

Dell Wyse Windows 10 IoT Enterprise for Wyse 7040 Thin Client

Administrator's Guide



Notes, cautions, and warnings

 | **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 | **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 | **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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Introduction

Supported clients running Dell Wyse Windows 10 IoT Enterprise for Wyse 7040 Thin Client provides access to applications, files, and network resources within Citrix, Microsoft, VMware and Dell vWorkspace environments, and other leading infrastructures. It includes Embedded Enabled features and connection broker related client software's for VDI environment such as RDP, Citrix Receiver, and VMware Horizon View. The thin client contains a full featured Internet Explorer browser and thin client emulation software called Ericom PowerTerm Session Manager.

Dell Wyse technical support

To access technical resources self-service portal, knowledge base, software downloads, registration, warranty extensions/ RMAs, reference manuals, and so on, visit www.dell.com/wyse/support . For Customer Support, visit [Dell Support Website](#) , and phone numbers for Basic and Pro Support are available at www.dell.com/supportcontacts .

NOTE: Before proceeding, verify if your product has a Dell service tag. For Dell service tagged products, go to [Dell Wyse Support Website](#) for more information.

Related documentation and services

Fact sheets containing features of hardware products are available on the Dell Wyse website. Go to Dell Support web site, and check the Fact Sheet for your product.

To get support for your Wyse product, check your product Service Tag or serial number.

- For Dell service tagged products, find knowledge base articles and drivers on the Dell Wyse product pages.
- For Non-Dell Service Tagged Products, find all the support needed by accessing the Wyse support domain.

Dell Wyse online community

Dell Wyse maintains an online community where users of our products can seek and exchange information about user forums. Visit the Dell Wyse online community forums at: en.community.dell.com/techcenter/enterprise-client/wyse_general_forum/.

Getting Started

This section describes the activities that you can perform to start using your thin client device. You can also find information related to the available desktop features. When you boot your thin client device for the first time, what you see on the desktop depends on the administrator configurations. You can log in to the thin client device as a user or an administrator. Administrator can configure a user account to log on automatically or manually by entering the login credentials.

To get started using your thin client device, see:

- [Automatic and Manual Logon.](#)
- [Before Configuring your thin clients.](#)
- [Using the Start Menu.](#)
- [Using the Search Box.](#)
- [Using Action Center.](#)
- [Grouping Applications into Desktops.](#)
- [Connecting to a Printer or an External Device.](#)
- [Connecting to a monitor.](#)
- [Logging Off.](#)

Topics:

- [Logging On](#)
- [Using Your Desktop](#)
- [Before Configuring your Thin Clients](#)
- [Connecting to a Printer or an External Device](#)
- [Connecting to a Monitor](#)
- [Power State](#)

Logging On

Whatever we view during the turn on or during the reboot of thin client device depends on the administrators configuration. After creating user account, an administrator can configure a user account to log on automatically or require manual logon with user credentials.

For more information, see [Managing Users and Groups with User Accounts](#)

NOTE:

- Be sure to disable the Unified Write Filter (UWF) before you change a password on the thin client, and then enable the UWF after your change. For more information, see [Before Configuring your thin clients.](#)
- To change the password, hold CTRL+ALT+DEL key combination, and then click **Change a password**. However, this feature is not applicable for **User** accounts.

Automatic and Manual logon

When the user starts the thin client, the user will automatically log on to the user desktop by default.

IMPORTANT: The Windows icon on the taskbar is the start menu button.

To log on as a different user or administrator:

- 1 Click **Start Menu > User > Sign Out** to log off the current desktop.
- 2 Click anywhere on the lock screen to view the **logon** window.
- 3 You can view the user accounts list on the left-lower corner of your screen. Click the preferred user account and then enter the logon credentials.
 - **Administrators** — The default username is **Admin** and default case-sensitive Password is **DellCCCvdi**.
 - **Users** — The default username is **User** and default case-sensitive Password is **DellCCCvdi**.
 - **Customized User**— Log in to your thin client by entering the user credentials which you have set for the customized user account.

If automatic logon is not enabled, the **logon** window displays when you boot the thin client device. You can log in using the options mentioned in **step 2**.

NOTE: If auto logon is enabled and you log off from your current desktop, the lock screen is displayed. Click anywhere on the lock screen to view the Logon window. Use this window to log in to your preferred admin or user account.

Using Your Desktop

Based on admin configurations, you are able to view the thin client desktop after logging on.

The **Thin Client Admin Desktop** typically consists of the following:

- **Admin Taskbar** — It includes,
 - The Start Menu button
 - The Search box
 - Quick Launch Bar icons
 - Task View
 - Notification area in the extreme right of the taskbar

NOTE: On the extreme right of the taskbar, click the New notifications icon to open the Action Center window. For more information about the Action Center, see [Using Action Center](#).

- **Standard Desktop Icons** — It includes
 - Citrix Receiver
 - Dell Thin Client Application
 - Ericom Connect WebConnect Client
 - Internet Explorer
 - PowerTerm Terminal Emulation
 - Remote Desktop Connection
 - VMware Horizon Client
 - vWorkspace
 - Dell Wyse WF Disable
 - Dell Wyse WF Enable

In addition to the Standard Desktop Icons, an extended set of resources for configuring user preference settings and system administration is included in the administrator Control Panel. To open Control Panel, click **Start Menu > All apps > Control Panel**. For more information, see [Admin Specific Features](#).

Using the Start Menu

The Start Menu helps you to access all programs, folders and settings on your thin client. It contains a list of applications that are installed on your thin client.

To open the Start Menu:

- 1 Log in as an Admin.
- 2 Click the **Start Menu** button in the lower-left corner of the screen.

 **NOTE:** You can also open the Start menu by pressing the Windows logo key on your keyboard.

- 3 From the Start Menu, you can use the following options to navigate through the available applications or configure the settings:
 - **File Explorer**— File Explorer has a new Quick Access view. Whenever you open a file browser window, you can view the list of frequent folders.
 - **Settings**—Use this option to open the **Settings** window and configure some common Windows settings. The available settings are:
 - **System** — To configure the Display, Notifications, apps and power settings.
 - **Devices** — To configure the Bluetooth, Printer and mouse settings.
 - **Network and Internet** — To configure the Wi-Fi, airplane mode and VPN settings.
 - **Personalization** — To configure the Background, lock screen and colors settings.
 - **Accounts** — To configure your account settings.
 - **Time and Language** — To configure the speech, region and date settings.
 - **Ease of Access** — To configure the Narrator, magnifier and high contrast settings.
 - **Privacy** — To configure the location and camera settings.
 - **Update and Security**— To configure the Windows update, recovery and backup settings.
 - **Power** — You can sleep, restart or turn off your thin client. For more information, see [Power State](#).
 - **All Apps** — Click **All Apps** to view full list of your applications and programs.

 **NOTE:** On the Start Menu, you can view the list of frequently used applications under **Most Used**.

Using the Search Box

Use the search box on the taskbar to look for applications, files or settings on your Windows.

The Search box helps you find things and information on your Windows. To use the Search box:

- 1 Type what you are searching for in the search box on the taskbar.
- 2 In **My stuff**, you can find results for files, applications or settings across your thin client. The suggestions and results related to your searched item is displayed in the **My Stuff** home.
- 3 Click the result to open the application or file you searched for.

 **NOTE:** To search for local files or folders on your thin client, you can use the following guidelines:

- 1 On the Start Menu, click **File Explorer**.
- 2 In the upper-right corner of the window, type the name of the file or folder you are searching for in the **Quick Access** search box.
You can view the search results in the **File Explorer** window.

Using Action Center

Action center puts important notifications from Windows and your applications right on the taskbar, along with quick actions, which get you to your most-used settings and applications instantly.

To view your notifications and quick actions, click the **Action center** icon on the taskbar. You can also press **Windows logo key + A**.

- **Notifications at a glance:** When a notification appears on your desktop or when you view it in action center, expand it to read more or take action without having to open the related application. You can also clear the notification by selecting and dragging it off screen to the right, or by selecting the **close** button.
- **Quick Action icons:** Quick Action icons allow you to access **All Settings** and applications you are likely to use often, from Bluetooth to VPN. When you open action center you will see all your available quick actions. Select the **Expand** option to see the settings and applications, which is used more often.

The following are the **Quick Action** options in the Action Center:

- **Tablet Mode:** Tablet mode makes Windows easier and more intuitive to use with touch on devices such as 2-in-1s, or when you do not want to use a keyboard and mouse. To turn on tablet mode, click the **Action Center** icon on the taskbar, and then select **Tablet Mode**.
- **Connect:** Use this option to connect to your wireless and bluetooth devices.
- **All Settings:** Use this option to quickly configure some common windows settings. For more information, see [Using the Start Menu](#).
- **VPN:** Use this option to open the **Network & Internet** window and add or configure a VPN connection.
- **Quiet hours:** Click this option, if you do not want to receive any notifications in the action center.

Grouping Applications into Desktops

Create virtual desktops, to group your applications together. In the taskbar, click the **Task View** icon, and then in the **New Desktop**, open the applications you need.

To move applications between virtual desktops, click **Task View**, and then drag the application you want from one desktop to another.

Before Configuring your Thin Clients

Unified Write Filter Utility and NetXClean Utility are meant to protect your thin clients. These utilities prevent your thin client configurations from persisting after logoff and restart. The local settings and profile configurations you change are removed by utilities. These utilities prevent undesired flash memory writes and clean-up extraneous information from being stored on the local disk.

However, there are instances where administrators want configurations to persist even after logoff and restarting a thin client.

 **NOTE: To configure and manage multiple thin clients, see [Dell Cloud Client Computing](#).**

Brief Introduction about NetXClean Utility

NetXClean is a clean-up that keeps extraneous information from being stored on the local disk. If you want to retain certain profile configurations such as printers, monitors and other peripherals, be sure to configure NetXClean in order to refrain from cleaning up explicitly declared profiles.

For more information, see [Understanding the NetXClean Utility](#).

Connecting to a Printer or an External Device

You can connect to direct USB interface printers or to parallel printers to your thin client device through a USB port. For parallel printers, ensure that you have a USB-to-parallel printer adapter cable. You also need to install the driver for the printer by following the printer driver installation instructions.

NOTE:

To connect to the printer, you add the printer to the thin client device by using the Add Printer wizard. For more information, see [Adding Printers](#).

If you want to connect to an external device, you add the device to the thin client device. For more information, see [Adding Devices](#).

Connecting to a Monitor

Depending on your thin client device model, with proper monitor cables, splitters or adapters you can connect to a monitor using the following:

- A Display(digital) port
- A HDMI port

For more information on configuring a dual monitor display, see [Configuring Dual Monitor Display](#).

Power State

You can change the power state options of the thin client device by following the steps mentioned here:

- 1 On the taskbar, click the **Start** button.
- 2 Click **Power** on the start menu, and select any of the options:
 - **Sleep**– This mode uses little power, your thin client device starts up faster.
 - **Shut down**– Preferred for orderly closing of the operating system.
 - **Restart**–The thin client device is turned off and turned on instantly.

