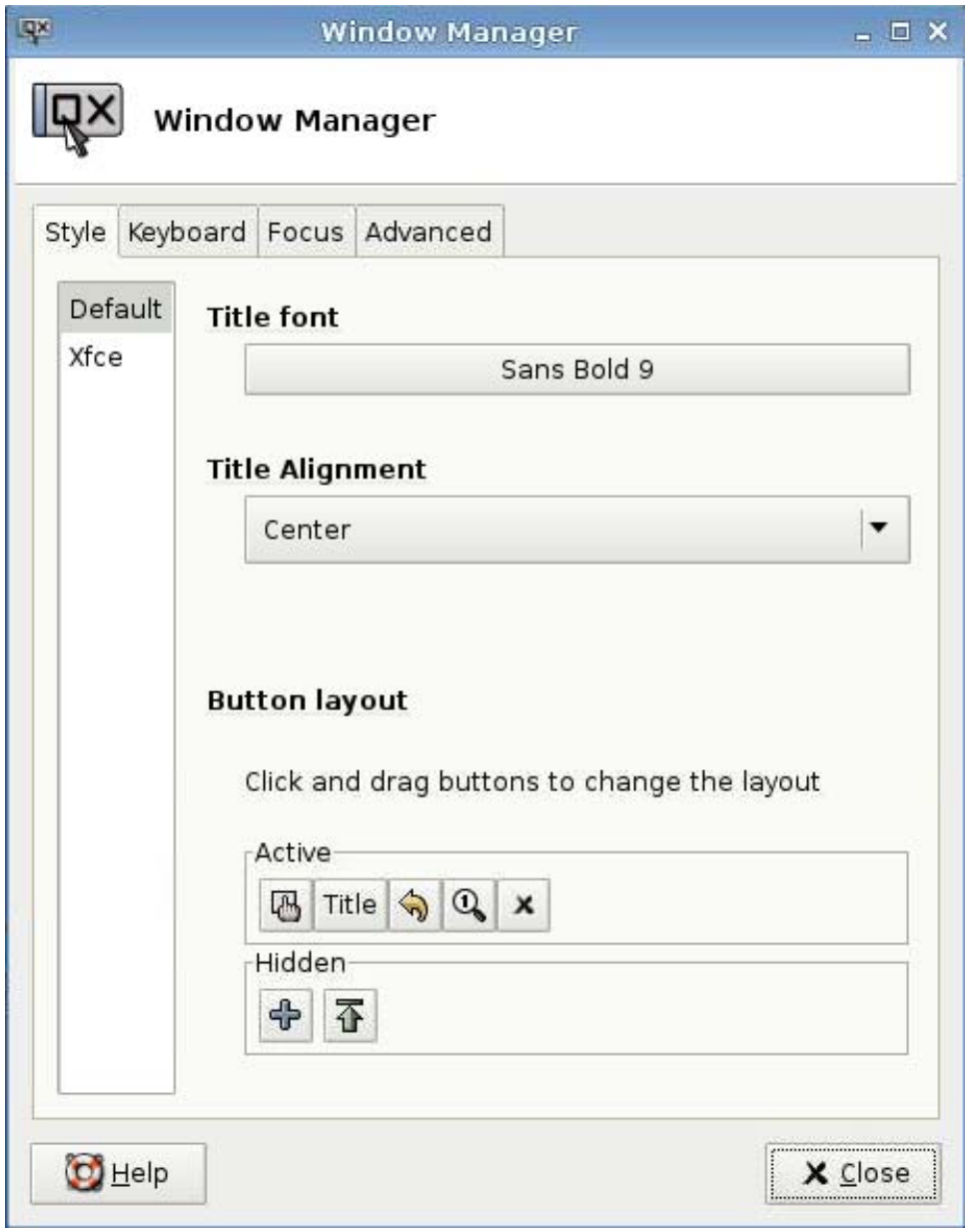
Mouse



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**.

