Dell Wyse ThinOS Version 8.6_019 and ThinOS Lite Version 2.6_019

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

Release summary

Dell Wyse ThinOS software is designed to run on a broad array of Dell Wyse hardware platforms. Patch or add-on releases are created to support the existing hardware platforms, correct defects, make enhancements, or add new features. These releases are tested and supported on shipping hardware platforms.

Version

ThinOS 8.6_019 and ThinOS Lite 2.6_019

Release date

April 2019

Priority and recommendations

Recommended: Dell recommends applying this update during your next scheduled update cycle. The update contains feature enhancements or changes that will help keep your system software current and compatible with other system modules (firmware, BIOS, drivers and software).

Compatibility

Supported platforms

Table 1. Supported platforms

Platform name	Image file name	BIOS file name
Wyse 3010 thin client with ThinOS (T10)	DOVE_boot	Not applicable
Wyse 3010 zero client for Citrix	T00_xen.bin	Not applicable
Wyse 3020 thin client with ThinOS (T10D)	T10D_wnos	T10D_bios.bin
Wyse 3020 zero client for Citrix	T00D_xen	T10D_bios.bin
Wyse 3030 LT thin client with ThinOS	U10_wnos	U10_bios.bin
Wyse 3030 LT thin client with PCoIP	PU10_wnos	PU10_bios.bin
Wyse 3040 thin client with ThinOS	A10Q_wnos	A10Q_bios.bin
Wyse 3040 thin client with PCoIP	PA10Q_wnos	A10Q_bios.bin
Wyse 5010 thin client with ThinOS (D10D)	ZD10_wnos	D10G_bios.bin
Wyse 5010 thin client with PCoIP (D10DP)	PD10_wnos	PD10G_bios.bin
Wyse 5010 zero client for Citrix	ZD00_xen	ZD00_bios.bin
Wyse 5040 AIO thin client (5212)	ZD10_wnos	AIO10G_bios.bin
Wyse 5040 AIO thin client with PCoIP (5213)	PD10_wnos	PAIO10G_bios.bin
Wyse 5060 thin client with ThinOS	D10Q_wnos	D10Q_bios.bin
Wyse 5060 thin client with PCoIP	PD10Q_wnos	PD10Q_bios.bin
Wyse 5070 thin client with ThinOS	X10_wnos	X10_bios.bin
Wyse 5070 thin client with PCoIP	PX10_wnos	X10_bios.bin
Wyse 7010 thin client with ThinOS (Z10D)	ZD10_wnos	Z10G_bios.bin

Packages

Table 2. Packages

Package name	Version
FR	1.24.51190
Horizon	4.8.51817
RTME	2.7.52738
TCX	7.1.41853

Package name	Version
JVDI	12.1.52977

Previous versions

- ThinOS 8.6_015 for Wyse 5040 AIO thin client and Wyse 5040 AIO thin client with PCoIP.
- ThinOS 8.6_013 for all ThinOS-based platforms except Wyse 5040 AIO thin client and Wyse 5040 AIO thin client with PCoIP.
- ThinOS 2.6_013 for all ThinOS Lite-based platforms.

New and enhanced features

Updates to ThinOS packages

- Cisco Jabber Softphone for VDI (JVDI) package is updated to version 12.1.52977.

    ⓘ **NOTE: The JVDI package is applicable to Wyse 3040 thin clients, Wyse 5060 thin clients, and Wyse 5070 thin clients.**

- VMware Horizon package is updated to version 4.8.51817.
- Citrix RealTime Media Engine (RTME) package is updated to version 2.7.52738 to support the RTME agent 2.7.

Sleep mode in ThinOS

The sleep mode enables the power-saving state and the thin client quickly resumes full power operations without loss of data.

