

# **Dell Wyse ThinLinux Version 2.2 Operating System and Add-ons**

## 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.

<b>Chapter 1: Overview</b> .....	<b>7</b>
<b>Chapter 2: Version matrix</b> .....	<b>8</b>
<b>Chapter 3: Thinlinux version 2.2.1.04</b> .....	<b>10</b>
Release summary.....	10
Compatibility.....	10
Supported platforms.....	10
Previous version.....	10
Build information.....	11
Supported VDI brokers, browsers, and terminal emulation applications.....	11
New and enhanced features.....	11
Fixed issues.....	12
Known issues.....	12
Tested Peripherals.....	12
License information.....	16
<b>Chapter 4: Thinlinux version 2.2.1.03</b> .....	<b>17</b>
Release summary.....	17
Compatibility.....	17
Supported platforms.....	17
Previous version.....	17
Build information.....	18
Wyse Apps details.....	18
Supported VDI brokers, browsers, and terminal emulation applications.....	18
New and enhanced features.....	18
Security vulnerability fixes.....	18
Fixed issues.....	19
Known issues.....	19
Tested Peripherals.....	20
License Information.....	23
<b>Chapter 5: ThinLinux version 2.2.1.01</b> .....	<b>24</b>
Release summary.....	24
Compatibility.....	24
Supported platforms.....	24
Previous version.....	24
Build information.....	25
Wyse Apps details.....	25
Supported VDI brokers, browsers, and terminal emulation applications.....	25
New and enhanced features.....	25
Hide or unhide the Quick Start application using the DHCP Scope option.....	25
Updated browser versions.....	25
Fixed issues.....	26

Security fixes.....	26
Known issues.....	27
Important notes.....	28
<b>Chapter 6: ThinLinux version 2.2.1.00.....</b>	<b>29</b>
Release summary.....	29
Compatibility.....	29
Supported platforms.....	29
Supported imaging solution.....	29
Supported VDI brokers, browsers, and terminal emulation applications.....	29
Application details.....	30
New and enhanced features.....	30
Webcam.....	30
Keyboard functions.....	30
Docking station.....	30
Display capability.....	30
Power management.....	31
Suspend system.....	31
General features.....	31
Known issues.....	31
Important notes.....	32
Tested peripherals.....	32
<b>Chapter 7: ThinLinux version 2.2.0.01.....</b>	<b>34</b>
Release summary.....	34
Compatibility.....	34
Supported platforms.....	34
Build information.....	34
Supported VDI brokers, browsers, and terminal emulation applications .....	35
New and enhanced features.....	35
Citrix RTME 2.8.....	35
VMware Horizon View Client 5.0.....	35
Fixed issues.....	35
Samba vulnerability fixes.....	36
Known issues.....	36
<b>Chapter 8: ThinLinux version 2.2.0.00.....</b>	<b>37</b>
Release summary.....	37
Priority and recommendations.....	37
Compatibility.....	37
Supported platforms.....	37
Previous version.....	38
Wyse App details.....	38
Supported imaging solution.....	38
New and enhanced features.....	38
Domain join using Active Directory.....	38
Preserve User Settings.....	39
Quick Start.....	39
Suspend mode.....	39

Bluetooth functionality.....	40
System Performance Improvement.....	40
Web browser updates.....	40
Multidisplay support on Wyse 5070 Extended thin client.....	40
Fixed issues.....	42
Known issues.....	42
Limitations.....	43
Multidisplay support on Wyse 5070 extended thin client.....	43
Upgrading firmware.....	44
Upgrade ThinLinux 2.0 or 2.1 to 2.2 on Wyse 3040 thin client.....	44
Upgrade ThinLinux 2.0 or 2.1 to 2.2 on Wyse 5070 thin client.....	44
Upgrade ThinLinux 1.0.4 to 2.2 on Wyse 3040 thin client.....	45
Upgrade ThinLinux 1.0.7.1 to 2.2 on Wyse 3040 thin client.....	46

**Chapter 9: ThinLinux security update for JavaFX libraries and Point-to-Point Protocol**

<b>Daemon .....</b>	<b>47</b>
Release summary.....	47
Compatibility.....	47
Supported platforms.....	47
Add-on details.....	48
New and enhanced features.....	48
Fixed issues.....	48
Third party licenses.....	49
License Type Details.....	49
MIT.....	49
GPL-2+.....	49
Multiple GPL.....	50

**Chapter 10: Citrix Workspace app 1912 add-on..... 53**

Release summary.....	53
Priority and recommendations.....	53
Compatibility.....	53
Supported platforms.....	53
Add-on details.....	54
New and enhanced features.....	54
Important notes.....	54
Tested environment.....	54
Known issues.....	54


**Chapter 11: VMware Horizon View Client version 5.1 add-on..... 56**

Release summary.....	56
Priority and recommendations.....	56
Compatibility.....	56
Supported platforms.....	56
Supported operating systems.....	57
Add-on details.....	57
New and enhanced features .....	57
Fixed issues.....	57
Known issues.....	58

Important notes.....	58
Tested environment.....	58
<b>Chapter 12: VMware Horizon View Client version 5.0 add-on.....</b>	<b>59</b>
Release summary.....	59
Priority and recommendations.....	59
Compatibility.....	59
Supported platforms.....	59
Previous versions.....	60
Supported operating systems.....	60
Add-on details.....	60
New and enhanced features.....	60
Known issues.....	60
<b>Chapter 13: Installing add-ons.....</b>	<b>61</b>
Downloading the installation file.....	61
Install add-on using Wyse Management Suite.....	61
Install add-on using Wyse Device Manager.....	62
Install the add-on manually using ThinLinux.....	62
Install the add-on manually using ThinLinux INI parameter.....	63
<b>Chapter 14: Resources and support.....</b>	<b>64</b>
Additional resources.....	64
<b>Chapter 15: Contacting Dell.....</b>	<b>65</b>

# Overview

Wyse ThinLinux combines the security, flexibility and market-leading usability of Ubuntu Linux with Dell's optimizations in management and user experience. It is ideal for organizations that want to run server-based, web-based, or local applications without the deployment and security concerns of a non-standard Linux distribution.

 **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 section lists the platforms that are supported in each ThinLinux release, and the add-ons required for ThinLinux.

**Table 1. ThinLinux 2.2.x version matrix**

Release version	Release date	Supported platforms	Release Notes
2.2.1.04	December 2020	<ul style="list-style-type: none"> <li>Wyse 5070 Thin Client with a Celeron processor</li> <li>Wyse 5070 Thin Client with a Pentium processor</li> <li>Wyse 5070 Extended Thin Client</li> <li>Wyse 3040 Thin Client</li> <li>Wyse 5470 Thin Client</li> </ul>	<a href="#">ThinLinux version 2.2.1.04.</a>
2.2.1.03	May 2020	<ul style="list-style-type: none"> <li>Wyse 5070 Thin Client with a Celeron processor</li> <li>Wyse 5070 Thin Client with a Pentium processor</li> <li>Wyse 5070 Extended Thin Client</li> <li>Wyse 3040 Thin Client</li> <li>Wyse 5470 Thin Client</li> </ul>	<a href="#">ThinLinux version 2.2.1.03.</a>
2.2.1.01	January 2020	<ul style="list-style-type: none"> <li>Wyse 3040 Thin Client</li> <li>Wyse 5070 Thin Client</li> <li>Wyse 5070 Extended Thin Client</li> <li>Wyse 5470 Thin Client</li> </ul>	<a href="#">ThinLinux version 2.2.1.01.</a>
2.2.1.00	August 2019	Wyse 5470 Thin Client	<a href="#">ThinLinux version 2.2.1.00.</a>
2.2.0.01	August 2019	<ul style="list-style-type: none"> <li>Wyse 3040 Thin Client</li> <li>Wyse 5070 Thin Client</li> <li>Wyse 5070 Extended Thin Client</li> </ul>	<a href="#">ThinLinux version 2.2.0.01.</a>
2.2.0.00	April 2019	<ul style="list-style-type: none"> <li>Wyse 5070 Thin Client</li> <li>Wyse 5070 Extended Thin Client</li> </ul>	<a href="#">ThinLinux version 2.2.0.00.</a>

**Table 2. VMware Horizon View Client version matrix**

Release version	Release date	Supported platforms	Release Notes
5.1	October 2019	<ul style="list-style-type: none"> <li>Wyse 3040 Thin Client</li> <li>Wyse 5070 Thin Client</li> <li>Wyse 5070 Extended Thin Client</li> <li>Wyse 5470 Thin Client</li> </ul>	<a href="#">VMware Horizon View Client version 5.1 add-on.</a>
5.0	May 2019	<ul style="list-style-type: none"> <li>Wyse 3040 Thin Client</li> <li>Wyse 5070 Thin Client</li> <li>Wyse 5070 Extended Thin Client</li> </ul>	<a href="#">VMware Horizon View Client version 5.0 add-on.</a>

**Table 3. Citrix version matrix**

Release version	Release date	Supported platforms	Release Notes
1912	March 2020	<ul style="list-style-type: none"> <li>Wyse 3040 Thin Client</li> <li>Wyse 5070 Thin Client</li> <li>Wyse 5070 Extended Thin Client</li> <li>Wyse 5470 Thin Client</li> </ul>	<a href="#">Citrix Workspace app 1912 add-on.</a>



**Table 4. Security update add-on matrix**

<b>Add-on name</b>	<b>Release date</b>	<b>Supported platforms</b>	<b>Release Notes</b>
Oracle's JavaFX libraries and Point-to-Point Protocol Daemon vulnerability fix	April 2020	<ul style="list-style-type: none"><li>• Wyse 3040 Thin Client</li><li>• Wyse 5070 Thin Client</li><li>• Wyse 5070 Extended Thin Client</li><li>• Wyse 5470 Thin Client</li></ul>	<a href="#">ThinLinux security update for JavaFX libraries and Point-to-Point Protocol Daemon.</a>

# Thinlinux version 2.2.1.04

## Topics:

- [Release summary](#)
- [Compatibility](#)
- [New and enhanced features](#)
- [Fixed issues](#)
- [Known issues](#)
- [Tested Peripherals](#)
- [License information](#)

## Release summary

ThinLinux version 2.2.1.04 is the maintenance release that incorporates fixes for ThinLinux supported 3040, 5070, and 5470 platforms.