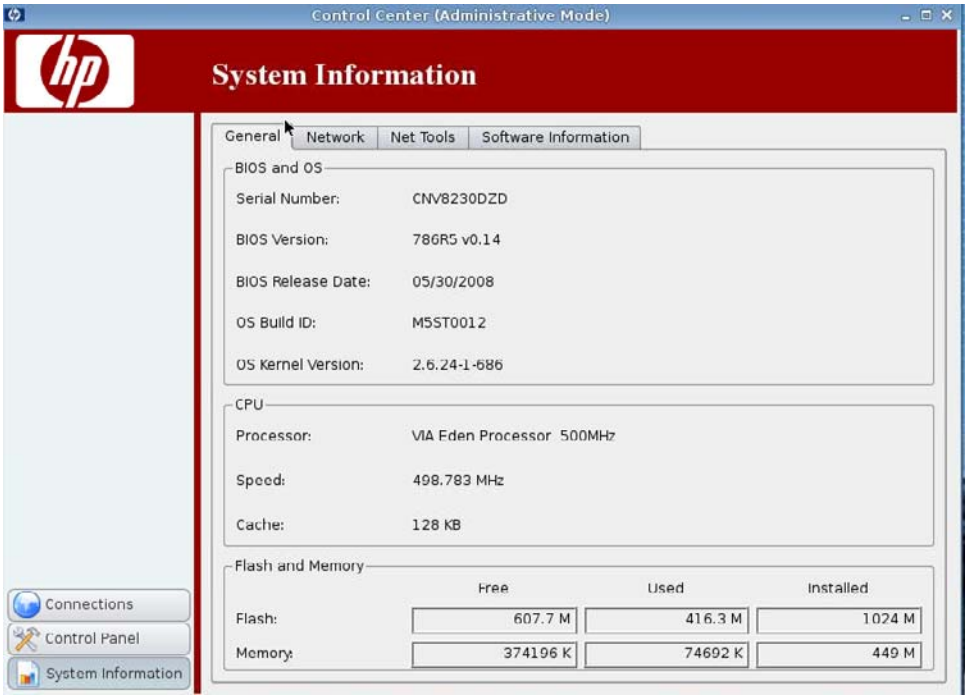
Use the **Focus** tab to specify focus parameters:

- **Focus model**
- **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 107
- Network on page 108
- Net Tools on page 109
- Software Information on page 110

General

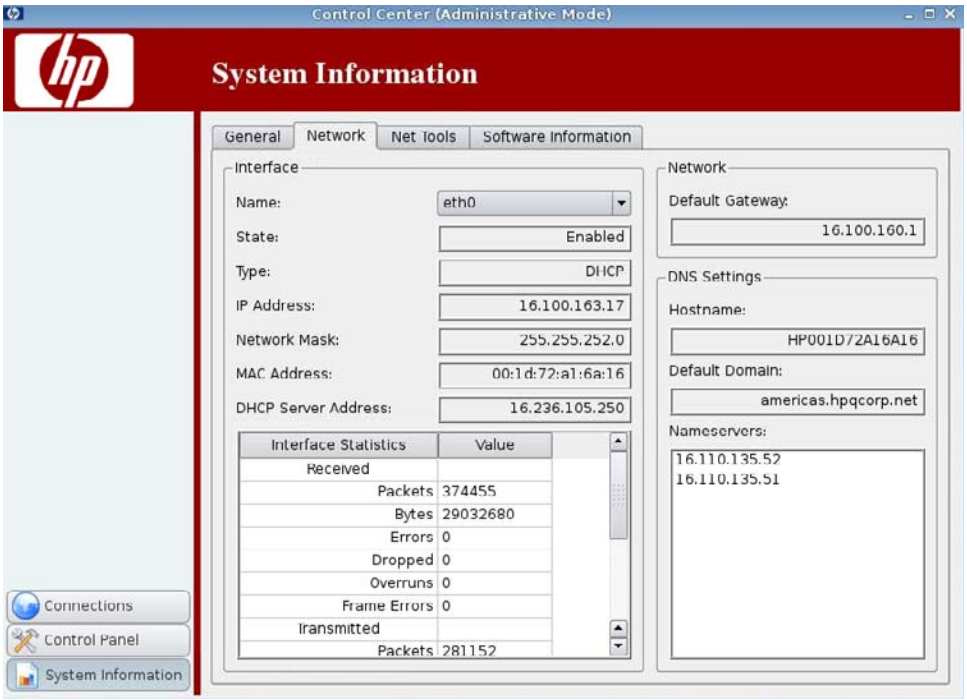
This screen displays the following information:

- 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



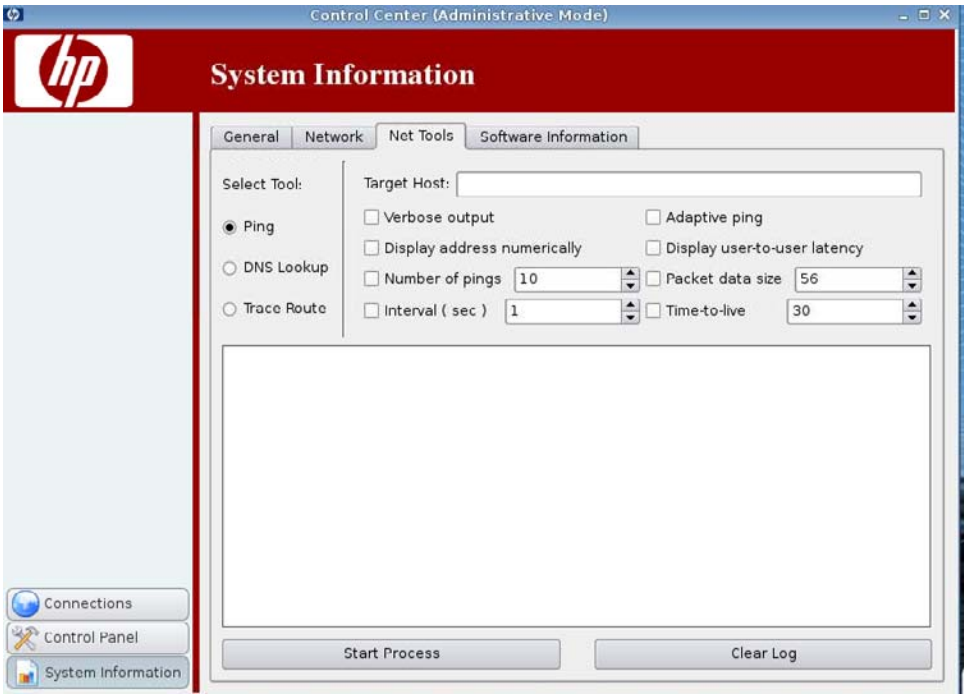
The Network screen displays the following information:

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

- DHCP Server Address
- Interface Statistics

- Network
  - Default Gateway
- DNS Settings
  - Hostname
  - Default Domain
  - Nameservers

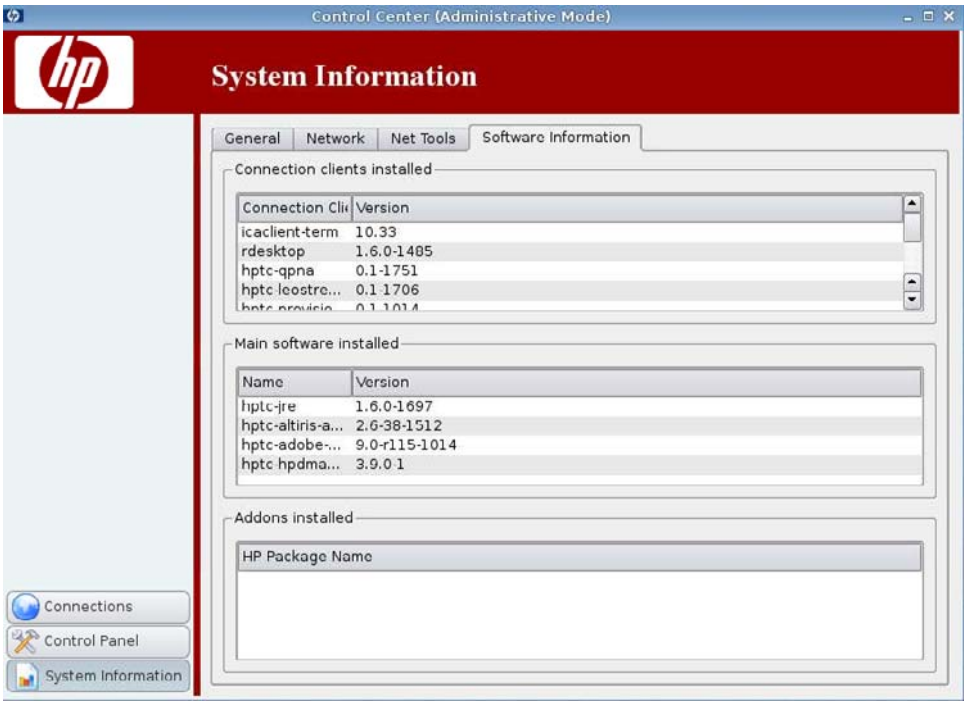
Net Tools



The Net Tools tab 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 18
  Custom 19
  Firefox 18
  ICA 18
  Leostream 18
  PNAgent 18
  Provision 18
  RDP 18
  SSH 18
  Teemtalk 18
  Telnet 19
  VMware View 18
  Xdmcp 18
administrator, log in as 5
Agent Config 68
Altiris configuration 68