You can also use the power state options by pressing the ALT+F4 key combination, and then selecting your preferred option from the drop-down list.

NOTE: If automatic logon is enabled, the thin client will immediately log on to the default user desktop.

Notable Features

When you log in to your thin client as an Administrator or a User, the Windows desktop displays certain notable features in the **All apps** menu.

You can perform the following activities:

- To browse the Internet, use Internet Explorer, see [Browsing the Internet with Internet Explorer](#).
- View client information, see [Using the Dell Thin Client Application](#).
- Configure Citrix Receiver session services, see [Configuring Citrix Receiver Session Services](#).
- Configure remote desktop connections, see [Configuring Remote Desktop Connection Session Services](#).
- Configuring the VMware Horizon Client, see [Using VMware Horizon Client to connect to a Virtual Desktop](#).
- Use Ericom–Powerterm Terminal Emulation, see [Using Ericom PowerTerm Terminal Emulation](#).
- Use Ericom Connect-WebConnect Client, see [Using Ericom Connect-WebConnect Client](#).
- Configure vWorkspace connections, see [Configuring a vWorkspace Connection](#).
- Microsoft Lync VDI 2013 plug-in, see [Microsoft Lync VDI 2013 plug-in](#).
- SCCM Client 2012 R2, see [SCCM Client 2012 R2](#).
- .Net Framework v4.6.1, see [.Net Framework v4.6.1](#).
- Message Queuing (MSMQ), see [Message Queuing \(MSMQ\)](#).
- Simple Network Management Protocol (SNMP), see [Simple Network Management Protocol \(SNMP\)](#).
- Using the Intel vPRO, see [Using the Intel vPRO](#).
- Silverlight, see [Silverlight](#).
- Branch Cache, see [Branch Cache](#).
- Direct Access, see [Direct Access](#).

NOTE: Keyboard Caps Lock Indicator Application — Dell Keyboard driver software (KM632) is included in this release. This software provides Caps Lock status indication on the desktop. After you log in to your thin client, when you press the Caps Lock key to enable the Caps Lock feature, the lock symbol is displayed on the desktop. Again, if you press the Caps Lock key to disable the Caps Lock feature, the unlock symbol is displayed on the desktop.

Topics:

- [Browsing the Internet with Internet Explorer 11](#)
- [Using the Dell Thin Client Application](#)
- [Configuring Citrix Receiver Session Services](#)
- [Configuring the Remote Desktop Connection Session Services](#)
- [Using VMware Horizon Client to Connect to a Virtual Desktop](#)
- [Configuring a vWorkspace Connection](#)
- [Using Ericom Connect-WebConnect Client](#)
- [Using Ericom PowerTerm Terminal Emulation](#)
- [Microsoft Lync VDI 2013 plug-in](#)
- [SCCM Client 2012 R2](#)
- [.Net Framework v4.6.1](#)

- [Message Queuing \(MSMQ\)](#)
- [Simple Network Management Protocol \(SNMP\)](#)
- [Using the Intel vPRO](#)
- [Silverlight](#)
- [Branch Cache](#)
- [Direct Access](#)

Browsing the Internet with Internet Explorer 11

To open Internet Explorer 11, do either of the following:

- On the **Start Menu**, click **All Apps > Windows Accessories**, and then click **Internet Explorer**.
- Double-click the **Internet Explorer** icon on the desktop.

NOTE:

- Internet Explorer has internet option settings that are preselected at the factory to limit writing to disk. These settings prevent exhaustion of the limited amount of disk space available and you should not modify these settings.
- The protected mode status of the internet Explorer is **Off**. This is because User Access Control (UAC) is enabled by default. However, UAC notifies you before changes are made to your client, that you require administrator-level permission. The Unified Write Filter (UWF) contained in the build continues to protect your system. For more information, see [Before Configuring your thin clients](#).
- Internet Explorer (IE) cache settings are 100 MB. Temporary internet files, cache, history locations are set to drive C instead of drive Z to support IE 11 completely.

Using the Dell Thin Client Application

Use the Dell Thin Client Application to view the general information about the thin client device, Custom fields, RAM Disk, Auto Logon, System Shortcuts, and Support information.

To access the **Dell Thin Client Application** page:

On the Admin/User desktop, click **Start menu > All Apps > Dell Thin Client Application** to open the page. You can also access the **Dell Thin Client Application** by clicking the **Dell Thin Client Application** icon on the desktop.

In the left navigation bar, click the following tabs:

- **Client Information**— Displays the following thin client device information.
 - Under the **Product Info** category, the following attributes are listed:
 - Product Name
 - Product ID
 - Model Name
 - Product Version
 - Windows Embedded Version
 - Manufacturer
 - Hardware Rev
 - OS Name
 - Serial Number

- Website
- Localized Language
- Product Activation Status
- Under the **CPU** category, the following attributes are listed:
 - Name
 - Speed
 - Address Width
 - Data Width
- Under the **Memory/Storage** category, the following attributes are listed:
 - RAM Memory
 - Flash
 - System Partition
- Under the **BIOS** category, the following attributes are listed:
 - Version
 - Manufacturer
- Under the **Network** category, the following attribute is listed:
 - MAC (IP Address)
- Under the **User** category, the following attributes are listed:
 - User
 - Domain
- **QFE** — Displays the list of Microsoft QFEs (previously known as hot fixes) applied to the thin client device.
- **Installed Products** — Displays the list of applications that are installed on the thin client device.
- **WDM Packages** — Displays the list of WDM Packages that have been applied to the thin client. For more information, see [WDM software for Remote Administration](#) .
- **Copyrights/Patents** — Displays copyrights and patents information.

When logged in as an administrator, you can view the tabs such as **Custom Fields**, **RAM disk**, **Auto Logon**, **System Shortcuts**, and **About and Support** on the Dell Thin Client Application page. For more information about using these options, see [Admin Specific Features](#). In the **About and Support** tab, you can view the information related to the Application Version, Support Directory, Export support data and HTML view.

NOTE: The information shown in the dialog box varies for different thin client devices and software releases.

When you log in as a user, only few tabs such as **Client Information**, **QFE**, **Installed Products**, **WDM Packages**, **Copyrights/Patents** and **About and Support** are displayed.

Configuring Citrix Receiver Session Services

Citrix Receiver is a server-based computing technology that separates the logic of an application from its user interface. The Citrix Receiver client software installed on the thin client device allows the user to interact with the application GUI, while all of the application processes are executed on the server.

Citrix Receiver session services can be made available on the network using either Windows 2008/2012 Server with Terminal Services and one of the following installed:

- XenDesktop 7.5
- XenDesktop 7.6

- XenDesktop 7.8
- XenDesktop 7.9
- XenDesktop 7.11

To install the software, use the instructions accompanying them. Make sessions and applications available to the thin client devices sharing the server environment.

NOTE:

If you use a Windows 2003/2008 Server or Citrix XenApp 5.0 with Windows Server 2008, a Terminal Services Client Access License (TSCAL) server must also be accessible on the network. The server grants a temporary license, which expires after 120 days. After the temporary license expires, purchase and install the TSCALs on the server. You cannot make a connection without a temporary or permanent license.

To configure a Citrix Receiver session:

- 1 Log in as an admin.
- 2 Access the Citrix Server using one of the following options:
 - On the **Start Menu**, click **All apps > Citrix Receiver**.
 - Double-click the **Citrix Receiver** icon on the desktop.

After you log in to the Citrix Server, the **Add Account** window is displayed.

- 3 In the **Add Account** window, enter the Server IP address and then click **Next**.
 - For secure connections, enter Fully Qualified Domain Name (FQDN).
 - For nonsecure connections, enter the IP address.

- 4 Enter the user credentials and then click **Log on**.
You can add an account by providing the IP address and you can view the details of the Citrix Receiver.

- 5 Click **Yes** and then click **Next**.
The Virtual desktop of the Citrix Receiver is displayed.

- 6 In the Virtual desktop window, click **Add Apps (+) > All Applications**.
You can select or clear the application check -boxes. The selected applications are displayed on the virtual desktop.

- 7 On the virtual desktop, click **Settings** to:
 - Refresh
 - Add or Delete Server account
 - Log-off

Configuring the Remote Desktop Connection Session Services

Remote Desktop Connection is a network protocol that provides a graphical interface to connect to another computer over a network connection.

To install the software, use the instructions accompanying them. Make sessions and applications available to the thin client devices sharing the server environment.

NOTE: If you use a Windows 2003/2008 Server or with Windows Server 2008, a Terminal Services Client Access License (TSCAL) server must also be accessible on the network. The server grants a temporary license, which expires after 120 days. After the temporary license expires, purchase and install the TSCALs on the server. You cannot make a connection without a temporary or permanent license.

To configure a **Remote Desktop Connection**:

- 1 Log in as a user or administrator.
- 2 On the **Start** menu, click **All apps > Remote Desktop Connection**, or double-click the **Remote Desktop Connection** icon on the desktop.

The **Remote Desktop Connection** window is displayed.

- 3 In the **Computer** box, enter the computer or the domain name.
For advanced configuration options, click **Show Options**.
 - a In the **General** tab, you can enter the logon credentials, edit or open an existing RDP connection, or save a new RDP connection file.
 - b In the **Display** tab, manage the display and the color quality of your remote desktop.
 - Move the slider to increase or decrease the size of your remote desktop. To use full screen, move the slider all the way to the right.
 - Select the color quality of your preference for your remote desktop from the drop-down list.
 - Select or clear the **Display the connection bar when I use the full screen** check box to display or hide the connection bar in full screen mode.
 - c In the **Local Resources** tab configure audio, keyboard, or local devices and resources for your remote desktop.
 - In the Remote audio section, click **Settings** for advanced audio settings options.
 - In the **Keyboard** section, choose when and where to apply keyboard combinations.
 - In the **Local devices and resources** section, select devices and resources that you want to use in your remote session. Click **More** for more options.
 - d In the **Experience** tab optimize the performance of your remote session based on the connection quality.

NOTE:

If you find that the Unified Write Filter cache is filling up, you can disable Bitmap caching in the **Experience** tab after clicking **Show Options** in the window.

- e In the **Advanced** tab, select the action to be taken when the server authentication fails and configure settings for connection through Remote Gateway.
- 4 Click **Connect**.
 - 5 Enter the login credentials for connecting to the remote session in the **Security** dialog box.
The remote desktop is displayed with the connection bar on the top if you select the **Display the connection bar** option in step 3 b.

Using VMware Horizon Client to Connect to a Virtual Desktop

VMware Horizon client is a locally installed software application that communicates between View Connection Server and Thin Client OS. It provides access to centrally hosted virtual desktops from your thin clients.

VMware session services can be made available on the network after you install the VMware Horizon 6. It provides virtualized or hosted desktops and applications through a single platform to end users.

To connect to a virtual desktop, use the **VMware Horizon Client** window.

To open and use the **VMware Horizon Client** window:

- 1 Log in as a user or administrator.
- 2 Access the **VMware Horizon Client** window using one of the following options:
 - On the **Start Menu**, click **All apps > VMware > VMware Horizon Client**.
 - Double-click the **VMware Horizon Client** icon on the desktop.

