Dell Wyse ThinOS Version 8.3.X

Release Notes

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.**

Contents

Overview

Dell Wyse ThinOS software is designed to run on a broad array of Dell Wyse hardware platforms. New releases are created to support new hardware platforms, correct defects, make enhancements, or add new features. These releases are tested and supported on current, actively shipping hardware platforms, and those hardware platforms that are within their first year after their official End of Life date. Beyond the one year time period, new software releases are no longer certified for use with the older hardware, even though it is possible that they may still work. This allows us to advance our product with features and functions that might not have been supported by the previous hardware, with previous generation CPUs and supporting components.

(i) **NOTE: For details about the previous versions, if applicable, or to determine which version of the operating system you need to select for your thin client, see Version matrix.**

Version matrix

The following version matrix lists the platforms supported in each ThinOS release, and helps you select which version of ThinOS software is appropriate for your work environment.

Table 1. Version matrix

Release version	Release date	Supported platforms	Release Notes
8.3.2	March 2017	• Wyse 3040 thin client with ThinOS • Wyse 3040 thin client with PCoIP	Release version 8.3.2
8.3.1	December 2016	• Wyse 5060 thin client with ThinOS • Wyse 5060 thin client with PCoIP	Release version 8.3.1

Release version 8.3.2

Client software licensing and maintenance options

Dell Wyse thin client software maintenance is required to receive new versions of thin client software and subsequent releases of corresponding documentation and tools. Use of this software on more than one device requires you to first purchase the additional copies of, or licenses to, the software from Dell Wyse.

Supported platforms

The following table lists the newly supported platforms:

Table 2. Supported platforms

Platform	Flash/RAM
Wyse 3040 thin client with ThinOS	8G / 2G
Wyse 3040 thin client with PCoIP	

New features

ThinOS 8.3.2 release is intended to support a new platform— Wyse 3040 thin client. A few updates to the existing features or new enhancements are included in this release.

· Monitor resolutions

· Package versions

Supported monitor resolutions

The following are the list of tested monitor resolutions supported for Wyse 3040 thin client:

Table 3. Supported monitor resolutions

Supported monitor resolutions
640 x 480
800 x 600
1024 x 768
1152 x 864
1280 x 720

Supported monitor resolutions
1280 x 768
1280 x 800
1280 x 1024
1360 x 768
1366 x 768
1368 x 768
1400 x 1050
1440 x 900
1600 x 900
1600 x 1200
1680 x 1050
1920 x 1080
1920 x 1200
2048 x 1152
2048 x 1280
2560 x 1080
2560 x 1440
2560 x 1600

ⓘ | NOTE: **Wyse 3040 thin client does not support 4K resolution.**

Package versions

The following table lists the packages and the versions supported in this release:

Table 4. Package versions

Package	Version
RTME	1.19
FR	1.16
TCX	1.10

ⓘ | NOTE: **RTME pkg 1.19 is for RTME 2.1.2.**

Limitations of ICA Supercodec

ICA Supercodec is disabled automatically if the resolution is greater than 1920 x 1200, and under the Event log, **System resolution exceeds hardware limitation (1920 x 1200), disable Supercodec** is printed.

INI parameters

The ThinOS v8.3.2 release contains the following newly added INI parameters:

Table 5. INI parameters

Parameter	Description
PRIVILEGE=[None, Low, High] [LockDown={yes, no}] [HideSysInfo={yes, no}] [HidePPP={yes, no}] [HidePN={yes, no}] [HideConnectionManager={yes, no}] [EnableNetworkTest={yes, no}] [EnableTrace={yes, no}] [ShowDisplaySettings={yes, no, ddc-only}] [EnableKeyboardMouseSettings={yes, no}] [KeepDHCPRequestIP={yes, no}] [SuppressTaskBar={yes, no, auto}] [EnablePrinterSettings={yes, no}] [CoreDump={ide, disabled] [EnableNetworkSetup={yes, no}] [DisableNetworkOptions={yes, no}] [EnableSystemPreferences={yes, no, TerminalNameOnly}] [DisableTerminalName={yes, A37no}] [DisableSerial={yes, no}] [DisableRotate={yes, no}] [DisableChangeDateTime={yes, no}] [EnableVPNManager={yes, no}] [TrapReboot={yes, no}]	PRIVILEGE parameter controls the operator access to Thin appliance resources as show below: **Table 6. Parameters** <table><tr><td>**Parameter**</td><td>**Operator privileges**</td></tr><tr><td>None</td><td>The System Setup selection on the desktop menu is disabled and the Setup submenu can not be displayed. The Connect Manager, Dialup Manager and PPTP manager dialog boxes are disabled. The Reset to Factory default checkbox in the Shutdown dialog window is not available</td></tr><tr><td>Low</td><td>The **Network and Wireless** selections on the **Setup** submenu are disabled (grayed out). The Connection Settings dialog box (opened from Connect Manager) is readable but not writable. The Reset to Factory default check box in the Shutdown dialog window is disabled.</td></tr><tr><td>High(default)</td><td>No restrictions and all Thin Appliance resources are available.</td></tr></table> ⓘ | NOTE: • If PRIVILEGE= None or Low is used, the Network Setup dialog box is disabled. If it is necessary to access this dialog box and the setting None or Low is not saved into NVRAM, remove the network connector and reboot. This brings up the Network Setup dialog box. • Local user mode does not make use of .ini files. If the option LockDown = Yes is specified, the system saves in the flash device of this privilege level. If the LockDown = No is specified, the system clears the privilege level from the flash device to the default unlocked state. If the device is LockDowned without a high privilege level, the device disables the G key reset on power-up. If you set a Privilege with High or Low or None, the four parameters HideSysInfo, HidePPP, HidePN, and HideConnectionManager function as shown in the following table:

Parameter	Description
[EnableCancel={yes, no}]	ⓘ **NOTE:** Disable means whether the parameter is set or not, it does not affect the Privilege which is set before. Enable means if the parameter is set, it affects the Privilege which is set before. **Table 7. Parameters**

Values			
	High (default)	**Low**	**None**
HideSysInfo	Disable	Disable	Enable
HidePPP	Disable	Enable	Disable
HidePN	Enable	Enable	Enable
HideConnectionManager	Enable	Enable	Enable
EnableNetworkTest	Disable	Disable	Enable

If the option HideSysInfo = yes is set, then the System Information is disabled. If HidePPP is specified, then Dialup Manager, PPPoE Manager, and PPTP Manager are disabled. If HidePN is specified, then the PN Agent or PN Lite icon will not be visible on the taskbar. If HideConnectionManager is specified, then the connection manager window will not be visible. If Privilege=none, the HideConnectionManager=no will be able to see the connection manager. (CIR38832) After 5.0.015, the value set by HideSysInfo, HidePPP, HidePN, and HideConnectionManager are saved into nvram, if Lockdown=yes is specified. If the option EnableNetworkTest = yes is set with Privilege = None, the Network Test feature in pop up menu is enabled. If the option EnableTrace is set to yes, additional two menu items are added when you right click the mouse on desktop. But if the Privilege is not set to High, then the menu items are disabled (grayed out).

If the option ShowDisplaySettings = yes is set with Privilege = None, the Display feature in pop up menu is enabled. If the option ShowDisplaySettings = ddc-only is set, the Display setting window only displays DDC-relative radio boxes. The user defined display settings are grayed out. (CIR40342)

If the option EnableKeyboardMouseSettings=yes is set with Privilege = None, the configurations of keyboard and mouse in the Preference table is enabled. If the option EnablePrinterSettings=yes is set with Privilege = None, the configurations of printer is enabled. The option KeepDHCPRequestIP=yes keeps the request IP from DHCP server if it fails and does not invoke network setting window. (CIR39283) The option SuppressTaskbar=yes hides the taskbar and the option SuppressTaskbar=auto automatically hides/displays the taskbar when you enter or leave the area of taskbar. The option SuppressTaskbar=no is as default and always displays the taskbar. This setting in wnos.ini is saved into nvram if EnableLocal is set to yes in wnos.ini. The option CoreDump=disabled disables core dump function. If PlatformConfig=ALL EnctypFS=yes is configured, the core dump function is forced to be disabled. The deafualt value is ide. When a trap or panic happens, a core dump is written to IDE flash. Then reboot, and the core dump can be uploaded to USB (i.e, /WTOS_coredump). If you set the value other than disabled and ide, the core dump is written to network (i.e., /wnos/trace/coredump. $TN where $TN is Terminal Name). If the option EnableNetworkSetup=yes is set with Privilege={none, low}, the network setup is enabled. If the option DisableNetworkOptions=yes is set at the same time, the Options table is disabled. If the option EnableSystemPreferences=yes is set with Privilege={none, low}, the system preferences setup is enabled. If the option DisableTerminalName=yes is set at the same time, the terminal name field is disabled. If the option DisableSerial=yes is set with Privilege={none, low}, the serial table in peripherals setup is enabled. If the option DisableRotate=yes is set, the rotate setting in display setup is disabled. This is only valid for

Parameter	Description
	C-class because the rotation performance in C-class is not good enough. If the option DisableChangeDateTime is set, the function of changing date and time locally is disabled. For example, right click the time label in taskbar will do nothing, and the button of Change Date and Time in System Preference is invisible. If the option EnableVPNManager=yes is set with Privilege={none, low}, the VPN Manager setup is enabled. If the option TrapReboot=yes is set, client reboots after trap.
	If the option EnableCancel=yes is set with Privilege={none, low}, the counter down window for reboot or shutdown can be cancelled.
	The default value is no.
	For example, if you set the following ini, ,Inactive=1
	AutoSignoff=yes Shutdown=yes
	ShutdownCounter=30
	Privilege=none EnableCancel=yes
	After no mouse and keyboard input in one minute, the system displays a counter down window to shut down in 30 seconds and you can cancel it.
	If the option EnableSystemPreferences=TerminalNameOnly is set with Privilege=none, the System Preferences menu is enabled, but only Terminal Name field can be accessed.