## Version

2.2.1.04

## Release date

December 2020

## Compatibility

### Supported platforms

The following table contains the list of supported platforms:

**Table 5. Supported platforms**

Platform	Memory configuration (RAM/Flash)	BIOS version
Wyse 5070 Thin Client with a Celeron processor	16 GB or 4 GB	1.5.0 and later
Wyse 5070 Thin Client with a Pentium processor	16 GB or 4 GB	1.5.0 and later
Wyse 5070 Extended Thin Client	16 GB or 4 GB	1.5.0 and later
Wyse 3040 Thin Client	16 GB or 2 GB	1.2.5 and later
Wyse 5470 Thin Client	16 GB or 4 GB	1.3.1 and later

## Previous version

ThinLinux 2.2.1.03

## Build information

Table 6. Build information

Platforms	Name of the package	Size (Bytes)
Wyse 3040 Thin Client	2.2.1.04_3040_16GB_merlin	2,453,911,024 bytes
Wyse 5070 Thin Client	2.2.1.04_5070_16GB_merlin	2,453,936,447 bytes
Wyse 5470 Thin Client	2.2.1.04_5470_16GB_merlin	2,454,783,743 bytes

## Supported VDI brokers, browsers, and terminal emulation applications

- Citrix workspace 20.10
- VMware View Client 2006
- Ericom Power Term 14.0
- Firefox Web Browser 68.11.0
- Google Chrome 83.0

## New and enhanced features

- **Connection broker updates**
  - VMware View Client version is updated to 2006.
  - Citrix Workspace app version is updated to 2010.
  - Ericom PowerTerm version is updated to 14.0.
- **Web Browser updates**
  - Mozilla Firefox Extended Support Release (ESR) version is updated to 68.11.0.
  - Google Chrome version is updated to 83.0.
- **Security updates**

The following security vulnerabilities are fixed in this release:

Table 7. Security vulnerabilities

Security vulnerability	Component	Website link
CVE-2018-12404	libnss3*2:3.28.4-0ubuntu0.16.04.13	Go to <a href="https://ubuntu.com">ubuntu.com</a> and search for CVE-2018-12404.
CVE-2020-8597	Point-to-Point Protocol (PPP) - daemon, ppp 2.4.7-1+ubuntu1.16.04.3	Go to <a href="https://cve.mitre.org">cve.mitre.org</a> and search for CVE-2020-8597.
CVE-2020-12351 (Intel BlueZ vulnerability)	linux*4.15.0-122	Go to <a href="https://ubuntu.com">ubuntu.com</a> and search for CVE-2020-12351.
CVE-2020-12352 (Intel BlueZ vulnerability)	linux*4.15.0-122	Go to <a href="https://ubuntu.com">ubuntu.com</a> and search for CVE-2020-12352.

## Fixed issues

Table 8. Fixed issues

Issue ID	Issue Description
TL-282	Fixed the issue where the power button does not work when you access from the taskbar and then from the thin client settings.
TL-304	Fixed the issue where the mouse control does not work in Firefox and Chrome browsers.
TL-341	Fixed the issue where the HDMI audio is not persistent. This issue is observed on the Wyse 5470 Thin Client.
TL-372	Fixed the issue where the Wyse Device Agent window shows <b>Unregistered</b> even after you have registered the device to Wyse Management Suite. This issue is observed until you click any other settings.
TL-382	Fixed the issue where the cursor is invisible in text fields when connecting to the Windows 10 RDP session.
TL-394	Fixed the issue where the video autoplay function does not work in Kiosk mode.
TL-395	Fixed the issue where the keyboard mapping does not work in Ericom PowerTerm.
TL-396	Fixed the issue where an identical machine ID is displayed.
TL-398	Fixed the issue where you are unable to type in Japanese on a local client operating system.
TL-399	Fixed the issue where Can't update Chrome message is displayed after a few hours of browsing in Chrome.
TL-400	Fixed the issue where the query feature in Wyse Management Suite can stop the connected USB device to function.
TL-402	Fixed the issue where the ThinLinux bulk terminal name is changed.
TL-404	Fixed the issue where a black screen is displayed after you restart or power on the device with a secondary display connected.
WMS-369	Fixed the issue observed when configuring the time zone on ThinLinux.

## Known issues

Table 9. Known issues

Issue ID	Issue Description	Workaround
TL-363	Occasionally, the display resolution is not being applied after you change the resolution.	Restart the thin client and change the resolution again.
TL-379	Occasionally, the Wyse 3040 Thin Client stops responding.	Restart the thin client.

## Tested Peripherals

Table 10. Tested Peripherals

Product Category	Peripherals	Wyse 3040 Thin Client	Wyse 5070 Thin Client	Wyse 5470 Thin Client
Audio	Dell Pro Stereo Headset - UC150 - Skype for Business	Tested	Tested	Tested
	Dell Pro Stereo Headset - Skype for Business - UC350	Tested	Tested	Tested

**Table 10. Tested Peripherals (continued)**

<b>Product Category</b>	<b>Peripherals</b>	<b>Wyse 3040 Thin Client</b>	<b>Wyse 5070 Thin Client</b>	<b>Wyse 5470 Thin Client</b>
	Dell Professional Sound Bar (AE515M)	Tested	Tested	Tested
	Dell USB Sound Bar (AC511M)	Tested	Tested	Tested
	Jabra PRO 935 USB MS Lync Headset - 935-15-503-185 - 935-15-503-185	Not Applicable	Tested	Not Applicable
	Dell 2.0 Speaker System - AE215	Not Applicable	Not Applicable	Tested
	Dell Wireless 2.1 Speaker System - AE415	Not Applicable	Not Applicable	Tested
	Jabra Evolve 65 MS Stereo - Headset	Not Applicable	Not Applicable	Tested
	Jabra Engage 65 Stereo Headset	Not Applicable	Not Applicable	Tested
	Plantronics Savi W440M-400 Series convertible wireless headset - DECT 6.0	Not Applicable	Not Applicable	Tested
	Plantronics Voyager Focus UC B825-M headset for Microsoft Lync	Not Applicable	Not Applicable	Tested
Adapters or Cables	Dell Adapter - DisplayPort to DVI	Tested	Tested	Not Applicable
	Dell Adapter - DisplayPort to HDMI 2.0 (4K)	Tested	Tested	Not Applicable
	Dell Adapter - DisplayPort to VGA	Tested	Tested	Not Applicable
	C2G - USB 2.0 A (Male) to DB9	Not Applicable	Tested	Tested
	Dell Adapter - USB-C to DisplayPort	Not Applicable	Tested	Tested
	Dell Adapter - USB-C to HDMI	Not Applicable	Tested	Not Applicable
	Dell Adapter - USB-C to VGA	Not Applicable	Tested	Not Applicable
	Trendnet« USB to Serial Converter	Not Applicable	Tested	Tested
	Dell Adapter - HDMI to DVI	Not Applicable	Not Applicable	Tested
	Dell Adapter - HDMI to VGA	Not Applicable	Not Applicable	Tested
	Dell USB-C Mobile Adapter	Not Applicable	Not Applicable	Tested
	StarTech.com 1 Port USB to RS232 DB9 Serial Adapter Cable	Not Applicable	Not Applicable	Tested
Input Devices	Dell Laser Scroll USB 6-Buttons Silver and Black Mouse	Tested	Tested	Tested
	Dell USB Wired Keyboard	Tested	Tested	Not Applicable
	DellUSB Wired Optical Mouse	Tested	Tested	Tested
	Dell Premier Wireless Mouse	Tested	Tested	Tested

**Table 10. Tested Peripherals (continued)**

<b>Product Category</b>	<b>Peripherals</b>	<b>Wyse 3040 Thin Client</b>	<b>Wyse 5070 Thin Client</b>	<b>Wyse 5470 Thin Client</b>
	Dell Wireless Keyboard and Mouse	Tested	Tested	Tested
	Dell Wireless Mouse	Not Applicable	Not Applicable	Tested
	Seal Shield Silver Seal Waterproof-Keyboard-USB-US-waterproof-white	Tested	Tested	Not Applicable
	SEAL SHIELD MEDICAL GRADE OPTICAL	Tested	Tested	Not Applicable
	Man & Machine Its Cool Flat - Keyboard - USB - UK layout - white	Tested	Tested	Not Applicable
	Man and Machine C Mouse - Mouse - right and left-handed - optical - 2 buttons - wired - USB - white	Tested	Tested	Not Applicable
Monitors	E1916H	Tested	Tested	Not Applicable
	P1917S	Tested	Not Applicable	Not Applicable
	E1920H	Tested	Tested	Tested
	E2016H	Tested	Tested	Tested
	E2016Hv (China only)	Not Applicable	Not Applicable	Tested
	P2017H	Tested	Not Applicable	Not Applicable
	P2018H	Not Applicable	Not Applicable	Tested
	E2020H	Tested	Tested	Tested
	E2218HN	Tested	Not Applicable	Tested
	P2217	Tested	Not Applicable	Not Applicable
	P2217H	Tested	Tested	Not Applicable
	P2219H	Tested	Tested	Tested
	P2219HC	Tested	Tested	Tested
	E2220H	Tested	Tested	Tested
	E2318H	Tested	Tested	Tested
	P2317H	Tested	Tested	Not Applicable
	E2417H	Tested	Tested	Tested
	P2415Q	Tested	Tested	Not Applicable
	P2417H	Tested	Tested	Not Applicable
	P2418D	Tested	Not Applicable	Not Applicable
	P2418HT	Tested	Tested	Not Applicable
	P2418HZ	Tested	Tested	Not Applicable
	P2419H	Tested	Tested	Tested
	P2419HC	Tested	Tested	Tested
	P2421D	Tested	Tested	Tested

**Table 10. Tested Peripherals (continued)**

<b>Product Category</b>	<b>Peripherals</b>	<b>Wyse 3040 Thin Client</b>	<b>Wyse 5070 Thin Client</b>	<b>Wyse 5470 Thin Client</b>
	E2420H	Tested	Tested	Tested
	P2719H	Tested	Tested	Tested
	P2719HC	Tested	Tested	Tested
	P2720D	Tested	Tested	Tested
	E2720H	Tested	Tested	Tested
	P3418HW	Tested	Tested	Tested
	MR2416	Tested	Tested	Tested
	U2415	Tested	Tested	Tested
	U2419H	Tested	Tested	Tested
	U2419HC	Tested	Tested	Tested
	U2518D	Tested	Tested	Not Applicable
	U2520D	Tested	Tested	Tested
	U2720Q	Tested	Tested	Tested
	U2718Q (4K)	Tested	Tested	Tested
	U2719D	Tested	Tested	Tested
	U2719DC	Tested	Tested	Tested
	U2721DE	Not Applicable	Tested	Tested
	E2216H	Not Applicable	Tested	Tested
	E2216Hv (China only)	Not Applicable	Not Applicable	Tested
	E2318HN	Not Applicable	Tested	Not Applicable
	E2420HS	Not Applicable	Tested	Tested
	E2720HS	Not Applicable	Tested	Tested
	P2016	Not Applicable	Tested	Not Applicable
	P2319H	Not Applicable	Tested	Tested
	P2421DC	Not Applicable	Tested	Tested
	P2720DC	Not Applicable	Tested	Tested
	P4317Q	Not Applicable	Tested	Not Applicable
	U2421HE	Not Applicable	Tested	Tested
	U4320Q	Not Applicable	Tested	Tested
Networking	Add On 1000 Base-T SFP transceiver (RJ-45)	Not Applicable	Tested	Not Applicable
Docking station	Dell Dock - WD19-C	Not Applicable	Not Applicable	Tested
Smart Card or Reader	Dell KB813 Smartcard Keyboard - KB813	Tested	Tested	Tested
	Dell keyboard KB813t	Tested	Tested	Tested
	ETOKEN, SAFENET 5300, FIPS, MINI, BLACK, SIGNTS+, PIN_EXCHANGE-TS+PIN	Tested	Tested	Tested