The **VMware Horizon Client** window is displayed.

- 3 In the **VMware Horizon Client** window, use the following guidelines:
 - a To add a new server connection, either click the **New Server** option or double-click the **Add Server** icon in the **VMware Horizon Client** window.
The **VMware Horizon Client** dialog box is displayed.
 - b In the **VMware Horizon Client** dialog box, type a host name or an IP address of a VMware Horizon Connection Server in the connection server box.

- c Click **Connect**.
- d In the **Login** dialog box, enter the user name and login password in the respective boxes.
- e From the **Domain** drop-down list, select the domain where the server is located.
- f Click **Login**.

The VMware Horizon Client connects to the selected desktop. After connection is established, the list of published desktop is displayed.

- g Right-click the particular application or desktop icon, and then click **Launch** to connect to that application or desktop.

For more information, refer to VMware Horizon Client documentation on www.vmware.com.

NOTE:

Certificate checking mode— Certificate checking mode determines how the client proceeds when the client cannot verify that your connection to the server is secure. We recommend that you do not change this setting unless instructed to do so by your system administrator.

To access the certificate checking mode, click the icon on the upper-right corner of the window, and then click **Configure SSL** from the drop-down list. In the **VMware Horizon Client SSL Configuration** dialog box, select from any of the following options based on your requirements:

- Never connect to untrusted servers
- Warn before connecting to untrusted servers
- Do not verify server identify certificates

Configuring a vWorkspace Connection

vWorkspace is a concept in which the desktop environment of a computer is separated from the physical computer and hosted as a virtual workspace on multiple environments, such as a virtual desktop infrastructure (VDI), terminal servers, and/or blade PCs running in a data center.

Workspace virtualization helps group and deliver a list of applications or desktops together as a single complete virtual workspace. It isolates and centralizes an entire computing workspace. vWorkspace provides flexible, location and platform independent access by delivering virtual workspace from multiple virtualization platforms.

To configure a vWorkspace connection:

- 1 Log in as a user or administrator.
- 2 On the **Start Menu**, click **All Apps > Dell Wyse vWorkspace**, or double-click the **vWorkspace** icon on the desktop. The **vWorkspace** window is displayed.
- 3 In the **vWorkspace** window, enter the vWorkspace Server IP, or your registered email address or website address, and then press **Enter**.
- 4 To retrieve your connector configuration from vWorkspace server, provide the Username, Password, and Domain credentials. Select the **Save Credentials (encrypted)** check box if you want to save your login credentials.
- 5 Select your preferred vWorkspace Farm location from the following options:
 - Inside Office
 - Outside Office
- 6 Click **Connect**.
- 7 In the **Login Credentials** dialog box, enter the following credentials to connect to the vWorkspace Farm:
 - Username
 - Password
 - Domain

The **vWorkspace Farm** screen is displayed.

Configuring vWorkspace Farm

After you log in to the vWorkspace Farm by using the login credentials, the vWorkspace Farm page is displayed. Use this page to configure the vWorkspace Farm.

- 1 Click **vWorkspace Farm** to view the configuration options available.
If you are successfully connected to the vWorkspace Farm, then the status of the connection is displayed in green color.
- 2 Click the **Settings** icon to configure your vWorkspace Farm settings.
 - a Select the **Automatically connect to this configuration on startup** check box to allow auto-connect to the specified configuration upon startup.
 - b From the drop-down list, select your location where you want to deploy the vWorkspace Farm. The available options are:
 - Always prompt for location
 - Use Location Inside Office
 - Use Location Outside Office
 - c Under the **Display settings** section, the following options can be configured.
 - From the **Screen Resolution** drop-down list, select your preferred screen resolution for your vWorkspace session.
 - Select the following check boxes as per your requirements:
 - Use all my monitors for the remote session
 - Display connection bar
 - Pin connection bar
 - d Under the **Device settings** section, the following options can be configured.
 - Select the following check boxes as per your requirements:
 - Play audio
 - Use USB devices
 - Use microphone
 - Click **More Devices** to select additional devices and resources on your computer that you want to use in your remote session.
- 3 Click **OK** to save your settings.
- 4 Click the **Delete** icon, if you want to delete the configured vWorkspace Farm.
- 5 Click the **Info** icon to view the Name, Type, Timestamp of your vWorkspace Farm.

The applications available on your vWorkspace Farm are listed in the **My Applications** area.

Additional configuration icons are displayed in the upper pane of the vWorkspace page.

- 1 Click the **Log Off** icon, if you want to log out from the vWorkspace Farm.
- 2 Click the **+** icon to add a new vWorkspace Farm.
- 3 Click the **Refresh** icon to refresh the application set.
- 4 Click the **Change Password** icon, if you want to change the password for your vWorkspace Farm.
- 5 Click the **Options** icon to access the following options:
 - Search (Ctrl+F)
 - Status Bar
 - Always on top
 - Hide when minimized
 - About

Using Ericom Connect-WebConnect Client

You can access the Ericom Connect-WebConnect Client either as a stand-alone application or on a network.

- 1 Accessing Ericom Connect-WebConnect Client as a stand-alone:
 - a Log in as a user or administrator.
 - b On the **Start Menu**, click **All Apps > Ericom Connect-WebConnect client > Ericom Connect-WebConnect client** or double-click the **Ericom Connect-WebConnect client** icon on the desktop.
The **Ericom AccessPad** login window is displayed.
 - c In the **Ericom AccessPad** Login window, enter your credentials, and click **Login**.
For example: User Name: **administrator@domain.com**.

Password: *********

DELL – Ericom Application Zone window is displayed.

i **NOTE:** By default, the Ericom AccessPad login window is displayed in English (US) language. To set the UI to your preferred language, click the Globe icon in the lower-right corner of the window, and select your preferred language from the drop-down list.
 - d In the **DELL – Ericom Application Zone** window, published applications such as **Blaze demo server**, **RDP demo server**, **Ericom server** and **Paint** are displayed.
Double-click any of these to access them.
You can also add your own applications from the server site.
 - e To create a shortcut on your desktop, click **Options > Create a shortcut on Desktop** in the **DELL – Ericom Application Zone** window.
 - f To log out, click **File > Logout** in **DELL- Ericom Application Zone** window.
- 2 Accessing the Ericom Connect-WebConnect client through Web Browser:
 - a Double-click the **Internet Explorer** icon.
The Internet Explorer web page is displayed.
 - b Enter the URL **https://serverIP/FQDNWebConnect6.0/AppPortal/Index.asp** to access the Ericom Power Term Emulation.
The **PowerTerm WebConnect Application Portal** page is displayed.
 - c In the **PowerTerm WebConnect Application Portal** page, enter the credentials and also specify the domain name, then click **Login**.
For example: Username: **administrator**

Password: *********

Domain Name

d After you Log in, Published Desktops and Applications such as **Blaze demo server**, **RDP demo server** and **Paint** are displayed.
Double-click any of these to access them on a new Web page.
You can also add your own applications from the server site.
 - e Click **Logout** on the left side of **PowerTerm WebConnect Application Portal** page to end the Ericom Power Term WebConnect session.

Using Ericom PowerTerm Terminal Emulation

To manage your connections, use **PowerTerm Session Manager**.

- 1 To open **TELNET : PowerTerm InterConnect for Thin Clients** window, do either of the following:
 - Double-click on **PowerTerm Terminal Emulation** icon on the desktop.
 - On the **Start Menu**, click **All Apps > Ericom PowerTerm Terminal Emulation > PowerTerm Terminal Emulation**.
- 2 In the **Connect** dialog box, in the left pane under **Session Type** select **TELNET** to configure the connection of your choice.

Microsoft Lync VDI 2013 plug-in

Microsoft Lync VDI 2013 plug-in enables you to experience local like audio and video in peer-to-peer calls and conference calls, when using Microsoft Lync 2013 in a Virtual Desktop Infrastructure (VDI) Environment.

For more information, see www.technet.microsoft.com/en-us/library/jj204683.aspx.

SCCM Client 2012 R2

Microsoft System Center 2012 Configuration Manager helps you to empower people to use the devices and applications they need to be productive, while maintaining corporate compliance and control. It accomplishes this with a unified infrastructure that gives a single pane of glass to manage physical, virtual, and mobile clients. It also provides tools and improvements that makes easier to your job easy. With SP1, it provides integration with Windows Intune to manage PCs and mobile devices, both from the cloud and on-premise, from a single administrative console.

The following are the features supported by Wyse TC are:

- Advanced Agent install
- Device Discovery
- Device Collection
- Software Distribution (through individual scripts)
- Software Updates
- Asset Intelligence
- Software metering
- UWF support
- OS Deployment

For more information, go to www.technet.microsoft.com/en-us/library/dn236351.aspx.

.Net Framework v4.6.1

The .NET Framework is a technology that supports building and running the next generation of applications and XML Web services. The .NET Framework is designed to accomplish the following objectives:

- To provide a consistent object-oriented programming environment whether object code is stored and executed locally, executed locally but Internet-distributed, or executed remotely.
- To provide a code-execution environment that minimizes software deployment and versioning conflicts.
- To provide a code-execution environment that promotes safe execution of code, including code created by an unknown or semi-trusted third party.
- To provide a code-execution environment that eliminates the performance problems of scripted or interpreted environments.
- To make the developer experience consistent across widely varying types of applications, such as Windows-based applications and Web-based applications.
- To build all communication on industry standards to ensure that code based on the .NET Framework can integrate with any other code.

Message Queuing (MSMQ)

Message Queuing (MSMQ) technology enables application running at different times to communicate across heterogeneous networks and systems that may be temporarily offline. This application sends messages to queues and read messages from queues. MSMQ implements a queue that holds messages that are generated by multiple sending applications and read by multiple receiving applications.

Message Queuing provides guaranteed message delivery, efficient routing, security, and priority-based messaging.

It can be used to implement solutions to both asynchronous and synchronous scenarios requiring high performance. The following list shows several places where Message Queuing can be used:

- Mission-critical financial services: For example, electronic commerce.
- Embedded and hand-held applications: For example, underlying communications to and from embedded devices that route baggage through airports by means of an automatic baggage system.
- Outside sales: For example, sales automation applications for traveling sales representatives.
- Workflow: Message Queuing makes it easy to create a workflow that updates each system. A typical design pattern is to implement an agent to interact with each system. Using a workflow-agent architecture also minimizes the impact of changes in one system on the other systems. With Message Queuing, the loose coupling between systems makes upgrading individual systems simpler.

Simple Network Management Protocol (SNMP)

Simple Network Management Protocol (SNMP) is a popular protocol for network management. It is used for collecting information from, and configuring network devices, such as servers, printers, hubs, switches, and routers on an Internet Protocol (IP) network.