Fixed issues

None

Known issues

None

Testing environment

The following tables display the testing environment for the respective attributes:

Table 8. Testing environment

Components	Version
CCM	R14
WDM	5.7
Imprivata	5.2.0.15
Caradigm	6.3.1.17
NetScaler	9.3/10.0/10.1/10.5/11.0/11.1
StoreFront	2.6/3.0/3.5

Table 9. Testing environment

	Win7	Win8.1	Win10	Linux	W2K8R2	W2K12R2	W2k16	APPs
VM Horizon 7.0	√	√	√		√	√	√	
XA 6.5					√			√
XD/XA 7.6	√	√	√ RedHat 6.6	√	√	√		√
XD/XA 7.9	√	√	√		√	√		√
XD/XA 7.11	√	√	√		√	√	√	√
Amazon WorkSpaces 1.03	√ *							
RDS 2012R2	√	√	√			√	√	√
RDS 2016							√	√

ⓘ | NOTE: * — AWS Workspace VM OS "Windows 7 style" is based on 2008R2 RDSH

Table 10. Testing environment

XD/XA	OS	RTME	Lync client	Lync server	SFB Server
6.5	W2K8R2	1.8	Lync 2010	Lync 2013	
7.6	Win7	2.1.2	SFB2015		SFB2015
	Win8.1	1.8	Lync 2013	Lync 2013	
	Win8.1	1.8	Lync 2013		SFB2015
7.9	Win8.1	2.1.2	SFB2015		SFB2015
	Win10	2.1.2	SFB2015		SFB2015

Peripheral list

The following table list the supported peripherals:

Table 11. Keyboard and Mouse

Keyboard and Mouse
Dell wireless Keyboard/mouse KM632
Dell Keyboard KB216p / mouse MS-116p
Dell Mouse MS111-P

Keyboard and Mouse
Wyse MO42UOA
Dell Keyboard KB113p
Dell Keyboard KB212-B
Dell Optical Wireless Mouse – WM123
SpaceNavigator 3D Space Mouse
Logitech MK520 Wireless keyboard/M310 Wireless mouse
Logitech K400 Plus
Microsoft Arc Touch Mouse 1428
Dell Wireless Keyboard and Mouse - KM636
Dell USB Wired Keyboard with Smart Card reader - KB813
Dell Laser USB mouse (Silver and Black) – Naruto
Dell USB Wired Optical Mouse - MS116

Table 12. Camera

Camera
Logitech C920 HD Pro Webcam
Logitech C930e HD Webcam
Logitech C270 HD Webcam
Logitech BCC950 ConferenceCam
Logitech HD Webcam C310
Logitech C525 HD Webcam
Logitech USB Webcam 9000
Microsoft LifeCam VX-800
Microsoft LifeCam 3.0 Cinema
Microsoft LifeCam HD-3000
Microsoft LifeCam Studio

Table 13. Printer

Printer
Dell B1265dnf Multifunction Laser Printer
Dell B1165nfw Mono Multifunction Printer
Dell B1163 Mono Multifunction Printer
Dell B2375dnf Mono Laser Multifunction Printer
Dell B2360d Laser Printer
Dell B2360dn Laser Printer
Dell B1260dn Laser Printer
Dell Mono Unmanaged Printer - E515dn
Dell Color Unmanaged Printer - E525w
Dell Mono Managed Printer - C2660dn
HP LaserJet P2055d
HP LaserJet P2035
EPSON PLQ-20K
HP Color LaserJet CM1312MFP

Table 14. Phone

Phone
iPhone 4s
iPhone 6
HTC one-XL

Table 15. USB disk

USB Disk
SanDisk Extreme USB 3.0 16G
Kingston DataTraveler USB 2.0 16G G3
Sandisk cruzer 8GB
SanDisk USB 3.0 16GB
Kingston DataTraveler 100 G3

USB Disk
Kingston DTSE9 G2 32GB
Kingston Mini Fun 8GB
ADATA S107/16GB
ADATA S102/16GB
ADATA UV150 USB 3.0 16GB
PNY USB3.0 16GB

Table 16. Headset

Headset
Jabra PRO 9450
Sandisk Extreme USB 3.0 16 GB
Jabra Speak 510 MS
Jabra SUPREME UC MS /LINK 360
Jabra PRO 9400BS, Bluetooth
Jabra PRO 935 MS
Jabra UC Voice 550 MS Duo
Jabra BIZ 2300 Duo, USB, MS
Jabra PRO 9400BS, Bluetooth
Jabra UC Voice 750MS Duo Drk
Jabra Pro 935 MS Wireless headset (Mono) - Office Centric
Plantronics BLACKWIRE C420
Plantronics BLACKWIRE C435-M
Plantronics BLACKWIRE C520
Plantronics BLACKWIRE C710
Plantronics DA45
Plantronics SupraPlus HW251N
Plantronics DA60
Plantronics W440,SAVI,CONVERTIBLE,DECT 6.0(D100)

