

Dell Wyse ThinLinux 2.0

INI 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

Dell Wyse ThinLinux from Dell simplifies the user management paradigm with elegant application icons and comes with a single built-in user to enhance user experience along with having the benefits of a single-operating system. ThinLinux software combines the security, flexibility and market-leading usability of Linux Enterprise with Dell's thin computing optimizations in management. It is ideal for organizations that want to run server-based, Web-based or local applications including legacy applications without the deployment and security concerns of a nonstandard Linux distribution.

Dell Wyse ThinLinux (INI) files are plain-text files that you can construct to contain the configuration information you want for your thin clients running on Dell Wyse ThinLinux for both global level and individual user level. For example, these INI files can be used by applications to save information about a user's preferences and operating environment.

NOTE: Information and procedures presented in this guide are intended for use by system administrators and should not be used by untrained persons.

Topics:

- [About this Guide](#)
- [Dell Technical Support](#)

About this Guide

This guide is intended for administrators of Dell thin clients running Dell Wyse ThinLinux. It provides the detailed information you need to help you understand and use the Dell Wyse ThinLinux INI files. It contains information on the different INI files you can use and the rules for constructing the files. It also provides the parameter details you need with the working examples to get the most out of your INI.

Finding the Information You Need in this Guide

You can use either the Search window or Find toolbar to locate a word, series of words, or partial word in an active PDF document. For detailed information on using these features, refer to the Help in your PDF reader.

Dell Technical Support

To access Dell Wyse technical resources, visit www.dell.com/support/contents/us/en/19/article/Product-Support/Dell-Subsidiaries/wyse. For more information, you can submit cases to [Dell TechDirect](#) or contact Dell at www.dell.com/support/contents/us/en/04/category/contact-information.

Related documentation and services

Fact sheets containing features of the hardware products are available on the Dell Wyse website. Go to www.dell.com/wyse and select your hardware product to locate and download the fact sheet.

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 www.dell.com/support/contents/us/en/04/article/Product-Support/Self-support-Knowledgebase/Dell-Subsidiaries/wyse.

Dell Online Community

Dell maintains an online community where users of our products can seek and exchange information about user forums. Visit the Dell Online Community forums at [Dell.com/community](https://www.dell.com/community).

Getting Started: Learning INI File Basics

In this chapter you can learn how to construct and use the supported INI files.

It includes the following details:

- [Supported INI Files You can Construct.](#)
- [Rules and Recommendations for Constructing the INI Files.](#)
- [Placing the INI Files into the Folder Structure on the Server.](#)

After you become familiar with the INI file basics, you can refer to the parameter details you need in the other chapters and appendixes of this guide.

Topics:

- [Supported INI Files you can construct](#)
- [Rules and Recommendations for Constructing the INI Files](#)
- [Placing the INI Files into the Folder Structure on the Server](#)

Supported INI Files you can construct

The INI files contains the parameters, associated options, and values necessary for the various functionalities you want.

IMPORTANT: The INI file processing hierarchy is as follows:

- Scenario 1 — MAC.ini exists. The MAC.ini file is processed and if the Include=WLX.ini statement is included, then the WLX.ini file is processed.
- Scenario 2 — wlx.ini exists. The WLX.ini file is processed.
- Scenario 3— No ini files exist. Local configuration is applied.

Working with wlx.ini Files

A wlx.ini file contains the global parameters that affects all thin clients accessing the server. Parameters in Table [Connection Settings Parameter Options](#) can be used in mac.ini and wlx.ini files.

Working with MAC.ini Files

A MAC.ini file can be used instead of a wlx.ini file for device-specific configurations. If the thin client locates a MAC.ini file that is stored in the same directory as a wlx.ini file, then the wlx.ini file is not accessed, unless you use the include =wlx.ini parameter.

NOTE: The placement of the include =wlx.ini parameter within the MAC.ini file will dictate which value will take the priority for a same specific parameter that is contained in both the wlx.ini file and the MAC.ini file but is defined for different values for the same parameter.

For example, if the wlx.ini file has parameter A= value B, and the MAC.ini file has the same parameter A= value C, then:

- If the include =wlx.ini parameter is included in the MAC.ini file before the parameter A= value C statement, then the wlx.ini parameter A= value B is discarded and parameter A= value C from the MAC.ini file is the final value used.

- If the include =wlx.ini parameter is included in the MAC.ini file after the parameter A= value C statement, then the MAC.ini parameter A= value C is discarded and parameter A= value B from the wxl.ini file is the final value used.

Rules and Recommendations for Constructing the INI Files

In general, Dell Wyse ThinLinux files follow currently accepted standard INI file formatting conventions. The INI files consist of Dell Wyse parameters. You can have totally empty INI file or an INI file that has other parameters, and rest of the parameters can be used if you desire, but are not necessary unless you want changes from client and other defaults for example, other can be the default resolution of your monitor. Every parameter and their options have a name and a value, with the name appearing to the left of the equals sign (name=value). Number signs (#) indicate the start of a comment. Comments can begin anywhere on a line. Everything between the # and the End of Line is ignored. Along with these general formatting conventions, use the following guidelines when constructing the INI files.

1 **Global Connect Parameters First.**

Global connect parameters should be listed before other connect parameters in a wxl.ini file.

2 **Connect is used for creating the VDI connection and is not mandatory.**

As stated earlier, You can totally have empty INI file or an INI file that has other parameters. Any of the rest of the parameters can be used if you desire, but are not necessary unless you want changes from client and other defaults.

3 **Continue Lines by using a Space and Backslash.**

Placing a space and backslash (\) at the end of a line indicates line continuation. No white space can appear after the backslash; the requirement of white space between parameter entries is maintained by the use of the space before the backslash. In addition, starting all parameters at the left margin and placing at least one leading space or tab at the beginning of all and only continuation lines makes an INI file easier to read.

In circumstances where you require string concatenation, you can use a backslash without a space before or after concatenating with the first set of characters from the previous line; for example the strings snow and ball may be concatenated to give snowball.

4 **Blank Lines Make Files Easy to Read.**

Using blank lines is recommended for making code easier to read.

5 **Comment by using a # Sign.**

As stated earlier, number signs (#) indicate the start of a comment. Comments can begin anywhere on a line. Everything between the # and the End of Line is ignored.

6 **With White Spaces Require Quotation Marks.**

Values of parameters and their options containing white spaces must be placed inside quotation marks, use common-practice nesting rules.

7 **Separate the lists by using Semicolons or Commas.**

Use semicolons or commas for list separators.

8 **Use the wxl.ini File to Set the Maximum Number of Connection Entries Allowed.**

The number of connection entries defined in a wxl.ini files cannot exceed a defined total maximum number of connections. The maximum number of connections has a default limit of 216, but can be set from 100 to 1000 using the wxl.ini file.

9 **Use System Variables with Some Options of the Connect Parameter.**

Some options of the Connect parameter can use the system variables shown in Table 1 to map the string. All combinations of the variables are supported. For options that supports the use of system variables, see [Connect Parameter Options](#).

10 **The parameters described in square brace [].**

The parameters described in square brace [] are dependant parameters and does not work individually.

11 **Default values are made bold.**

If a parameter has a default value, the default value is considered if the parameter is not mentioned with a specific cases.

System Variables

The following table provides details about the System Variables:

Table 1. System Variables

Option	Value
\$SN	Serial number used.
\$MAC	MAC address used.
\$IP	IP Address used.
\$DN	Sign-on domain name used.
\$UN	Sign-on name used.
\$PW	Sign-on password used.
\$TN	Terminal name.
\$PLATFORM	Model of the thin client.

ⓘ **NOTE:** If Auto Login is enabled then \$PW returns null, so with auto logins enabled do not use \$PW as value for any parameter.

Placing the INI Files into the Folder Structure on the Server

You must need an FTP server to download your INI files and the path to download is specified in the INI page on the thin client. Under the **C:/inetpub/ftproot** folder for FTP or **C:/inetpub/wwwroot** folder for HTTP/HTTPS and place your INI files. Other necessary files inside the structure as noted that this list describes the folder structure, starting with the root directory.

ThinLinux will set the default path as **/wlx2** instead of traditional **/wlx** because some of the INI parameters are not compatible with old INI parameters from the older Linux Clients. The default path to search is **/wlx2** first, if **/wlx2** directory is not found then you can search for **/wlx** directory.

ⓘ **NOTE:** There is no mixed path of **/wlx2** and **/wlx**.

/wyse/	The root directory. It stores the wlx2 folder and the addons folder It also stores the following files, which are used for imaging and updating devices: <ul style="list-style-type: none"> · thin-linux-<version>.raw · thin-linux.info
/wyse/wlx2	The main INI configuration folder. It stores the following: <ul style="list-style-type: none"> · wlx.ini file or MAC.ini file · bitmap folder · certs folder · ini folder
/wyse/wlx2/bitmap	The folder where you can place custom images you plan to use.
/wyse/wlx2/certs	The folder where you can place the CA certificates that can be imported to a thin client.

NOTE: To import the certificates to the thin clients, use the Certs and ImportCerts INI parameters.

/wyse/addons

The folder where you can place the add-ons you want to use. It also stores the directory file and the *.deb packages available to be installed on the thin client. The directory file should list all available add-ons. The directory file is required in the addons folder to guarantee that add-ons are properly located.

NOTE: If you want to do an update with the Preserve changes option enabled, ensure that your addons folder includes a copy of your current add-ons. The system may require two reboots to fully update the firmware and add-ons while preserving local changes.

General Settings Parameter Options

The following table contains parameters used for configuring the general settings where default values are in bold.



Table 2. General Settings Parameter Options.

Parameter	Description
ActiveDirectoryServer= <string>	Active Directory Server IP used for Domain Login to the clientDomain Login of the client. For example, ActiveDirectoryServer=10.150.244.105
AddtoEtcHosts= "ip1 FQDN1 aliases1; ip2 FQDN2 aliases2; ..."	Default is none Adds entries to the <code>/etc/hosts</code> file where aliases are an optional space-separated list of host names.
AudioMute= {Yes, no}	Default is no Mutes the volume
AudioPlayback= hdmi	If AudioPlayback is set to hdmi, HDMI sound device will have higher priority compared to other internal analog device.
AudioVolume=<0 – 100>	Determines the volume level.
AutoLogin={yes, no}	Default is yes To disable or enable thinuser auto-login.
Browser.ClearBrowserData={yes, no}	Browser.ClearBrowserData option clears out or persists the browser history across different client users. yes - Clears out the browser data across different user log-ins. no - Persists the browser data across different user log-ins.
Browser.Homepage=<URL>	If the browser add-on is installed, this is the URL to the home page for the browser.
Browser.SecModules=<string>	For ICA only This parameter is used to support smart card authentication through the browser. For Example, <code>=/usr/lib/libIDPrimePKCS11.so</code> for Gemalto Dot Net card
EnableBanner={true, false} BannerMsg=<string>	EnableBanner: Default is false EnableBanner provides a banner description.



Parameter	Description
	BannerMsg —BannerMsg text must be enclosed in double quotation marks if it contains spaces or punctuation characters.
CertName=<string> [URL=<string> ChallengePassword=<string> CADN=<string> AutoEnroll={yes, no}]	CertName — Name of certificate to be enrolled. A folder with same name will be created in /etc/scep/ folder in the thinclient. URL — SCEP server URL ,which will be contacted for certificate enrollment. ChallengePassword — Certificate Enrollment Challenge Password, it can be obtained from the SCEP Server. CADN — CA Distinguished Name(Unique name to identify the CA). AutoEnroll — To enable Automatic enrollment of certificates. For example, SCEPCLIENTCERTSETTINGS=CertName=2OFDZERTIFIKATE URL=http://10.150.196.61/certsrv/mscep/mscep.dll ChallengePassword=379132065CB03920A6801D67C159A26C CADN=dot1x.local AutoEnroll=yes
CCMEable={yes ,no} CCMServer=<CCM server URL> GroupRegistrationKey=<tenant code-group code>	CCMEable. Default is Yes. It is used to enable or disable the Wyse Device agent. CCMServer Enter the URL of the CCM server you want to connect to. MQTTServer Enter the IP Address or the FQDN of the MQTT server. GroupRegistrationKey Enter your Group Registration Key to manage the thin client device. For Example: CCMEable=yes CCMServer=https://autostratus2.wyselab.com:443 GroupRegistrationKey=linx-01012005
ChangeRootPassword=<string>	Default is base-64 encoded. Specifies the new password for the root user.
ChangeThinUserPassword=<string>	Default is base-64 encoded. Specifies the new password for the thin client user.
CitrixThemeConnectionType={pnagent, storefront}	For Citrix Desktop Appliance Mode (Power On To Power Off Citrix Theme), use pnagent to connect to the Program of Neighborhood Agent servers, and storefront to connect to the store front servers