For more information, see [www.technet.microsoft.com/en-us/library/cc776379\(v=ws.10\).aspx](http://www.technet.microsoft.com/en-us/library/cc776379(v=ws.10).aspx). and [www.msdn.microsoft.com/en-us/library/windows/desktop/aa379100\(v=vs.85\).aspx](http://www.msdn.microsoft.com/en-us/library/windows/desktop/aa379100(v=vs.85).aspx)

Using the Intel vPRO

The Intel vPro technology is a Intel marketing name for a collection of technologies related to manageability, virtualization, and security.

- **Manageability:** Active Management Technology (AMT) (only through Intel LOM / WLAN)
- **Virtualization:** VT, VT-x2, VT-d
- **Security:** TxT, TPM, Hardening, Measured AMT

For more information about Intel vPRO Technology, see www.intel.in/content/dam/www/public/us/en/documents/guides/vpro-setup-and-configuration-guide-for-intel-vpro-technology-based-pcs-guide.

The Intel Active Management Technology (AMT) is a Intel proprietary hardware and software implementation of out-of-band remote manageability tools and features. AMT functionalities are implemented through the Management Engine (ME) controller and the Management Engine FirmWare (ME FW).

For more information about AMT, see software.intel.com/sites/manageability/AMT_Implementation_and_Reference_Guide/default.htm?turl=WordDocuments%2Fsetupandconfigurationofintelamt.htm.

For more information about **Ready Mode technology**, see www.intel.in/content/www/in/en/architecture-and-technology/intel-ready-mode-technology.html

For more information about **Intel Rapid Storage technology**, see www.intel.com/content/www/us/en/architecture-and-technology/rapid-storage-technology.html

Silverlight

Silverlight is a powerful development tool for creating engaging, interactive user experiences for Web and mobile applications. Silverlight is a free plug-in, powered by the .NET framework and compatible with multiple browsers, devices and operating systems, bringing a new level of interactivity wherever the Web works.

For more information, see www.microsoft.com/silverlight/features/

Branch Cache

Branch Cache is a Wide Area Network (WAN) bandwidth optimization technology that is included in some editions of the Windows Server 2012 and Windows 8 operating systems, as well as in some editions of Windows Server 2008 R2 and Windows 7. To optimize WAN

bandwidth when you access the content on remote servers, Branch Cache copies content from your main office or hosted cloud content servers and caches the content at branch office locations, allowing client computers at branch offices to access the content locally rather than over the WAN.

For more information about Branch Cache, see www.technet.microsoft.com/en-in/network/dd425028.aspx and www.technet.microsoft.com/en-us/library/hh831696.aspx

Direct Access

Direct Access allows remote users to securely access the enterprise shares, sites, and applications without the VPN connection.

Admin Specific Features

Admin is a default user profile created for the user who is a member of the Administrator group.

To log in as an Admin, see [Automatic and Manual Logon](#). When you log in to your thin client device as an Admin, you can access certain notable extended features in the Control Panel.

To access Control Panel, on the taskbar, click **Start Menu > All apps > Control Panel**.

NOTE:

Users can configure some of the features such as dual monitor display settings. Administrators can use the Unified Write Filter to modify thin client device configurations to persist after a thin client device reboot.

You can perform the following functions as an Admin:

- Use the Administrative Tools. See [Using the Administrative Tools](#).
- Use the BitLocker Drive Encryption. See [Using TPM](#).
- Use custom fields. See [Using Custom Fields](#).
- Configure the RAM Disk size. See [Configuring RAMDisk Size](#).
- Enabling Auto Logon. See [Enabling Auto Logon](#).
- Accessing System Shortcuts. See [Using System Shortcuts](#).
- View and configure SCCM components. See [Viewing and Configuring SCCM-WEDM Components](#).
- Add Devices and Printers. See [Adding Devices](#) and [Adding Printers](#).
- Configure Dual Monitor Display. See [Configuring Dual Monitor Display](#).
- Manage audio and audio devices. See [Using the Sound Dialog Box](#) and [Using the Realtek HD Audio Manager](#).
- Select language preferences. See [Setting Region and Language preferences](#).
- Manage User Accounts. See [Managing Users and Groups with User Accounts](#).
- Configure WDM Properties. See [Using WDM](#).
- Scan and protect your computer against spyware and malware. See [Using Windows Defender](#).
- [Custom Sysprep](#) and [Config Manager Sysprep](#) are only available for execution to customize and create a master image.
- For custom sysprep a PowerShell script by name WIE10_CustomSysprep4man.ps1 is available under `%WinDir%\Setup\` folder which has to be triggered for performing Custom Sysprep in Write Filter disabled state.
- For Config Manager Sysprep a PowerShell script by name WIE10_ConfigMgr_Capture.ps1 is available under `%WinDir%\Setup\` folder which has to be triggered for performing Config Manager Sysprep in Write Filter disabled state.

NOTE: You can calibrate and customize the settings for a touch screen monitor connected to, or integrated with the thin client. Each touch screen can have its own requirements for drivers such as Microsoft touch drivers.

Topics:

- [Using Administrative Tools](#)
- [Using TPM and BitLocker](#)
- [Using Custom Fields](#)
- [Configuring the RAM Disk Size](#)

- [Enabling Auto Logon](#)
- [System Shortcuts](#)
- [Viewing and Configuring SCCM Components](#)
- [Devices and Printers](#)
- [Configuring Dual Monitor Display](#)
- [Managing audio and audio devices](#)
- [Setting Region](#)
- [Managing User Accounts](#)
- [Using WDM Software for Remote Administration](#)
- [Using Windows Defender](#)
- [Custom Sysprep](#)
- [Config Manager Sysprep](#)

Using Administrative Tools

To access the Administrative Tools window, on the taskbar, click **Start Menu > All apps > Control Panel > Administrative Tools**.

You can use the **Administrative Tools** window to perform the following tasks:

- [Configuring the Component Services](#)
- [Viewing the Events](#)
- [Managing the Services](#)

Configuring the Component Services

To access and configure the Component Services, Event Viewer and Local Services use the **Component Services** console

- 1 Log in as an administrator.
- 2 On the **Start** menu, click **All apps > Control Panel > Administrative Tools**.
- 3 From the Administrative Tools list, select **Component Services**.
- 4 In the **Component Services** console, select Component Services, Event Viewer or Local Services from the **Console Root** tree to configure.

Viewing the events

To view monitoring and troubleshooting messages from Windows and other programs, use the Event Viewer window.

In the Component Services console, click the **Event Viewer** icon from the **Console Root** tree. The summary of all the logs of the events that have occurred on your computer is displayed.

Managing the Services

To view and manage the services installed on the thin client device, use the **Services** window. To open **Services** window, click **Start Menu > All apps > Control Panel > Administrative Tool Services**.

- 1 In the **Component Services** console, click the **Services** icon from the console tree.
The list of services is displayed.
- 2 Right-click on any of the service of your choice. You can perform Start, Stop, Pause, Resume and Restart operations.
You can select Startup type from the drop-down list:
 - Automatic (Delayed Start)

- Automatic
- Manual
- Disabled

NOTE: Make sure the Write Filter is disabled while managing the services.

Using TPM and BitLocker

A TPM is a microchip designed to provide basic security-related functions, primarily involving encryption keys. BitLocker Drive Encryption (BDE) is a full disk encryption feature which is designed to protect data by providing encryption for entire volumes. By default it uses the AES encryption algorithm in CBC mode with a 128 bit key, combined with the Elephant diffuser for additional disk encryption-specific security not provided by AES.

Windows 10 does not support sysprep on a BitLocker encrypted device. Because of this limitation, you cannot encrypt the device, perform a sysprep and pull the image. To overcome this issue, you must add or modify the TPM related script that handles TPM. The device must not be encrypted before sysprep (pull). The device encryption is handled by the post push script that uses the `TPM_enable` script located at `C:\Windows\setup\tools\tpm\tpm_enable.ps1`. This script must be included before enabling the UWF and after sysprep scripts. The PIN used to encrypt the client must be passed to the script as an argument.

To use TPM and BitLocker, do the following:

- 1 Enable TPM from the BIOS menu.
- 2 Add/modify the TPM related part of the script, based on the type of imaging.
 - Image Push—`LicenseActivation.ps1`.
 - WSI Push—`Admin2.ps1`.
 - SCCM Push—`AdminConfigMgr.ps1`.

For example: During the SCCM push, the TPM related part in `AdminConfigMgr.ps1` must be modified as follows:

```
#uncomment the below two lines and update the pin for TPM encryption for SCCM push
cd C:\windows\setup\Tools\TPM\
.\TPM_enable.ps1 -pin 1234
```

NOTE:

If the client is encrypted previously, then do the following to clear the TPM.

- 1 Enter the BIOS mode.
- 2 In TPM configuration, set the **Change TPM Status** to **Clear**, and then apply the settings.
- 3 Reboot the device, and enter the BIOS mode again.
- 4 Set the **Change TPM Status** to **Enable and Activate**.

Using Custom Fields

To enter configuration strings for use by the WDM software, use the **Custom Fields** dialog box. The configuration strings can contain information such as location, user, administrator and so on.

To enter the information for use by the WDM server:

- 1 Log in as an Admin.
- 2 On the **Start Menu**, click **All apps**, and then click **Dell Thin Client Application**.
The Dell Thin Client Application window is displayed.
- 3 On the left navigation bar, click **Custom Fields**.
- 4 Type the custom field information in the custom field boxes and click **Apply**.
The custom field information is transferred to the Windows registry which is then available to the WDM server.

CAUTION:

To permanently save the information, be sure to disable/enable the Unified Write Filter (UWF). For more information, see [Before Configuring your thin clients](#).

NOTE:

- For more information on using WDM for remote administration and thin client software upgrade, see [Using WDM](#).
- For details on Custom Field information, see the *WDM documentation*.

Configuring the RAM Disk Size

RAM Disk is a volatile memory space used for temporary data storage. It makes up the Z drive in the **My Computer** window. It can also be used for temporary storage of other data according to administrator discretion. For more information, see [Saving Files and Using Local Drives](#).

The following items are stored on RAM Disk:

- Browser web page cache
- Browser history
- Browser cookies
- Browser cache
- Temporary internet files
- Print spooling
- User/system temporary files

To configure the RAM Disk size:

- 1 Log in as an Administrator.
- 2 On the **Start** menu, click **All apps > Dell Thin Client Application**.
The Dell Thin Client Application window is displayed.
- 3 On the left navigation bar, click **RAM Disk**.
- 4 In the RAM Disk size box, type or select the RAM Disk size you want to configure, and then click **Apply**.
If you change the size of the RAM Disk, you are prompted to restart the system for the changes to take effect.

NOTE:

To permanently save the information, make sure you disable the Unified Write Filter (UWF). For more information, see [Before Configuring your thin clients](#).

NOTE:

The default RAM Disk size may vary depending on the thin client model and installed memory size. The minimum RAM Disk size that can be set is 2 MB. For a system with 512 MB or less of RAM, the maximum RAM Disk size that can be set is approximately 20 percent of the actual RAM, whereas for a system with more than 512 MB of RAM, the maximum is approximately 10 percent of the actual RAM.