**Table 10. Tested Peripherals (continued)**

Product Category	Peripherals	Wyse 3040 Thin Client	Wyse 5070 Thin Client	Wyse 5470 Thin Client
	ETOKEN, SAFENET 5110, FIPS, JAVA/80K, BLACK, ID, (HEX)	Tested	Tested	Tested
	ETOKEN, SAFENET, 5110+, CC, JAVA/80K, BLACK, ID (HEX)	Tested	Tested	Tested
	CARD_IDPrime MD 830 B FIPS 140-2 L2 White PVC	Tested	Tested	Tested
	CARD_IDPrime MD 3840 B w/o OTP	Tested	Tested	Tested
	Card_IDPrimeMD840B_white_PVC	Tested	Tested	Tested
	CARD_IDPrime MD3811, Mifare EV1 4K&DESFire EV1, 4K _MPH150_New	Tested	Tested	Tested
	Standard Card _IDPrime NET 510_ white PVC	Tested	Tested	Tested
	Yubikey Neo 5.0	Tested	Tested	Tested
	E-token pro Alladin 72 K	Tested	Tested	Tested
Printers	Dell Color Multifunction Printer - E525w	Tested	Not Applicable	Not Applicable
	Dell Color Printer- C2660dn	Tested	Tested	Not Applicable
	Dell Multifunction Printer - E515dn	Tested	Not Applicable	Not Applicable

## License information

**Table 11. License Information**

Sl.No	Component name	License type
1	gnome-shell-common_3.18.5-0ubuntu1	GPL 2+, LGPL-2.1
2	gnome-shell_3.18.5-0ubuntu1.1carson1ubuntu1	LGPL-2.1, GPL - 3, and GPL-2+
3	VMware-Horizon-Client-2006-8.0.0-16522670.x64.bundle	GPL, LGPL, BSD, and other
4	google-chrome-stable_current	Google
5	gnome-control-center.tgz	GPLv2
6	gnome-shell.tar.gz	GPL V2



# Thinlinux version 2.2.1.03

## Topics:

- [Release summary](#)
- [Compatibility](#)
- [New and enhanced features](#)
- [Fixed issues](#)
- [Known issues](#)
- [Tested Peripherals](#)
- [License Information](#)

## Release summary

ThinLinux version 2.2.1.03 is the maintenance release that incorporates fixes for ThinLinux supported 3040, 5070, and 5470 platforms.

## Version

2.2.1.03

## Release date

May 2020

## Compatibility

### Supported platforms

The following table contains the list of supported platforms:

**Table 12. Supported platforms**

Platform	Memory configuration (RAM/Flash)	BIOS version
Wyse 5070 Thin Client with a Celeron processor	16 GB or 4 GB	1.5.0 and later
Wyse 5070 Thin Client with a Pentium processor	16 GB or 4 GB	1.5.0 and later
Wyse 5070 Extended Thin Client	16 GB or 4 GB	1.5.0 and later
Wyse 3040 Thin Client	16 GB or 2 GB	1.2.5 and later
Wyse 5470 Thin Client	16 GB or 4 GB	1.3.1 and later

## Previous version

TL2.2.1.01—3040, 5070, and 5470 platforms

## Build information

Table 13. Build information

Platforms	Name of the package	Size (Bytes)
Wyse 3040 Thin Client	2.2.1.03_3040_16GB_merlin	2,075,804,779 bytes
Wyse 5070 Thin Client	2.2.1.03_5070_16GB_merlin	2,075,712,968 bytes
Wyse 5470 Thin Client	2.2.1.03_5470_16GB_merlin	2,076,842,761 bytes

## Wyse Apps details

Table 14. Wyse Apps details

Platforms	Name of the package	Size (Bytes)
Wyse 3040 and Wyse 5070 Extended Thin Client	all-addons_TL-2.2.1.03-Wyse.tgz	536,369,246 bytes
Wyse 5470 Thin Client	all-addons_TL-2.2.1.03-Wyse.tgz	536,390,965 bytes

## Supported VDI brokers, browsers, and terminal emulation applications

- Citrix workspace 1912
- Citrix RTME 2.8
- VMware View Client 5.3
- Wyse RDP 8.01.05
- Ericom Power Term 14.0
- Firefox Web Browser 68.4.2
- Google Chrome 79.0

## New and enhanced features

### Security vulnerability fixes

Table 15. Security vulnerabilities

Security vulnerability	Component	Website link
CVE-2019-13117	libxslt 1.1.33	Go to <a href="https://nvd.nist.gov/vuln/detail/CVE-2019-13117">https://nvd.nist.gov/vuln/detail/CVE-2019-13117</a> and search for CVE-2019-13117.
CVE-2019-13118	libxslt 1.1.33	Go to <a href="https://nvd.nist.gov/vuln/detail/CVE-2019-13118">https://nvd.nist.gov/vuln/detail/CVE-2019-13118</a> and search for CVE-2019-13118.
CVE-2019-16168	SQLite through 3.29.0	Go to <a href="https://nvd.nist.gov/vuln/detail/CVE-2019-16168">https://nvd.nist.gov/vuln/detail/CVE-2019-16168</a> and search for CVE-2019-16168.
CVE-2020-8597	Point-to-Point Protocol (PPP) - daemon, ppp 2.4.7-1+2ubuntu1.16.04.1	Go to <a href="https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2020-8597">https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2020-8597</a> and search for CVE-2020-8597.

## Fixed issues

Table 16. Fixed issues

Issue ID	Issue Description
TL-143	Fixed the issue where the artifacts or blocks are left when you move the window from one monitor to the other.
TL-222	Fixed the issue where the Num Lock Key is broken in Ericom IBM Emulations.
TL-226	Fixed the issue where the lengths of AD username and password fields are limited in the System settings.
TL-243	Fixed the issue where the HDMI standard audio output is not stored, and audio over DP fails when the resolution of the monitor is set to 2560*1440.
TL-246	Fixed the issue where the <b>Chrome.clearBrowserData</b> does not clear anything.
TL-249	Fixed the issue where the custom connection commands are limited to 128 characters.
TL-312	Fixed the issue where the <b>Enable External USB Ports</b> are enabled or disabled without providing the BIOS password in GUI.
TL-318	Fixed the issue where the output volume settings are not saved after imaging.
TL-327	Fixed the issue where the network icon is not displayed.
TL-337	Fixed the auto login issues after applying <code>wyse-settings_1.02.0-93_amd64.deb</code> package for r key.
TL-338	Fixed the issue where you are unable to create RDP connections in GUI for FQDNs which ends with .local domain. This issue is observed in Wyse 3040 Thin Client.
TL-339	Fixed the issue where you are unable to log in to websites using FireFox.
TL-341	Fixed the issue where the HDMI audio is not persistent. This issue is observed in the Wyse 3040 Thin Client.
TL-343	Fixed the issue where the GUI elements are not accessible, when window covers the hidden taskbar CIPS-13872 SR 1003640177. This issue is observed in Wyse 5070 Thin Client.
TL-335	Fixed the issue where the AD login is not working when the INI parameters are configured.
TL-352	Fixed the Oracle vulnerability issues that are related to <code>libxslt</code> and <code>libsqlite</code> .
TL-353	Fixed the vulnerability issue regarding ppp daemon.
TL-376	Fixed the issue where the Firefox browser is disabled. This issue is observed in the Wyse 5070 Thin Client.

## Known issues

Table 17. Known issues

Issue ID	Issue Description	Workaround
TL-363	<b>Applied</b> display resolution is not reflecting in the monitor, and the changes confirmation window is not displayed.	The workaround is to log in again.
TL-372	When you register the device to the WMS server, WDA window displays as unregistered, until you click any other settings.	There is no workaround.
TL-379	Wyse 3040 stops responding.	Restart the thin client.

# Tested Peripherals

**Table 18. Tested Peripherals**

Product Category	Peripherals	Wyse 3040 Thin Client	Wyse 5070 Thin Client	Wyse 5470 Thin Client
Audio	Dell Pro Stereo Headset - UC150 - Skype for Business	Tested	Tested	Tested
	Dell Pro Stereo Headset - Skype for Business - UC350	Tested	Tested	Tested
	Dell Professional Sound Bar (AE515M)	Tested	Tested	Tested
	Dell USB Sound Bar (AC511M)	Tested	Tested	Tested
	Jabra PRO 935 USB MS Lync Headset - 935-15-503-185 - 935-15-503-185	Not Applicable	Tested	Not Applicable
	Dell 2.0 Speaker System - AE215	Not Applicable	Not Applicable	Tested
	Dell Wireless 2.1 Speaker System - AE415	Not Applicable	Not Applicable	Tested
	Jabra Evolve 65 MS Stereo - Headset	Not Applicable	Not Applicable	Tested
	Jabra Engage 65 Stereo Headset	Not Applicable	Not Applicable	Tested
	Plantronics Savi W440M-400 Series convertible wireless headset - DECT 6.0	Not Applicable	Not Applicable	Tested
	Plantronics Voyager Focus UC B825-M headset for Microsoft Lync	Not Applicable	Not Applicable	Tested
	Adapters or Cables	Dell Adapter - DisplayPort to DVI	Tested	Tested
Dell Adapter - DisplayPort to HDMI 2.0 (4K)		Tested	Tested	Not Applicable
Dell Adapter - DisplayPort to VGA		Tested	Tested	Not Applicable
C2G - USB 2.0 A (Male) to DB9		Not Applicable	Tested	Tested
Dell Adapter - USB-C to DisplayPort		Not Applicable	Tested	Tested
Dell Adapter - USB-C to HDMI		Not Applicable	Tested	Not Applicable
Dell Adapter - USB-C to VGA		Not Applicable	Tested	Not Applicable
Trendnet« USB to Serial Converter		Not Applicable	Tested	Tested
Dell Adapter - HDMI to DVI		Not Applicable	Not Applicable	Tested
Dell Adapter - HDMI to VGA		Not Applicable	Not Applicable	Tested
Dell USB-C Mobile Adapter		Not Applicable	Not Applicable	Tested
StarTech.com 1 Port USB to RS232 DB9 Serial Adapter Cable		Not Applicable	Not Applicable	Tested