Parameter	Description
DelayedUpdate.Enable={true, false, yes, no}	Default is true DelayedUpdate.Enable parameter enables or disables the updatings.
DelayedUpdate.Mode={image}	Default is image – updates the image only.
DeskColor=<Primary color> [{solid horizontal-gradient vertical-gradient}<Secondary color>]	Specifies the desktop background color where <primary color> and <secondary color> can be one of the following values: <ul style="list-style-type: none"> • RGB color specification in the form commonly used in HTML (rrggbb). • A color name from the /usr/share/X11/rgb.txt file. These names are case-sensitive. • Three integers in the range of 0-255 representing the amount of red, green and blue, respectively, for example: 0 119 255. <p>NOTE: The text must be enclosed in double quotation marks if it contains spaces or punctuation characters. These characters are not allowed: and ' " \$? ! ; () [] { } \</p> <ul style="list-style-type: none"> • This form is deprecated. It is available for backwards compatibility only. <p>An optional shading can be specified as solid, horizontal-gradient, vertical- gradient.</p> <p>The <primary color> is the primary color, and the one which is used if no shading is specified or if the shading is solid. The optional <secondary color> is the secondary color, when shading is specified.</p> <p>for example: Deskcolor="DarkGoldenrod horizontal-gradient LightGoldenrod"</p> <p>The primary color in this example DarkGoldenrod appears on the left (horizontal) or top (vertical) edge with a smooth transition to the secondary color in this example LightGoldenrod on the opposite edge.</p>
Desktop={<image file>, <default>} [Layout={Center, Tile, Stretch, Scale, Zoom, Span}]	Desktop: Specifies an image file to be used as wallpaper for the local desktop. The file must be located in the server wx2 bitmap directory. The image file can be PNG, and JPG. The filename is case sensitive. Setting the Image file name to <default>....., sets the wall paper to Dell default wall paper. Layout : Specifies the arrangement of the specified image file on the desktop. The tile option replicates the image across the desktop, the stretch option adjusts the image to fill the screen, the scale option enlarges the image to fill either the screen width or height, the Zoom option stretches (or reduces) the image keeping proportions, so the background is completely filled, when the image and the screen have different proportions it will cut off the extra bands that cannot be fitted (top and bottom or left and right depending on the image), and Span option is used to span the image across multiple monitors.
DesktopAppliance={ none, citrix}	You can disable or enable the thinuser specific VDI KIOSK theme.
Desktop.KeyBinding.Minimize=<string>	Default is disabled
Desktop.KeyBinding.Move=<string>	Default is disabled

Parameter	Description
Desktop.KeyBinding.Resize=<string>	Default is disabled
Desktop.KeyBinding.ShowDesktop=<string>	Default is <Control><Alt>Down
Desktop.KeyBinding.SwitchWindows=<string>	Default is <Alt>Down
Desktop.KeyBinding.ToggleFullscreen=<string>	Default is <Control><Alt>Up
Desktop.KeyBinding.ToggleMaximized=<string>	Default is <Alt>F10
Desktop.KeyBinding.UnMaximize=<string>	Default is disabled
Desktop.KeyBinding.DisablePrintScreen={true, false}	Default is true.
DHCP.VendorID=<String>	Default is wyse-5000. Specifies the desired DHCP Vendor ID string.
DisableXRender={yes, no}	Default is no Used for disabling XRender extension of X11
Display.SleepDisplay={0, 60, 120, 180, 240, 300, 480, 600, 720, 900} or SleepDisplay	Default is 240 for 4 minutes. These are values for seconds, corresponding to 1, 2, 3, 4, 5, 8, 10, 12, 15 minutes possible values; 0 and other values corresponds to never .
Display.LockScreenTimeout={Time in seconds}	Default is 120 seconds
EnableGKey={true, false}	Default is true EnableGKey option is used to enable G key reset.
EnableSsh={yes, no}	Default is no. SSH server disabled. You can enable or disable SSH server.
IcaDisableWIFS={yes, no}	Default is no. IcaDisableWIFS option is used to disable the Citrix Firefox plug-in feature that sends the option -WI_is_FS to its receiver. If Firefox is in fullscreen mode, which makes Citrix receiver ignore window size configuration, disabling the feature allows you to resize their Citrix session when you are using Firefox Kiosk mode.
IdleAction.Enable={enable/disable} [IdleAction.Timeout=<value of 1 to 60>] [IdleAction.Action=<Any valid Command>]	IdleAction.Enable: Default is disable. Once enabled, Timeout should be specified. If not specified, default timeout is 1 minute. IdleAction.Timeout: To set the idle action timeout value in minutes. IdleAction.Action: The String of commands to be executed. For example, /usr/sbin/reboot. The default action is reboot .
ImportCerts = {yes, no} [Certs=<String>]	ImportCerts: Default is no It enables certificate import from the server. Certs: certs is a list of certificate names (the names must be separated by a semicolon).

Parameter	Description
	<p>For example. Certs=Cert1.cer;Cert2.crt;Cert3.pem;Cert4.der</p> <p> NOTE: Certificates must be placed in the certs sub-directory.</p>
ImportConfig.FileURI=<string>	<p>Default is none</p> <p>It specifies the complete URI (server URL and file full path) of the configuration files to import.</p>
ImportConfig.UID=<string>	<p>Default is none.</p> <p>It is the User ID used when importing the configurations file from an FTP server.</p>
ImportConfig.Password=<string>	<p>Default is none</p> <p>It is the password used when importing the configurations file from an FTP server.</p>
MerlinUpdate.Username=<string>	The username used to login the server.
MerlinUpdate.Password=<string>	<p>Default is base-64 encryption. The password is used to login the server.</p>
MerlinUpdate.URL=<string>	The URL to the Merlin base. Macro \$PLATFORM is automatically appended for Merlin imaging.
MicMute={yes, no}	<p>Default is no</p> <p>If MicMute is set to yes, then it mutes the microphone volume.</p>
MicVolume=<0-100>	Determines the microphone volume level.
MgmtDiscoveryMethod= {SRV, HOSTNAME, CNAME, STATIC, ALL, DHCP }	<p>Default is ALL .</p> <p>The Discovery method used for finding WDM server.</p>
NTP.Enable={yes, no}	<p>Default is no.</p> <p>It Specifies that the NTP daemon should be enabled and started.</p> <p> NOTE: NTP server will not be started if an NTP.TimeServer parameter is not specified and the thin client does not have one previously set.</p>
NTP.TimeServer=<NTP Server IP or FQDN> [<NTP Server IP or FQDN>;...]	<p>Default is None.</p> <p>It specifies one or more NTP server IP Addresses or FQDNs.</p>
PermitSshRootLogin={yes, no}	<p>Default is no. It used to prohibit the root SSH login. You can enable or disable the root login through SSH. It works only if SSH is enabled.</p>
PowerButtonAction ={interactive, reboot, restart, halt, shutdown, none, nothing}	<p>Default is interactive</p> <p>It specifies system behavior when the power button is pressed.</p> <p>none or nothing: Power button is ignored, that is no action.</p> <p>Interactive: An optional window is presented to you.</p>

Parameter	Description
	<p>halt or shutdown: Shuts down the devices.</p> <p>reboot or restart: Reboots the devices.</p>
ProgressUpdateInterval=<10–60>	<p>Default is 20</p> <p>The interval specified for sending image upgrade status to WDM server. Value less than 10 will be rounded to 10 and Value greater than 60 will be rounded to 60.</p>
PasswordEncryptionCode={0, 1, 2}	<p>Default value is 1</p> <p>Specifies the desired password encryption algorithm in INI. This parameter must be placed at least before the first password used in the wlx.ini file.</p> <p>0: Plain Text</p> <p>1: Base64 encoded</p> <p>2: AES encoded</p>
RootPath=<string>	<p>Default is /wyse</p> <p>This path is used to access INI files on the server.</p> <p>ⓘ IMPORTANT: If root path is not provided, /wyse is the default. The directory name /wlx2 is appended to the root path entry before use, if /wlx2 folder is not available then /wlx will be the fall back default.</p>
SshIdleTimeout=<integer 1 to 60>	<p>Default is 0, which is disabled. Set the SSH connection idle timeout in minutes. When the client idle timeout reaches, SSH connection will be terminated automatically from SSH Server. This works only if SSH is enabled.</p>
ServerBusyCounter=<1 – 24>	<p>Default is 5.</p> <p>The number of retries when server is busy. There is no hard limit enforced as this was designed as adhoc measure till wdm server provides the counter value during checkin.</p>
ServerBusyTimeout=<byte 10 – 360>	<p>Default is 30</p> <p>The interval before Hagent goes for retry. There is no hard limit enforced as this was designed as adhoc measure till wdm server provides the timeout value during checkin.</p>
System.Language=<string> System.Language={en_US, fr_FR, es_ES, de_DE, nl_NL, pt_PT, zh_CN, ko_KR, ja_JP}	<p>System.Language — The value specifies the UI language and the locality where it will be used. For example, System.Language = en_US.</p> <p>System.Language – Default is en_US. It specifies only one language in INI.</p> <p>ⓘ NOTE:</p> <p>Do not specify any encoding.</p>
TimeFormat=<String>	<p>Default is 12h</p> <p>Specifies the system time format.</p>

Parameter	Description
	<p>The following are the formats:</p> <ul style="list-style-type: none"> • 24, 24h, 24-hour, 24-hour format. • 12, 12h, 12-hour, 12-hour format.
VNCServer.DisableVNC={yes, no}	<p>Default is yes</p> <p>You can disable or enable the VNC Server.</p>
VNCServer.UsePasswd={yes, no}	<p>Default is no</p> <p>You can use password to authenticate VNC connections.</p>
VNCServer.VncPasswd=<string>	<p>This parameter is used to set the new VNC password from default. Maximum length is 8 characters. If the VncPassword is not set, then default password is Wyse.</p> <p> NOTE: Password string must not contain single quote character.</p>
VNCServer.VncPrompt={yes, no}	<p>Default is no</p> <p>This parameter is used to enable a popup dialog asking for accepting the incoming VNC connection request. The dialog has the followings: Yes and No button to select. If you do not click on anything, default will be No after Timeout is reached in 120 seconds by default.</p>
VNCServer.VNCWarning={yes, no}	<p>Default is yes.</p> <p>You can enable or disable a warning icon on the taskbar, when new VNC connection is connected. The icon remains on the taskbar until the VNC connection is terminated.</p>
InstallAddons=<name of addon>	<p>This parameter specifies the add-ons to be updated. Use comma separated add-on names.</p> <p> NOTE: NewAddons=<name of addons>. This parameter specifies the new add-ons to be installed. Use comma separated add-on names.</p>
RemoveAddons=<name of addon>	<p>This parameter specifies the add-ons to be uninstalled. Use comma separated add-on names.</p>
TransparentKeyPassThrough={Local, Remote, FullScreenOnly}	<p>Default is FullScreenOnly. This parameter enables the keyboard shortcut sequences defined by the local Windows manager in the session.</p> <ul style="list-style-type: none"> • FullScreenOnly — key event is processed locally except in Fullscreen mode. • Local — key event is processed locally in order to use ICA hot keys. • Remote — key event is forwarded to the server so that ICA hot keys do not work.


Peripheral Settings Parameter Options

The following table contains parameters used for configuring peripheral settings such as keyboard, monitor, mouse, and printer.

Table 3. Peripheral Settings Parameter Options

Parameter	Description
DisplaySettings=MON1<resolution=1920x1080> MON2<resolution= 1024x768> MON3<resolution= 1024x768> or MON1 <resolution=1920x1080@60> MON2 <resolution=1024x768@60> MON3 <resolution=1920x1080@60> MON2 <resolution=1024x768@60> MON3 <resolution=1920x1080@60> MON1<resolution=1024x768@60>	<p>The string value is in the format of white space separated string construct. The values keywords are case sensitive. The following are the rules:</p> <ol style="list-style-type: none"> 1 MON1/MON2: mandatory constant values for monitor1 and monitor2, if specific resolutions or placement are to be set for each individual monitors. 2 To specify resolutions: use 1920x1080 format, resolution numbers with delimiter x (lowercase) after MON1/MON2 value keyword. Resolutions are optional. If not specified, DDC (optimal) resolutions are used. For Example : DisplaySettings=MON1 1920x1080 MON2 1920x1200 MON3 1920x1200 3 To specify resolutions with refresh rate: use 1920x1080@60 format, refresh rate is optional. If not specified, the optimal refresh rate is used automatically. For Example: DisplaySettings=MON1 1920x1080@60 MON2 1920x1200@60 MON3 1920x1200@60 <p>MON1 primary 1920x1080 MON2 1920x1200:</p> <p>Used for the specified configuration of primary monitor that is retained previously. Primary monitor is where the taskbar and app icons are present. It specifies monitor as the primary monitor, use the value keyword primary, which is optional.</p> <p>For Example: Set MON1 as primary : DisplaySettings=MON1 primary 1920x1080 MON2 1920x1200 MON3 1920x1200</p> <p>Set MON2 as primary : DisplaySettings=MON1 1920x1080 MON2 primary 1920x1200 MON3 1920x1200</p> <p>Set MON3 as primary : DisplaySettings=MON1 1920x1080 MON2 1920x1200 MON3 primary 1920x1200</p> <p>MON1 primary on-left 1920x1080, MON2 on-right 1920x1200</p> <p>To specify monitors in horizontal placement and on the left or right, use the legacy value keywords on-left and on-right after MON1/MON2 to arrange monitors left/right placement. You can use these options in pair.</p> <p>MON1 primary on-above 1920x1080, MON2 on-below 1920x1200</p> <p>To specify monitors in vertical placement and on the top or bottom, use the legacy value keywords on-above and on-below after each MON1 MON2 and MON3 to arrange monitors top/bottom placement. You can use these options in pair.</p> <p>MON1 primary rotate-left 1920x1080 MON2 1920x1200 MON3 1920x1200</p>