- The sleep mode feature is supported on the following platforms:
    - Wyse 5040 AIO thin client with ThinOS (5212)
    - Wyse 5040 AIO thin client with PCoIP (5213)

- The following are the UI enhancements in ThinOS to support the sleep mode feature:
    - The sleep mode option is added in the ThinOS lock window and the shutdown dialog box.
    - The sleep timer is added in the **System Preferences** dialog box.
- The following windows are not closed in sleep mode:

    - Performance Monitor
    - Troubleshooting
    - System Information
    - System Tools
    - VPN Manager
    - Central Configuration
    - System Preferences
    - Display
    - Printer Set Up
    - Remote Connections
    - Network Set Up

    ⓘ **NOTE: Peripherals windows are closed in sleep mode to reinitialize any peripheral devices after resuming from sleep mode.**

- ThinOS VDI broker and sessions log off due to security concern. You must log in to the broker sessions after resuming from sleep mode.
- To enable the thin client to automatically enter sleep mode, set the **Turn Off Screen** as screen saver. The device automatically enters sleep mode when ThinOS is idle for 20 minutes. This is the default value. You can set the idle time in the **System Preferences** dialog box. Sleep mode timer starts after screen is turned off by screen saver.
- To manually enter sleep mode, open the ThinOS shut down menu, select the **Sleep** option and click **OK**.
- To resume from ThinOS sleep mode, do any of the following:
    - Press the power button.
    - Click the USB mouse.
    - Press any key on the USB keyboard.

– Use the **Wake on LAN** feature to wake up from sleep mode.

Miscellaneous

- Added support for VMware Blast virtual channel on Imprivata Biometrics and Proximity devices.
- Added support for NetID.
- Added support for the OMNIKEY 5422 card reader.
- Added support for User Datagram Protocol (UDP) through TS Gateway connections.
- Added support to disable DES, 3DES or both the cipher suites for TLS clients.

Important notes

Sleep mode in ThinOS

This section is applicable only to Wyse 5040 AIO thin client and Wyse 5040 AIO thin client with PCoIP.

- The USB interface is closed in sleep mode. All USB devices such as USB drives, Bluetooth, audio devices, video devices, and camera are reinitialized after resuming from sleep mode.
- The wired network, wireless network, and VPN are disconnected in sleep mode. However, the network configurations are saved.
- Display functionality is not affected in sleep mode.
- CPU/GPU enters into suspend mode and consumes less power.
- All the ThinOS configurations—file server, INI, VDI configuration, network configuration, and so on—are saved automatically in sleep mode. The INI parameters are not reloaded from the file server after resuming from sleep mode.

Tested environment

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

Table 3. Tested environment - General components

Component	Version
Wyse Management Suite	1.3.0
Wyse Device Manager	5.7.3
Imprivata OneSign	5.5
Caradigm	6.3.1
NetScaler	11.1/12.0
StoreFront	3.12
Web Interface	5.4
SecureMatrix	4.1.0

Table 4. Tested environment - VDI components

	Windows 7	Windows 10	Linux	Windows Server 2008 R2	Windows Server 2012 R2	Windows Server 2016	APPs
VMware Horizon 7.0	Tested	Tested	Tested	Tested	Tested	Tested	Tested
Citrix Virtual Apps and Desktops 5.6	Tested	Not tested					
Citrix Virtual Apps 6.5	Not tested			Tested	Not tested		Tested
Citrix Virtual Apps and Desktops 7.15 Citrix Virtual Apps 7.15	Tested	Tested	Not tested	Tested	Tested	Tested	Tested
Tera PCM for Amazon Web Services (AWS) 1.03	Tested*	Not tested					

	Windows 7	Windows 10	Linux	Windows Server 2008 R2	Windows Server 2012 R2	Windows Server 2016	APPs
Microsoft RDS 2012 R2 and 2016	Tested	Tested	Not tested		Tested	Tested	Tested

*AWS Workspace VM Operating System **Windows 7 style** is based on 2008 R2 RDSH.

Table 5. Tested environment - Citrix Virtual Apps and Desktops

Citrix Virtual Apps and Desktops/ Citrix Virtual Apps	Operating System	RTME	Lync client	Skype for Business (SFB) server
7.15	Windows 7	2.7	Skype For Business 2016	Skype For Business 2015
	Windows 8.1	2.7	Skype For Business2016	Skype For Business 2015
	Windows 10	2.7	Skype For Business 2016	Skype For Business 2015
	Windows 2016	2.7	Skype For Business 2016	Skype For Business 2015