**Table 18. Tested Peripherals (continued)**

<b>Product Category</b>	<b>Peripherals</b>	<b>Wyse 3040 Thin Client</b>	<b>Wyse 5070 Thin Client</b>	<b>Wyse 5470 Thin Client</b>
Input Devices	Dell Laser Scroll USB 6-Buttons Silver and Black Mouse	Tested	Tested	Tested
	Dell USB Wired Keyboard	Tested	Tested	Not Applicable
	DellUSB Wired Optical Mouse	Tested	Tested	Tested
	Dell Premier Wireless Mouse	Tested	Tested	Tested
	Dell Wireless Keyboard and Mouse	Tested	Tested	Tested
	Dell Wireless Mouse	Not Applicable	Not Applicable	Tested
	Seal Shield Silver Seal Waterproof-Keyboard-USB-US-waterproof-white	Tested	Tested	Not Applicable
	SEAL SHIELD MEDICAL GRADE OPTICAL	Tested	Tested	Not Applicable
	Man & Machine Its Cool Flat - Keyboard - USB - UK layout - white	Tested	Tested	Not Applicable
	Man and Machine C Mouse - Mouse - right and left-handed - optical - 2 buttons - wired - USB - white	Tested	Tested	Not Applicable
Monitors	E1916H	Tested	Tested	Not Applicable
	P1917S	Tested	Not Applicable	Not Applicable
	E1920H	Tested	Tested	Tested
	E2016H	Tested	Tested	Tested
	E2016Hv (China only)	Not Applicable	Not Applicable	Tested
	P2017H	Tested	Not Applicable	Not Applicable
	P2018H	Not Applicable	Not Applicable	Tested
	E2020H	Tested	Tested	Tested
	E2218HN	Tested	Not Applicable	Tested
	P2217	Tested	Not Applicable	Not Applicable
	P2217H	Tested	Tested	Not Applicable
	P2219H	Tested	Tested	Tested
	P2219HC	Tested	Tested	Tested
	E2220H	Tested	Tested	Tested
	E2318H	Tested	Tested	Tested
	P2317H	Tested	Tested	Not Applicable
	E2417H	Tested	Tested	Tested
	P2415Q	Tested	Tested	Not Applicable
	P2417H	Tested	Tested	Not Applicable
	P2418D	Tested	Not Applicable	Not Applicable
P2418HT	Tested	Tested	Not Applicable	

**Table 18. Tested Peripherals (continued)**

<b>Product Category</b>	<b>Peripherals</b>	<b>Wyse 3040 Thin Client</b>	<b>Wyse 5070 Thin Client</b>	<b>Wyse 5470 Thin Client</b>
	P2418HZ	Tested	Tested	Not Applicable
	P2419H	Tested	Tested	Tested
	P2419HC	Tested	Tested	Tested
	P2421D	Tested	Tested	Tested
	E2420H	Tested	Tested	Tested
	P2719H	Tested	Tested	Tested
	P2719HC	Tested	Tested	Tested
	P2720D	Tested	Tested	Tested
	E2720H	Tested	Tested	Tested
	P3418HW	Tested	Tested	Tested
	MR2416	Tested	Tested	Tested
	U2415	Tested	Tested	Tested
	U2419H	Tested	Tested	Tested
	U2419HC	Tested	Tested	Tested
	U2518D	Tested	Tested	Not Applicable
	U2520D	Tested	Tested	Tested
	U2720Q	Tested	Tested	Tested
	U2718Q (4K)	Tested	Tested	Tested
	U2719D	Tested	Tested	Tested
	U2719DC	Tested	Tested	Tested
	U2721DE	Not Applicable	Tested	Tested
	E2216H	Not Applicable	Tested	Tested
	E2216Hv (China only)	Not Applicable	Not Applicable	Tested
	E2318HN	Not Applicable	Tested	Not Applicable
	E2420HS	Not Applicable	Tested	Tested
	E2720HS	Not Applicable	Tested	Tested
	P2016	Not Applicable	Tested	Not Applicable
	P2319H	Not Applicable	Tested	Tested
	P2421DC	Not Applicable	Tested	Tested
	P2720DC	Not Applicable	Tested	Tested
	P4317Q	Not Applicable	Tested	Not Applicable
	U2421HE	Not Applicable	Tested	Tested
	U4320Q	Not Applicable	Tested	Tested
Networking	Add On 1000 Base-T SFP transceiver (RJ-45)	Not Applicable	Tested	Not Applicable
Docking station	Dell Dock - WD19-C	Not Applicable	Not Applicable	Tested

**Table 18. Tested Peripherals (continued)**

Product Category	Peripherals	Wyse 3040 Thin Client	Wyse 5070 Thin Client	Wyse 5470 Thin Client
Smart Card or Reader	Dell KB813 Smartcard Keyboard - KB813	Tested	Tested	Tested
	Dell keyboard KB813t	Tested	Tested	Tested
	ETOKEN, SAFENET 5300, FIPS, MINI, BLACK, SIGNTS+, PIN_EXCHANGE-TS+PIN	Tested	Tested	Tested
	ETOKEN, SAFENET 5110, FIPS, JAVA/80K, BLACK, ID, (HEX)	Tested	Tested	Tested
	ETOKEN, SAFENET, 5110+, CC, JAVA/80K, BLACK, ID (HEX)	Tested	Tested	Tested
	CARD_IDPrime MD 830 B FIPS 140-2 L2 White PVC	Tested	Tested	Tested
	CARD_IDPrime MD 3840 B w/o OTP	Tested	Tested	Tested
	Card_IDPrimeMD840B_white_PVC	Tested	Tested	Tested
	CARD_IDPrime MD3811, Mifare EV1 4K&DESFire EV1, 4K _MPH150_New	Tested	Tested	Tested
	Standard Card _IDPrime NET 510_ white PVC	Tested	Tested	Tested
	Yubikey Neo 5.0	Tested	Tested	Tested
E-token pro Alladin 72 K	Tested	Tested	Tested	
Printers	Dell Color Multifunction Printer - E525w	Tested	Not Applicable	Not Applicable
	Dell Color Printer- C2660dn	Tested	Tested	Not Applicable
	Dell Multifunction Printer - E515dn	Tested	Not Applicable	Not Applicable

## License Information

**Table 19. License Information**

SI.No	Component Name	License Type
1	gnome-shell-common_3.18.5-0ubuntu1	GPL 2+, LGPL-2.1
2	gnome-shell_3.18.5-0ubuntu1.1carson1ubuntu1	LGPL-2.1, GPL - 3, and GPL-2+
3	VMware-Horizon-Client-5.3.0-15208949.x64.bundle	GPL, LGPL, BSD, and other
4	google-chrome-stable_current	Google
5	gnome-control-center.tgz	GPLv2
6	gnome-shell.tar.gz	GPL V2

# ThinLinux version 2.2.1.01

## Topics:

- [Release summary](#)
- [Compatibility](#)
- [New and enhanced features](#)
- [Fixed issues](#)
- [Known issues](#)
- [Important notes](#)

## Release summary

ThinLinux version 2.2.1.01 is the maintenance release 2 that incorporates the latest connection brokers and software fixes for ThinLinux-based platforms.

## Version

ThinLinux version 2.2.1.01

## Release date

January 2020

## Compatibility

### Supported platforms

The following table contains the list of supported platforms:

**Table 20. Supported platforms**

Platform	Memory configuration (RAM/Flash)	BIOS version
Wyse 5070 Celeron Thin Client	16 GB or 4 GB	1.3.1 and later
Wyse 5070 Pentium Thin Client	16 GB or 4 GB	1.3.1 and later
Wyse 5070 Extended Thin Client	16 GB or 4 GB	1.3.1 and later
Wyse 3040 Thin Client	16 GB or 2 GB	1.2.5 and later
Wyse 5470 Thin Client	16 GB or 4 GB	1.1.1 and later

## Previous version

- 2.2.0.01—Wyse 5070 and 3040 thin clients
- 2.2.1.00—Wyse 5470 Thin Client



## Build information

Table 21. Build information

Platforms	Name of the package	Size (Bytes)
Wyse 3040 Thin Client	2.2.1.01_3040_16GB_merlin	2,010,279,181 bytes
Wyse 5470 Thin Client	2.2.1.01_5470_16GB_merlin	2,013,424,273 bytes
Wyse 5070 Thin Client	2.2.1.01_5070_16GB_merlin	2,010,268,514 bytes

## Wyse Apps details

Table 22. Wyse Apps details

Platforms	Name of the package	Size (Bytes)
Wyse 3040 and 5070 thin clients	all-addons_TL-2.2.1.01-Wyse.tgz	465,949,380 bytes
Wyse 5470 Thin Client	all-addons_TL-2.2.1.01-Wyse.tgz	468,124,997 bytes

## Supported VDI brokers, browsers, and terminal emulation applications

- Citrix 13.10
- Citrix Real-Time Multimedia Engine 2.8
- VMware View Client 5.1
- Wyse RDP 8.01.05
- Ericom PowerTerm 12.3.0
- Mozilla Firefox Web Browser 60.8
- Google Chrome 74.0

## New and enhanced features

This section contains the new and enhanced features in this release.

### Hide or unhide the Quick Start application using the DHCP Scope option

To hide or unhide the Quick Start application during the first boot, set the following DHCP scope options:

- Name—`wyse-oobe-option`
- Data type—`String`
- Code—`206`
- Value
  - `true`—The Quick Start application is displayed during the first boot.
  - `false`—The Quick Start application is not displayed during the first boot.

### Updated browser versions

The Mozilla Firefox Extended Support Release (ESR) version is updated to v60.8.

## Fixed issues

The following table contains the fixed issues in this release:

**Table 23. Fixed issues**

Issue ID	Issue Description
TL-138	Fixed the issue where the published application does not launch using the Mozilla Firefox browser.
TL-207	Fixed the issue where the <code>Display.SleepDisplay INI</code> parameter must be reinstated.
TL-208	Fixed the issue where the automatic deployment on the thin client stops when the Quick Start application is launched during the first boot.
TL-209	Fixed the issue where an administrator can manually stop the Quick Start application launch during the first boot.
TL-225	Fixed the issue where the suspend button is displayed in the <b>Shutdown</b> dialog box after the <b>Suspend</b> option is disabled.
TL-248	Fixed the issue where the published application does not launch using the Mozilla Firefox browser.
TL-256	Fixed the Nessus vulnerability.
TL-258	Fixed the issue where the wireless card is not accessible after upgrading the ThinLinux version from 2.2.0.00 to 2.2.0.01.
TL-179	Fixed the issue where the Firefox browser does not recognize self-signed certificates.
TL-306	Fixed the issue where you cannot open a closed application in seamless mode.
TL-323	Fixed the issue where certificates that work with ThinLinux version 1.0 does not work with version 2.2.
TL-255	Fixed the issue where the <b>R</b> key on the keyboard does not work occasionally.
TL-261	Fixed the issue where the <b>J</b> key on the keyboard does not work.
TL-307	Fixed the issue where the <b>Q</b> and <b>R</b> keys on the keyboard does not work.
TL-253	Fixed the issue where the home page displays a blank screen instead of the Dell home page.
CCCTL-1256	Fixed the issue where multiple instances of browsers are launched when <b>CTRL+N</b> key combination is used.
TL-228	Fixed the issue where the system information packages show empty when you log in as an Active Directory User.
TL-217	Fixed the issue where the printer does not redirect through network or USB in a VMware session.