Parameter	Description
	<p>rotate-left, rotate-normal, and rotate-right are supported as legacy parameters. These parameters rotate the framebuffer for monitors that do not actually support rotation. Specifying these parameters requires monitors to be physically rotated. For monitors that support rotation, these parameters are not necessary.</p> <p><default></p> <p>This key value is to reset both monitors to default settings. (Optimal resolutions in horizontal placement and MON1 on the left as primary display).</p> <p>DDC</p> <p>Resets all the monitors to default layout and default resolutions – The default layout is all in HORIZONTAL placement, Primary is MON1 and resolutions are optimal.</p> <p>Horizontal</p> <p>For Example: DisplaySettings=Horizontal (which is equal to DisplaySettings= <default>) OR DisplaySettings=Horizontal MON1 primary 1920x1080 MON2 1920x1200 MON3 1920x1200</p> <p>This single Horizontal (with capital H) key value without any parameter is used to reset both the monitors to DDC mode as it is in default settings. There can be parameters as in MON1 MON2 and MON3 format as described above. The result is to set the monitors in horizontal placements with specified individual parameters.</p> <p>Vertical</p> <p>For Example: DisplaySettings=Vertical (which is equal to DisplaySettings= <default>) OR DisplaySettings=Vertical MON1 primary 1920x1080 MON2 1920x1200 MON3 1920x1200</p> <p>This single Vertical (with capital V) key value is used to set both monitors to DDC resolutions, but in vertical placement with default MON1 on the top.</p> <p>MON3...MON2 ... MON1...</p> <p>With individual monitor with their specific parameters in place, but swaps the MON2 at the beginning of the string, followed by MON1 will be placed MON2 on the left and MON1 on the right. This is equivalent of MON1 on-right MON2 on-left. For Example: MON2 MON1 = MON1 on-right MON2 and MON3on-left</p> <p>Mirror <rotate{normal, left, right, inverted}, {resolution}></p> <p>It sets the monitors in mirror mode with given resolution and rotation.</p>
JetDirectPrinter=<printer address>	<p>For Example: JetDirectPrinter=<printer address> <options></p> <p>For parameter options used in the command line, see JetDirectPrinter in Printer Parameters Options.</p>
Mouse.MouseSpeed={value 0 to 6 and <default>}	<p>It Specifies the speed when you are moving the mouse.</p> <p>0 – Slowest</p> <p>6 – Fastest</p> <p>Default: Set to system default by using <default> in INI file.</p>


Parameter	Description
	 NOTE: On default check system registry Mouse.MotionAcceleration is 2 and MotionThreshold value is 1
Mouse.MouseSwap={yes, no}	<p>It swaps left and right handed mouse buttons.</p> <p>no: Is left handed mouse</p>
Mouse.DoubleClick={100 to 1000, and <default>}	<p>Double click specifies the length of double click in milliseconds.</p> <p>100 - fastest</p> <p>1000 - slowest</p>
NetworkPrinter= <LPD>	<p>For Example: NetworkPrinter=LPD <Option></p> <p>For parameter options used in the command line, see NetworkPrinter in Printer Parameters Options.</p>
Keyboard.Repeat={true, false}	<p>Default is true. Keyboard repeat is enabled. If you press key, it will be repeated.</p>
Keyboard.RepeatDelay={<default>, 0 to 7 or 100 to 2000}	<p>Initial Key Repeat Delay is 100 to 2000 according to new SLES standard. For backward compatibility 0 is minimum 7 is maximum. This setting is valid only when Keyboard.Repeat is enabled (true).</p>
Keyboard.RepeatRate={<default>, 0 to 2 or 9 to 2000}	<p>9 is fast and 2000 is slowest according to new SLES standard. For backward compatibility Key Repeat Interval, delay between repeats.</p> <p>0 is slow</p> <p>1 is medium</p> <p>2 is fast</p> <p>This setting is valid only when Keyboard.Repeat is enabled (true).</p>
Keyboard.layouts=<value of Keyboard.layouts>	<p>For example: Keyboard.layouts= ara (for Arabic(South Sudan))</p> <p>Keyboard.layouts= ru (for Russia)</p>
Printer={USB <options> or URI}	<p>Specifies the USB for local USB printer. Only one USB printer can be supported. The USB printer will not be configured if it is not attached.</p> <p>For other types of printers, URI needs to be provided, such as parallel:/dev/lpunit or serial:/dev/ttySunit?baud=speed.</p> <p>For parameter options used in the command line, see Printer in Printer Parameters Options.</p>
PrinterURI=<uri>	<p>For Example:</p> <p>PrinterURI=[ipp://[user[:password]@host[:port]/path</p> <p>[http://[user[:password]@host[:port]/path</p> <p>[socket://host[:port]</p> <p>[lpd://host/queue</p> <p>[smb://[user[:password]@[workgroup/]</p>

Parameter	Description
	server[:port]/sharename [usb:/dev/usb/lpunit [parallel:/dev/lpunit [serial:/dev/ttySunit?baud=speed <Option>
SMBPrinter=<host address>	For Example: SMBPrinter=<host address> [username=<username>] [password=<base64-encoded password>] [domain=<Windows domain>] <options> For parameter options used in the command line, See SMBPrinter in Printer Parameters Options.
view.enableMMR={TRUE, FALSE}	Enables multimedia redirection (MMR). The default value is FALSE.
GFXSettings=<layout> [resolution=<resolution>]	The Wyse 5070 Extended thin client devices use this parameter to define the display settings. The INI parameter is saved persistently and you to restart the device after it is applied. If this INI parameter is not available, the settings that was saved are applied. The layout parameter is mandatory and the valid values are: <ul style="list-style-type: none"> • Horizontal • Vertical • Twoper row • Threeperrow The resolution is optional, and the default value is DDC. The resolution options are: <ul style="list-style-type: none"> • DDC • 2560x1600 • 2560x1440 • 1920x1200 • 1920x1080 • 1680x1050 • 1600x1200 • 1600x900 • 1440x900 • 1366x768 • 1280x1024 For example, GFXSettings=Vertical [resolution=1280x1024]

Connection Settings Parameter Options


The following table contains parameters used for configuring connection settings where default values are in bold.

Table 4. Connection Settings Parameter Option.

Parameter	Description
Connect={BROWSER, Custom, Citrix, RDP, SSH, VMWARE_VIEWCLIENT, VNC_VIEWER, Ericom_Powerterm}	<p>Connection protocol. Connect Parameter Options section describes these connect options:</p> <ul style="list-style-type: none"> · BROWSER, see Browser Connect Options · Custom, see Custom Connect Options · Citrix, see Citrix Connect Options · RDP, see RDP Connect Options · SSH, see SSH Connect Options · VMWARE_VIEWCLIENT, see VMware View Connect Options
DomainList=< String values separated by semicolon>	<p>A list of domain names that will appear in the login dialog box as options to help users in selecting the domain to log in to PNAgent or Active Directory servers. Be sure to enclose in quotation marks if spaces are included.</p> <p>For example: DomainList = dell; SQA; wyse</p>
DisableDomain={ True, False}	<p>DisableDomain parameter is used to disable the display of a Domain field. The default value depends on the value of the Domain List option. When the Domain List is empty, DisableDomain defaults to yes. Otherwise, it defaults to no. The Domain field does not appear either of the cases.</p>
EthernetSpeed={ Auto, 100M-F, 100M-H, 10M-F, 10M-H}	<p>Default is Auto</p> <p>Specifies the device speed:</p> <p>Auto: auto-negotiates speed with peer</p> <p>100M-F: 100 Mbps Full Duplex 100M-H: 100 Mbps Half Duplex</p> <p>10M-F: 10 Mbps Full Duplex</p> <p>10M-H: 10 Mbps Half Duplex</p>
FileServer=<protocol://><hostaddress>	<p>Default is specified by DHCP server(INI file server's URL). If no protocol is specified, FTP is assumed for example, 192.168.0.1 is understood as ftp://192.168.0.1.</p>
FileServerUsername=<username>	<p>Specifies the username for File server.</p> <p> NOTE: An anonymous (unauthenticated access) is assumed if FileServerUsername parameter is not specified.</p>
FileServerPassword=<Password>	<p>Specifies the Base-64 encrypted password for File server.</p>
HDXH264CaptureBin=<string>	<p>For ICA only.</p>

Parameter	Description
	Default is Null. It specifies the name of the customized H264 CaptureBin.
HDXH264InputEnabled={yes, no}	For ICA only. Default is no This is used to enable H264 compression from client to server. This will enable h264 encoding for media packets sent from client to server. This enables better performance for multimedia redirection and webcam redirection.
HDXWebCamDevice={ Valid path of the webcam device}	For ICA only. Default is /dev/video0. Selects the webcam device. This parameter can be used when there are multiple webcam present.
HDXWebCamFramesPerSec=<integer value>	For ICA only. Default is 15. Sets the preferred frame rate for webcam.
HDXWebCamHeight=<integer value> HDXWebCamWidth=<integer value>	For ICA only. These settings control the resolution parameters for webcam. The defaults are HDXWebCamWidth = 352 and HDXWebCamHeight = 288.
H264Enabled={yes, no}	For ICA only. Default is yes . You can enable H264 compression from server to client. This will enable h264 encoding for media packets which are received from server. This enables the better performance for multimedia redirection and webcam redirection.
ICABrowsing={ udp, http, https}	For ICA only. Default is http. Specifies the default browsing protocol. This setting can be overridden by the HttpBrowsing= {yes, no, ssl} in each connection property.
ICAComports= <ICAComports=COMx= {COMy, USBSERz}, COMx=...>	For ICA only. Maps serial devices on the server to serial devices on the thin client, where x=1 to 4, if COMy maps to serial port on the thin client and USBSERz maps to that USB serial port. For Example: ICACOMports=COM1=USBSER1
ICADenyUSB= vid=<hexnumber><space>pid=<hexnumber>...	For ICA only. Specifies the USB devices that are excluded from ICA session.

Parameter	Description
	<p>① NOTE: When you are using the ICADenyUSB parameter, a user candenyredirectionof the device using class/suclass also along with vid/pid. ICADenyUSB=class=01 subclass=01 to deny USB Audio family.</p> <p>① IMPORTANT: You can use vendor IDs and product IDs together as shown; or also use only the vendor IDs that are not use the product IDs if you want to exclude the same vendor ID group of devices regardless of their product ID.</p> <p>The format must be the following:ICADenyUSB=vid=<hexnumber><space>pid=<hexnumber> or ICADenyUSB=vid=<hexnumber></p> <p>For example, ICADenyUSB=vid=1234 pid=5678,vid=1234 pid=9876</p> <p>This example excludes two USB devices. There is a space between vid and pid and each device is separated with a comma. or ICADenyUSB=vid=1234,vid=5678 This example excludes all USB devices that have the same vendor ID regardless of their product ID.</p> <p>① NOTE: While the ICAAllowUSB parameter exists, it is highly recommended that it not be used as by default all USBs are allowed.</p>
ICADesktopApplianceMode={yes, no}	<p>For ICA only.</p> <p>Default is no.</p> <p>ICADesktopApplianceMode parameter is used to enable Citrix HDX USB start up for Desktop Appliance Mode ,for any USB devices that are already plugged in the device will start up provided the device is not disallowed with a deny rule in the USB policies on either the server (registry entry) or the client (policy rules configuration file). This parameter requires two thin client reboots.</p>
ICADrives=<drive letter>= {device name}, {rw, ro}, basedir [drive letter=...]	<p>For ICA only.</p> <p>To map drives on the server to USB mass storage devices attached to the thin client, where:</p> <p>drive letter= A to Z</p> <p>device name= usbstorage-x and cdrom-x, where x=0,1,2 and so on.</p> <p>rw= read/write</p> <p>ro= read only</p> <p>basedir= an optional directory on the USB device to use.</p>
ICADynamicDriveMapping={yes, no}	<p>For ICA only.</p> <p>To enable or disable mapping of a single device based on the device name</p> <p>Default value is no.</p>
ICADynamicFolderMapping={yes, no}	<p>For ICA only.</p> <p>To enable or disable mapping of all the devices listed in the standard mount point. For example, /run/media. Hence it allows the user to enable or disable PAM login.</p>

Parameter	Description
	Default value is no.
ICADynamicMapping={yes, no}	<p>For ICA only.</p> <p>To enable or disable file system mapping for ICA session.</p> <p>Default value is yes.</p>
ICAFullscreen={yes, no}	<p>For ICA only.</p> <p>Default is no.</p> <p>Enables to run the session at full screen not in a window.</p>
ICAHotkey={yes, no}[<hotkey name>=<supported value>]	<p>For ICA only.</p> <p>Default is yes.</p> <p>Yes/no option to enable and allow mapping of the hotkeys.</p> <p>For example:</p> <p>ICAHotkey=yes</p> <p>Hotkey1Char=F1 Hotkey1Shift=Shift</p> <p>Hotkey2Char=F3</p> <p>Hotkey2Shift=Shift Hotkey3Char=F2</p> <p>Hotkey2Shift=Shift Hotkey3Char=F2</p> <p>Hotkey11Char=plus Hotkey11Shift=Ctrl</p> <p> NOTE: All hotkey options must be on one line.</p>
ICAMMAudio={yes, no}	<p>For ICA only.</p> <p>ICAMMAudio is used to enable Citrix HDX Multimedia audio. This parameter requires two thin client reboots. If this parameter is set, then audio will be played by using client encoding and decoding capabilities.</p>
ICAMMVideo={yes, no}	<p>For ICA only.</p> <p>Default is yes.</p> <p>ICAMMVideo option is used to enable Citrix HDX Multimedia video.</p> <p>This parameter requires two thin client reboots. If this parameter is set ,then video is extracted by using the client rendering capabilities(encoding and decoding).</p>
ICAMultistream={True, False, yes, no}	<p>To enable multiple streams to be used when connecting to a multistream ICA enabled server, you must ensure this parameter is set to True or Yes.</p> <p>Default is False or No</p>
ICAProxyHost=< IP address>	<p>For ICA only.</p> <p>Specifies the firewall server address for the ICA connection. When configuring an alternate address for firewalls and HTTP, SOCKS is used for ICAProxyType, you must provide the proxy server IP address and port.</p>