Fixed issues

Table 6. Fixed issues

Defect ID	Description
TIR95878/ THINOXSUS-36	Resolved an issue where the UDP transport does not function with Terminal Server Gateway.
TIR97782/ THINOXSUS-38	Resolved an issue where the last modified date file attribution is not displayed correctly when you use a USB Mass Storage device.
TIR98754/ THINOXSUS-17	Resolved an issue where the Shift + ALT + F2 key combinations do not work in a Citrix session.
TIR96801	Resolved a Wyse Device Manage check-in issue that resulted in prolonged delays during booting process.
TIR98503	Improved the RDP performance on Wyse 5070 thin clients.
TIR96984	Resolved an issue where the **turn off display** timer settings for power management in a Horizon PCoIP Virtual Machine do not take effect.
TIR97261	Improved the stability of PCoIP.
TIR97559/ THINOS-800	Upgraded SMB version 1 printer support to SMB version 2.
TIR97720/ THINOXSUS-12	Improved the stability of ELO IntelliTouch display **ET2201L**.
TIR97750	Improved audio delays observed in previous builds.
TIR97890/ THINOXSUS-13	Resolved an issue where the **Incorrect Password** error that is displayed when you use the **user.ini** configuration files with a language parameter other than US defined.
TIR97803	Improved wireless roaming on Wyse 3040 thin client.
TIR98114	Resolved a smart card issue where Admin CAC cards do not prompt for pin when inserted.
TIR98275	Added a new $CMAC ThinOS system variable for use with Cisco ISE 802.1x Policy Engine.
TIR98273	Enhanced the `DelCertificate` parameter to support wildcard support.
TIR98445/ THINOXSUS-34	Resolved an issue where the smart card login fails when TLS is forced to use v1.1 or v1.2.
TIR98195	Resolved an ET2201L monitor issue where the Touchscreen tab in the user interface is not available to configure.
TIR98298	Improved the stability of Lock Terminal.
TIR98197	Resolved a server certificate check failure that is observed when multiple common names are defined in the certificate.
TIR98303	Resolved an RDP Gateway connection issue that is observed when defining a custom port.
TIR98961/ THINOXSUS-66	Resolved an issue where connection descriptions are incorrect when you use Japanese fonts.

Defect ID	Description
TIR98742/ THINOXSUS-22	Resolved an RDP connection issue that is observed when you use a wireless connection and an FQDN hostname.
TIR98414	Improved the performance of the Imprivata application HA event.
TIR98464	Added the ability to prompt for credentials when you attempt to connect to VPN.
TIR98719/ THINOXSUS-30	Added the ability for ThinOS to connect to a Horizon View Direct Connection Plugin using a Windows XP Virtual Machine.
TIR98491	Resolved an issue where the **CMOS: Failed To Set Admin Password** message is displayed in the ThinOS event log for successful BIOS password changes.
TIR98539	Resolved an issue where the desktop autolaunch feature does not function when you use the `OnDesktop=desktops` parameter.
TIR98537	Including the `OnDesktop` parameter to work in Zero Desktop or VDI mode.
TIR98517	Resolved a NetScaler connection issue pertaining to Content-Length.
TIR98658/ THINOXSUS-11	Resolved an issue where a blank display is observed when you switch between the IOGEAR KVM display ports.
TIR98878/ THINOXSUS-42	Resolved an ALT-GR issue where the French keyboard language does not display the @ character for CTRL +ALT+0.
TIR98686/ THINOXSUS-5	Resolved a Blast protocol stability issue when using the M*Modal Fluency device.
TIR98703	Improved PCoIP stability when using the redirected USB camera devices.
TIR98962	Improved the OpenConnect VPN workflow to search for INI file updates after a VPN connection is established. Ability to display VPN connection failure messages is also improved.
TIR98907	Improved the stability of ThinOS.
TIR98894/ THINOXSUS-45	Resolved an Imprivata agent issue where the grave key does not function.
TIR98949/ THINOXSUS-61	Improved the stability of RDP smart card.
TIR98953	Resolved a PowerMic USB redirection stability issue that resulted in device reset error messages in the event log (**VUSB: device_reset error -19**).
TIR99018/ THINOXSUS-52	Resolved an issue where a failed sign-on attempt is passed twice to Active Directory during sign-on.
TIR98993/ THINOXSUS-50	Improved client stability when using displays with 2K resolution.
TIR99003	Added support for connecting to Citrix Workspaces using the Citrix receiver and not using Workspaces App (CWA).
TIR98995/ THINOXSUS-58	Resolved an issue where the main screen changes from display 1 to display 2 when using a dual display-setup on Wyse 5040 AIO thin client.
TIR99042/ THINOS-780	Resolved a ringer volume issue.
TIR99045/ THINOXSUS-59	Resolved a boot stability issue that is observed when you use an Olympus RecMic DR-1200 device that is connected to a USB port.
TIR98445	Resolved an issue where you cannot connect to Citrix StoreFront when using TLS 1.2 with a smart card.