## Security fixes

The following are the security fixes in this release:

- Bluetooth BREDR Bluetooth vulnerability
- SWAPGS Spectre vulnerability
- Nessus vulnerability
- ICMP redirection enabled vulnerability

# Known issues

The following table contains the known issues in this release:

**Table 24. Known issues**

Issue ID	Issue Description	Workaround
TL-290	The mouse cursor movement around the corners of the display is not smooth after rotating the screen orientation to left or right. The issue is observed while using a 2K display.	There is no workaround.
TL-293	Printer redirection does not work when you launch a Citrix session from the Firefox browser.	There is no workaround.
TL-273	<b>Mouse</b> option in <b>Peripherals</b> is displayed as <b>Mouse and Touchpad</b> on Wyse 5070 and 3040 thin clients.	There is no workaround.
TL-302	Thin client logs off occasionally when switching from user mode to admin mode.	The workaround is to log in again.
TL-303	Keyboard does not work occasionally on Wyse 3040 and 5070 thin clients.	Restart the thin client.
TL-313	When you connect 2 displays to Wyse 5070 Thin Client in extended mode, the taskbar in admin mode is displayed in black color.	There is no workaround.
TL-318	<b>Output Volume</b> settings are not preserved after imaging with the <b>Execute Preserve User Settings</b> option enabled.	There is no workaround.
TL-282	Power button on the thin client does not work after using the power icon from the taskbar.	There is no workaround.
TL-284	When the thin client is in suspended mode, the taskbar does not refresh on lockscreen and is displayed in red color.	There is no workaround.
TL-287	Taskbar items and text in the <b>System Information</b> window are visible after selecting the option to turn off the screen.	There is no workaround.
TL-300	A message that states <b>Bluetooth enabled</b> is displayed on the Wyse 5070 thin client when you turn on or turn off the Bluetooth option.	There is no workaround.
TL-304	Mouse buttons do not work while using Firefox and Chrome browsers.	Hide the network icon first, and then hide the taskbar using the following INI Parameters:  <code>Custom.Taskbar.AllowNetworkIcon=no</code>  <code>Custom.Taskbar.Hide=yes</code>
TL-312	You can enable or disable the option <b>Enable External USB Ports</b> without providing the BIOS password in the user interface.	There is no workaround.
TL-319	The <b>Set as primary</b> option is not disabled in multi-display setup while screen mirroring.	There is no workaround.
TL-320	Changes that are made in <b>Common Resolution</b> are getting saved after clicking <b>Cancel</b> .	There is no workaround.
TL-321	When you connect 3 displays to the Wyse 5070 Thin Client, you cannot turn on one of the displays in the display settings user interface option.	There is no workaround.
TL-324	Desktop wallpaper is cropped in 2 screens per column and 3 screens per column layout.	There is no workaround.
TL-291	When you select the display resolution as 3840 x 2160, the resolution is not reflected on the thin client. This issue is	There is no workaround.

**Table 24. Known issues (continued)**

Issue ID	Issue Description	Workaround
	observed when you connect a 4K display and a 2 K display together to the thin client.	
TL-327	The network icon is occasionally displayed as the network icon in Ubuntu.	There is no workaround.
TL-328	If you press <b>Windows+L</b> multiple times, the device keeps locking automatically until the screen lock timer value is changed.	The workaround is to change the screen lock timer value.
TL-329	The <b>Ctrl+Alt+Shift+F11</b> key combination does not work occasionally after performing a factory reset.	Switch to administrator from the system settings page.
TL-325	Screen mirroring does not work in one 4K, and one 2K dual-display setup.	There is no workaround.
TL-326	INI parameters for display settings and Resolution option configured using Wyse Management Suite are not working in the multi-display setup for Wyse 5470 Thin Client.	There is no workaround.
TL-335	Active Directory Login does not work occasionally when the INI parameters are configured.	Add the <code>ActiveDirectoryServer=&lt;Domain IP&gt;</code> INI parameter, and restart the thin client.

## Important notes

- The error message **CTX134123** is displayed when you open the Citrix application using the Firefox browser. To resolve this error, you must change the `network.websocket.allowinsecureFromHTTPS` to **true** in `about:config`. For more information, see **Citrix Workspace app for Linux** at [docs.citrix.com](https://docs.citrix.com).
- The **R** key on the keyboard does not work for 10 seconds after you reboot the thin client.

# ThinLinux version 2.2.1.00

## Topics:

- [Release summary](#)
- [Compatibility](#)
- [New and enhanced features](#)
- [Known issues](#)
- [Important notes](#)

## Release summary

ThinLinux version 2.2.1 is released to support the Wyse 5470 thin client.

## Version

ThinLinux version 2.2.1

## Release date

August 2019

## Compatibility

### Supported platforms

**Table 25. Supported platforms**

Hardware	Memory configuration (eMMC / RAM)	UEFI BIOS
Wyse 5470 thin client	16 GB / 4 GB	1.0.0 and later

### Supported imaging solution

**Table 26. Supported imaging solution**

Imaging Solution	Version
Dell Wyse USB Imaging Tool	3.2.0
Wyse Management Suite	1.4 and later

### Supported VDI brokers, browsers, and terminal emulation applications

- Citrix Receiver 13.10

- Citrix RTME 2.7
- VMware View Client 4.10
- Wyse RDP 8.01.05
- Firefox Web Browser 60.4.0
- Google Chrome 72.0.3626.81
- Ericom Power Term 12.3.0

## Application details

Table 27. Wyse 5470 thin client application details

Package name	Size (Bytes)
all-addons_TL-2.2.1.00-Wyse.tgz	347,444,754

## New and enhanced features

### Webcam

The Wyse 5470 thin client has an integrated HD webcam. You can access the full functionality of the webcam during Citrix and VMware sessions.

### Keyboard functions

The Wyse 5470 thin client has a laptop layout keyboard. The following short-cut key functions are supported:

- **Fn+F1**—Mutes Audio
- **Fn+F2**—Decreases volume
- **Fn+F3**—Increases volume
- **Fn+F10**—Adjusts keyboard backlight brightness and toggles backlight on/off
- **Fn+F11**—Decreases LCD brightness
- **Fn+F12**—Increases LCD brightness

### Docking station

The Dell Docking station WD19 is compatible with the Wyse 5470 thin client. ThinLinux supports all the ports on the docking station and you can connect up to two external displays to the WD19 docking station.

### Merlin imaging using docking station with MAPT

MAC Address Override or MAC Address Pass Through (MAPT) uses a system-unique MAC address that is entered in the system BIOS. The unique MAC address overrides the dock or dongle MAC address every time when you connect to the network. For more information about MAPT, see the *What is MAC Address pass through?* KB article at [www.dell.com/support](http://www.dell.com/support).

ThinLinux supports Merlin imaging through the docking station with MAPT enabled. By default, the MAPT feature is enabled in BIOS on the Wyse 5470 thin client. You must connect the thin client to the docking station and the network cable is connected to the network connector (RJ45) on the docking station. This feature is applicable only for imaging using Wyse Management Suite or using INI parameters.

### Display capability

- Wyse 5470 thin client supports up to two external displays with 4K resolution.
- Wyse 5470 thin client supports one display with 4K resolution over the docking station.
- Wyse 5470 thin client supports up to two displays with non-4K resolution over the docking station.

## Power management

The following are the power management features on the Wyse 5470 thin client:

- You can set functions such as screen brightness, keyboard brightness and blank screen using the **Advanced Power Settings** option.
- You can enable or disable Wi-Fi using the Power-saving mode.
- The battery icon on the task bar displays the battery status.
- The **Automatic Suspend** option is added to support the **On Battery Power** and **Plugged In** modes.

## Suspend system

- You can use the Suspend System option to suspend the thin client after a specified idle time. This option enables your device to enter the S3 power state (low-power), and you can resume your work without rebooting the device.
- You can enable the suspend mode from either **Power button** or **Power module** in the **System Settings**. You can also use the INI parameter to enable the suspend mode feature.

## General features

Below listed are the general features of the Wyse 5470 thin client:

- UEFI BIOS support
- Custom GUI
- VDI broker connections such as Citrix Receiver 13.x, Citrix RTME 2.x, VMware View 4.x and RDP 8.1.05
- Network and wireless modules
- Energy star certification
- Imaging solutions using Merlin Imaging
- 802.1x & SCEP using HTTP and HTTPs enhancement feature
- Configuration using INI parameters
- Multilanguage support in English, Spanish, French, German, Dutch, Portuguese, Simplified Japanese, Chinese and Korean
- Firefox and Chrome browser
- Browser settings and customization control
- Custom connection
- SSH connection
- VNC Viewer connection
- VNC Server
- Add-on packages such as **.deb**

## Known issues

Table 28. Known issues

Issue number	Description	Workaround
TL-142	Volume cannot be increased or decreased using the sound bar in an RDP session.	There is no workaround in this release.
TL-192	You cannot answer or reject a call using the headset controller.	There is no workaround in this release.
TL-121	The RDP session does not launch when you connect two external displays in extended mode.	There is no workaround in this release.
TL-79	The drop-down option is not available in the <b>Desktop Wallpaper</b> window.	There is no workaround in this release.
TL-120	Dell AE 515 Sound Bar is not displayed in the <b>Sound</b> window.	There is no workaround in this release.

**Table 28. Known issues (continued)**

Issue number	Description	Workaround
TL-156	Left and right buttons on the touch pad do not work correctly.	There is no workaround in this release.
TL-132	The <b>Sound</b> window is not displayed when you connect the Plantronics USB headset to the thin client.	There is no workaround in this release.
TL-51	After you disconnect the thin client from the domain, the domain object is not removed from Active Directory in Windows 2016 Server.	There is no workaround in this release.
TL-185	When you connect two external displays to the docking station, turning off one display turns off the second display.	There is no workaround in this release.
TL-157	When you disable the on-board LAN MAC from the BIOS setup, the device identifier is changed to AUX_MAC or Dock MAC.	Do not disable the on-board LAN in BIOS.
TL-176	External SSD fails to redirect in a Citrix session.	There is no workaround in this release.
TL-164	Docking station connected to the thin client is listed twice in the <b>Connect to USB Devised</b> drop-down list in a VMware session.	Select one of the options from the list.
TL-146	When you set <b>Full screen</b> in mirror mode on a three-display setup, the Citrix session fails to launch in full screen.	There is no workaround in this release.