Parameter	Description
	Each entry with optional port is specified as host:port, where :port is optional. If not specified, port depends on the browsing protocol.
ICAProxyType={ None, HTTP, SOCKS}	<p>For ICA only.</p> <p>It defines the proxy type for the ICA connection. When configuring an alternate address for firewalls, you can select the proxy type of None, HTTP, or SOCKS.</p>
ICAResolution={ default, seamless, 640x480, 800x600, 1024x768, 1280x1024, 1600x1200}	<p>For ICA only.</p> <p>Default is default.</p> <p>Specifies the connection display resolution. The default value starts the connection using the current desktop display setting. If the connection is to a published application, the seamless selection is available. Seamless option applicable only for Published Application and Storefront connections. Default option will start the connection using the current desktop display setting.</p>
ICAShowAllApps= {yes, no}	<p>Default is no. This parameter makes it possible to display all applications on desktop if PAM login is enabled.</p>
ICASToreName=< Store name specified in the xenapp or xendesktop server>	<p>For ICA only.</p> <p>Specifies the Global ICA Store name which is used for PNAgent Login.</p>
IniFileSource={ cache, local, server, none}	<p>Default is cache.</p> <p>Specifies the source of the INI file to use:</p> <ul style="list-style-type: none"> · Selecting the local specifies that the local is the ini file created from settings made on the client GUI. · cache is the cached/saved/used-at least-once ini file originally from a file server. For example, a GUI initially set up by an administrator. <p>NOTE: If a file server is available, the cache value allow the client to first look to a file server for the latest ini available on the server to use. However, if a file server is not found, for example, the file server is down, the client uses the cached/saved/used-at least-once ini file.</p> <ul style="list-style-type: none"> · Selecting the server specifies that the server is the ini file only from the file server such as an FTP server. The server value will not allow the client to use a cached ini file.
MouseSendsControlV={yes, no}	<p>For ICA only.</p> <p>Default is no.</p> <p>MouseSendsControlV allows you to control the mouse button action in a Unix environment.</p> <p>The following are the values:</p> <p>yes: In a Unix environment, a middle mouse performs the same paste function as the Ctrl+V keystroke combination in the Windows.</p> <p>no: Disables the middle button paste, when used in the wlx.ini file with ICA v.10.</p>
NETWORK.ETH0.MTU={ Any positive integer}	<p>Default is System assigned automatically Specifies the network card's maximum transmission unit size.</p>

Parameter	Description
PAMLoginEnabled={yes, no}	<p>For ICA only.</p> <p>PAMLoginEnabled option allows the user to set /reset the domain value and allows the user to enable or disable PAM login.</p> <p>Default value is no.</p>
PNAgentServer=<host address or URL>[:<port>][:<host address or URL>[:<port>]]	Specifies a list of PNAgent servers or complete URL. If not specified, port depends on the browsing protocol. If multiple servers are mentioned, they should be separated by ;.
RapportSecurePort=<443>	<p>Default is 443</p> <p>The secure port number of the WDM service.</p>
RapportServer=< WDMServer-IP or FQDN>	Default is none Only IPV4 is supported.
Seamless={yes, no}	<p>For ICA only.</p> <p>Default is no.</p> <p>Seamless option is used to set the default resolution for ICA-published applications to seamless. This parameter is recommended to use for launching applications, not recommended for launching desktop connections.</p>
TimeoutDelayLoginForNetwork=<integer from 1 to30>	Sets the delay (wait) time before performing the authentication due to network delay.
UDPAudioPortHigh={yes, no}	<p>For ICA only.</p> <p>Default is 16509.</p> <p>This parameter is used to configure UDP port range for real time audio data packet exchange.</p>
UDPAudioPortLow={yes, no}	<p>For ICA only.</p> <p>Default is 16500.</p> <p>This parameter is used to configure UDP port range for real time audio data packet exchange.</p>
UseLastDomainName={true, false}	<p>Default is False</p> <p>If this ini parameter is set, then in the GDM login window, the username field is populated with the previous logged in domain username value. This ini parameter is valid only for domain login and not for local user login.</p>
UseLastLoginName={True, False}	<p>Default is False.</p> <p>If this ini parameter is set, then in the GDM login window, the username field is populated with the previous logged in domain username value. This ini parameter is valid only for domain login and not for local user login.</p>
VMWareView.ImageCacheSize=< a number value from 50 to 1024>	Specifies the VMware View client's image cache size A larger cache size reduces bandwidth usage, but requires more memory on the client. A smaller cache size requires more bandwidth usage. Valid values for this INI parameter option are between 50 and 1024. If it is set to a value less than

Parameter	Description
	50, the system automatically uses a value of 50. If it is set to a value more than 1024, the system automatically uses a value of 1024.
<p>VMWareView.ShowImageCacheHits={no, yes}</p> <p>VMWareViewExcludeUSBFamily=<storage></p> <p>VMWareViewExcludeUSBID=<vidpid></p> <p>VMWareViewIncludeUSBFamily=<storage></p> <p>VMWareViewIncludeUSBID=<vidpid></p> <p>INI Parameter Description</p> <p>VMWareViewExcludeUSBFamily=<storage> Used to exclude USB Family. It can be storage/printer/bluetooth</p> <p>VMWareViewIncludeUSBFamily=<storage> Used to include USB Family. It can be storage/printer/bluetooth</p> <p>VMWareViewExcludeUSBID=<vidpid> Used to exclude a specific USB device.</p> <p>VMWareViewIncludeUSBID=<vidpid> Used to include a specific USB device.</p>	<p>Default is no.</p> <p>Yes/no option to display a visual indication that the image cache in VMware View client is working. If enabled, the user sees rectangles around every 32x32 tile in the established session. Set the value on this INI parameter to yes to see the visual effect.</p>
<p>WLAN=<wlan connection name></p> <p>[SSID=<SSID Name>]</p> <p>[Security={NONE, WEP40/128-BITKEY, WEP128-BITPASSPHRASE, LEAP, WPA&WPA2PERSONAL, WPA&WPA2ENTERPRISE, DYNAMICWEP}]</p> <p>[Mode={Infrastructure, AdHoc}]</p> <p>[Username=<username>]</p> <p>[Password=<password>]</p> <p>[AuthType={OpenSystem, SharedKey, TLS, LEAP, TTLS, PEAP}]</p> <p>[Wep-Key1=<wep key1>]</p> <p>[Wep-Key2=<wep key2>]</p> <p>[Wep-Key3=<wep key3>]</p> <p>[Wep-Key4=<wep-key4>]</p> <p>[WepKeyIndex=<Key Index number>]</p> <p>[InnerAuth={MSCHAPv2, MD5,GTC}]</p> <p>[PeapVersion={Auto, 0, 1}]</p> <p>[CACertificate=<certificate path></p>	<p>Wireless LAN can be configured through this INI parameter and the options.</p> <p>Security Notes: Supported wireless security types:</p> <p>Open</p> <p>WEP 40/128 bit key</p> <p>WEP 128-bit Passphrase</p> <p>LEAP</p> <p>WPA & WPA2 Personal</p> <p>LEAP in WPA & WPA2 Enterprise</p> <p>The following security types are not supported:</p> <p>All WPA & WPA2 Enterprise authentications except a LEAP which does not require a certificate Dynamic WEP (802.1x).</p> <p>NONE — OPEN Security type</p> <p>WEP40/128-BITKEY — WEP 40/128-bit Key</p> <p>WEP128-BITPASSPHRASE — WEP 128-bit Passphrase</p> <p>LEAP — leap</p> <p>WPA&WPA2PERSONAL — WPA and WPA2 personal</p> <p>WPA&WPA2ENTERPRISE — WPA and WPA2 Enterprise</p> <p>DYNAMICWEP — Dynamic WEP (802.1x)</p> <p>AuthType Notes:</p>

Parameter	Description
	<p>AuthType should be OpenSystem or SharedKey when Security is WEP40/128-BITKEY or WEP128-BITPASSPHRASE; For other enterprise securities, AuthType should be 'TLS/LEAP/TTLS/PEAP'. For WPA & WPA2 Enterprise security, only the LEAP authentication type is supported.</p> <p>WEP-KEY Notes:</p> <p>WEP-KEY1 through WEP-KEY4 are optional. WEPKEYINDEX=<key index number> is optional.</p> <p>IMPORTANT:</p> <p>If not specified, by default it is set to the key corresponding to WEP-KEY1.</p> <p>InnerAuth — Specifies the second EAP type inside the PEAP tunnel. Used only in cases of PEAP authentication.</p> <p>PeapVersion - Default is Auto. Specifies the PEAP protocol version.</p> <p>CACertificate - Root CA certificate name for authentication.</p> <p>For Examples:</p> <p>Security type OPEN example: WLAN=wlan1 SSID=XYZ\ Security=none Mode=Infrastructure.\</p> <p>Security type WEP 40/128-bit key example:</p> <p>WLAN=wlan2 SSID=XYZ \ Security=wep40/128-bitkey \ Mode=Infrastructure Wep Key1=1234567890\ WepKeyIndex=1\ AuthType=OpenSystem type\ WEP 128-bit Passphrase example:</p> <p>WLAN=wlan3 SSID=ABCD \ Security=wep128-bitpassphrase \ Mode=Infrastructure Wep-key1=1111111111 \ Wep-Key2=2222222222 \ WepKeyIndex=2 \ Authtype=OpenSystem\ Security type WPA & WPA2 Personal example:</p> <p>WLAN=wlan4 SSID=WPA2 \ Security=wpa&wpa2personal \ Mode=Infrastructure Password=12345678\ </p>

Parameter	Description
	<p>Security type LEAP example:</p> <p>WLAN=wlan5</p> <p>SSID=Wyse Security=leap \</p> <p>Mode=Infrastructure \</p> <p>Username=admin \</p> <p>Password=1234567890 \</p> <p>AuthType LEAP example:</p> <p>WLAN=wlan6 SSID=ACS \</p> <p>Security=wpa&wpa2enterprise \</p> <p>Mode=Infrastructure \</p> <p>AuthType=leap \</p> <p>Username=linux\</p> <p>Password=linux\</p> <p>AuthType PEAP example:</p> <p>WLAN=W2EN \</p> <p>SSID=W2EN \</p> <p>Security=wpa&wpa2enterprise \</p> <p>Username=peap \</p> <p>Password=peap \</p> <p>AuthType=peap \</p> <p>InnerAuth=mschapv2 \</p> <p>PeapVersion=Auto \</p> <p>CACertificate=/etc/certificate/rootcer.cer\</p>

Custom GNOME Settings Parameter Options

The following table contains parameters used for configuring Custom GNOME settings where default values are underlined>.

Table 5. Custom GNOME Settings Parameter Options

Parameter	Description
Custom.Menu=<Display:both,Time and Date:admin>	<p>The value of Custom.Menu is a non-quoted string. The menu item which appears in the Settings App (in English) is used as the NAME.</p> <p>The value must be with , separated items and : delimiter for privilege level: {NAME1: privilege, NAME2: privilege ...} or <default></p> <p>Do not use or for any string. There cannot be white space between the : delimiter. The NAME is case sensitive and must be same for the menu item name.</p> <p>Example 1:</p> <p>The following INI settings sets Display menu to be available for both admin and user modes, Time and Date menu is available in admin mode only, and add-ons menu will not be available either in user or in admin mode.</p> <pre>Custom.Menu=Display:both, \ Time and Date:admin, \ Add-ons:none</pre> <p>Example 2:</p> <p>The following INI resets all privilege to default.</p> <pre>Custom.Menu =<default></pre>
Custom.PowerButton.AllowPowerOff={yes,no}	<p>Default is yes</p> <p>Customizes the Power Off option to be available from Power Button in user mode.</p> <p>yes: allows Power Off in user mode.</p> <p>no: disable Power Off option in user mode.</p>
Custom.PowerButton.AllowRestart={yes, no}	<p>Default is yes</p> <p>Customizes the Restart option to be available from Power Button in user mode.</p> <p>yes: allows restart in user mode.</p> <p>no: disables restart option in user mode.</p>
Custom.PowerButton.Default=<yes>	Reset the Power Button customization back to factory default.

Parameter	Description
Custom.Taskbar.AllowActivitiesIcon={yes, no}	<p>Default is yes</p> <p>Customize the Activities icon to be enabled or disabled in user mode.</p> <p>yes: Activities icon is enabled on Taskbar in user mode.</p> <p>no: Activities icon is disabled on Taskbar in user mode.</p>
Custom.Taskbar.AllowAudioIcon={yes, no}	<p>Default is yes</p> <p>Customizes the Audio Volume icon to be enabled or disabled in user mode.</p> <p>yes: Audio Volume icon is enabled on Taskbar in user mode.</p> <p>no: Audio Volume icon is disabled on Taskbar in user mode.</p>
Custom.Taskbar.AllowDateTimeIcon={yes, no}	<p>Default is yes</p> <p>Customizes the Date and Time icon to be enabled or disabled in user mode.</p> <p>yes: Date and Time icon is enabled on Taskbar in user mode.</p> <p>no: Date and Time icon is disabled on Taskbar in user mode.</p>
Custom.Taskbar.AllowKeyboardIcon = {yes, no}	<p>Default is yes</p> <p>Customizes the Keyboard icon to be enabled or disabled in user mode.</p> <p>yes: Keyboard icon is enabled on Taskbar in user mode.</p> <p>no: Keyboard icon is disabled on Taskbar in user mode.</p>
Custom.Taskbar.AllowNetworkIcon = {yes, no}	<p>Default is yes</p> <p>Customizes the Network icon to be enabled or disabled in user mode.</p> <p>yes: Network icon is enabled on Taskbar in user mode.</p> <p>no: Network icon is disabled on Taskbar in user mode</p>
Custom.Taskbar.AllowPowerIcon = {yes, no}	<p>Default is yes</p> <p>Customizes the Power icon to be enabled or disabled in user mode.</p> <p>yes: Power icon is enabled on Taskbar in user mode.</p> <p>no: Power icon is disabled on Taskbar in user mode.</p>
Custom.Taskbar.AllowSystemInformationIcon = {yes, no}	<p>Default is yes</p> <p>Customizes the System Information icon to be enabled or disabled in user mode.</p> <p>yes: System Information icon is enabled on Taskbar in user mode</p> <p>no: System Information icon is disabled on Taskbar in user mode.</p>
Custom.Taskbar.Default =<Yes>	Reset the Taskbar Icon customization back to factory default.