The default RAM size is 4 GB. For a system with 4 GB or more of RAM, the maximum RAM Disk size that you can set is limited to 1024 MB. However, the RAM disk size is set to 512 MB by default.

Enabling Auto Logon

Automatic logon to a user desktop is enabled by default on the thin client device. To enable or disable Auto Logon, and to change the default User name, Password and Domain for a thin client, use the **Auto Logon** feature.

To enable/disable Auto Logon:

- 1 Log in as an Administrator.
- 2 On the **Start** menu, click **All apps > Dell Thin Client Application**.
The **Dell Thin Client Application** window is displayed.
- 3 On the left navigation bar, click **Auto Logon**.
- 4 To start with the Admin Logon page, enter **Admin** in the Default User Name box. By default, the **Enable Auto Logon** check box is selected.
- 5 If you want to start with the Logon window with default Admin and User selections and other accounts, clear the **Enable Auto Logon** check box.

NOTE:

- To permanently save the information, be sure to disable/enable the Unified Write Filter (UWF). For more information, see [Before Configuring your thin clients](#).
- If auto logon is enabled and you log off from your current desktop, the lock screen is displayed. Click anywhere on the lock screen to view the Logon window. Use this window to log in to your preferred admin or user account.

System Shortcuts

The **System Shortcuts** page allows you to directly access some applications, directory, files and folders without navigating through the start menu or control panel.

- 1 Log in as an Admin.
- 2 On the **Start Menu**, click **All apps**, and then click **Dell Thin Client Application**.
The **Dell Thin Client Application** window is displayed.
- 3 On the left navigation bar, click **System Shortcuts**.
The following shortcuts are listed in the **System Shortcuts** area:
 - Administrative Tools
 - All Control Panel Items
 - System Directory
 - Program Files
 - Temporary Folder
 - My Documents
 - Recent Accessed Files
 - Dell Thin Client Application Folder
 - Application Data Folder
- 4 Click any of the shortcut links to access the respective folders/files/applications.

Viewing and Configuring SCCM Components

To view and configure the SCCM components installed on your thin client device, use the Configuration Manager Properties dialog box.

To open the **Configuration Manager Properties** dialog box:

- 1 Log in as an Admin.
- 2 On the **Start** menu, click **All Apps > Control Panel > Configuration Manager**.
The **Configuration Manager Properties** dialog box is displayed.

For more information on how to use the **Configuration Manager Properties** dialog box, see the *SCCM documentation* at the [Dell Wyse Support Site](#).

Devices and Printers

To add devices and printers, use the **Devices and Printers** window.

⚠ CAUTION: To refrain from cleaning up your settings, disable/enable the Unified Write Filter (UWF) and configure NetXClean. For more information, see [Before Configuring your thin clients](#).

To add a device or a printer to the thin client:

- 1 Log in as an Admin.
- 2 On the **Start** menu, click **All apps > Control Panel > Devices and Printers**.
The **Devices and Printers** window is displayed.

Adding Printers

To add a printer to the thin client:

- 1 Click the **Devices and Printers** icon in Control Panel.
The **Devices and Printers** window is displayed.
- 2 To open and use the **Add a Printer** wizard, click **Add a Printer**.
The **Add a Printer** wizard session starts.

A Dell Open Print Driver is installed on the thin client along with other built-in print drivers. To print full text and graphics to a local printer, install the driver provided by the manufacturer according to the instructions.

Printing to network printers from **Citrix Receiver**, **Remote Desktop Connection** or **VMware Horizon Client** applications can be achieved through printer drivers on the servers.

Printing to a local printer from **Citrix Receiver**, **Remote Desktop Connection** or **VMware Horizon Client** application using the printer drivers of the server produces full text and graphics functionality from the printer. Install the printer driver on the server, and the text only driver on the thin client according to the following procedure:

- a Click **Add a local printer**, and click **Next**.
- b Click **Use an existing port**, select the port from the list, and then click **Next**.
- c Select the manufacturer and model of the printer, and click **Next**.
- d Enter a name for the printer and click **Next**.
- e Select **Do not share this printer** and click **Next**.
- f Select whether to print a test page and click **Next**.
- g Click **Finish** to complete the installation.

A test page will print after installation if this option was selected.

Adding Devices

To add a device to the thin client:

- 1 Click the **Devices and Printers** icon in Control Panel and open the **Devices and Printers** window.
- 2 To open and use the **Add a Device** wizard, click **Add a Device**.
The **Add a Device** wizard session starts. You can use the wizard to add a device of your choice to the thin client.

Configuring Dual Monitor Display

You can use the **Screen Resolution** window to configure dual monitor settings on your Dual-Monitor Capable Thin Client device. For more information, see **KB 24439** in the Wyse Knowledge base.

To open the Screen Resolution window:

- 1 Log in as an Admin.
- 2 On the **Start** menu, click **All apps > Control Panel > Display > Change Display Settings**.

The **Screen Resolution** window is displayed.

Managing audio and audio devices

To manage your audio and audio devices, use the **Realtek HD Audio Manager** window or the **Sound** dialog box.

To manage audio and audio devices:

Log in as an Admin and open:

- **Realtek HD Audio Manager** window
- **Sound** dialog box

Using the Sound Dialog Box

To manage your audio devices, use the **Sound** dialog box.

To open the Sound dialog box:

- 1 On the **Start Menu**, click **All apps > Control Panel > Sound**.
The **Sound** dialog box is displayed.
- 2 Use the following tabs and configure the sound related settings:
 - **Playback**— Select a playback device and modify its settings.
 - **Recording**— Select a recording device and modify its settings.
 - **Sounds**— Select an existing or modified sound theme for events in Windows or programs.
 - **Communications**— Click an option to adjust the volume of different sounds when you are using your thin client to place or receive telephone calls.
- 3 Click **Apply**, and click **OK**.

NOTE:

- We recommend powered speakers.
- You can also adjust the volume using the **Volume** icon in the notification area of the taskbar.

Using the Realtek HD Audio Manager

To manage your audio and audio devices, use the **Realtek HD Audio Manager** window.

To open the Realtek HD Audio Manager:

- 1 On the **Start Menu**, click **All apps > Control Panel > Realtek HD Audio Manager**.
The **Realtek HD Audio Manager** window is displayed.

In the **Speakers** tab, move the first slider to balance the volume of the left and right sound channel. To increase or decrease the volume, move the second slider.

- On the **Speaker Configuration** tab, you can configure the settings of your designated speakers. After configuring, you can preview the sound by clicking the **Auto Test** command button.

- Using the **Sound Effects** tab, you can configure the settings for environment and equalizer for an enhanced experience.
- On the **Default Format** tab, you can select the sample rate and bit depth from the drop-down list.

You can click **CD Format** or **DVD Format** buttons to choose the default best quality for that format on the device.

- 2 Click **OK** to save the settings.

NOTE:

- We recommend powered speakers.
- You can also adjust the volume using the **Volume** icon in the notification area of the taskbar.

Setting Region

To select your regional formats including keyboard and Windows Display languages, use the **Region** dialog box.
To select your regional formats:

- 1 Log in as an Administrator.
- 2 On the **Start Menu**, click **All apps > Control Panel > Region**.
The **Region** dialog box is displayed.
- 3 In the **Formats** tab, you can format the language, date and time.
 - a Further to make additional formats, click **Additional Settings**.
The **Customize Format** window is displayed.
Numbers, Currency, Time and Date are formatted.
 - b Click **OK** after customizing.
- 4 In the **Location** tab, you are provided with additional content for a particular location such as news and weather.
- 5 In the **Administrative** tab, you can change **system locale** and **copy settings**.

Managing User Accounts

To manage users and groups, use the **User Accounts** window.
To open the User Accounts window:

- 1 Log in as an Admin.
- 2 On the **Start** menu, click **All apps > Control Panel > User Accounts**.
For more information on using the **User Accounts** window, see [Managing Users and Groups with User Accounts](#).

Using WDM Software for Remote Administration

Dell Wyse Device Manager (WDM) software is the premier enterprise solution for managing Dell Wyse thin and zero clients simply, remotely, and securely. To configure the WDM server location and thin client settings, use the **WDM Properties** dialog box.
To open WDM properties dialog box:

- 1 Log in as an Admin.
- 2 On the **Start** menu, click **All apps > Control Panel > WDM**.
The **WDM Properties** dialog box is displayed.
 - a Configure the **Server settings**:
 - Type the IP Address or Fully Qualified Domain Name (FQDN) of the WDM server.
 - to use, enter the Port. The default is **80**.
 - If you are using HTTPS, enter the Secure Port to use. The default is **443**(Optional).
 - b Configure the **Client settings**:
 - To connect to the WDM server after a failed attempt, enter the Server Connection Retry Attempts that is the number of attempts.

- To connect to the WDM server after a failed attempt, enter the Interval Between Retry Attempts that is the number of seconds between attempts.
- c Configure the **Discovery settings**:
 - Select the **Use all configured automatic discovery methods** check box if you want to enable all of the following methods — they are used if they are configured. For more information on setting up the discovery options, see *Installation Guide: WDM* — for information on WDM software, see [WDM Software for Remote Administration](#).
 - Select DNS Hostname Record (Dynamic Discovery) to allow devices to use the DNS Host name lookup method to discover a WDM Server.
 - Select DNS SRV Record (Dynamic Discovery) Allows devices to use the DNS SRV record lookup method to discover a WDM Server.
 - Select DHCP Option Tags (Dynamic Discovery) to allow devices to use DHCP option tags to discover a WDM Server.
 - Select Manual Discovery (using Find Devices in Management Console) — (Manual Discovery from WDM) if no Dynamic Discovery method is used. You can use the Find Devices dialog box to discover devices from WDM. WDM Agents respond to the server discovery by storing the discovered Web Server IP address and port and begin regular check-ins.
 - Enter the number of **Missed check-ins** after which you want the auto discovery options enabled.
- d Click **OK**.

Using Windows Defender

To scan your computer and protect against spyware and malware, use the **Windows Defender** dialog box.

To open the Windows Defender window:

- 1 Log in as an Admin.
- 2 On the **Start** menu, click **All apps > Control Panel > Windows Defender**.

The Windows Defender window is displayed. On the **Home** tab, select a scan option and click **Scan Now**. To configure and manage your thin client device, you can use anti-malware software settings in the Settings tab.

Custom Sysprep

- To enable capturing of the image using WDM/USB Imaging tool, by performing the desired set of activities to configure the client using the script.
- This allows you to have your own custom build, with the inbox features and application intact.
- For example, using a custom wallpaper on the builds or installing a custom application which suffices your business needs or maybe some additional configurations or a combination of any.

Application of Custom Sysprep:

- After a master image with the desired configurations are made, you can trigger Custom Sysprep, which allows you to capture the master image and deploy it on multiple or all clients in your organization.
- You can also choose to follow the Host Name Calculation feature of flash.sys or disable that option and have your own nomenclature scheme for your clients.
- Since the current Imaging solution takes a lot of time to capture and push a disk of larger size (Wyse 7040 has a minimum configuration of 128 GB SSD), you need to shrink the Windows volume and then trigger the customizations. Shrink option should be done in Write Filter disabled state and Optimize drives service should be enabled before performing shrink operation.
- After completion of the Custom Sysprep scripts, the client shutdowns and upon boot up Merlin Kernel load by default. This is done in the anticipation that the next task in the sequence is an image pull only. In case there are no WDM servers or USB imaging solutions available, the Merlin Kernel resets Windows as first boot.