## Important notes

### Tested peripherals

- Dell Stereo Headset UC150
- Dell Pro Stereo Headset UC350
- Dell USB Sound Bar AC511M
- Dell Professional Sound Bar AE515M
- Dell 2.0 Speaker System AE215
- Dell Wireless 2.1 Speaker System AE415
- Jabra Evolve 65 MS Stereo Headset
- Jabra Engage 65 Stereo Headset
- Plantronics Savi W440M-400 series convertible wireless headset—DECT 6.0
- Plantronics Voyager Focus UC B825-M headset for Microsoft Lync
- C2G USB Type-C to DisplayPort Adapter Converter—USB Type-C to DisplayPort Black external video adapter
- USB-C Mobile Adapter with DP/HDMI/VGA/Gigabit Ethernet/USB-C/USB-A
- Belkin Universal HDMI to VGA Adapter with Audio Video converter—HDMI - B2B
- Dell USB to Ethernet adapter
- TRENDnet USB to Serial Converter RS-232 (2.25 ft)
- C2G - USB 2.0 A (Male) to DB9 (Serial) (Male) Adapter
- StarTech.com 1-Port USB to RS232 DB9 Serial Adapter Cable - Serial adapter - USB 2.0 - RS-232
- Dell 20 Monitor E2016H
- Dell 20 Monitor E2016Hv (China only)
- Dell 22 Monitor E2216H
- Dell 22 Monitor E2216Hv (China only)
- Dell 22 Monitor E2218HN
- Dell 23 Monitor E2318H
- Dell 24 Monitor E2417H
- Dell 20 Monitor P2018H
- Dell 22 Monitor P2219H
- Dell 23 Monitor P2319H



- Dell 24 Monitor P2419H
- Dell 27 Monitor P2719H
- Dell 22 Monitor P2219HC
- Dell 24 Monitor P2419HC
- Dell 27 Monitor P2719HC
- Dell UltraSharp 24 Monitor U2419H
- Dell UltraSharp 24 Monitor U2419HC
- Dell UltraSharp 27 Monitor U2719D
- Dell UltraSharp 27 Monitor U2719DC
- Dell UltraSharp 27 Monitor U2718Q 4K
- Dell 34 Curved Ultrawide Monitor—P3418HW
- Dell Laser Scroll USB 6-Buttons Silver and Black Mouse
- Dell MS116 USB Wired Optical Mouse Black
- Dell Wireless Mouse WM326
- Dell Premier Wireless Mouse WM527
- Dell Wireless Keyboard and Mouse Combo KM636
- Dell Docking Station WD19
- Dell Portable SSD, USB-C 250 GB
- Dell External Tray Load ODD (DVD Writer)

# ThinLinux version 2.2.0.01

## Topics:

- [Release summary](#)
- [Compatibility](#)
- [New and enhanced features](#)
- [Fixed issues](#)
- [Known issues](#)

## Release summary

ThinLinux version 2.2.0.01 is the maintenance release that incorporates the latest connection brokers and software fixes for ThinLinux -based platforms.

## Version

ThinLinux version 2.2.0.01

## Release date

August 2019

## Compatibility

### Supported platforms

**Table 29. Supported platforms**

Platform name	Memory configuration (RAM/Flash)	BIOS version
Wyse 5070 Celeron Thin client	16 GB / 4 GB	1.1.4 and later
Wyse 5070 Pentium Thin client	16 GB / 4 GB	1.1.4 and later
Wyse 5070 Extended Thin client	16 GB / 4 GB	1.1.4 and later
Wyse 3040 Thin Client	16 GB / 2 GB	1.2.5 and later

## Build information

**Table 30. Build Information**

Platform name	Build file name	Size (Bytes)
Wyse 3040 Thin Client	2.2.0.01_3040_16GB_merlin.exe	1,693,148,068 bytes
Wyse 5070 Thin Client	2.2.0.01_5070_16GB_merlin.exe	1,694,190,538 bytes

## Supported VDI brokers, browsers, and terminal emulation applications

The following are the major components in ThinLinux 2.2 MR1:

- Citrix Receiver Client 13.10
- Citrix RTME 2.8
- VMware View Client 5.0
- Wyse RDP 8.01.05
- Ericom Power Term 12.3.0
- Firefox Web Browser 60.7.2
- Google Chrome 74.0

## New and enhanced features

### Citrix RTME 2.8

Added support for Citrix HDX RealTime Media Engine (RTME) version 2.8. The following are the new features in Citrix RTME version 2.8:

- Audio quality in the Windows session is enhanced.
- Supports Skype for Business calls when the Edge server is unreachable.

For more information about the Citrix RTME 2.8 features, see the HDX RealTime Media Engine for Microsoft Skype for Business article at [docs.citrix.com](https://docs.citrix.com).

### VMware Horizon View Client 5.0

Added support for VMware Horizon View Client version 5.0. The following are the new features in VMware Horizon View Client version 5.0:

- Enhanced Horizon Client User Interface.
- Ability to start multiple desktops and applications within a single client session. This feature is applicable when you use the `--use Existing` command-line option to start resources.
- Enhanced support for multiple-display configurations. The full-screen display dynamically updates when you change the local display configuration during a client session.
- Changes to the domain security. Depending on the server configuration, you might need to enter a domain in the username text box when you log in to the Horizon 7 version 7.8 server from Horizon Client.

For more information about the VMware Horizon View client 5.0 features, see the *VMware Horizon Client 5.0 for Linux Release Notes* at [docs.vmware.com](https://docs.vmware.com).

For information about the VMware 5.0 and VNC server UI changes, see the *Dell Wyse ThinLinux 2.2 Administrator's Guide* at [www.dell.com/support](http://www.dell.com/support).

## Fixed issues

The following issues are fixed in this release:

**Table 31. Fixed issue**

CIR / JIRA ID	Issue description
CIR 97581/ TL-5	On the Wyse 5060 Thin Client, the 802.1x settings cannot be used for the wired network connection.
CIR 98706 /TL-6	Duplicate entries for VMware Horizon connection are displayed if you use <code>https://</code> URL prefix.
TL-8	Addressed vulnerability scan issues.

**Table 31. Fixed issue (continued)**

CIR / JIRA ID	Issue description
STRATUS-18746	Payload for deletion of USB COM port data from Wyse Management Suite are not getting updated on the ThinLinux-based devices.
STRATUS-18083	Add Wyse Management Suite support for system wide proxy settings.
STRATUS-18084	Add Wyse Management Suite support for browser proxy settings.
LS-607	On the thin client without a BIOS admin password, the changes made in the BIOS settings are not reflected on USB Manager UI when you use the <code>USB Device INI</code> parameter.
TL-97	Using the INI parameter, you can set zero seconds as the time period to wait before automatically reconnecting to an application server. However, the values for the <b>Reconnect seconds</b> option are from 1 to 3600 on the ThinLinux GUI.
STRATUS-19525	The system wide proxy is not set when you configure the central configuration settings on the thin client. This issue is observed only if the system wide proxy add-on is installed on the device.
TL-101	VMware client accepts an incorrect port number through the INI parameter.
TL-198	Addressed Firefox Browser vulnerabilities.
TL-210	Addressed the Nessus critical vulnerability scan issues.

## Samba vulnerability fixes

The following Samba vulnerabilities are resolved in this release:

- CIFS NULL session permitted: CVE-1999-0519
- Invalid CIFS logins permitted
- SMB signing disabled

## Known issues

**Table 32. Known issues**

JIRA ID	Issue Description	Workaround
TL-217	Printer redirection does not work in VMware Blast and PCOIP sessions when you use network and USB printers.	You need to install VMware 4.8 client and then upgrade to VMware 5.0.
TL-228	Occasionally, packages in the <b>System Information</b> window are not displayed when you log in as an admin user.	Restart the client and log in as administrator.
TL-238	Data Sharing feature is not working in VMware and RDP sessions.	There is no workaround for this issue.
TL-253	Home page of the Mozilla Firefox browser displays a blank page instead of the Dell home page.	There is no workaround for this issue.
TL-1256	Default Firefox Browser and created browser connection are launched multiple times when you press CTRL+N key.	There is no workaround for this issue.

# ThinLinux version 2.2.0.00

## Topics:

- [Release summary](#)
- [Compatibility](#)
- [New and enhanced features](#)
- [Fixed issues](#)
- [Known issues](#)
- [Limitations](#)
- [Upgrading firmware](#)

## Release summary

This release includes new features and resolved issues for ThinLinux 2.2-based platforms.

## Version

ThinLinux 2.2

## 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 33. Supported platforms**

Platforms	Memory configuration (eMMC/RAM)	UEFI BIOS
Wyse 5070 thin client with Celeron processor	16 GB/4 GB	1.1.4 and later
Wyse 5070 thin client with Pentium processor	16 GB/4 GB	1.1.4 and later
Wyse 5070 Extended thin client with Pentium processor	16 GB/4 GB	1.1.4 and later
Wyse 3040 thin client	16 GB/2 GB	1.2.5 and later

## Previous version

ThinLinux 2.1

## Wyse App details

Table 34. Wyse App Details

Package name	Size (Bytes)
all-addons_TL-2.2.0.00-Wyse.tgz	333,914,016

## Supported imaging solution

Table 35. Supported imaging solution

Imaging solution	Version
USB Imaging Tool	3.1.0
Wyse Management Suite	1.3 and later

## New and enhanced features


### Domain join using Active Directory

ThinLinux 2.2 supports domain join and domain login using Active Directory credentials. Active Directory allows an administrator to enable or disable the user authentication to specific domains. You can either join the terminal to the domain, or use the INI parameter to authenticate the user from Active Directory without joining the terminal.

To join your thin client to a domain, enter the following details on the **Active Directory** page:

- Active Directory Domain Name
- Organizational Unit for Thin Client (OU)
- Administrator Name
- Administrator Password

After the thin client is added to the domain, disable the **Autologon** option, and restart the thin client. The domain name is displayed on the ThinLinux login screen. You must enter the domain username and password to log in to the ThinLinux desktop. An error message is displayed if the thin client fails to join the domain.

 **NOTE:** On successful login, you can view the Domain Name and Domain IP in the **System information** dialog box. Add user should disable the Auto login and need restart the device then able to login domain user

#### INI parameters

Table 36. Domain join parameters

INI parameter	Description
Domainjoin.name={yes, no}	This parameter enables users to connect the thin client to a domain. Default selection is no.
Domainjoin.username=<string>	This parameter specifies the name of the user who has the relevant permission to add a computer account to the active directory.
Domainjoin.password=<string>	This parameter specifies the password for the domain.
Domainjoin.enable={true, false}	This parameter allows an administrator to enable or disable authentication against a domain, to require the thin client to formally join the domain, and configure other domain parameters, such as the name of the administrator group. Default selection is false.


**Table 36. Domain join parameters (continued)**

INI parameter	Description
Domain.ou=<string>	It specifies the organization unit within Active Directory to which an administrator can assign Group Policy settings.

## Preserve User Settings

The **Preserve User Settings** feature enables you to retain the configured user settings when you upgrade from ThinLinux 2.2. However, before you upgrade from ThinLinux 2.2, the Preserve User Settings feature needs to be enabled.

When imaging is performed using the USB Imaging tool, use the **Execute Preserve User Settings** option available on the ThinLinux UI to retain the previous settings after upgrade. If you are using the INI parameters to perform an image upgrade, use the `MerlinUpdate.Preserve_User_Setting` parameter to retain the previous settings.

 **NOTE:** Imaging using Wyse Management Suite is not supported by the current Wyse Management Suite release.

### INI parameters

**Table 37. Preserve User Settings parameters**

INI parameter	Description
MerlinUpdate.URL=<string>	This parameter specifies the URL of the directory where the ThinLinux image is uploaded.
MerlinUpdate.Username=<string>	This parameter specifies the name of the user who has logged in to the server.
MerlinUpdate.Password=<string>	The password is used to log in to the server. Default selection is base-64 encryption.
MerlinUpdate.Preserve_User_Setting={yes, no}	This parameter enables you to retain any previously configured user settings in the ThinLinux build after you perform an image upgrade using INI parameters. Default selection is no.