Parameter	Description
Custom.Taskbar.Hide={no, yes}	<p data-bbox="754 144 890 170">Default is no</p> <p data-bbox="754 199 1145 224">Hides the entire Taskbar in user mode.</p> <p data-bbox="754 254 1238 279">yes: hides the Taskbar completely in user mode.</p> <p data-bbox="754 308 930 333">no: show Taskbar</p>

Connect Parameter Options

This section provides the options that you can use for the Connect parameter in the following supported connections:

- [Browser Connect Options](#)
- [Custom Connect Options](#)
- [Citrix Connect Options](#)
- [RDP Connect Options](#)
- [SSH Connect Options](#)
- [VMware View Connect Options](#)
- [VNC Viewer Connect Options](#)
- [Ericom PowerTerm Connect Options](#)

Topics:

- [Browser Connect Options](#)
- [Custom Connect Options](#)
- [Citrix Connect Options](#)
- [RDP Connect Options](#)
- [SSH Connect Options](#)
- [VMware View Connect Options](#)
- [VNC Viewer Connect Options](#)
- [Ericom PowerTerm Connect Options](#)

Browser Connect Options

The following table contains the supported options you can use for Browser connections where default are in bold:

Example: Browser connect options

```
CONNECT=BROWSER \
Description="XenDesktop" \
URL=http://10.140.155.31 \
Resolution=FullScreen \
AutoConnect=1 \
Mode=kiosk \
LocalCopy=no
```

Table 6. Browser Connect Parameter Options

Option	Description
AutoConnect={no, yes}	Default is no.

Option	Description
	You can start a connection automatically at sign-on.
Description=<string description>	Connection description provides a connection name for the Desktop icon and the Connection Manager. ⚠ CAUTION: The text must be enclosed in double quotation marks if it contains spaces or punctuation characters. These characters are not allowed: &"\$?!;()[]\
Icon=<image file>	Specifies an icon to appear on the local desktop or Connection Manager. The file must be located in the server wlx2/bitmap directory. If not specified, the default icon is displayed except in the case of a published application. A PNG, JPEG or GIF may be used. XPM is permitted for backward compatibility.
LocalCopy={no, yes}	Default is no. You can use the local copy of the ini file.
Mode={kiosk, normal}	Default is normal. It launches firefox in kiosk or normal mode.
Reconnect={no, yes}	Default is no. It is used to display the Enable Auto Reconnect check box to control automatic reconnection to an application server after a disconnection. Option Values and actions: yes or 1 — Enables the Enable Auto Reconnect check box. no or 0 — (default) Disables the Enable Auto Reconnect check box.
ReconnectSeconds=<value in seconds>	Default is 30. Specifies the amount of time in seconds (default is 30) to wait before automatic reconnection to an application server after a disconnection. Requires Reconnect = yes or 1
Resolution={ default, maximized,640x480, 800x600, 1024x768, 1280x1024, 1600x1200}	Default is default. Specifies the connection window size.
URL=<URL>	Specifies the starting URL.

Custom Connect Options

The following table contains the supported options you can use for Custom connections where default values are in bold:

Example:

```
CONNECT=Custom \
```

```
Description="Custom_Connection" \
```

```
AutoConnect=Yes \
```

```
Reconnect=Yes \
ReconnectSeconds=100 \
Command=/usr/bin/xterm
```

Table 7. Custom Connect Parameter Options

Option	Description
AutoConnect={no, yes}	Default is no AutoConnect option is used to start a connection automatically at sign-on.
Command=<String>	Default is none Specifies a command to execute. For xterms, it is recommended to use the -ls option, because it is a login shell.
Description=<String>	Default is none Connection description provides a connection name for the Desktop icon and the Connection Manager. ⚠ CAUTION: The text must be enclosed in quotation marks, if it contains spaces or punctuation characters. These characters are not allowed & ‘ “ \$? ! ; () [] { } \
Icon=<image file>	Specifies an icon to appear on the local desktop or Connection Manager. The file must be located in the server wlx2/bitmap directory. If not specified, the default icon is displayed except in the case of a published application. A PNG, JPEG or GIF may be used. XPM is permitted for backward compatibility.
LocalCopy={no, yes}	Default is no LocalCopy option is used to save the connection in the local permanent registry.
Reconnect={no, yes}	Default is no Reconnect option is used to automatically reconnect to an application server after a disconnection.
ReconnectSeconds=<value in seconds>	Default is 30 Specifies the amount of time in seconds to wait before automatic reconnection to an application server after a disconnection. It requires, Reconnect= yes or 1.
Runinterminal= {yes, no}	Default is no. This option can be used to customize connection with the terminal.

Citrix Connect Options

The following table contains the supported options you can use for Citrix connections where default values are in bold:

Example: Server connection

```
CONNECT=ICA \  
Host=192.168.1.2 \  
Description="ICA_Desktop " \  
AutoConnect=Yes \  
Reconnect=Yes \  
Encryption=128 \  
Colors=16m \  
Fullscreen=No \  
Resolution=800x600 \  
Username=$UN \  
Password=$PW \  
Domainname=$DN \  
Alternate=Yes \  
LowBand=Yes \  
LocalCopy=no
```

Example: Published application connection

```
connectionCONNECT=ICA \  
BrowserIP=192.168.1.2 \  
Application="Desktop" \  
Description="ICA_Desktop " \  
AutoConnect=Yes \  
Reconnect=Yes \  
Encryption=128 \  
Colors=16m \  
Fullscreen=No \  
Resolution=800x600 \  
Username=$UN \  
Password=$PW \  
Domainname=$DN \  
Alternate=Yes \  
LowBand=Yes \  
LocalCopy=no
```

LocalCopy=no

Example: Storefront Connection:

Connect=ICA \

Application="win81" \

Browserip=hostname.domain.com \

Description="Store-Xendesk7" \

AutoConnect=no \

HttpBrowsing=ssl \

StoreName=Store \

StoreFront=yes \

FullScreen=yes \

AutoConnect=no \

Reconnect=10

Example — Smart Card Enabled to Storefront connection when smart card enabled:

Connect=ICA \

Application=win7 \

StoreName=Store \

StoreFront=Yes\

BrowserIP=192.168.1.2 \

Description=smartcard_test \

Username=\$UN \

DomainName=\$DN\

SmartCard=yes \

HTTPBrowsing=ssl \

smartcardtype=GEMALTODOTNET

Table 8. Citrix Connect Parameter Options

Options	Description
Application= <Application name of type string >	Specifies the name of the published application to be launched. The names of the applications to be published can be configured by the administrator. It is a mandatory option for launching PA and Storefront connections. For Example: Notepad
AutoConnect={yes, no}	Default is no.

Options	Description
	Enable this parameter for a specific connection ,to automatically trigger the connection to xenapp or xendesktop server after user log-on.
BrowserIP = <Comma separated value of type string. Each value should be a valid IP address or full qualified host name. To separate items on the list, use semicolons or commas>	<p>Each address in the list will be tried in the order listed until a successful connection is established. Once successful connection is established , remaining entries will not be tried.</p> <p>It is a mandatory parameter for both PA and storefront connections.</p>
Colors={256, 64k, 16m}	<p>Default is 64k.</p> <p>Specifies the session color mode. For faster display performance, use 256 colors.</p>
Description=<string>	<p>Connection description provides a connection name for the Desktop icon and the Connection Manager.</p> <p>⚠ CAUTION: The text must be enclosed in double quotation marks, if it contains spaces or punctuation characters. These characters are not allowed: & ‘ “ \$?!;()[]{} \</p>
DomainName=<domain name or \$DN>	This parameter specifies the domain name. \$DN specifies that the thin client sign-on domain name is used.
Encryption={ Basic, 40, 56, 128, Login-128}	<p>Default is Basic.</p> <p>Specifies the connection security level. The highest level is 128-bit security and the lowest level is Basic.</p> <p>For v7.x VDI agent will support only 128 bit, for Citrix.</p>
FullScreen={yes, no}	<p>Default is no.</p> <p>In order to run the session in full screen not in a window, you can set this parameter to yes.</p>
Host=<string>	This is a mandatory parameter for server connection. This is applicable only for Server connections. Use comma separated list of IP address. To separate the list of items, use semicolon or comma.
HttpBrowsing= {no,yes,ssl}	Designates the browsing protocol.
Icon=<image file>	Specifies an icon to appear on the local desktop or Connection Manager. The file must be located in the server wlx2/bitmap directory. If not specified, the default icon is displayed except in the case of a published application. A PNG, JPEG or GIF may be used. XPM is permitted for backward compatibility.
LocalCopy={yes, no}	<p>Default is no</p> <p>Enable this parameter for a specific connection if the setting parameter pertaining to that connection needs be stored in the registry permanently, if enabled the settings parameter will be stored across system reboot.</p>
LowBand={yes, no}	Default is no.

Options	Description
	To enable optimization for low-speed connections, such as reducing audio quality or decreasing protocol-specific cache size.
NoReducer={yes, no}	<p>Default is yes.</p> <p>You can enable or disable the compression during the session.</p>
Password={base-64 encoded password string , \$SN, \$MAC, \$IP, \$DN, \$UN, \$PW, \$TN}	<p>Specifies the password required to log in to the application server. Either a base-64 encoded login password or a variable can be used.</p> <p>password — base-64 encoded login password</p> <p>Variable and Description:</p> <p>\$SN — Serial number</p> <p>\$MAC — MAC address</p> <p>\$IP — IP Address</p> <p>\$DN — Sign-on domain name</p> <p>\$UN — Sign-on name</p> <p>\$PW — Sign-on password</p> <p>\$TN — Terminal name</p> <p>NOTE: The application server password is not encrypted. The user is prompted to enter the password when the connection is made. This application server password directive never starts a line, so it can be distinguished from the thin client user sign-on password which starts a line.</p>
Ping={yes, no}	<p>Default is yes.</p> <p>This option is used to enable ping. For non published application connections, a ping (ICMP) is sent to the host server prior for connecting, to verify that the host is reachable.</p>
Reconnect={ no, yes, value of 1 to 3600}	<p>Default is no.</p> <p>It controls the automatic reconnection to an application server after a disconnection.</p> <p>Option Value and action:</p> <p>yes — Immediately restarts the connection in 30 seconds after a disconnect. Default for reconnect is 30 seconds.</p> <p>no — (default) Does not reconnect after a disconnect.</p> <p>1..3600 — (integer) Specifies the interval to wait in seconds before automatically restarting the connection after a disconnection. Valid range is 1–3600.</p>
Resolution={ default, seamless, 640x480, 800x600, 1024x768, 1280x1024, 1600x1200}	<p>Default is default, which starts the connection using the current desktop display setting.</p> <p>Specifies the connection display resolution. The default value starts the connection using the current desktop display setting. Seamless</p>

Options	Description
	option is applicable only for Published Application and Storefront connections.
SmartCard={ Yes,no}	Default is no. When set to yes, this option enables logging into the Citrix Server with a Smart Card PIN. This parameter is not applicable for PA connections.
SmartCardType={ GEMALTODOTNET, CAC, PIV}	Specifies the type of the smart card you are using to make the connection to the Storefront Server. To enable smart card login, set parameter SmartCard=yes and parameter smartcardtype to type of smart card. NOTE: It is applicable only for storefront server.
StoreFront={yes, no}	The option to have the connection attempt to connect to the Storefront server. There is no default value. If set to no, the connection attempts to connect to the PNAgent server.
StoreName=< Name of the Store>	It specifies the name of the Store through which the connection for Storefront server is established.
Username={<username>, \$SN, \$MAC, \$IP, \$DN, \$UN, \$PW, \$TN}	Specifies the name required to log in to the application server. Either a conventional login name or a variable can be used. Variable and Description: username — Conventional login name \$SN — Serial number \$MAC — MAC address \$IP — IP Address \$DN — Sign-on domain name \$UN — Sign-on name \$PW — Sign-on password \$TN — Terminal name

RDP Connect Options

The following table contains the supported options you can use for RDP connections where default values are in bold:

Example:

```
CONNECT=RDP \
```

```
Host=192.168.1.2 \
```

```
Description="RDP_Server" \
```

```
AutoConnect=yes \
```

```
Colors=16m \
```



```

username=$UN \
Password=$PW \
Domainname=$DN \
Resolution=800x600 \
Reconnect=no \
Drives=J=disk \
Drives=k=floppy \
Sound=off \
LocalCopy=Yes \
UseRDGateway=Yes \
RDServer=192.168.1.2 \
SameLoginForRD= Yes \
RDUserName=$UN \
RDPASSWORD=$PW\
RDDomainName=$DN

```

Table 9. RDP Connect Parameter Options

Options	Description
Application=<Remote App Name>	Specifies the remote application that you want to launch through RDP
AutoConnect={no, yes}	Default is no This option is used to start a connection automatically at sign-on.
Colors={ 4b,32k,64k,16m }	Default is 4b. Specifies the session color mode. For faster display performance, use 256 colors.
Command=<start command>	Default is none Specifies a command to execute remotely. For xterms, it is recommended that the -ls option to be used because it is a login shell
Description=<string description>	Connection description provides a connection name for the Desktop icon and the Connection Manager. ⚠ CAUTION: The text must be enclosed in quotation marks if it contains spaces or punctuation characters. These characters are not allowed & ‘ “ \$? ! ; () [] { } \
Directory=<working directory>	Specifies a directory to be used as the working directory after log on to the server. The maximum is 63 characters.