Defect ID	Description
TIR98907/ THINOS-818	Improved stability of the operating system.
THINOS-754	Resolved an issue when the operating system is idle for a long time.
TIR98907	Resolved an issue with peer to peer calls functionality when you use RTME 2.4.
TIR98624	Resolved display issues that are observed when you use a virtual machine PuTTY, and cmd application windows.
TIR98601	Improved client stability when using smart phone connections.
TIR98594	Resolved an issue where you cannot update screen during VNC.
TIR98598/ THINOXSUS-7	Resolved an issue where the `FullScreen=No option` parameter is ignored when using RDS connections.
TIR98653/ THINOXSUS-6	Resolved an issue where DP Audio is limited to DP2 when you use dual displays on Wyse 3040 thin client.
TIR98413	Improved the stability of operating system.
TIR97970	SecurityPolicy parameter to include options to enable or disable cipher suites.
TIR98750/ THINOXSUS-14	ThinOS Classic RemoteApp RDS Focus AXAPTA—Resolved an issue where the form disappears from the screen when you click the Print icon.
TIR98926/ THINOXSUS-47	Resolved an issue where Wyse Management Suite messages that are sent to ThinOS are not displayed correctly when you select the Chinese language.
TIR99060	Improved the cursor display and lost frame rate when you play a video or browse a web page in a Blast session.
TIR99053	Resolved an issue where the screen swap feature from left to right does not function on Wyse 3020 thin client.
TIR98971	Improved the stability of the operating system when disconnecting from a Citrix session.
TIR98621/ THINOSSUS-53	Resolved an issue where the USB redirection does not function when using App volumes.
TIR96832/ THINOS-772	Resolved the session display issues when using Citrix Virtual Apps 6.5 and 7.15 on Wyse 5070 thin client.
TIR98974/ THINOS-770	Resolved an issue where an incorrect character case is observed when you press and release both shift keys simultaneously.
TIR99038	Resolved an issue where CTRL+ Pause and CTRL+ Scroll Lock cannot be distinguished in a Citrix session.
TIR98969	Resolved an issue where the local clipboard is not cleared during logout.
THINOS-817	Resolved an issue that is related to a smart card read failure.
THINOS-874, THINOS -751	Resolved an issue where the device restarts when you set the `AutoSignOff=Yes` and `Shutdown=yes` parameters.

INI parameters

The following table provides the list of newly added INI parameter in this release:

(i) **NOTE: Every INI parameter is associated with a parent INI parameter. Use these INI parameters along with the corresponding parent INI parameters.**

Table 7. INI parameters

INI parameters	Description*
`EnableVsync=[yes, no]`	The `EnableVsync` parameter enables or disables the Vertical Synchronization feature. The value is not stored in NVRAM. If you deploy this parameter on unsupported devices such as Wyse 3010, 3020 and 3030 LT thin clients, the value is ignored.
`DelCertificate={filename}`	This parameter enables you to delete certificate file corresponding to `AddCertificate`. You can set the `DelCertificate` value to `all`, `builtin`, or provide a specific name.
	From this release, the specific file name supports wildcard variables such as **$TN.pfx**, **$TN**, and **WT*.pfx**.
`[DriverLogLevel={1-4}]` `[DriverDebugLevel={1-7}]`	The `DriverLogLevel` parameter enables you to change the debug level of Intel wireless driver or firmware printing. The following are the values and the corresponding debug levels:
	· 1—Error
	· 2—Warn
	· 3—Info
	· 4—Debug
	For example, if you set the debug level value to 1 (Error) you can get the useful error information.
	The `DriverDebugLevel` parameter specifies which information related to Intel wireless driver or firmware needs to be printed.
	This option is valid only with the `DriverLogLevel` parameter. Ensure that you specify a value for the `DriverLogLevel` parameter before you use this parameter.
	The following are the valid values:
	· #define DBGLVL1 (IWL_DL_INFO)
	· #define DBGLVL2 (DBGLVL1 | IWL_DL_FW_ERRORS)
	· #define DBGLVL3 (DBGLVL2 | IWL_DL_TEMP | IWL_DL_POWER)
	· #define DBGLVL4 (DBGLVL3 | IWL_DL_ASSOC | IWL_DL_TE)
	· #define DBGLVL5 (DBGLVL4 | IWL_DL_DROP | IWL_DL_RADIO)
	· #define DBGLVL6 (DBGLVL5 | IWL_DL_SCAN | IWL_DL_HT)
	· #define DBGLVL7 (DBGLVL6 | IWL_DL_MAC80211 | IWL_DL_FW)
`Sleep=[yes, no]` `[program=[Sleep, Power off]]`	The `Sleep` parameter enables or disables the sleep mode feature. The sleep mode enables the thin client to enter the power-saving state and quickly resumes full power operations without loss of data. The default value is yes.