Config Manager Sysprep

- To capturing the image using SCCM, you must configure the client first by performing the desired set of activities using the script.
- You can use Config Manager Sysprep to handle Wyse/Dell partition structures and Image deployment through SCCM setup.
- Sysprep is not triggered on the image. Actual Sysprep will be performed by the SCCM task sequence.

- Config Manager Sysprep does not have a dependency on Wyse Imaging solutions.
- The scripts also enable retention of files related to HostName and Licensing Files.
- SCCM captured WIM files can only be applied on Wyse/Dell imaged clients.
- To manage Wyse/Dell images, use *Dell wyse SCCM Administrator guide*.
- Large disk size management is not required because SCCM operates on WIM file format as an alternative to Disk based WDM imaging.

Additional Administrator Utility and Settings Information

This chapter provides additional information about utilities and settings available for administrators.

It discusses:

- Automatically Launched Utilities
- Utilities Affected by Log Off, Restart, and Shut Down
- Understanding the NetXClean Utility
- Saving Files and Using Local Drives
- Mapping Network Drives
- Participating in Domains
- Using the WinPing Diagnostic Utility
- Using the Net and Tracert Utilities
- Managing Users and Groups with User Accounts
- Changing the Computer Name of a Thin Client

Topics:

- Automatically Launched Utilities
- Utilities Affected by Log Off, Restart, and Shut Down
- The Unified Write Filter (UWF)
- Understanding the NetXClean Utility
- Saving Files and Using Local Drives
- Mapping Network Drives
- Participating in Domains
- Using the WinPing Diagnostic Utility
- Using the Net and Tracert Utilities
- Managing Users and Groups with User Accounts
- Changing the Computer Name of a Thin Client

Automatically Launched Utilities

The following utilities are automatically started upon system start or successful thin client logon:

- **Unified Write Filter:** Upon system start, the Unified Write Filter utility is automatically started. The icon in the notification area of the taskbar indicates the active or inactive status of the Unified Write Filter by the colors green and red respectively.
NOTE: While the Dell Wyse WF (Write Filter) icons and functionality are currently supported, we recommend you use the UWF as described in Microsoft documentation. See www.microsoft.com and navigate to the Unified Write Filter documentation.
- **NetXClean Utility:** Upon system start, the NetXClean utility is automatically started. NetXClean is a clean-up utility that keeps extraneous information from being stored on the local disk. If you want to keep certain profile configurations such as for printers, be

sure to configure NetXClean to refrain from cleaning up any number of explicitly declared profiles. See [Understanding the NetXClean Utility](#).

- **VNC Server:** Upon successful thin client logon, the Windows VNC Server utility is automatically started. VNC allows a thin client desktop to be accessed remotely for administration and support. See [Using Tight VNC \(Server and Viewer\) to Shadow a Thin Client](#).

Utilities Affected by Log Off, Restart, and Shut Down

The following utilities are affected by logging off, restarting, and shutting down the thin client device:

- **Unified Write Filter:** Upon system start, the Unified Write Filter utility is automatically started. We recommend you use the UWF as described in Microsoft documentation. See www.microsoft.com and navigate to the Unified Write Filter documentation.
- **NetXClean Utility:** NetXClean is a clean-up utility that keeps extraneous information from being stored on the flash memory. Clean-up is triggered automatically on restart, shut-down, or user log-off. If you want to keep certain profile configurations, for example, printers, be sure to configure NetXClean to refrain from cleaning up any number of explicitly declared profiles. For more information about NetXClean, see [Before Configuring your thin clients](#) and [Understanding the NetXClean Utility](#).
- **Power Management:** A Monitor Saver turns off the video signal to the monitor, allowing the monitor to enter a power-saving mode after a designated idle time. Power settings are available in **Start Menu > All apps > Control Panel > Power Options**.
- **Wake-on-LAN:** This feature discovers all thin clients in your LAN, and enables you to wake them up by clicking a button. This feature allows WDM software. For example, to perform image updates and remote administration functions on devices that have been shut down or are on standby. To use this feature, the thin client power must remain on.

The Unified Write Filter (UWF)

Upon system start, the Unified Write Filter utility is automatically started.

UWF File Folder exclusions:

- C:\Program Files\Windows Defender
- C:\Program Files (x86)\Windows Defender
- C:\Windows\WindowsUpdate.log
- C:\Windows\Temp\MpCmdRun.log
- C:\ProgramData\Microsoft\Windows Defender
- C:\Users\Admin\AppData\LocalLow
- C:\Users\User\AppData\LocalLow
- C:\Wyse\WCM\ConfigMgmt
- C:\Windows\System32\config
- C:\Regfdata

UWF Registry Exclusions

- HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows Defender
- HKLM\Software\Wyse\ConfigMgmt
- HKLM\Software\Microsoft\Windows
- HKLM\SYSTEM\CurrentControlSet\Control\WNT\UWFSvc
- HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\HomeGroup
- HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\NetworkList
- HKLM\Software\Microsoft\MSLicensing\

Unified Write Filter (UWF) Details: You can use Unified Write Filter (UWF) to protect your storage media. UWF intercepts all write attempts to a protected volume and redirects those write attempts to a virtual overlay. This improves the reliability and stability of your device and reduces the wear on write-sensitive media, such as flash memory media like solid-state drives. In UWF, an overlay is a virtual storage space that saves changes made to the underlying protected volumes. UWF intercepts all modifications to any sector on a protected volume. A sector is the smallest unit that can be changed on a storage volume. Any time the file system attempts to modify a protected sector, UWF

instead copies the sector from the protected volume to the overlay and then modifies the overlay instead. If an application attempts to read from that sector, UWF returns the data from the overlay instead, so that the system maintains the appearance of having written to the volume, while the volume remains unchanged.

NOTE: It is recommended that Write Filter is enabled during normal use of thin clients. It should be disabled only by administrator while making necessary changes. Extended use with write filters disabled can reduce the life of your flash drive. It is a good practice to enable write filter to ensure device security.

Running Unified Write Filter Command – Line Options

There are several command lines you can use to control the Unified Write Filter. Command–line arguments cannot be combined.

Use the following guidelines for the command–line option for the Unified Write Filter. You can also use the commands if you open Command Prompt window with elevated privilege by entering command in the Run box:

- `uwfmgr`
With no command-line options— Displays the command help.
- `uwfmgr filter enable`
Enables the Unified Write Filter after the next system restart. The Unified Write Filter status icon is green when the Unified Write Filter is enabled.
- `uwfmgr filter disable`
Disables the Unified Write Filter after the next system restart. The Unified Write Filter status icon remains red while disabled.
- `uwfmgr file commit C:<file_path>`
Commits changes to a specified file to overlay for a Unified Write Filter-protected volume. Administrator-level permissions are required to use this command.

The <file> parameter must be fully qualified, including the volume and path. UWMGR.EXE uses the volume specified in the <file> parameter to determine which volume contains the file exclusion list for the file. There is a single space between volume name and file_path. For example, to commit a file `C:\Program Files\temp.txt` the command would be `uwfmgr commit C:\Program Files\temp.txt`.

- `uwfmgr file add-exclusion C: <file_or_dir_path>`
Adds the specified file to the file exclusion list of the volume protected by Unified Write Filter. Unified Write Filter starts excluding the file from filtering after the next system restart.
- `uwfmgr file remove-exclusion C: <file_or_dir_path>`
Removes the specified file from the file exclusion list of the volume protected by Unified Write Filter. Unified Write Filter stops excluding the file from filtering after the next system restart.
- `uwfmgr overlay get-config`
Displays configuration settings for the Unified Write Filter overlay. Displays information for both the current and the next session.
- `uwfmgr registry /?`
Displays configuration settings for exclusions of registry keys.

TIP: If you open a Command Prompt window and enter `uwfmgr ?` or `uwfmgr help`, all available commands are displayed. For information on a command, use `uwfmgr help <command>`. For example, for information on the command, volume, enter the following: `uwfmgr help volume`.

NOTE:

- Administrators should use file security to prevent undesired usage of these commands.
- Do not attempt to flush while another flush operation is in progress.

Understanding the NetXClean Utility

NetXClean keeps extraneous information from being stored in disk. NetXClean clean-up is triggered by either a service startup or a user log off. It runs in the background and performs the clean-up invisibly and no user input is necessary.

NetXClean prevents unwanted or trash files from building up and filling the free space in the disk. The NetXClean utility is particularly important when multiple users have log-on rights to a thin client, as disk space can be quickly used by locally stored profiles and temporary caching of information.

NetXClean Tweak UI functions includes clearing:

- Run history at log-on
- Document history at log-on
- Find Files history at log-on
- Find Computer history at log-on
- Internet Explorer history at log-on
- Selected Items Now
- Last User at log-on

NetXClean purges selected directories, files, and profiles. It uses a configuration file to determine which directories and files to purge and what not to purge. To select different directories and files to purge, you must select them in the configuration file.

NOTE: NetXClean purge selections are made by the manufacturer and should not be changed without manufacturer supervision.

Regardless of the configuration file selections, NetXClean does not clean any of the following directories or their parent directories:

- Windows directory
- Windows System subdirectory
- Current directory in which the service is installed

NetXClean does not delete the following profiles:

- Administrator
- All Users
- Default User
- The profile of the last user who logged on

NOTE: NetXClean Utility does not have any dependency on Unified Write Filter (UWF).

NetXClean Utility work flow across multiple User Profiles

NetXClean Utility helps you to clean-up the user profiles when you have multiple user profiles configured on your system. This is applicable in scenarios where you log in and log off from your user profiles. A typical user scenario is as follows:

- 1 Log in as an Admin.
- 2 In `netxclean.ini`, specify the profile specific values which you want the NetXClean Utility to perform.

These values are considered by NetXClean Utility after you log off and log in to your user profiles.

If you restart or perform a hard reboot of your system, the profile specific values are not considered because the NetXClean Utility feature on User Profiles is not applicable across reboots.

Saving Files and Using Local Drives

Administrators need to know the following information about local drives and saving files.

Saving Files

Thin clients use an embedded operating system with a fixed amount of disk space. It is recommended that you save files you want to keep on a server rather than on a thin client.

CAUTION: Be careful of application settings that write to the C drive, which resides in disk space in particular, those applications which by default write cache files to the C drive on the local system. If you must write to a local drive, change the application settings to use the Z drive. The default configuration settings mentioned in *Managing Users and Groups with User Accounts* minimize writing to the C drive for factory-installed applications.

Drive Z

Drive Z is the on-board volatile memory (Dell Wyse RAM Disk) of the thin client. It is recommended that you do not use this drive to save data that you want to retain.