B

boot logo
  create theme 70
  install theme 71
  remove theme 71
  select theme 71

C

Citrix ICA
  adding connection 18
  Application options 19
  Common Settings options 19
  configuring connection 7
  Connection options 19
  Firewall options 19
  Firewall settings 11
  Keyboard Shortcuts settings 11
  Local Resources settings 11
  Network options 19
  options 18
  Options settings 11
  Server Location settings 11
  Smart Ping options 19
  Window options 19
  Window settings 11
connect 6
connection, adding
  Citrix ICA 18
  Custom 19
  Firefox 18
  ICA 18
  Leostream 18
  PNAgent 18
  Provision 18
  RDP 18
  SSH 18
  Teemtalk 18
  Telnet 19
  VMware View 18
  Xdmcp 18
connections
  add 6
  configuring 6
  delete 6
  edit 6
  list of 6
control panel
  Altiris configuration 68
  boot logo 68
  date and time 68
  desktop background 68
  display preferences 68
  ezUpdate 68
  HP Agent Config 68
  HP ThinState 68
  keyboard 69
  language 68
  mouse 69
  network 68
  printer 68
  profile manager 68
  screen saver 68
  security 68
  shadowing 69
  software update 68
  sound 69
  ThinPrint 68
  touch screen 68
  user permissions 69
  window manager 69
copy, connections 6
Custom
  adding connection 19
  Configuration options 65
  options 19

D

date and time 68
delete printers 87
delete, connections 6
desktop background 68
disconnect 6
display preferences 68
display s screen saver 90
DNS, network 84

E

edit, connections 6
ezUpdate
  DHCP server deployment 80
  server deployment 78

F

Firefox
  adding connection 18
  Advanced options 40
  Configuration options 40
  configuring connection 7

General settings 7
options 18
Security settings 7
Tabbed Browsing settings 7

G
general settings 6
general system information 107

H
HP ThinPro 1
HP ThinState 68

I
ICA
adding connection 18
Application options 19
common Settings options 19
configuring connection 7
Connection options 19
Firewall options 19
Firewall settings 11
Keyboard Shortcuts settings 11
Local Resources settings 11
Network options 19
options 18
Options settings 11
Server Location settings 11
Smart Ping options 19
Window options 19
Window settings 11
image
thin client 1
image, thin client 1
installation 5
interfaces, network 81

J
jobs, printer 87

K
keyboard 69

L
language 68
Leostream
adding connection 18
Advanced options 44
Network options 44
options 18

M
modify printers 87
mouse 69
Multicast 73

N
net tools, system information 107
network
DNS 84
general 83
interfaces 81
system information 107

O
options
Citrix ICA 18
Custom 19
Firefox 18
ICA 18
Leostream 18
PNAgent 18
Provision 18
RDP 18
SSH 18
Teemtalk 18
Telnet 19
VMware View 18
Xdmcp 18

P
PNAgent
adding connection 18
Advanced options 42
Configuration options 42
options 18
printer 68
printer jobs 87
printers
add 86
delete 87
list of 86
modify 87
profile manager 68
Provision
adding connection 18
Advanced options 47
Experience options 47
Local Resources options 46
Network options 46
Options 46
options 18
Window options 46

R
RDP
adding connection 18
Advanced options 29
configuring connection 7
Experience options 29
Local Resources options 29
Network options 29
Options 29
options 18
settings 7
Window options 29

S
screen saver
advanced 91
display s 90
security 68
shadowing 69
software information, system information 107
software update 68
sound 69
SSH
adding connection 18
Advanced options 59
Configuration options 59
options 18
system information
general 107
net tools 107
network 107
software information 107

T
TCP 73
Teemtalk
adding connection 18
adding connection manually 34
adding connection with wizard 34
advanced options 37, 40
configuration options 39
connection information 36
finalization 38
options 18

Telnet
adding configuration 19
Advanced options 63, 66
Configuration options 63
options 19
thin client image 1
thin client, installation 5
ThinPrint 68
ThinPro 1
ThinState
capture full image to USB drive 92
capture thin client settings to USB drive 92
deploy captured settings from USB drive 92
deploy full image to FTP site 92
time and date 68
touch screen 68

U

user
interface, HP ThinPro 1
log in as 5
permissions 69

V

VMware View
adding connection 18
Advanced options 54
Network options 54
options 18, 54

W

window manager 69

X

Xdmcp
adding connection 18
Advanced options 58
Configuration options 58
options 18