Headset
Plantronics Calisto P240 D1K3 USB handset
Plantronics USB DSP DA40(B)
Plantronics 655 DSP
Plantronics W740 SAVI 3IN1 Convertible, UC, DECT 6.0 NA, Bluetooth
Plantronics List Savi 400 series
SENNHEISER SP 20 ML Speakerphone for Lync and mobile devices
SENNHEISER SC 70 USB MS BLACK Binaural UC headset
SENNHEISER SC 660 Binaural CC&O HS, ED
SENNHEISER SC 260 USB MS II
SENNHEISER SP 10 ML Speakerphone for Lync
SENNHEISER D 10 USB ML-US Wireless DECT Headset
POLYCOM Deskphone CX300
EDIFIER
Dell Pro Stereo Headset UC300 - Lync Certified

Table 17. Monitor

Monitor
Dell E1715s (1280 x 1024)
Dell E2416Hb (1920 x 1080)
Dell P2714Hc (1920 x 1080)
Dell E2715Hf (1920 x 1080)
Dell UZ2315H (1920 x 1080)
Dell D2215Hc (1920 x 1080)
Dell U2414HB (1920 x 1080)
Dell S2415H (1920 x 1080)
Dell U2415 (1920 x 1200)
Dell U2412M (1920 x 1200)
Dell U2913 WM (2560 x 1080)

Monitor
Dell U2713HM (2560 x 1440)
Dell ST2420L (1920 x 1080)
Dell 3008WFP (2560 x 1600)
Dell U3014t (2560 x 1600)
Dell UP2715K (2560 x 1440)
Dell 23–inch monitor- E2316H
Dell 22–inch monitor - E2216H
Dell 20–inch monitor - E2016
Dell 24–inch monitor - E2417H
Dell 19–inch monitor - E1916H
Dell 20–inch monitor - P2016
Dell 24–inch monitor - P2417H
Dell 23–inch monitor - P2317H
Dell 22–inch monitor - P2217H
Dell 20–inch monitor - P2017H
Dell 19–inch monitor - P1917S

Table 18. DVD ROM

DVD ROM
BENQ DVD Drive
Dell external DVDRW Drive
SAMSUNG PorTable DVD Writer SE-208
Dell DW514

Table 19. SpeechMike Premium

SpeechMike Premium
LFH3500/00
LFH3610/00

SpeechMike Premium
LFH3200/00

Table 20. Smartcard Reader

Smartcard Reader
HID OMNIKEY 3021
OMNIKEY OK CardMan3121
SmartOS powered SCR335
HID OMNIKEY 3021
Cherry keyboard RS 6600 with smart card
Cherry keyboard RS 6700 with smart card

Table 21. Smartcard

Smartcard
Etoken 72K (USB key)
Etoken 72K no java
Etoken 72K java
Etoken 64K (USB key)
Etoken safenet 5100 java 72k (USB key)
Etoken safenet 5110 java 80k (USB key)
ActivIdentity V2
ActivIdentity V1
Gemalto .net V2+
Gemalto ID Prime MD 3810 for TC
Gemalto ID Prime MD 830 for TC
Cryptovision (Startcus 3.2)
SafeSign (Startcus 3.0)
SafeSign (Startcus 3.2)
PIV (Gnd 80k)

Smartcard
Gemalto ID Prime MD 840

Table 22. Cable and Converter

Cable and Converter
DP-DVI Convertor (CN-0KKMYD-25960-4CJ-4J36-A00)
DP-VGA Convertor (CN-05KMR3-25960-5AR-430B-A01)
Elo Touch Screen USB (ET1525L-7UWC-1)
Elo Touch Screen Serial (CBJL00036ET1224L-7SWC-1-NL009234-000)
Prolific USB-to-Serial converter U232-P9V2 (770434-05L)
USB-to-Serial converter (U232-P9 V2)
Tripp Lite USB2.0 Hub
Dell KDP70 Adapter converts DisplayPort to DVI (Dual-Link)

Table 23. Imprivata and Caradigm

Imprivata and Caradigm	
Proximity Card Reader	**Comments**
RDR-80581AKU	Support card 1, 2, 3, 4.
RDR-80582AKU	Support card 1, 2, 3, 4.
RDR-6082AKU	Support card 2.
HDW-IMP-7	Support card 1, 3, 4.
Proximity Card	
Card 1: ID 4E3C398E	
Card 2: ID 016FE691	
Card 3: ID 016B4CAA	
Card 4: ID E012FFF8007AA7F8	
Finger Print Reader	
Finger Print Keyboard ET710	KSI 1700-SX HFFFB-16; pid 147e, vid 2016
Finger Print Reader ET700	SN: 8E8E0001422350; pid 147e, vid 3001
OMNIKEY Reader	

Imprivata and Caradigm	
OMNIKEY 5025 CL	
OMNIKEY 5125	
OMNIKEY 5325 CL	
OMNIKEY 5326 DFR	
OMINIKEY 5427 CK	

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Dell Wyse thin client software maintenance is required to receive new versions of thin client software and subsequent releases of corresponding documentation and tools. Use of this software on more than one device requires you to first purchase the additional copies of, or licenses to, the software from Dell Wyse.