## Quick Start

Quick Start is software that provides an overview of different features and hardware specifications of the thin client. The Quick Start v2.0 wizard runs only for the first time when you start a new thin client, or the first time after performing a factory reset on the existing thin client.

A default icon is added on the ThinLinux desktop that enables you to launch the application. You can enable or disable the desktop icon for a specific user by using the **Hide Desktop Icons** option in **Other Settings**, or the INI parameter.

### INI parameter

**Table 38. Quick Start parameters**

INI parameter	Description
Custom.HideQuickStart={yes, no}	This parameter enables you to hide the Quick Start application from the ThinLinux desktop. Default selection is no.

## Suspend mode


ThinLinux 2.2 supports suspend mode, which enables the device to enter the S3 power state (low-power), and quickly resume your work without rebooting the device.

You can enable the suspend mode using either the GUI option available in **System Settings**, or from the **Power** button. You can also use the INI parameter to enable the suspend mode.

### INI parameter


**Table 39. Suspend mode parameter**

INI parameter	Description
SuspendSystem=<value>	This parameter enables you to enter the time in seconds to suspend the thin client after the specified idle time. Default selection is 15 minutes.

 **NOTE:** Suspend mode is supported only on Wyse 5070 thin client.

## Bluetooth functionality

ThinLinux 2.2 supports Bluetooth version 5.0. Administrator can enable or disable the Bluetooth function using the GUI option in the **Peripherals** settings, or through INI parameters. Normal user (thinuser) cannot enable or disable the Bluetooth functionality.

 **NOTE:** When a normal user (thinuser) attempts to enable or disable Bluetooth, the following warning message is displayed:  
Please contact Administrator.

The following devices are supported by Bluetooth:

- Keyboard
- Mouse
- Headset

 **NOTE:** Bluetooth printers are not supported.

### INI parameter

**Table 40. Bluetooth parameter**

INI parameter	Description
DisableBluetooth={yes, no}	This parameter allows you to enable or disable the Bluetooth function on your thin client. Default selection is yes.

## System Performance Improvement

In ThinLinux 2.2, the system performance during bootup is improved.

## Web browser updates


- Google Chrome is upgrade to the latest version 72.0.3626.81-1.
- Mozilla Firefox Extended Support Release (ESR) is upgraded to the latest version ESR-60.4.0.

## Multidisplay support on Wyse 5070 Extended thin client

ThinLinux 2.2 supports up to six displays.

### Salient features:

- By default, the **Display Settings** UI is available in both user mode and admin mode. Any changes to display preferences that are made through this UI is saved for the user.
- You must select the layout for The **Display Settings** UI has an option to select the layout. The available layout options are **Horizontal** (1 x 6), **Vertical** (6 x 1), **2 Screens per column** (2 x 3), and **3 Screens per column** (3 x 2).
- A minimum of four monitors are required for **2 Screens per column**.
- A minimum of six monitors are required for **3 Screens per column**.
- VMware protocol supports only four monitors.
- Daisy chain configuration is not supported on ThinLinux 2.2.

 **NOTE:** **Rotation** and **Mirror screens** options are not available for quad display.



**Port preferences on Wyse 5070 Extended thin client:**

- Optional port can be used as second RJ45, SFP, or VGA.
- **NOTE:** On Wyse 5070 Extended Thin Clients, you must enable the WiFi option in BIOS to use the expansion slot for SFP.
- On the device with wireless module, the optional port cannot be used as second RJ-45 or SFP.
- If front headphone is used, the back headset is disabled.
- When monitor is connected on USB-C port, DP2 becomes inactive.
- When VGA monitor is connected on VGA optional port, DP3 becomes inactive.
- Power option is available on the first serial port.
- PCIe slot is available.

**Table 41. Ports**

Ports	DP1	DP2	DP3	VGA	USB Type-C	mDP4	mDP5	DP6
Monitor priority	1	2B <sup>1</sup>	3B <sup>2</sup>	3A <sup>2</sup>	2A <sup>1</sup>	4	5	6
4K display	Yes	Yes	Yes	No <sup>3</sup>	Yes	Yes	Yes	Yes
Non-4K display	Yes	Yes	Yes	Yes <sup>3</sup>	Yes	Yes	Yes	Yes

<sup>1</sup>DP2 and USB Type-C port are mutually exclusive with USB Type-C port taking higher priority.

<sup>2</sup>DP3 and VGA port are mutually exclusive with VGA port taking higher priority.

<sup>3</sup>VGA port supports only 1080p resolution.

**Display matrix:**

**Table 42. Wyse 5070 Extended thin client with AMD GPU**

Number of displays	Supported display resolution	
	4K resolution 3840 x 2160 @ 60 Hz	Non-4K resolution Up to 2560 x 1600 @ 60 Hz
One display	Yes	Yes
Two displays	Yes	Yes
Three displays <sup>1</sup>	Yes	Yes
Four displays	Yes	Yes
Five displays	No <sup>2</sup>	Yes
Six displays	No <sup>2</sup>	Yes

<sup>1</sup>For three displays, Dell Technologies recommends that you configure first two 4K displays on the main board (DP1~DP3), and the third 4K display on AMD GPU card.

<sup>2</sup>Support only four monitors with 4K screen resolution @ 60 Hz and the remaining displays with 2K screen resolution.

**Monitor priority**—The following order defines the monitor priority set on ThinLinux 2.2 for Wyse 5070 Extended thin client:

- DP1 > DP2 > DP3 > mDP4 > mDP5 > DP6
- DP1 > USB-C > DP3 > mDP4 > mDP5 > DP6
- DP1 > DP2 > VGA > mDP4 > mDP5 > DP6
- DP1 > USB-C > VGA > mDP4 > mDP5 > DP6

For more information about configuring multiple displays on Wyse 5070 Extended thin client, see the *Dell Wyse ThinLinux 2.2 Administrator's Guide* at [support.dell.com](http://support.dell.com).

**NOTE:** INI parameters are not supported on a multidisplay setup with more than three displays.

## Fixed issues

Table 43. Fixed Issues

Serial number	Summary
1.	Resolved an issue where you can save the <b>Manage USB Port settings</b> using the GUI option after entering an incorrect BIOS password.
2.	Resolved an issue wherein after parsing the INI <code>USB_Rule=Deny_Class Class=Storage</code> in a VMware session, the <code>VMware view Connect USB Device</code> drop-down option is listed.
3.	Resolved an issue where the mouse blinks in Mozilla Firefox browser when a YouTube video is played.
4.	Resolved an issue where a blank screen is observed when you use multiple displays with high-resolution on the Wyse 3040 thin client.
5.	Resolved an issue where desktop artifacts and the <b>Windows Start</b> menu are not displayed in an ICA session. The issue is observed when you connect a secondary display on the Wyse 3040 thin client.
6.	Resolved an issue where the Swiss German language keyboard layout does not redirect to the Citrix session.

## Known issues

Table 44. Known issues

Issue ID	Description	Workaround
TL-1197	When you connect to a Bluetooth keyboard, the keyboard does not work for the first time.	Reboot the thin client.
TL-1290	When you select a <b>window resolution</b> in the browser connection and launch the browser, the resolution reverts to <b>Default</b> .	Create a Mozilla Firefox browser connection and set the window resolution.
TL-1313	Network proxy settings do not persist after passing the Firefox proxy settings.	Set either the network proxy settings or Firefox proxy settings.
TL-1342	By default, the domain name in <b>System Information</b> is displayed as <b>Project-Id-Version:gnome-shell.master</b> for supported language builds other than English.	No workaround
TL-1234	When you connect two displays in the L-shape orientation, the Citrix session fails to launch on the secondary display.	No workaround
TL-1303	The date and time are not preserved in the <b>Date and Time</b> settings window.	First set the Time zone and then set the date and time.
TL-1338	MMR Redirection does not work for VMware (PCoIP and Blast).	Not supported by VMware with gstreamer1.0.
TL-1329	Terminal name is not preserved after imaging.	Reboot the device after imaging.
TL-1263	Domain user can log in after deleting the entry from Active Directory.	Disjoin the thin client from Active Directory before deleting the entry.
TL-1355	Device does not receive messages with special characters <b>%</b> and <b>\</b> from Wyse Management Suite. The same issue is observed when you type a message after pressing the Enter key.	No workaround
TL-1330	When you set the output device mode as <b>Headset Headunit (HSP/HFP)</b> , the Bluetooth audio is played with disturbance.	Set the audio output mode to <b>High Fidelity Playback (A2DP sink)</b> .
TL-1374	When you press the CTRL+ALT+L key, the screen lock takes approximately 10 seconds to get locked.	No workaround
LS-588	Unable to set the <b>Custom Info</b> parameters from the Wyse Management Suite server.	There is no workaround.

**Table 44. Known issues (continued)**

Issue ID	Description	Workaround
LS-607	When the INI parameters for <b>USB Devices</b> are configured on the client without the BIOS administrator password, changes that are made in BIOS settings are not applied in <b>USB Manager</b> .	Set the BIOS password.
TL-1151	802.1x settings that are configured using the GUI options are not preserved across system restarts.	Use INI parameters to configure the 802.1x settings.
TL-1140	Google Chrome is opened with the <b>Set as default browser</b> option enabled.	Set Google Chrome as the default browser. The Chrome browser works without any issues.
TL-1028	CAC is not found when you log in to the VMware Horizon session using the onboard smart card reader.	There is no workaround.
TL-1119	After doing OEM branding, the services list is displayed during the system boot.	There is no workaround.
TL-731	Wyse 5070 thin client does not automatically connect to a wireless network once the client is connected to a hidden network.	Reconnect to the wireless network after restarting the client.
TL-980	When you connect one 4K and two non-4K displays on the Wyse 5070 thin client, the values in few drop-down lists are not displayed. This issue is observed on the <b>Display</b> settings and <b>connections</b> settings pages.	There is no workaround.
TL-1088	GDM login screen remains blank when you perform imaging on a dual-display setup.	Switch to one display.
TL-1065	When you switch to the admin mode from system settings and enter the incorrect password, the <code>incorrect password</code> message is not displayed. This is not observed on English and Korean builds.	Enter the appropriate password.
TL-722	AD PAM login takes more than 10 seconds.	There is no workaround.
TL-562	The thin client login password expiry function is not supported.	Reset the password on the server side.
TL-1044	The Citrix StoreFront connection does not launch the second time if the first attempt is a failure (when the target desktop is turned off). If the desktop is turned on, you must restart the thin client.	There is no workaround.
TL-753	When you connect the display to DP2 and change the display rotation to right, you cannot move the mouse cursor to the lower edge of the screen.	Connect the display to DP1.
TL-887	Ericom show menu bar options are not displayed with the respective system languages.	There is no workaround.
TL-1164	When the Ericom Power term connection is created using the INI parameters, the COM2 port is not displayed in the <b>Port</b> section.	There is no workaround.
TL-896	When you enter a command in the Ericom console by using the keyboard, the Ericom menu bar options are getting selected.	There is no workaround.