Drive C

Drive C is the on-board non-volatile flash memory. We recommend that you avoid writing to drive C. Writing to drive C reduces the free disk space. If the free disk space on C drive is reduced under 3 MB, the thin client will become unstable.

NOTE: We highly recommend that 3 MB of disk space is left unused. If the free disk space is reduced to 2 MB, the thin client image will be irreparably damaged and it will be necessary for you to contact an authorized service center to repair the thin client.

Enabling the Unified Write Filter protects the disk from damage and presents an error message if the cache is overwritten. However, if this message occurs you will be unable to flush files of the Unified Write Filter cache and any thin client configuration changes still in cache will be lost. Items that are written to the Unified Write Filter cache or directly to the disk if the Unified Write Filter is disabled during normal operations include:

- Favorites
- Created connections
- Delete/edit connections

For information on the role of NetXClean in keeping the disk space clean, see [Understanding the NetXClean Utility](#).

Mapping Network Drives

Administrators can map network drives. However, to retain the mappings after the thin client device is restarted, complete the following:

- 1 Log in as an administrator.
- 2 On the **Start** menu, click **File Explorer**.
The **File Explorer** window is displayed.
- 3 In the left pane, right-click the **This PC** option, and then click **Map Network Drive**.
The Map Network Drive dialog box is displayed.
- 4 Select the drive letter from the Drive drop-down list, and type or browse for the folder you want to connect to.
- 5 Select the **Reconnect at logon** check box.
- 6 Empty the files of the Unified Write Filter cache during the current system session.
Since a User logon account cannot flush the files of the Unified Write Filter cache, the mappings can be retained by logging off from the user account. The system must not shut down or restart, logging back on using an administrator account, and then removing the files of the cache.

TIP: A remote home directory can also be assigned by using a user manager utility or by other means known to an administrator.

- 7 Click **Finish** to complete the network drive mapping.

Participating in Domains

You can participate in domains by joining the thin client device to a domain or by using roaming profiles.

Joining a Domain

- 1 Log in as an administrator.
- 2 On the **Start** menu, click **All apps > Control Panel > System**.
The **System** window is displayed.
- 3 In the **Computer name, domain and workgroup settings** section, click **Change Settings**.
The **System Properties** dialog box is displayed.
- 4 Click **Change** option to change the domain or workgroup.
 - a Click **Domain** option.
The **Computer Name/Domain Changes** dialog box is displayed.
 - b Enter the domain of your choice.
 - c Click **OK**.
- 5 To join a thin client device to a domain, click **Network ID**.
The **Join a Domain or Workgroup** wizard is displayed. On the first page of the wizard, select the option that describes your network.
 - Business Network — Click this option if your thin client is a part of business network and you use it to connect to other clients at work.
 - 1 Click **Next**.
 - 2 Select the option according to your company's network availability on a domain.

If you select the option — Network with a domain, then you must enter the following information:

- User name
- Password
- Domain name

If you select the option — Network without a domain, then you may enter the **Workgroup**, and then click **Next**.

 **NOTE:** You can click **Next** even if you do not know the workgroup name.

- 3 To apply the changes, you must restart the computer. Click **Finish**.

 **IMPORTANT:** Before restarting your computer, save any open files and close all programs.

- Home Network — Click this option if your thin client is a home client and its not a part of a business network. To apply the changes, you must restart the computer. Click **Finish**.

 **CAUTION:** Exercise caution when joining the thin client device to a domain as the profile downloaded at logon could overflow the cache or flash memory.

When joining the thin client device to a domain, the Unified Write Filter should be disabled so that the domain information can be permanently stored on the thin client device. The Unified Write Filter should remain disabled through the next restart as information is written to the thin client on the restart after joining the domain. This UWF is especially important when joining an Active Directory domain. For details on disabling and enabling the Unified Write Filter, see [Before Configuring your Thin Client](#).

To make the domain changes permanent, complete the following:

- a Disable the Unified Write Filter.
- b Join the domain.
- c Restart the thin client.
- d Enable the Unified Write Filter.

NOTE:

If you use the Write Filter Enable icon to enable the Write Filter, the restart happens automatically. By default, the NetXClean utility purges all but selected profiles on the system when the thin client device starts up or when the user logs off. For information on NetXClean utility, see [Understanding the NetXClean Utility](#).

Using Roaming Profiles

You can participate in domains by writing roaming profiles to the C drive. The profiles must be limited in size and it is not retained when the thin client device is restarted. For successful downloading and proper functioning, there must be sufficient disk space available for roaming profiles. In some cases, it may be necessary to remove software components to free space for roaming profiles.

Using the WinPing Diagnostic Utility

WinPing is used to start the Windows Packet internet Groper (PING) diagnostic utility and view the result of echo requests sent to a network host.

WinPing is a diagnostic tool that sends an echo request to a network host. The host parameter is either a valid host name or an IP address. If the host is operational and on the network, it responds to the echo request. The default is to send three echo requests and then stop if no response is detected. WinPing sends one echo request per second, calculates round-trip times and packet loss statistics, and displays a brief summary upon completion.

To open the **Dell Wyse WinPing** dialog box:

- 1 Log in as an administrator.
- 2 Click **Start Menu > All Apps > Windows System > Run**.
- 3 Enter `winping` in the **Open** box, and then click **OK**.
The **Dell Wyse WinPing** dialog box is displayed.
- 4 Enter a valid IP address in the **IP address** box.
- 5 In the **Retries** box, type or select the number of echo requests you want to send out to the network host.
- 6 Click **Ping**.

WinPing sends one echo request per second, calculates round-trip times and packet loss statistics, and displays a brief summary under the **Status** section on the dialog box upon completion.

Using the Net and Tracert Utilities

Net and Tracert utilities are available for administrative use. For example, Determining the route took by packets across an IP network.

For more information on these utilities, go to www.microsoft.com.

Managing Users and Groups with User Accounts

To create and manage user accounts and groups, and configure advanced user profile properties, use the **User Accounts** window. By default, a new user is only a member of the **Users** group and is not locked down. As an administrator, you can select the attributes and profile settings for users.

This section provides quick-start guidelines on:

- Creating User Accounts
- Editing User Accounts
- Configuring User Profiles

TIP: For detailed information on using the User Accounts window, click the help icon and examples links provided throughout the wizards. For example, you can use the Windows Help and Support window to search for items such as user profiles and user groups. Obtain links to detailed steps on creating and managing these items.

Creating User Accounts

Only administrators can create new user accounts locally or remotely through VNC. However, due to local flash or disk space constraints, the number of additional users on the thin client device should be kept minimum.

⚠ CAUTION: To permanently save the information, be sure to disable the Unified Write Filter (UWF).

- 1 Log in as an administrator.
- 2 On the **Start** menu, click **All apps > Control Panel > User Accounts**.
- 3 On the **User Accounts** window, click **Manage another account**.
The **Manage Accounts** window is displayed.
- 4 Click **Add new user** in PC settings.
The **PC settings** wizard starts. Use this wizard to create a user account.
- 5 After creating the standard users and administrators, these users will appear in the **Manage Accounts** window. See **Step 3**.

Editing User Accounts

Open the **User Accounts** window as described in [Managing User Accounts](#).
To edit the default settings of a standard user or administrator account:

- 1 On the **User Accounts** window, click **Manage another account**.
The **Manage Accounts** window is displayed.
- 2 To change as required, select **User**.
The **Change an Account** window is displayed. Now make the desired changes using the links provided.

Configuring User Profiles

Open the **User Accounts** window as described in [Managing User Accounts](#).

⚠ CAUTION:

- By default, all application settings are set to cache to C drive. It is highly recommended that you cache to the RAM Disk Z drive as is preset in the account profiles to avoid overflowing the Unified Write Filter cache.
- It is recommended that other applications available to new and existing users be configured to prevent writing to the local file system because of the limited size of the disk space. It is recommended that care be exercised when changing configuration settings of the factory-installed applications.

To configure the Default, Admin and User profiles stored on the thin client:

- 1 On the **User Accounts** window, click **Configure Advanced User Profile Properties**.
The **User Profiles** dialog box is displayed.
- 2 Use the command buttons such as Change Type, Delete and Copy to as described in the Microsoft documentation provided throughout the wizards.

Changing the Computer Name of a Thin Client

Administrators can change the computer name of a thin client. The computer name information and the Terminal Services Client Access License (TSCAL) are preserved regardless of the Unified Write Filter state (enabled or disabled). This maintains the specific computer identity information and facilitates the image management of the thin client.

To change the computer name of a thin client device:

- 1 Log in as an admin.
- 2 On the **Start** menu, click **All apps > Control Panel > System**.
The **System** window is displayed.
- 3 In the **Computer name, domain, and workgroup settings** section, click **Change Settings**.
The **System Properties** dialog box is displayed.
- 4 Click **Change** tab to rename the computer name.
- 5 In the Computer Name window, type the name for the thin client device in the Computer name box and Click **OK**.
- 6 In the Confirmation dialog box, click **OK** to restart for applying the changes.
- 7 Click **Close**, and then **Restart Now** to apply the changes.

System Administration

To maintain your thin client device environment, you can perform local and remote system administration tasks. The tasks include:

- [Restoring Default BIOS Settings](#)
- [Accessing Thin Client BIOS Settings](#)
- [WDM Software for Remote Administration](#)
- [Configuring and Using Peripherals](#)
- [Using Tight VNC \(Sever and Viewer\) to Shadow a Thin Client](#)

Topics:

- [Restoring BIOS Default Settings](#)
- [Accessing Thin Client BIOS Settings](#)
- [Accessing Thin Client Boot Menu](#)
- [Accessing Intel Management Engine BIOS Extension\(MEBx\) settings](#)
- [SATA mode settings in BIOS](#)
- [Boot list option setting in BIOS](#)
- [WDM Software for Remote Administration](#)
- [Configuring and Using Peripherals](#)
- [TightVNC \(Server and Viewer\)](#)
- [TightVNC \(Server and Viewer\) — Pre-requisites](#)
- [Using TightVNC to Shadow a Thin Client](#)
- [Configuring TightVNC Server Properties on the Thin Client](#)

Restoring BIOS Default Settings

To restore the default settings on the thin client device, you can use the Basic Input Output System (BIOS) to restore values for all the items in the BIOS setup utility. For more information, see [Accessing Thin Client BIOS Settings](#).

Accessing Thin Client BIOS Settings

While starting a thin-client, a Dell logo is displayed for a short period.

- 1 During the start-up, press the **F2** key.
The **BIOS Settings** dialog box is displayed.
- 2 When prompted, enter **Fireport** as the password.
- 3 Change the BIOS Settings as required.

Accessing Thin Client Boot Menu

While starting a thin client, a Dell logo is displayed for a short period.

- 1 During the start-up, press the **F12** key. The Boot menu is displayed.

- 2 Select the desired option and press **Enter**.

Accessing Intel Management Engine BIOS Extension(MEBx) settings

This setting is available only in clients ordered with Intel AMT support. During power up, when you press **Ctrl+P**, the control passes to the Intel® Management Engine BIOS extension (MEBx) Main Menu. The default username for accessing ME the **admin** and password is **admin**.