Support information

The following table lists the supported hardware platforms for ThinOS:

Table 24. Support information

Platform	Flash/RAM
Wyse 5060 thin client with ThinOS	8 GB/ 4 GB
Wyse 5060 thin client with PCoIP	

New features

The following are the new features in this release:

- **Dual 4K (3840 x 2160) support**—The following is the list of tested monitor resolutions supported for Wyse 5060 thin client:
  - 640 x 480
  - 800 x 600
  - 1024 x 768
  - 1152 x 864
  - 1280 x 720
  - 1280 x 768
  - 1280 x 1024
  - 1360 x 768
  - 1366 x 768
  - 1368 x 768
  - 1400 x 1050
  - 1440 x 900
  - 1600 x 900
  - 1600 x 1200
  - 1680 x 1050
  - 1920 x 1080
  - 1920 x 1200
  - 2560 x 1080
  - 2560 x 1440
  - 2560 x 1600
  - 3440 x 1440

– 3840 x 2160

Dual 3840 x 2160 resolution is supported with the Dual Display ports for 30 Hz display refresh rate.

The following are the tested Dell monitors supporting dual 3840 x 2160 resolution:

– Dell P2815Q (3840 x 2160)
– Dell UP3216Q (3840 x 2160)
· **Package versions**—The following are the recommended/optional packages:
    – RTME.i386.pkg version 1.15
    – FR.i386.pkg version 1.13
    – TCX.i386.pkg version 1.09

INI parameters

The ThinOS v8.3.1 release contains the following newly added INI parameters:

Table 25. INI parameters

Parameter	Description

SessionConfig=ICA
 	
[desktopmode={fullscreen, window}]
 	
[mapdisksunderz={yes, no, A-Z, a-z, A:-Z:, a:-z:}]
 	
[DiskMapTo=a sequence of characters]
 	
[SysMenu={remote|local}]
 	
[SessionReliability={yes,no}]
 	
[WarnPopup={yes, no}]
 	
[ondesktop={yes,no, all, none, desktops, applications}]
 	
[AudioQuality={default,high,medium,low}]
 	
[USBRedirection={TCX, ICA | HDX}]
 	
[ZLKeyboardMode={0, 1, 2}]
 	
[ZLMouseMode={0, 1, 2}]
 	
[Timeout={Yes, No}]
[SucConnTimeout=seconds]
 	
[HDXFlashUseFlashRemoting={Never,Always}]
 	
[HDXFlashEnableServerSideContentFetching={Disabled,Enabled}]
 	
[EnableRTME={Yes,No}]
 	
[FlipByTimer={0, 1}]
 	
[RefreshTimeOut={dd:hh:mm}]
 	
[PasswordExpireNotify={Yes, No}]
	Set SessionConfig=ICA to establish the default settings for ICA sessions.
	
	The option desktopmode can specify the display mode of ICA published desktop when you use ICA PNAgent logon. The default is fullscreen mode for PNA desktop application.
	
	ⓘ NOTE: **Only if mapdisks=yes, the mapdisksunderz=yes takes effect.**
	
	MapdisksUnderZ option can specify a driver letter to replace default driver letter Z. For example, if MapdisksUnderZ=X, all the disks are under the drive X instead of drive Z (CIR54875). A sequence of characters is used by DiskMapTo, such as RTNM, where each letter is mapped to each disk. For example, R is mapped to first disk (in ThinOS, it is D:/), and T is second letter mapped to second disk (in ThinOS, it is E:/). Only a - y and A – Y characters are accepted, and all lower characters are changed to upper. Any other characters are skipped. Also, duplicate characters are omitted. For example, #GGefZzedAF1JaE is mapped to GEFDAJ. The number of disks mapped to Session depends on the number of valid letters provided. If no letter is provided, all disks are mapped to session with default driver letters.
	
	The option SysMenu can specify the sys menu mode when you right-click on the taskbar button of seamless window. If it is remote, the sys menu comes from remote server, otherwise it is from local. The default is local sys menu. (CIR37219).
	
	The option SessionReliability=yes can enable session reliability. (CIR40218).
	
	The option WarnPopup=no can disable the warning message when session reliability happens to decrease the administrative support calls.
	