Options	Description
DomainName={<domainname>, \$DN}	This parameter specifies the domain name. \$DN specifies that the thin client sign-on domain name is used.
Drives=<drive letter>= <drive_name> [,basedir]	It maps drives on the server to USB mass storage devices attached to the thin client, where drive letter= A to Z drive_name = usbstorage-x and cdrom-x, where x=0,1,2 and so on. basedir=an optional directory on the USB device to use. NOTE: <ul style="list-style-type: none"> • Drives = WyseUSB = all, use this parameter to enable RDP drive mapping. • Make sure each drive command is separated by a space.
Encryption= {none, normal}	If the value is none, then no encryption is used. NOTE: Use this option when connecting to a server with data encryption between the communication of the server and the client.
EnableH264={yes,no}	Default is Yes.
EnableUDP={Yes,No}	Default is Yes.
ForwardPrinters={yes, no}	Default is yes. Yes/no option to enable the forwarding and use of all available printers to or with the RDP session. Any direct RDP connection is supported (not supported through VMware View broker).
FullScreen={no, yes}	Default is no Runs the session at full screen.
Host=<host server name or IP address>	Specifies the server name or IP address to connect. NOTE: This option is mandatory.
Icon=<bitmap file>	Specifies an icon to appear on the thin client desktop for this connection. The file must be an XPM file located in the FTP server wx2/bitmap directory. If not specified, the default icon is displayed.
LocalCopy={no, yes}	Default is no The LocalCopy option is used to save this connection in the local permanent registry.
LowBand={no, yes}	Default is no
LPTports=LPTx={LPTy,USBLPz},LPTx=...	It maps parallel devices on the server to make devices parallel on the thin client, where x=1 to 4; if LPTy, map to that parallel port on the thin client; if USBLPz, map to that USB parallel port. NOTE: Make sure each serial device command is separated by a comma and space, and Windows 2000 servers do not support LPT port mapping.

Options	Description
NLA={yes,no}	<p>Default is no.</p> <p>NLA option is used to enable Network Level Authentication for RDP sessions.</p>
NotifyDisconnect={yes,no}	<p>Default is no.</p> <p>It Notifies the Disconnection.</p>
NoGrabKeyboard={no, yes}	<p>Default is no.</p> <p>NoGrabKeyboard option is used to enable the keyboard event grabbing in any direct RDP connection session (not supported through VMware View broker).</p>
Password={<base-64 encodedpassword>, \$SN, \$MAC, \$IP, \$DN, \$UN, \$PW, \$TN}	<p>Specifies the password required to log in to the application server. Either a base-64 encoded log-in password or a variable can be used.</p> <p>password — base-64 encoded log-in</p> <p>password Variable and Description:</p> <p>\$SN — Serial number</p> <p>\$MAC — MAC address</p> <p>\$IP — IP Address</p> <p>\$DN — Sign-on domain name</p> <p>\$UN — Sign-on name</p> <p>\$PW — Sign-on password</p> <p>\$TN — Terminal name</p>
Ping={yes,no}	<p>Default is no.</p> <p>Ping option is used to enable ping. For non-published application connections, a ping (ICMP) is sent to the host server prior to connecting to verify that the host is reachable.</p>
RDDomainName=<RD Domain name>	Specifies the RD Domain name to use for the RD Gateway Login.
RDPasswOrd=<RD Password>	Specifies the RD Password to use for the RD Gateway login. This parameter should be base-64 encrypted.
RdpClipboard={yes,no}	<p>Default is yes</p> <p>RdpClipboard option is used to enable the clipboard in an RDP session.</p>
RDServer=<RDServer address>	Specifies the RD Gateway host address
RDUsername=<RD UserName>	Specifies the RD Username to use for RD Gateway Login
Reconnect={no, yes}	<p>Default is no</p>

Options	Description
	Reconnect option is used to automatically reconnect to an application server after a disconnection.
ReconnectSeconds=<1 to 3600>	<p>Default is 30</p> <p>Specifies the amount of time in seconds (default is 30) to wait before automatic reconnection to an application server after a disconnection. Requires Reconnect=yes or 1.</p>
Resolution= {default, 640x480, 800x600, 1024x768, 1280x1024, 1600x1200}	<p>Default value is default, which starts the connection using the current desktop display setting.</p> <p>Specifies the connection display resolution. The default value starts the connection using the current desktop display setting.</p>
SameLoginForRD={yes,no}	<p>Default is yes.</p> <p>SameLoginForRD option is used to enable Smart Card Authentication.</p>
SocketRecvTimeout=<timeout in seconds>	If the RDP client is unable to connect to the server in 120 seconds, the connection times out. Using this parameter you can specify a custom value other than 120 seconds.
Sound= {off, local, remote}	<p>Default is local.</p> <p>You can enable or disable the sound effect using the Sound parameter.</p> <p>off - disable sound</p> <p>local - enable sound to local machine (default)</p> <p>remote - enable sound to remote machine</p>
UseRDGateway={yes,no}	<p>Default is yes.</p> <p>UseRDGateway option is used to enable RD gateway.</p>
Username={<username>, \$SN, \$MAC, \$IP, \$DN, \$UN, \$PW, \$TN}	<p>Default is none.</p> <p>Specifies the name required to log in to the RDP server.</p> <p>Either a conventional login name or a variable can be used. Variable and Description:</p> <p>username — Conventional log-in name</p> <p>\$SN — Serial number used</p> <p>\$MAC — MAC address used</p> <p>\$IP — IP Address used</p> <p>\$DN — Sign-on domain name</p> <p>\$UN — Sign-on name used</p> <p>\$PW — Sign-on password used</p> <p>\$TN — Terminal name</p>

Options	Description
Smartcard={no, yes}	Default is no. Yes/no option is used to enable Smart Card Authentication.
Speed_level={Broadband/LAN/Modem/Custom}	Default value is LAN. Handles the performance based on bandwidth.

SSH Connect Options

The following table contains the supported options you can use for SSH connections where defaults values are in bold:

Example:

```
CONNECT=SSH \
Description="SSH_Connection" \
Host=192.168.1.2 \
Reconnect=yes \
ReconnectSeconds=100 \
Username=root \
Command=/usr/X11R6/bin/xterm \
LocalCopy=no
```

Table 10. SSH Connect Parameter Options

Option	Description
AutoConnect={no, yes}	Default is no AutoConnect option is used to start a connection automatically at sign-on.
Command=<command >	Default is none Specifies a command to execute remotely. For xterms, it is recommended that the -ls option be used, because it is a login shell
Description=<string description>	Connection description provides a connection name for the Desktop icon and the Connection Manager. ⚠ CAUTION: The text must be enclosed in quotation marks if it contains spaces or punctuation characters. These characters are not allowed & ‘ “ \$? ! ; () [] { } \
Host=<host server name or IP address>	Default is none Specifies the server name or IP address to connect. 📄 NOTE: This option is mandatory.
Icon=<bitmap file>	Default is none

Option	Description
	Specifies an icon to appear on the thin client desktop for this connection. The file must be an XPM file located in the FTP server wlx2/bitmap directory. If not specified, the default icon is displayed.
LocalCopy={no, yes}	Default is no. LocalCopy option is used to save the connection in the local permanent registry.
Reconnect={no, yes}	Default is no Reconnect option is used to automatically reconnect to an application server after a disconnection.
ReconnectSeconds=<value in seconds>	Default is 30 Specifies the amount of time in seconds (default is 30) to wait before automatic reconnection to an application server after a disconnection. Reconnect=yes or 1 is required.
Username={<username>, \$SN, \$MAC, \$IP, \$DN, \$UN, \$PW, \$TN}	Default is none. Specifies the name required to log in to the SSH server. Either a conventional log-in name or a variable can be used. Variable and Description: username — Conventional log-in name \$SN — Serial number used \$MAC — MAC address used \$IP — IP Address used \$DN — Sign-on domain name \$UN — Sign-on name used \$PW — Sign-on password used \$TN — Terminal name

VMware View Connect Options

The following table contains the supported options you can use for VMware View Client connections where default values are in bold:

Example:


```
CONNECT=VMWARE_VIEWCLIENT \
Description="VMviewadmin" \
Host=192.168.1.2 \
useSSL=Yes \
Interactive=No \
Securemode=donotverify \
```


```

Fullscreenmode=Yes \
Disableconnectonce=Yes \
Username=$UN \
Password=$PW \
Domainname=$DN \
Ping=Yes \
Protocol=PCoIP \
Application=Calculator

```

Table 11. VMware View Connect Parameter Options

Option	Parameter
Application=<application name>	Use the published application name in non-interactive mode.
AutoConnect={no, yes}	Default is no AutoConnect option is used to start a connection automatically at sign-on.
Description=<string description>	Default is none Connection description provides a connection name for the Desktop icon and the Connection Manager.  CAUTION: The text must be enclosed in quotation marks if it contains spaces or punctuation characters. These characters are not allowed & “ \$? ! ; () [] { } \
Desktop=<desktop name>	Use the published desktop name in non-interactive mode.
Desktopsize={ fullscreen, largewindow, smallwindow, useallmonitors, 1024x768, 800x600, 640x480 }	Default is fullscreen. Specifies the desktop size either fullscreen, largewindow, smallwindow or use exact size in the form XxY.
Disableconnectonce={no, yes}	Default is no. This option disables the listing of View desktops after session logs out when an error occurs.
Disableviewmenubar={no, yes}	Default is no. This option helps you to disable top full screen drop-down menu bar.
DomainName=<string>	Specifies the domain name in a Windows network where the VMware server is located.
EnableNLA={yes,no}	Default is no. This option initiates the authentication and prompts you to enter the login credentials when you try to add a new VMware connection.

Option	Parameter
EnableUDP={yes,no}	Specifies whether UDP networking should be enabled in the session. Default is yes.
EnableH264={yes,no}	Specifies whether H.264 decoding should be enabled in the session. Default is yes.
Fullscreenmode={no, yes}	Default is no. This option enables full screen mode and when selected it disables the Desktopsize option.
EnableMMR={yes,no}	Default is no. Enable/disable MMR in VMWare View connection settings.
Host=<host server name or IP address>	Default is none Specifies the server name or IP address to connect.  NOTE: This option is mandatory.
Icon=<image file>	Specifies an icon to appear on the local desktop or Connection Manager. The file must be located in the server wlx2/bitmap directory. If not specified, the default icon is displayed except in the case of a published application. A PNG, JPEG or GIF may be used. XPM is permitted for backward compatibility.
Interactive={yes, no}	Default is yes. Interactive option is used to enable interactive connection mode.
LockServerURLField={yes,no}	Default is yes. This option enables the New Server option when you try to add a new VMware connection.
Monitors=<numbered list>	Enter a value to specify which subset of the monitors to use. For Example : Monitors= 2,3 If you specify the numbered list as 2, 3 in a configuration where four monitors are set next to each other horizontally, the windows session will be displayed in the 2nd and 3rd monitors only and local session will be available in 1st and 4th monitors.
Password={base-64 encoded password string , \$SN, \$MAC, \$IP, \$DN, \$UN, \$PW, \$TN}	Specifies the password required to log in to the application server. Either a base-64 encoded login password or a variable can be used. password — base-64 encoded login password. Variable and Description: \$SN — Serial number \$MAC — MAC address \$IP — IP Address \$DN — Sign-on domain name \$UN — Sign-on name \$PW — Sign-on password

Option	Parameter
	\$TN — Terminal name NOTE: The application server password is not encrypted; not specifying it is recommended. The user is prompted to enter the password when the connection is made. This application server password directive never starts a line, so it can be distinguished from the thin client user sign-on password which starts a line.
Ping={yes, no}	Default is yes. You can enable the ping using Ping parameter. For non-published application connections, a ping (ICMP) is sent to the host server prior to connect, to verify that the host is reachable.
Port=<port number>	Default is 443. Specifies a different port number other than default 443 for SSL connection.
Protocol={PCoIP, RDP, Blast}	Default is PCoIP. Specifies the protocol to use.
Reconnect={no, yes}	Default is no. Reconnect option is used to automatically reconnect to an application server after a disconnection.
ReconnectSeconds=<value in seconds>	Default is 30. Specifies the amount of time in seconds (default is 30) to wait before automatic reconnection to an application server after a disconnection. Reconnect=yes is required.
SecureMode={neverconnect, warnbefore, donotverify}	Default is warnbefore. Specifies how to control the connection security mode preferences. Value and Description: neverconnect — Never connect to untrusted servers. warnbefore — Warn before connecting to untrusted servers.
Username={<username>, \$SN, \$MAC, \$IP, \$DN, \$UN, \$PW, \$TN}	Specifies the name required to log in to the application server. Either a conventional login name or a variable can be used. Variable and Description: username — Conventional login name \$SN — Serial number \$MAC — MAC address \$IP — IP Address \$DN — Sign-on domain name \$UN — Sign-on name \$PW — Sign-on password

Option	Parameter
	\$TN — Terminal name
UsbAutoConnectOnInsert= { yes , no}	Specifies whether the USB should be automatically connected in session on inserting the USB. Default is yes.
UsbAutoConnectAtStartup= { yes , no}	Specifies whether the USB should be automatically connected in session on Session Startup. Default is yes.
view.sslCipherString	Configures the cipher list to restrict the use of certain cryptographic algorithms before establishing an encrypted SSL connection. The default value for Horizon Client 3.5 and later is !aNULL:kECDH+AES:ECDH+AES:RSA+AES:@STRENGTH. The default value for Horizon Client 3.4 and earlier is AES:!aNULL:@STRENGTH.
view.sslProtocolString	Configures the cipher list to restrict the use of certain cryptographic protocols before establishing an encrypted SSL connection. The default value for Horizon Client 3.5 and later is TLSv1.0:TLSv1.1:TLSv1.2. The default value for Horizon Client 3.4 and earlier is TLSv1.0:TLSv1.1.