There are two ways to configure Intel AMT :

- 1 Automatically, using a configuration server.
- 2 Manually, using the MEBx menus on the platform.

SATA mode settings in BIOS

All thin clients shipped with Self Encrypting drives (SED) has SATA mode set to **AHCI**. and all the thin clients shipped with standard drives has SATA mode set to **RAID ON**.

Boot list option setting in BIOS

Boot List Option is located under **Settings > General > Boot Sequence** of BIOS setup has value set to **UEFI**. Changing this option impacts on WES7P OS boot up.

WDM Software for Remote Administration

WDM software enables you to configure, monitor and manage Dell Wyse endpoint devices.

WDM provides the following important features:

- Remote shadow
- Reboot
- Shutdown
- Boot
- Automatic device check-in support
- Wake-On-LAN
- Change device properties

From a single console, you can easily issue software images, patches, updates and add-ons and manage all aspects of remote cloud clients to ensure peak user productivity.

Configuring and Using Peripherals

The thin client device has many ports available on it such as:

- USB Port
- LPT Port

To provide the services through the ports, install the appropriate software for the thin client device.

NOTE:

- 1 You can install other services and add-ins that are available from the Dell website for free or for a licensing fee. For more information, see the [Dell Wyse Technical Support](#).
- 2 You can configure the thin client device to use Bluetooth- enabled Peripherals.

TightVNC (Server and Viewer)

To configure or reset a thin client device from a remote location, use TightVNC (Server and Viewer). TightVNC is primarily intended for support and troubleshooting purposes.

Install TightVNC locally on the thin client device. After installation, it allows the thin client to be shadowed, operated and monitored from a remote device.

TightVNC Server starts automatically as a service upon thin client device restart. The initialization of TightVNC Server can also be controlled by using the Services window by this procedure.

To open **TightVNC Server** window:

- 1 Log in as an Administrator.
- 2 Click **Start Menu > All apps > TightVNC > TightVNC Server**.

NOTE:

- TightVNC Viewer is available from TightVNC website.
- TightVNC is included in WDM software as a component.
- TightVNC Viewer must be installed on a shadowing or remote machine before use.
- If you want to permanently save the state of the service, be sure to flush the files of the Unified Write Filter during the current system session.

TightVNC (Server and Viewer) — Pre-requisites

Before TightVNC Server installation on a remote machine, to access a thin client device you must know the following:

- IP address or valid DNS name of the thin client device to be shadow, operate or monitor. For more information, see [Using the Dell Thin Client Application](#).
- Primary password of the thin client device to shadow, operate or monitor. For more information, see [Configuring TightVNC Server Properties on the Thin Client](#).

NOTE:

- To obtain the IP address of the administrator's thin client device, move the pointer over the TightVNC icon in the taskbar,
- To configure TightVNC Server, the Default primary password is DELL.

Using TightVNC to Shadow a Thin Client

TightVNC Server starts automatically as a service upon thin client startup. The TightVNC Server service can also be stopped and started by using the Services window.

- 1 Log in as an administrator.
- 2 Click **Start > All apps > Control Panel > Administrative Tools > Services**, and then select **TightVNC Server**.
- 3 You may also use the TightVNC Server features in **Start > All apps > TightVNC**.

To shadow a thin client from a remote machine:

- a On a remote machine on which TightVNC Viewer is installed, open the **New Tight VNC Connection** dialog box.
- b Enter the IP address or valid DNS name of the thin client that is to be shadowed or operated or monitored.
- c Click **OK**.

The **VNC Authentication** dialog box is displayed.

- d Enter the **Password** of the thin client that is to be shadowed; this is the Primary Password of the thin client that is to be shadowed.
- e Click **OK**.

The thin client that is to be shadowed or operated or monitored will be displayed for the administrator in a separate window on the remote machine. Use the mouse and keyboard on the remote machine to operate the thin client just as you would if you were operating it locally.

Configuring TightVNC Server Properties on the Thin Client

- 1 To open the **TightVNC Server Configuration (offline)** dialog box, click **Start Menu > All Apps > TightVNC > TightVNC Server — Offline Configuration**.

The **TightVNC Server Configuration (offline)** dialog box is displayed.

- 2 In the **Server** tab, set the **Primary password**. Use this password while shadowing the thin client. Default Primary password is Wyse.
- 3 In the **Server** tab, select the following check boxes:
 - Accept incoming connections
 - Require VNC authentication
 - Enable file transfers
 - Hide desktop wallpaper
 - Show icon in the notification area
 - Serve Java Viewer to web clients
 - Use mirror driver if available
 - Grab transparent windows
- 4 Retain the following check boxes blank:
 - Block remote input events
 - Block remote input on local activity
 - No local input during client sessions
- 5 In the **Main server port** box, select or type 5900.
- 6 In the **web access port** box, select or type 5800.
- 7 In the **Screen poling cycle** box, select or type 1000.
- 8 Click **OK**.

 **NOTE:** For security purposes, we recommend that the Primary password is changed immediately upon receipt of the thin client and it is for administrator use only.

Establishing a Server Environment

This section contains information on the network architecture and enterprise server environment needed to provide network and session services for your thin client. It includes:

- [Understanding how to configure your network services](#)
- [Using Dynamic Host Configuration Protocol \(DHCP\)](#)
- [DHCP Options](#)
- [Using Domain Name System \(DNS\)](#)
- [About Citrix Studio](#)
- [About VMware Horizon View Manager Services](#)

Topics:

- [Understanding how to configure your Network Services](#)
- [Using Dynamic Host Configuration Protocol \(DHCP\)](#)
- [DHCP Options](#)
- [Domain Name System \(DNS\)](#)
- [About Citrix Studio](#)
- [About VMware Horizon View Manager](#)

Understanding how to configure your Network Services

Network services provided to thin clients can include DHCP, FTP file services, and DNS. Configuring your network services depends on the availability in your environment, designing and managing it.

You can configure your network services using:

- [Dynamic Host Configuration Protocol \(DHCP\)](#)
- [Domain Name System \(DNS\)](#)

Using Dynamic Host Configuration Protocol (DHCP)

A thin client is initially configured to obtain its IP address and network configurations from a DHCP server. A DHCP server provides the IP address or DNS name of the FTP server and the FTP root-path location of software in Microsoft.msi form for access through the DHCP upgrade process.

DHCP is recommended to configure and upgrade thin clients as it saves time and efforts needed to complete these processes locally on multiple thin clients. If a DHCP server is not available, fixed IP addresses can be assigned and must be entered locally for each device.

A DHCP server can also provide the IP address of the WDM server. For more information, [WDM software for Remote Administration](#).

DHCP Options

The DHCP options listed in Table 1 are accepted by the thin clients.

Option	Description	Notes
1	Subnet Mask	Required
3	Router	Optional but recommended. It is not required unless the thin client must interact with servers on a different subnet.
6	Domain Name Server (DNS)	Optional but recommended
12	Hostname	Optional
15	Domain Name	Optional but recommended
43	Vendor Class Specific Information	Optional
50	Requested IP	Required
51	Lease Time	Required
52	Option Overload	Optional
53	DHCP Message Type	Required
54	DHCP Server IP Address	Recommended
55	Parameter Request List	Sent by thin client
57	Maximum DHCP Message Size	Optional (always sent by thin client)
58	T1 (renew) Time	Required
59	T2 (rebind) Time	Required
61	Client identifier	Always sent
155	Remote Server IP Address or name	Optional
156	Logon User Name used for a connection	Optional
157	Domain name used for a connection	Optional
158	Logon Password used for a connection	Optional
159	Command Line for a connection	Optional
160	Working Directory for a connection	Optional
163	SNMP Trap server IP Address list	Optional
164	SNMP Set Community	Optional
165	Remote Desktop Connection startup published applications	Optional
168	Name of the server of the virtual port	Optional
186	WDM sever list	IP addresses of WDM Server. If tag 194 is specified, then defining this tag is not mandatory.

190	WDM secure port	Optional number, word, or two-bytes array. Specifies to use HTTPS to communicate with WDM instead of HTTP
192	WDM server port	Specifies HTTP (non-secure) communication with WDM.
194	WDM server FQDN	Optional. If this tag is specified, then defining tag 186 is not mandatory.

NOTE: For more information on configuring a DHCP server, see [Microsoft Website](#)

Domain Name System (DNS)

Thin client devices accept valid DNS names registered on a DNS server available to the enterprise intranet. The thin client device sends a query to DNS server on the network for name to IP resolution. DNS allows hosts to be access by their registered DNS names rather than their IP address.

Every Windows DNS server in Windows 2000 and later includes Dynamic DNS (DDNS) and every server registers dynamically with the DNS server. For DHCP entry of DNS domain and server location information, see [Using Dynamic Host Configuration Protocol \(DHCP\)](#).

About Citrix Studio

Citrix Studio is a software program that enables you to configure and manage your personalized desktops and applications. It provides an easy end-user computing experience across all devices and networks while delivering optimal performance, better security, and improved personalization.

NOTE: For more information about installing and configuring the Citrix Studio, go to [Citrix Website](#).

Citrix Studio consists of various wizards, that allows you to perform the following tasks:

- Publish virtual applications
- Create groups of server or desktop operating systems
- Assign applications and desktops to users
- Grant user access to resources
- Assign and transfer permissions
- Obtain and track Citrix licenses
- Configure StoreFront

All available Virtual Desktop Applications (VDA) are listed in the Studio. From the VDA list, select the application you would like to publish. Information displayed in the Studio is received from the Broker Service in the Controller.

About VMware Horizon View Manager

VMware View is an enterprise-class virtual desktop manager that securely connects authorized users to centralized virtual desktops. It provides a complete, end-to-end solution that improves control and manageability and provides a familiar desktop experience. Client software securely connects users to centralized virtual desktops, back-end physical systems or terminal servers.

NOTE: For more information, on installing and configuring View Manager, go to [VMware Website](#).

VMware View includes the following key components:

- **View Connection Server:** A software service that acts as an intermediate for client connections by authenticating and then directing incoming remote desktop user requests to the appropriate virtual desktop, physical desktop or terminal server.

- **View Agent:** A software service that is installed on all guest virtual machines, physical systems or terminal servers. View Manager manages this software. The agent provides features such as Remote Desktop Connection monitoring, virtual printing, remote USB support and single sign-on.
- **View Client:** It is locally installed software application that communicates with View Connection Server, to allow users to connect to their desktops using Microsoft Remote Desktop Connection.
- **View Portal:** A component is similar to View Client but provides a View user interface through a web browser. It is supported on multiple operating systems and browsers.
- **View Administrator:** A component provides View administration through a web browser. View administrators use it to do the following:
 - Make configuration settings.
 - Manage virtual desktops and entitlements of desktops of Windows users and groups.

View Administrator also provides an interface to monitor log events and is installed with View Connection Server.

- **View Composer:** To allow View Manager to rapidly deploy multiple linked clone desktops from a single centralized base image, **View Composer** software service is installed on the Virtual Center server.