	The option ondesktop=yes can show all PNA/PNLite applications on the desktop (CIR41291). Since 7.0.0_31, there is a new logic for the ondesktop parameter. (CIR53288)
	
	· If AutoConnectList is set in the PNLiteServer statement, all connections configured in the AutoConnectList parameter shows.
	· The default value of the ondesktop parameter is no. It means that the property of ondesktop is controlled by the server. But the connections are always added into connection manager list and PNA menu list.
	· In the other cases except if the parameter is no, the connection is controlled by local. If it does not display on desktop, it is not needed to add into connection manager list and PNA menu list.
	  – all - same as yes, shows all parameters on desktop
	  – none – does not show any

Parameter	Description
[RefreshPopupNotice={Yes, No}]	– desktops - only shows desktops – applications - only shows applications The others are handled as a ondesktop_list. For example, if you set ondesktop=word; excel, it only shows the applications word and excel. The ondesktop_list also supports wildcard * like the AutoConnectList parameter in PNLiteServer. For example, if you set ondesktop=*IE*, any application name which includes the string IE (farm1: IE, "farm2: IExplore and so on) are shown. The option ProgressiveDisplay=yes can enable ICA session Progressive Display feature, which would bring user lossy image or video quality, but faster and smoother +B75 viewing experience. Default value is no. The option BranchRepeater=yes can enable branch repeater function including Reducer V3 and High Throughput. The option DisableIcaPing=yes can disable ICA session to send ping packet. Default value is no. The option AudioQuality can specify the audio quality of ICA sessions. For example: SessionConfig=ICA AudioQuality=high means for all default ICA connections, their connection audio quality is set to high. The option USBRedirection can select the +B75 channel of usb devices redirection. Default is HDX or ICA. This option is recommended to replace old setting device=vusb type={TCX, HDX}. The option CGPParseMessageLen can specify if CGP parse the incoming stream before receiving the full package or not. By default, CGP will parse the stream. The option ZLKeyBoardMode/ZLMouseMode can specify SpeedScreen Latency Reduction (SLR) feature's state. By default, if ZLKeyBoardMode is 0 then the status is closed, and if ZLMouseMode is 2 then the status is auto. · 0 - close · 1 - open · 2 - auto, turn SLR on or off depending on the current connection latency. Timeout controls the credential prompt after ICA broker logon times out. Session ticket is invalid now. If yes, you have to enter your credential to re-login to launch session, and if no, ThinOS uses the default credential to log in the background. The default value is yes. SucConnTimeout enhances the seamless session share. During the first session logon, immediately start second or later sessions, which wait for the time set with SucConnTimeout (or the logon success) to make sure new applications share with the first logon session. The option HDXFlashUseFlashRemoting can control the use of HDX. The default value is Always, which means HDX is enabled all the time. The value Never is to disable HDX. The option HDXFlashEnableServerSideContentFetching can control the use of server side content fetching. The default value is Disabled, which means server side fetching content is disabled. The value Enabled is used to enable this function. The option EnableRTME controls the start of RTME service. By default this is enabled. The option FlipByTimer selects the screen refresh method. For some old server, there is no EndOfFrame transferred to the client. Then we can use this option to fix such issue. The option RefreshTimeOut triggers auto-refresh which updates ICA applications automatically. The value format dd:hh:mm, indicate days&&hours&&minutes as the auto-refresh interval. The default value is 0, which disables auto-refresh. PasswordExpireNotify enables password expire notification, which should configure in storefront server side, Authentication, password change set as At any time. Then before the password expires, logon prompts how many days the password expires and lets you change the password.

Parameter	Description
	RefreshPopupNotice enables/disables the popup notice during refresh in progress. The default value is yes.
Device=bluetooth [Disable={yes, no}]	Set the parameter to disable bluetooth devices. The default value is no. The value is stored into NVRAM. If you set Disable=yes, the bluetooth devices are not initialized.

Fixed issues

None

Known issue

With dual 4K mode, the mouse moves a little slow. In ThinOS, use the **Mouse** tab and change the mouse speed. To navigate to the **Mouse** tab, click **System Setup** > **Peripherals** > **Mouse**.

Tested environment

The following tables display the testing environment for the respective attributes:

Table 26. Tested environment - General components

Component	Version
Cloud Client Manager	R13
Wyse Device Manager	5.5.1
Imprivata OneSign	5.1.101.22
Caradigm	6.2.5
NetScaler	9.3/10.0/10.1/10.5/11.0
StoreFront	2.6/3.0/3.5
SecureMatrix	3.9

Table 27. Tested environment - VDI components

	Windows 7	Windows 8.1	Windows 10	Linux	Windows Server 2008 R2	Windows Server 2012 R2	Apps
VMware Horizon 6.2/7.0	√	√	√	Not applicable	√	√	Not applicable
XenDesktop 5.6	√	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
XenApp 6.5	Not applicable	Not applicable	Not applicable	Not applicable	√	Not applicable	√
XenDesktop/ XenApp 7.6	√	√	Not applicable	√ - RedHat 6.6	√	√	√
XenDesktop/ XenApp 7.9	√	Not applicable	√	Not applicable	√	√	√
Amazon WorkSpaces 1.03	√*	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

	Windows 7	Windows 8.1	Windows 10	Linux	Windows Server 2008 R2	Windows Server 2012 R2	Apps
RDS 2012 R2	√	√	√	Not applicable	Not applicable	√	√

*AWS Workspace VM OS Windows 7 style is actually based on 2008 R2 RDSH.