INI parameters	Description*
[timer=[0, 1, 5, 10, 15, 30, 60, 120, 300, 600]]	The program parameter specifies whether the thin client must enter the sleep mode or power off after the screen is turned off by screen saver. The default value is Sleep. The timer parameter specifies the time in minutes to either enter the sleep mode or shut down the client after the screen saver starts. The default value is 10 minutes.
[TLSDisableCipher={cipher_name_list}]	The TLSDisableCipher parameter confines the TLS client to stop using the listed cipher suites. In this release, DES, 3DES or both can be disabled. For example, to disable both, use TLSDisableCipher=DES;3DES.
[PlayBackEnableList={device name string}] [RecordEnableList={device name string}]	The PlayBackEnableList and RecordEnableList parameters enable you to specify the list of audio devices that are mapped to an ICA session. You can separate each audio device with a comma. The audio device name is displayed in **Event Log** after you connect and disconnect the device from the terminal. If the actual device name does not match with the device in the list, the device cannot be mapped to the ICA session. Setting the value to "" results in mapping of all devices. This is similar to no INI setting. The terminal default device that is available in the list is set as the default device in the session. If there are no default devices in the list, the first valid device in the list is set as the default device in the session.
[ShowAdmin=[yes, no]]	The ShowAdmin parameter enables or disables the local admin button in the ThinOS Lite login window when StoreFront is disabled. In this release, if the ShowAdmin parameter is set to no, and the SSPR button is enabled, the SSPR button is positioned in the place of the admin button.
[EnableReplay=[yes, no]]	The EnableReplay parameter enables or disables the audio tab in the **Troubleshooting** window. You can replay pcap files of the UDP audio.
SetNetiDLicense=(yes, no) [Name=License name] [Company=License company] [Value=License value] [trace=NetiD driver log path and name]	The SetNetiDLicense parameter enables or disables the usage of SecMaker NetiD smart card pkcs11 drivers. The parameters Name, Company, and Value specify the license name, license company, and the license value respectively. The trace parameter enables you to set the driver log path and file name. For example, trace=/tmp/secmaker.log.
[SCHidePINLeft={yes, no}]	The SCHidePINLeft parameter enables you to hide or display the number of attempts remaining to enter a correct PIN for the smart card. The default value is no.
[PowerSaveControl={0, 1}] [RSSIAmend={}]	The PowerSaveControl parameter enables or disables power saving for Intel wireless chips. The default value is 0. This parameter is applicable to Wyse 5060 thin client. When you enable the wireless powersave feature on the Wyse 5060 thin client, the wireless stops functioning occasionally. To resolve this issue, disable the powersave feature using the PowerSaveControl parameter. The RSSIAmend parameter enables you to manually modify the value of wireless RSSI. This parameter is applicable to Wyse 5070 thin client. RSSIAmend=5 means that the signal level is increased, and RSSIAmend=-5 means that the signal level is decreased.

INI parameters	Description*
`SmbVersionRange={version_range}`	The `SmbVersionRange` parameter controls the SMB protocol version that is used in SMB printer communication. The client only uses the SMB version that is specified in `version_range`.
	The format of `version_range` is `lowest_version, highest_version`. LM2 stands for LAN manager 2, SMB1 for SMB version 1, and SMB2 for SMB version 2. For example, `SmbVersionRange=SMB2,SMB2` means only SMB version 2 is allowed; `SmbVersionRange=,SMB2` means SMB version 2 and all the supported lower versions can be used. Default version range is set by `SmbVersionRange=,SMB1`. By default, SMB2 is not supported.

*For detailed descriptions, see the *Dell Wyse ThinOS Version 8.6 INI Reference Guide* at www.dell.com/support.

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**.

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