VNC Viewer Connect Options



The following table contains the supported options you can use for VNC Viewer connections where default values are in bold:


Example:

```
CONNECT=VNC_VIEWER \
Description="VNC_Connection" \
Host=192.168.0.2 \
Color=True_Color \
AutoConnect=Yes \
Password=xyz \
Fullscreen=Yes \
LocalCopy=No
```

Table 12. VNC Viewer Connect Parameter Options

Options	Description
AutoConnect={yes, no}	Default is no. It starts the connection automatically at sign-on, if AutoConnect is set to yes.
Colors = {True_Color, 0, 1, 2, 16, 24}	Default is True_Color

Options	Description
	<p>Specifies how many colors to display. True_Color specifies full color, 0 specifies 8 colors, 1 specifies 64 colors, and 2 specifies 256 colors.</p> <p>For backward compatibility, 16 and 24 values are also accepted. In these cases, 16 is mapped to 1 (that is 64 colors) and 24 is mapped to 2 (that is 256 colors).</p>
Compression=<integer{1 to 6}>	<p>Default is 2</p> <p>Sets compression level to the specified value, where 0 = Low and 6 = High.</p>
Description=< String>	<p>Default is none.</p> <p>Connection name. Provides a connection name for the Desktop icon and the Connection Manager.</p> <p> CAUTION: The must be enclosed in double quotation marks if it contains spaces or punctuation characters. The following characters are not allowed: & ‘ “ \$? ! ; () [] { } \</p>
FullScreen={ yes, no}	<p>Default is no.</p> <p>VNC session will run at full screen, if FullScreen is set to yes.</p>
Host= <host address>[:<host address>...]	<p>Default is none</p> <p>Specifies a host or lists of host values. The thin client attempts to connect to the next server on the list if the current one fails. The list items must be separated by semicolons or commas.</p> <p> NOTE: This parameter is mandatory.</p>
Icon=<image file>	<p>Specifies an icon to appear on the local desktop or Connection Manager. The file must be located in the server wlx2/bitmap directory. If not specified, the default icon is displayed except in the case of a published application. A PNG, JPEG or GIF may be used. XPM is permitted for backward compatibility.</p>
JpegQuality=<integer{0 - 9}>	<p>Default is 8</p> <p>JPEG Quality levels are,</p> <p>0 = Low and 9 = High.</p>
LocalCopy= {yes, no}	<p>Default is no.</p> <p>LocalCopy saves the connection in the local permanent registry, if LocalCopy parameter is set to yes.</p>
Password=<base-64 encoded password>	<p>Specifies the password required to log in to the VNC server. Either a base-64 encoded login password or a variable can be used.</p> <p>password — base-64 encoded login password</p> <p>\$SN — Serial number</p> <p>\$MAC — MAC address</p>

Options	Description
	<p>\$IP — IP Address</p> <p>\$DN — Sign-on domain name</p> <p>\$UN — Sign-on name</p> <p>\$PW — Sign-on password</p> <p>\$TN — Terminal name</p> <p> NOTE:</p> <p>The VNC server password is not encrypted; not specifying it is recommended. The user is prompted to enter the password when the connection is made. This VNC server password directive never starts a line, so it can be distinguished from the thin client user sign-on password which starts a line.</p>
Shared= {yes, no}	<p>Default is no</p> <p>When a connection is shared, other viewers are not disconnected when a new connection is established.</p>
ViewOnly= {yes, no}	<p>Default is no.</p> <p>VNC connection will be created in view only mode when this parameter is set to Yes, which means mouse and keyboard input to the remote machine will be disabled.</p>

Ericom PowerTerm Connect Options

The following table contains the supported options you can use for Ericom PowerTerm Connect, where default values are in bold:


Example:

```
CONNECT=Ericom_Powerterm \
Description="Ericom_Test" \
Host=192.168.0.2 \
AutoConnect=Yes \
Reconnect=Yes \
ReconnectSeconds=30 \
Filename=RemoteConfigurationFileName \
Filepath=wyse/WLX2/RemoteConfigurationFilePath \
Terminal=WY50 \
TermName=Wyse 50 terminal \
Resolution=800x600 \
Fullscreen=No \
DeviceID=Wyse50 \
```

Echo=No \

UIConfig=menu

Table 13. Ericom PowerTerm Connect Parameter Options

Options	Description
AutoConnect={no, yes}	Default is no. Yes/no option allows you to start a connection automatically at sign-on.
Description=<string>	Connection description, provides a connection name for the Desktop icon and the Connection Manager.  NOTE: The text must be enclosed in double quotation marks if it contains spaces or punctuation characters. These characters are not allowed: &“\$?!;()[]\
DeviceID=<string>	Specifies the terminal identification string, that is sent as a response when a request for identification is requested to the terminal.
Echo={no, yes}	For serial connection only. Default is no. Yes/no option allows you to set the local echo option on the serial port.
FileName=<name>	FileName option provides the list of configuration file names that you want to use.
FilePath=<file location>	Specifies the location of the configuration files on the server.
FullScreen={no, yes}	Default is no. Yes/no option allows you to run the session at full screen (not in a window).
Host=<host address> [; <host address>.....]	Mandatory option Specifies the host. The thin client attempts to connect to the next server on the list if the current one fails. To separate the list items, use semicolons or commas.
Icon=<image file>	Specifies an icon to appear on the thin client desktop for this connection. The file must be located in the server wlx2/bitmap directory. If not specified, the default icon is displayed. A PNG, JPEG, or GIF may be used. XPM is permitted for backward compatibility.
LocalCopy={no, yes}	Default is no. LocalCopy option allows you to save the connection in the local permanent registry.
Phone=<phone number>	For serial connection only. Specifies the modem dial-up number.

Options	Description
Port= {COM1, COM2...}	<p>For serial connection only.</p> <p>Default is COM1.</p> <p>Designates the connection serial port.</p>
Reconnect={no, yes}	<p>Default is no.</p> <p>Yes option allows you to automatically reconnect to an application server after a disconnection.</p>
ReconnectSeconds=<value in seconds>	<p>Default is 30.</p> <p>Specifies the amount of time in seconds to wait before automatic reconnection to an application server after a disconnection.</p>
Resolution={default, 640x480, 800x600, 1024x768, 1280x1024, 1600x1200, Full Screen, <width>x<height>	<p>Default is default.</p> <p>which starts the connection using the current desktop display setting with no window frame or border. Specifies the connection display resolution. The default value starts the connection using the current desktop display setting with no window frame or border. Arbitrary widthxheight values are accepted.</p>
{TerminalType, TerminalID ,Terminal} =<emulationtype>	<p>Default is Wyse50.</p> <p>Specifies the terminal emulation type.</p>
Termname=<terminal ID string>	<p>Specifies the terminal identification string that is sent as a response when a request for identification is requested to the terminal.</p>
Telnetport=<port number>	<p>Changes the default port of Telnet from 23 to the port mentioned in the INI parameter.</p>
Ulconfig={menu, toolbar, status, buttons}	<p>Default is no.</p> <p>Opens the connection window with the menu, toolbar, status bar, or buttons displayed.</p> <p>For Example, Ulconfig=menu</p>

Printer Parameters Option

This appendix provides the options that you can use for the following supported printer parameters:

- [Printer](#)
- [JetDirectPrinter](#)
- [NetworkPrinter](#)
- [PrinterURI](#)
- [SMBPrinter](#)

Topics:

- [Printer](#)
- [JetDirectPrinter](#)
- [NetworkPrinter](#)
- [PrinterURI](#)
- [SMBPrinter](#)

Printer

The following table contains the supported options you can use for the Printer parameter, where defaults values are underlined>.

ⓘ | NOTE: The Printer command line defines a locally attached printer connected through the noted interface.

Table 14. Printer Parameter Options

Options	Description
Default={yes, no}	Default is yes
Description=<string>	Not used internally.
Enable={yes, no}	Default is yes
ModelID={<linux driver name>}	Identifies the printer for the purpose of choosing a Linux printer driver For example, Dell B5465dnf Laser MFP.
Name=<printer name>	Provides both the name that is given in the local printers list and the internal name of the local print queue. The name must be between 1 and 16 characters, starting with a letter and composed entirely of letters, digits, underscores, and dashes. ⓘ NOTE: This parameter is mandatory
PPD=<PPD name>	It directly specifies a Postscript Printer Definition filename for use, as a local printer driver.

Options	Description
PrinterID= <Windows driver>	Identifies the printer for the purpose of choosing a Windows printer driver For example, Brother MFC-420CN Printer. Specify this parameter if you are forwarding the printer access to a Citirx or RDESKTOP connection.

JetDirectPrinter

The Following Table contains the supported options you can use for the JetDirectPrinter parameter where defaults are in bold:

NOTE: The JetDirectPrinter command line defines a printer served an HP JetDirectprint server.


Table 15. JetDirectPrinter Parameter Options

Options	Description
Default={yes, no}	Default is yes
Description=<string>	Not used internally.
Enable={yes, no}	Default is yes
ModellID= <linux driver name>	Identifies the printer for the purpose of choosing a Linux printer driver. For example, Dell B5465dnf Laser MFP.
Name=<printer name>	It provides both the name that is given in the local printers list and the internal name of the local print queue. The name must be between 1 and 16 characters, starting with a letter and composed entirely of letters, digits, underscores, and dashes. NOTE: This parameter is mandatory
PPD=<PPD name>	Directly specifies a Postscript Printer Definition filename for use, as a local printer driver.
PrinterID=<Windows driver>	Identifies the printer for the purpose of choosing a Windows printer driver. For example, Brother MFC-420CN Printer Specify this parameter if you are forwarding the printer access to a Citirx or RDESKTOP connection.

NetworkPrinter

The following table contains the supported options you can use for the NetworkPrinter parameter default values are in bold:.

Table 16. NetworkPrinter Parameter Options

Options	Description
Default={yes ,no}	Default is yes
Description=<string>	Not used internally.
Enable={yes, no}	Default is yes
Host=<host address>	It provides host of the printer server.
ModellID=<linux driver name>	Identifies the printer for the purpose of choosing a Linux printer driver. For example, Dell B5465dnf Laser MFP.
Name=<printer name>	It provides both the name that is given in the local printers list and the internal name of the local print queue. The name must be between 1 and 16 characters, starting with a letter and composed entirely of letters, digits, underscores, and dashes.  NOTE: This parameter is mandatory
PPD=<PPD name>	It directly specifies a Postscript Printer Definition filename for use, as a local printer driver.
PrinterID=<Windows driver>	Identifies the printer for the purpose of choosing a Windows printer driver. For example, Brother MFC-420CN Printer. Specify this parameter if you are forwarding the printer access to a Citirx or RDESKTOP connection.
Queue=<printer queue>	It provides printer queue on the server.

PrinterURI

The following table contains the supported options you can use for the PrinterURI parameter where defaults values are in bold:

Table 17. PrinterURI Parameter Options

Option	Description
Default={yes ,no}	Default is yes
Description=<string>	Not used internally.
Enable={yes, no}	Default is yes
ModellID=<linux driver name>	It identifies the printer for the purpose of choosing a Linux printer driver. For example, Dell B5465dnf Laser MFP.
Name=<printer name>	It provides both the name that is given in the local printers list and the internal name of the local print queue. The name must be

Option	Description
	between 1 and 16 characters, starting with a letter and composed entirely of letters, digits, underscores, and dashes. NOTE: This parameter is mandatory
PPD=<PPD name>	It directly specifies a Postscript Printer Definition filename for use, as a local printer driver.
PrinterID=<Windows driver>	It identifies the printer for the purpose of choosing a Windows printer driver. For example, Brother MFC-420CN Printer. Specify this parameter if you are forwarding the printer access to a Citrix or RDESKTOP connection.

SMBPrinter

The following table contains the supported options you can use for the SMBPrinter parameter where default values are in bold:

Table 18. SMBPrinter Parameter Options

Option	Description
Default={yes ,no}	Default is yes
Description=<string>	Not used internally.
domain= string<domain>	It provides domain to SAMBA server.
Enable={yes, no}	Default is yes
ModelID=<linux driver name>	It identifies the printer for the purpose of choosing a Linux printer driver. For example, Dell B5465dnf Laser MFP.
Name=<printer name>	It provides both the name that is given in the local printers list and the internal name of the local print queue. The name must be between 1 and 16 characters, starting with a letter and composed entirely of letters, digits, underscores, and dashes. NOTE: This parameter is mandatory
Password=<base64-encoded password>	It provides the password to SAMBA server.
PPD=<PPD name>	It directly specifies a Postscript Printer Definition filename for use, as a local printer driver.
PrinterID=<Windows driver>	It identifies the printer for the purpose of choosing a Windows printer driver. For example, Brother MFC-420CN Printer. Specify this parameter if you are forwarding the printer access to a Citrix or RDESKTOP connection.
Username=<username>	It provides the username to SAMBA server.

TimeZone Parameter: Values

The following table contains the supported values that you can use for the TimeZone parameter.