Table 28. Tested environment - XenDesktop/ XenApp

XenDesktop/ XenApp	Operating System	RTME	Lync client	Lync server	Skype for Business (SFB) server
6.5	Windows Server 2008 R2	1.8	Lync 2010	Lync 2013	
7.6	Windows 7	2.0.1	Skype For Business 2015		Skype For Business 2015
	Windows 8.1	1.8	Lync 2013	Lync 2013	
	Windows 8.1	1.8	Lync 2013		Skype For Business 2015
7.9	Windows 8.1	2.0.1	Skype For Business 2015		Skype For Business 2015
	Windows 10	2.0.1	Skype For Business 2015		Skype For Business 2015

Peripheral list

- Keyboard and mouse
  - Dell Wireless Keyboard/Mouse
  - KM632 Dell Wireless Keyboard/Mouse KM714
  - Dell Mouse MS111-P
  - Dell Keyboard KB113p
  - Dell Keyboard KB212-B
  - Dell Keyboard KB522
  - Dell Keyboard KB813 (Smartcard reader)
  - Dell Keyboard SK-3205 (Smartcard reader)
  - Thinkpad Compact Bluetooth Keyboard
  - Rapoo E6100
  - Bluetooth Dell Wireless Mouse – WM324
  - Dell Optical Wireless Mouse – WM123
  - Dell WM713 Bluetooth
  - SpaceNavigator 3D Space Mouse
  - SpaceMouse Pro
  - Logitech Ultrathin Touch Mouse T630, Bluetooth
  - Logitech K480 Bluetooth keyboard
  - KSI 1700keyboard
  - Logitech MK520 Wireless Keyboard/M310 Wireless Mouse
  - Logitech Media Keyboard K200
  - Logitech K380 Keyboard, Bluetooth
  - Logitech K400 Plus
  - Logitech T400 Zone Touch Mouse
  - Microsoft Arc Touch Mouse 1428
  - Microsoft ARC Mouse 1350
  - Logitech M557 Mouse, Bluetooth
- USB webcam

- Logitech C920 HD Pro Webcam
- Logitech C930e HD Webcam
- Logitech C270 HD Webcam
- Logitech BCC950 Conference Cam
- Logitech HD Webcam C310
- Logitech C525 HD Webcam
- Logitech USB Webcam 9000
- Logitech Conference Cam CC3000e
- Microsoft LifeCam 3.0 Cinema
- Microsoft LifeCam HD-3000
- Microsoft LifeCam Studio
- Printer
  - Dell B1265dnf Multifunction Laser Printer
  - Dell B1165nfw Mono Multifunction Printer
  - Dell B1163 Mono Multifunction Printer
  - Dell B2375dnf Mono Laser Multifunction Printer
  - Dell B2360d Laser Printer
  - Dell B1260dn Laser Printer
  - HP LaserJet P2055d
  - HP LaserJet P2035
  - EPSON PLQ-20K
  - Phone
  - Samsung Galaxy Note4
  - iPhone 6
  - HTC one-XL
- USB disk
  - SanDisk cruzer 16 GB
  - SanDisk cruzer 8 GB
  - SanDisk USB 3.0 16 GB
  - Kingston DataTraveler 100 G3
  - Kingston DataTraveler G3 32 GB
  - Kingston DataTraveler G3 8 GB
  - Kingston DT3.0 16 GB
  - Kingston Mini Fun 8 GB
  - ADATA S107 USB 3.0 16 GB
  - ADATA S107/16GB
  - ADATA UV150 USB 3.0 16 GB
  - PNY USB3.0 16 GB
- Headset
  - Jabra PRO 9450
  - SanDisk Extreme USB 3.0 16 GB
  - Jabra Speak 510 MS, Bluetooth
  - Jabra MOTION UC+ MS / LINK 360, Bluetooth, Lync
  - Jabra SUPREME UC MS /LINK 360, Bluetooth
  - Jabra BIZ 2400 Duo USB MS
  - Jabra PRO 935 MS
  - Jabra UC Voice 550 MS
  - Duo Jabra BIZ 2300 Duo USB
  - MS Jabra PRO 9400BS, Bluetooth

- – Jabra UC Voice 750MS Duo Drk
- – Jabra EVOLVE 65 MS Stereo
- – Plantronics BLACKWIRE C310-M, Lync
- – Plantronics BLACKWIRE C420
- – Plantronics BLACKWIRE C435-M
- – Plantronics BLACKWIRE C520
- – Plantronics BLACKWIRE C710, BlueTooth
- – Plantronics Voyager Legend UC B235 NA, Bluetooth
- – Plantronics DA45
- – Plantronics SupraPlus HW251N
- – Plantronics W440,SAVI,CONVERTIBLE,DECT 6.0(D100)
- – Plantronics Calisto P240 D1K3 USB handset
- – Plantronics Calisto P820-M
- – Plantronics USB DSP DA40(B)
- – Plantronics 655 DSP
- – Plantronics W740 SAVI 3IN1 Convertible, UC, DECT 6.0 NA, Bluetooth
- – Plantronics List Savi 400 series
- – SENNHEISER SC 70 USB MS BLACK Binaural UC headset
- – SENNHEISER SC 660 Binaural CC&O HS, ED
- – SENNHEISER SC 260 USB MS II
- – SENNHEISER SP 10 ML Speakerphone for Lync
- – SENNHEISER D 10 USB ML-US Wireless DECT Headset
- – POLYCOM Deskphone CX300
- – NORTEL Mobile USB headset adapter N0071606 NTEX14MAE6
- Monitor
  - – Dell E1715s(1280 x 1024)
  - – Dell P2714Hc (1920 x 1080)
  - – Dell E2715Hf (1920 x 1080)
  - – Dell D2215Hc (1920 x 1080)
  - – Dell U2414HB (1920 x 1080)
  - – Dell S2415H (1920 x 1080)
  - – Dell U2412M (1920 x 1200)
  - – Dell U2913 WM (2560 x 1080)
  - – Dell U2713Hb (2560 x 1440)
  - – Dell U2713HM (2560 x 1440)
  - – Dell U2713HMt (2560 x 1440)
  - – Dell 3008WFP (2560 x 1600)
  - – Dell U3014t (2560 x 1600)
  - – Dell U3014 (2560 x 1600)
  - – Dell P2815Qf (3840 x 2160)
  - – Dell UP3216Q (3840 x 2160)
- DVD ROM
  - – BENQ DVD Drive
  - – SAMSUNG Portable DVD Writer SE-208
- SPEECHMIKE PREMIUM
  - – LFH3610/00
  - – LFH3200/00
  - – LFH3210/00
- Smart card reader

- – OMNIKEY OK CardMan3121
- – SmartOS powered SCR335
- – HID OMNIKEY 3021
- – Cherry keyboard RS 6600 with smart card
- – Cherry keyboard RS 6700 with smart card
- Smart card
  - – Etoken 72K (USB key)
  - – Etoken 72K no java
  - – Etoken 72K java
  - – Etoken 64K (USB key)
  - – Etoken safenet 5100 java 72k (USB key)
  - – Etoken safenet 5110 java 80k (USB key)
  - – ActivIdentity V2
  - – ActivIdentity V1
  - – Gemalto .net V2+
  - – Gemalto ID Prime MD 3810 for thin client
  - – Gemalto ID Prime MD 830 for thin client
  - – Cryptovision (Startcus 3.0)
  - – Cryptovision (Startcus 3.2)
  - – SafeSign (Startcus 3.0)
  - – SafeSign (Startcus 3.2)
  - – PIV (Gnd 80k)
  - – Gemalto ID Prime MD 840
- Others
  - – Dell USB SoundBar AC511
  - – Elo Touch Screen USB
  - – Elo Touch Screen Serial
  - – Prolific USB-to-Serial converter U232-P9V2
  - – USB-to-Serial converter
  - – Dell DP-VGA convertor
  - – Dell DP-DVI convertor
  - – Dell DP-HDMI convertor
  - – Tripp Lite USB2.0 Hub
- Imprivata and Caradigm
  - – Proximity Card Reader
    - ◦ RDR-80581AKU
    - ◦ RDR-80582AKU
    - ◦ RDR-6082AKU
    - ◦ HDW-IMP-7
  - – Proximity Card
    - ◦ Card 1: ID 4E3C398E
    - ◦ Card 2: ID 016FE691
    - ◦ Card 3: ID 016B4CAA
    - ◦ Card 4: ID E012FFF8007AA7F8 Finger Print Reader
  - – Fingerprint reader
    - ◦ Fingerprint Keyboard ET710
    - ◦ Fingerprint Reader ET700

Resources and support

Accessing documents using the product search

1. Go to www.dell.com/support.
2. In the **Enter a Service Tag, Serial Number, Service Request, Model, or Keyword** search box, type the product name. For example, `Wyse 3040 thin client` or `Wyse ThinOS`.

   A list of matching products is displayed.
3. Select your product and click the search icon or press Enter.
4. Click **Manuals & documents**.

Accessing documents using product selector

You can also access documents by selecting your product.

1. Go to www.dell.com/support.
2. Click **Browse all products**.
3. Click **Thin Clients**.
4. Click the desired category, either **Wyse Hardware** or **Wyse Software**.
5. Click the desired product.
6. Click **Manuals & documents**.

Additional resources

Table 29. Additional resources

Resource	Content
Dell support website—www.dell.com/manuals.	Administrator's Guide, INI Reference Guide, and Release Notes.
Citrix support website—docs.citrix.com.	Documentation for Citrix software.
VMware support website—docs.vmware.com.	Documentation for VMware software.
Microsoft support website—support.microsoft.com.	Documentation for Microsoft software.

Contacting Dell

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for technical support or customer service issues, see www.dell.com/contactdell.

If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or the product catalog.