Table 19. TimeZone Parameter Options

Option	Values
<p>Date_time.TimeZone=<string></p> <p>Or TimeZone</p>	<p>Africa</p> <p>The following values must be preceded with Africa/.</p> <p>For example, Africa/Abidjan is the value for the Abidjan time zone.</p> <p>Abidjan, Accra, Algiers, Bissau, Cairo, Casablanca, Ceuta, El_Aaiun, Johannesburg, Khartoum, Lagos, Maputo, Monrovia, Nairobi, Ndjamena, Tripoli, Tunis, Windhoek.</p> <p>America</p> <p>The following values must be preceded with America/. For example, America/Adak is the value for the Adak time zone.</p> <p>Adak, Anchorage, Araguaina, Argentina/Buenos_Aires, Argentina/Catamarca, Argentina/Cordoba, Argentina/Jujuy, Argentina/La_Rioja, Argentina/Mendoza, Argentina/Rio_Gallegos, Argentina/Salta, Argentina/San_Juan, Argentina/San_Luis, Argentina/Tucuman, Argentina/Ushuaia, Asuncion, Atikokan, Bahia, Bahia_Banderas, Barbados, Belem, Belize, Blanc-Sablon, Boa_Vista, Bogota, Boise, Cambridge_Bay, Campo_Grande, Cancun, Caracas, Cayenne, Cayman, Chicago, Chihuahua, Costa_Rica, Creston, Cuiaba, Curacao, Danmarkshavn, Dawson, Dawson_Creek, Denver, Detroit, Edmonton, Eirunepe, El_Salvador, Fortaleza, Fort_Nelson, Glace_Bay, Godthab, Goose_Bay, Grand_Turk, Guatemala, Guayaquil, Guyana, Halifax, Havana, Hermosillo, Indiana/Indianapolis, Indiana/Knox, Indiana/Marengo, Indiana/Petersburg, Indiana/Tell_City, Indiana/Vevay, Indiana/Vincennes, Indiana/Winamac, Inuvik, Iqaluit, Jamaica, Juneau, Kentucky/Louisville, Kentucky/Monticello, La_Paz, Lima, Los_Angeles, Maceio, Managua, Manaus, Martinique, Matamoros, Mazatlan, Menominee, Merida, Metlakatla, Mexico_City, Miquelon, Moncton, Monterrey, Montevideo, Nassau, New_York, Nipigon, Nome, Noronha, North_Dakota/Beulah, North_Dakota/Center, North_Dakota/New_Salem, Ojinaga, Panama, Pangnirtung, Paramaribo, Phoenix, Port-au-Prince, Port_of_Spain, Porto_Velho, Puerto_Rico, Rainy_River, Rankin_Inlet, Recife, Regina, Resolute, Rio_Branco, Santa_Isabel, Santarem, Santiago, Santo_Domingo, Sao_Paulo, Scoresbysund, Sitka, St_Johns, Swift_Current, Tegucigalpa, Thule, Thunder_Bay, Tijuana, Toronto, Vancouver, Whitehorse, Winnipeg, Yakutat, Yellowknife.</p> <p>The following values must be preceded with US/. For example, US/Alaska is the value for the Alaska time zone:</p> <p>Alaska, Aleutian, Arizona, Central, East-Indiana, Eastern, Hawaii, Indiana-Starke, Michigan, Mountain, Pacific, Samoa.</p> <p>Antarctica</p> <p>The following values must be preceded with Antarctica/. For example, Antarctica/Casey is the value for the Casey time zone.</p>

Option	Values
	<p>Casey, Davis, DumontDUrville, Macquarie, Mawson, Palmer, Rothera, Syowa, Troll, Vostok.</p> <p>Asia</p> <p>The following values must be preceded with Asia/. For example, Asia/Amman is the value for the Amman time zone.</p> <p>Almaty, Amman, Anadyr, Aqtau, Aqtobe, Ashgabat, Baghdad, Baku, Bangkok, Beirut, Bishkek, Brunei, Chita, Choibalsan, Colombo, Damascus, Dhaka, Dili, Dubai, Dushanbe, Gaza, Hebron, Ho_Chi_Minh, Hong_Kong, Hovd, Irkutsk, Jakarta, Jayapura, Jerusalem, Kabul, Kamchatka, Karachi, Kathmandu, Khandyga, Kolkata, Krasnoyarsk, Kuala_Lumpur, Kuching, Macau, Magadan, Makassar, Manila, Nicosia, Novokuznetsk, Novosibirsk, Omsk, Oral, Pontianak, Pyongyang, Qatar, Qyzylorda, Rangoon, Riyadh, Sakhalin, Samarkand, Seoul, Shanghai, Singapore, Srednekolymysk, Taipei, Tashkent, Tbilisi, Tehran, Thimphu, Tokyo, Ulaanbaatar, Urumqi, Ust-Nera, Vladivostok, Yakutsk, Yekaterinburg, Yerevan.</p> <p>Atlantic</p> <p>The following values must be preceded with Atlantic/. For example, Atlantic/Azores is the value for the Azores time zone.</p> <p>Azores, Bermuda, Canary, Cape_Verde, Faroe, Madeira, Reykjavik, South_Georgia, Stanley.</p> <p>Australia</p> <p>The following values must be preceded with Australia/. For example, Australia/Adelaide is the value for the Adelaide time zone.</p> <p>Adelaide, Brisbane, Broken_Hill, Currie, Darwin, Eucla, Hobart, Lindeman, Lord_Howe, Melbourne, Perth, Sydney.</p> <p>Europe</p> <p>The following values must be preceded with Europe/. For example, Europe/Amsterdam is the value for the Amsterdam time zone.</p> <p>Amsterdam, Andorra, Athens, Belgrade, Berlin, Brussels, Bucharest, Budapest, Chisinau, Copenhagen, Dublin, Gibraltar, Helsinki, Istanbul, Kaliningrad, Kiev, Lisbon, London, Luxembourg, Madrid, Malta, Minsk, Monaco, Moscow, Oslo, Paris, Prague, Riga, Rome, Samara, Simferopol, Sofia, Stockholm, Tallinn, Tirane, Uzhgorod, Vienna, Vilnius, Volgograd, Warsaw, Zaporozhye, Zurich.</p> <p>Indian</p> <p>The following values must be preceded with Indian/. For example, Indian/Christmas is the value for the Christmas time zone.</p> <p>Chagos, Christmas, Cocos, Kerguelen, Mahe, Maldives, Mauritius, Reunion.</p> <p>Pacific</p> <p>The following values must be preceded with Pacific/. For example, Indian/Apia is the value for the Apia time zone.</p> <p>Apia, Auckland, Bougainville, Chatham, Chuuk, Easter, Efate, Enderbury, Fakaofu, Fiji, Funafuti, Galapagos, Gambier, Guadalcanal, Guam, Honolulu, Kiritimati, Kosrae, Kwajalein, Majuro, Marquesas, Nauru, Niue, Norfolk, Noumea, Pago_Pago, Palau, Pitcairn, Pohnpei, Port_Moresby, Rarotonga, Tahiti, Tarawa, Tongatapu, Wake, Wallis.</p>

Keyboard.layouts Parameter: Values

The following table contains the values that you can use for the Keyboard.layouts parameter to designate the keyboard type.

Table 20. Keyboard.layouts Parameter: Values

Language	Keyboard layout	Values
Albanian (Albania)		al
Albanian (Macedonia, Republic of) Arabic (Algeria)	Arabic	ara
Albanian (Macedonia, Republic of)		al
Arabic		ara
Arabic (azerty)		ara+azerty
Arabic (Algeria)	Iraqi	lq
Arabic (Bharain)	Arabic	ara
Arabic (Egypt)		
Arabic (India)		
Arabic (Iraq)		
Arabic (Jordan)		
Arabic (Kuwait)		
Arabic (Lebanon)		
Arabic (Libya)		
Arabic (Morocco)		
Arabic (Oman)		
Arabic (Qatar)		
Arabic (Saudi Arabia)		
Arabic (South Sudan)		
Arabic (Sudan)		
Arabic (Syrian Arab Republic)		
Arabic (Tunisia)		
Arabic (United Arab Emirates)		
Arabic (Yemen)		

Language	Keyboard layout	Values
Austrian	Austrian(Spain, with bottom-dotH and bottom-dot I)	lq es+ast es
Bangla		bd
Bangla(India_ Baishakhi inscript)		in+ben_inscript
Belarusian (Belarus) Bengali(Bangladesh)	Bangla(India) Bangla(India, Baishaki inscript) Bangla(India Baishaki) Bangla(India Bornona) Bangla(India Probhat) Bangla(India Uni Gitanjali)	by bd in+ben_inscript in+ben_baishaki in+ben_borana in+ben_probhat in+ben_gitanjali
Bengali(India)	Bangla(India) Bangla Bangla(India, Baishaki inscript) Bangla(India Baishaki) Bangla(India Bornona) Bangla(India Probhat)	in+ben bd in+ben_inscript in+ben_baishaki in+ben_borana in+ben_probhat
Bulgarian	Bulgarian Bulgarian(traditional phonetic)	bg Bg+phonetic
Catalan(Andorra)	Catalan(Spain, with middle dot L)	es+cat
Catalan(France)	Catalan(Spain, with middle dot L)	es+cat
Catalan(Italy)	Catalan(Spain, with middle dot L)	es+cat
Catalan(Spain)	Catalan(Spain, with middle dot L)	es+cat
Chinese(China)	Pinyin	cn
Chinese(Hong Kong)	Pinyin	cn
Chinese (Taiwan)	Pinyin	cn
Croatian		hr
Czech		cz

Language	Keyboard layout	Values
Danish		dk
Dutch(Aruba)	Belgian Dutch	be nl
Dzongkha English (Antigua and Barbuda) English (Australia)	English-Cameroon Multilingual (qwerty) English-Cameroon English-Ghana English-India, with Rupee Sign English-Mail, US Macintosh English -Mail, US international English- Nigeria English- South Africa English- UK English- US Filipino Irish Serbo-Croatian(us)	bt cm+qwerty cm gh in+eng mt+us-mac ml+us-int ng za gb gb ph le us+hbs
English (Belgium)	English-Cameroon Multilingual (qwerty) English-Cameroon English-Ghana English-India, with Rupee Sign English-Mail, US Macintosh English -Mail, US international English- Nigeria English- South Africa English- UK English- US Filipino Irish	gb us+hbs cm+qwerty cm gh in+eng mt+us-mac ml+us-int ngbza gb gb ph le
English (United States)	English English-Cameroon Multilingual (qwerty)	us cm+qwerty

Language	Keyboard layout	Values
	English-Cameroon	cm
	English-Ghana	gh
	English-India, with Rupee Sign	in+eng
	English-Mail, US Macintosh	mt+us-mac
	English -Mail, US international	ml+us-int
	English- Nigeria	ng
	English- South Africa	za
	Filipino	ph
	Irish	le
	Serbo-Croatian(us)	us+hbs
	Spanish-Latin America	latam
Estonian		ee
Finnish		fi
French (France)	French-Alternative	fr+oss
	French(fr
	French- Belgian	be
	French- English-International AltGR Deadkey	altgr+intl ca
	French- Canada	cd
	French- Doemocratic Republic of the Congo	gn
	French- Guinea	ml+fr-oss
	French- Mali, alternative	ma+French
	French- Morocco	ch+fr_mac
	French- Switzerland, Macintosh	ch+fr_sunddeadkeys
	French- Switzerland, Sun dead keys	ch+fr_nodeadkeys
	French- Switzerland, Eliminate dead keys	
Galician	Spanish	Es
German (Germany)	German	de
	Belgian	be
	English(International AltGr dead keys)	us+altgr-intl
	German- Austria	at ch

Language	Keyboard layout	Values
	German- Switzerland	
Greek	Greek (Modern 1453 Cyprus) Greek (Modern 1453 Greece)	gr
Gujarati Hindi	Hindi Hindi(Bolnagari) Hindi(Wx)	In+gu In+hin In+bolnagri In+hin-wx
Hebrew		ll
Hungarian		hu
Icelandic		ls
Iraqi		ara
Irish	Clogaelach	le+Clogaelach
Italian	Italian(Switzerland) Italian(Italy)	it it
Kannada	Kannada Kannada(KaGapPa phonetic)	in+kan in+kan_kagaph
Kazakh	Kazakh Kazakh (with Russian) Russian (Kazakhstan with Kazakh)	kz kz+kazrus rus+kaz
Korean	Hangul	ko
Latvian		lv
Lithuanian		lt
Macedonian		mk
Marathi (KaGapPa phonetic)		in+mar_kagaph
Malayalam(KaGapPa phonetic)		in+mal_lalittha
Norwegian		no
Punjabi(India) Punjabi(Pakistan)	Punjabi(Gurmukhi Jhelum)	in+jhelum
Pakistan	Urdu	pk

Language	Keyboard layout	Values
Persian		ir
Polish		pl
Portuguese(Brazil)		br
Portuguese Romanian	Moldavian Romanian (Germany) Romanian (Germany- eliminate dead keys)	pt md de+ro de+ro_nodeadkeys
Russia (Russian Federation)	Russian Russian-Georgia Russian-Kazhagstan with Kazhag Russian-Potland, phonetic Dvorak Russian-Sweden, eliminate dead keys Russian-US ponetic Serebian-Russia	ru ge+ru kz+ruskaz pl+ru_phonetic_dvorak se+rus_nodeadkeys us+rus ru+srp
Russian(Ukraine)	Russian Russian-Georgia Russian-Kazhagstan with Kazhag Russian-Potland, phonetic Dvorak Russian-Sweden, eliminate dead keys Russian-US ponetic Serebian-Russia	ru ge+ru kz+ruskaz pl+ru_phonetic_dvorak se+rus_nodeadkeys us+rus ru+srp
Serbian(Serbia)		rs
Slovak		sk
Slovenian		si
Spanish (Spain)	Spanish Spanish-Latin America	es latam
Spanish (Argentina)	Spanish	es
Spanish (Bolivia)	Spanish(Latin America)	latam
Spanish (Chile)		
Spanish (Colombia)		

Language	Keyboard layout	Values
Spanish (Costa Rica)		
Spanish (Cuba)		
Spanish (Dominican Republic)		
Spanish (Ecuador)		
Spanish (El Salvador)		
Spanish (Guatemala)		
Spanish (Honduras)		
Spanish (Mexico)		
Spanish (Nicaragua)		
Spanish (Panama)		
Spanish (Paraguay)		
Spanish (Peru)		
Spanish (Puerto Rico)		
Spanish (United States)		
Spanish (Uruguay)		
Spanish (Venezuela)		
Swedish (Finland)		se
Swedish(Sweden)		se
Tamil (India)	Tamil Tamil(keyboard with numerals)	in+tam in+tam_keyboard_with_numerals
Tamil (Sri Lanka)	Tamil	in+tam
Telugu	Telugu Telugu(Kagapa phonetic)	in+tel in+tel-kagapa
Thai		th
Turkish		tr
Uighur		cn+ug
Ukrainian		un
Uyghur		cn+ug
Uzbek		uz
Uzbek(Latin)		uz+latin

Language	Keyboard layout	Values
Uzbek(Afghanistan)		af+uz-olpc
Vietnamese		vn
Yoruba		ng+yoruba
Yakut		ru+sah
Wolof		sn