## Limitations

### Multidisplay support on Wyse 5070 extended thin client

When you set the 2K resolution for the primary display and open **System Settings** on the same display, the drop-down menu appears blank in all features except **Display**.

To overcome this limitation, do the following:

1. Drag the System Settings window to any nonprimary display.
2. Set the primary display to 4K resolution.

## Upgrading firmware


### Upgrade ThinLinux 2.0 or 2.1 to 2.2 on Wyse 3040 thin client

#### About this task

Use Wyse Management Suite version 1.3 to upgrade the ThinLinux build version 2.0.19 or 2.1 to 2.2.

To upgrade ThinLinux by using Wyse Management Suite for Wyse 3040 thin client:

#### Steps

1. Go to [www.dell.com/support](http://www.dell.com/support).
2. Click **Product Support**, enter the **Service Tag** of your thin client, and then press Enter.  
 **NOTE:** If you do not have **Service Tag**, manually browse for your thin client model.
3. Click **Drivers and downloads**.
4. From the **Operating system** drop-down list, select **ThinLinux**.
5. Scroll down the page, and do the following:
  - Download the `wda3040_3.0.10-01_amd64.deb`, `wda_3.2.13-01_amd64.tar`, and `merlin-nonpxe_3.7.7-00.05_amd64.deb` add-ons.
  - Download the latest ThinLinux version 2.2 image file (`2.2.0.00_3040_merlin_16GB.exe`).
6. On the thin client, go to **Settings > Management > Wyse Device Agent**.
7. Register the device to the Wyse Management Suite server.
8. Log in to the Wyse Management Suite console.
9. Create and deploy app policy for `wda3040_3.0.10-01_amd64.deb`, `wda_3.2.13-01_amd64.tar`, and `merlin-nonpxe_3.7.7-00.05_amd64.deb` add-ons.
10. Reboot the thin client.
11. Log in to the Wyse Management Suite server.
12. Copy the downloaded image (`2.2.0.00_3040_merlin_16GB.exe` file) to `<drive C>/wms/localrepo/repository/osimages/zipped/`.
13. Log in to the Wyse Management Suite console.
14. Go to **Apps & Data > OS Image repository > WES/ThinLinux** and verify that the ThinLinux image is available.
15. Go to **Apps & Data > OS Image policies (WES/ThinLinux)** and click **Add Policy**.
16. Update the required fields, and click **Save**.
17. Schedule the job.
18. Click **Update now** on the client to update the image.

### Upgrade ThinLinux 2.0 or 2.1 to 2.2 on Wyse 5070 thin client

#### About this task

Use Wyse Management Suite version 1.3 to upgrade the ThinLinux build version 2.0.27, 2.1.0.0 or 2.1.0.01 to 2.2.

To upgrade ThinLinux by using Wyse Management Suite for Wyse 5070 thin client:

#### Steps

1. Go to [www.dell.com/support](http://www.dell.com/support).
2. Click **Product Support**, enter the **Service Tag** of your thin client, and then press Enter.

 **NOTE:** If you do not have **Service Tag**, manually browse for your thin client model.

3. Click **Drivers and downloads**.
4. From the **Operating system** drop-down list, select **ThinLinux**.
5. Scroll down the page, and download the latest ThinLinux version 2.2 image file (2.2.0.00\_5070\_merlin\_16GB.exe).
6. On the thin client, go to **Settings > Management > Wyse Device Agent**.
7. Register the device to the Wyse Management Suite server.
8. Log in to the Wyse Management Suite server.
9. Copy the downloaded image (2.2.0.00\_5070\_merlin\_16GB.exe file) to <drive C>/wms/localrepo/repository/osimages/zipped/.
10. Log in to the Wyse Management Suite console.
11. Go to **Apps & Data > OS Image repository > WES/ThinLinux** and verify that the ThinLinux image is available.
12. Go to **Apps & Data > OS Image policies (WES/ThinLinux)** and click **Add Policy**.
13. Update the required fields, and click **Save**.
14. Schedule the job.
15. Click **Update now** on the client to update the image.


## Upgrade ThinLinux 1.0.4 to 2.2 on Wyse 3040 thin client

### About this task

Use Wyse Management Suite version 1.3 to upgrade the ThinLinux build version 1.0.4 to 2.2.

To upgrade ThinLinux by using Wyse Management Suite:

### Steps

1. Go to [www.dell.com/support](http://www.dell.com/support).
2. Click **Product Support**, enter the **Service Tag** of your thin client, and then press Enter.  
 **NOTE:** If you do not have **Service Tag**, manually browse for your thin client model.
3. Click **Drivers and downloads**.
4. From the **Operating system** drop-down list, select **ThinLinux**.
5. Scroll down the page, and do the following:
  - Download the Platform\_util-1.0.26-0.3.x86\_64.rpm, wda-2.1.23-00.01.x86\_64.rpm, and merlin\_nonpxe-3.7.7-00.05.x86\_64.rpm add-ons.
  - Download the latest ThinLinux version 2.2 image file (2.2.0.00\_3040\_merlin\_16GB.exe).
6. On the thin client, go to **Settings > Management > Wyse Device Agent**.
7. Register the device to the Wyse Management Suite server.
8. Log in to the Wyse Management Suite console.
9. Create and deploy app policy for Platform\_util-1.0.26-0.3.x86\_64.rpm, wda-2.1.23-00.01.x86\_64.rpm, and merlin\_nonpxe-3.7.7-00.05.x86\_64.rpm.
10. Reboot the thin client.
11. Log in to the Wyse Management Suite server.
12. Copy the downloaded image (2.2.0.00\_3040\_merlin\_16GB.exe file) to <drive C>/wms/localrepo/repository/osimages/zipped/.
13. Log in to the Wyse Management Suite console.
14. Go to **Apps & Data > OS Image repository > WES/ThinLinux** and verify that the ThinLinux image is available.
15. Go to **Apps & Data > OS Image policies (WES/ThinLinux)** and click **Add Policy**.
16. Update the required fields, and click **Save**.
17. Schedule the job.
18. Click **Update now** on the client to update the image.


# Upgrade ThinLinux 1.0.7.1 to 2.2 on Wyse 3040 thin client

## About this task

Use Wyse Management Suite version 1.3 to upgrade the ThinLinux build version 1.0.7.1 to 2.2.

To upgrade ThinLinux by using Wyse Management Suite:

## Steps

1. Go to [www.dell.com/support](http://www.dell.com/support).
2. Click **Product Support**, enter the **Service Tag** of your thin client, and then press Enter.  
 **NOTE:** If you do not have **Service Tag**, manually browse for your thin client model.
3. Click **Drivers and downloads**.
4. From the **Operating system** drop-down list, select **ThinLinux**.
5. Scroll down the page, and do the following:
  - Download the `merlin_nonpxe-3.7.7-00.05.x86_64.rpm` add-on.
  - Download the latest ThinLinux version 2.2 image file (`2.2.0.00_3040_merlin_16GB.exe`).
6. On the thin client, go to **Settings > Management > Wyse Device Agent**.
7. Register the device to the Wyse Management Suite server.
8. Log in to the Wyse Management Suite console.
9. Create and deploy app policy for `merlin_nonpxe-3.7.7-00.05.x86_64.rpm`.
10. Reboot the thin client.
11. Log in to the Wyse Management Suite server.
12. Copy the downloaded image (`2.2.0.00_3040_merlin_16GB.exe` file) to `<drive C>/wms/localrepo/repository/osimages/zipped/`.
13. Log in to the Wyse Management Suite console.
14. Go to **Apps & Data > OS Image repository > WES/ThinLinux** and verify that the ThinLinux image is available.
15. Go to **Apps & Data > OS Image policies (WES/ThinLinux)** and click **Add Policy**.
16. Update the required fields, and click **Save**.
17. Schedule the job.
18. Click **Update now** on the client to update the image.

# ThinLinux security update for JavaFX libraries and Point-to-Point Protocol Daemon

## Topics:

- [Release summary](#)
- [Compatibility](#)
- [New and enhanced features](#)
- [Fixed issues](#)
- [Third party licenses](#)
- [License Type Details](#)

## Release summary

This release notes contains information about the add-on that includes fixes from Oracle's JavaFX libraries for libsqlite, libxlst, xlstproc, and Point-to-Point Protocol (PPP) daemon packages. This security update is supported on Wyse 3040 Thin Client, Wyse 5070 Thin Client, and Wyse 5470 Thin Client that runs the ThinLinux version 2.2.1.01 operating system.

## Version

vulnerability-fix\_1.0.0-00-01

## Release date

April 2020

## Compatibility

### Supported platforms

**Table 45. Supported platforms**

Platform name	Memory configuration		BIOS version
	RAM size	Flash size	
Wyse 5070 Thin Client with Celeron processor	16 GB	4 GB	1.3.1
Wyse 5070 Thin Client with Pentium processor	16 GB	4 GB	1.3.1
Wyse 5070 Extended Thin Client	16 GB	4 GB	1.3.1
Wyse 3040 Thin Client	16 GB	2 GB	1.2.5
Wyse 5470 Thin Client	16 GB	4 GB	1.1.1

## Supported build versions

**Table 46. Supported build versions**


Platform name	Supported build version
Dell Wyse 3040 Thin Client	ThinLinux 2.2.1.01
Dell Wyse 5070 Thin Client	ThinLinux 2.2.1.01
Dell Wyse 5470 Thin Client	ThinLinux 2.2.1.01

## Add-on details

### Debian package

- Build File Name—`vulnerability-fix_1.0.0-00-01_amd64`
- Size (Bytes)— 892,138 bytes

For information about installing this add-on, see [Installing add-ons](#).

 **NOTE:** The add-on installation using Wyse Device Manager (WDM) is not supported.

## New and enhanced features

This security update add-on includes fixes for `libsqlite`, `libxslt`, `xsltproc`, and Point-to-Point Protocol (PPP) daemon packages. The following packages are upgraded in this release:

**Table 47. Package upgrade details**

Package Details	Upgraded versions
<code>libxslt</code>	1.1.28-2.1ubuntu0.3
<code>xsltproc</code>	1.1.28-2.1ubuntu0.3
<code>libsqlite</code>	3.11.0-1ubuntu1.3
<code>ppp</code>	2.4.7-1+2ubuntu1.16.04.2

## Fixed issues

The following security vulnerabilities are fixed in this release:

**Table 48. Security Vulnerabilities**

Security vulnerability	Component	Website link
CVE-2019-13117	<code>libxslt</code> 1.1.33	Go to <a href="https://nvd.nist.gov/">https://nvd.nist.gov/</a> and search for CVE-2019-13117.
CVE-2019-13118	<code>libxslt</code> 1.1.33	Go to <a href="https://nvd.nist.gov/">https://nvd.nist.gov/</a> and search for CVE-2019-13118.
CVE-2019-16168	SQLite through 3.29.0	Go to <a href="https://nvd.nist.gov/">https://nvd.nist.gov/</a> and search for CVE-2019-16168.
CVE-2020-8597	Point-to-Point Protocol (PPP) - daemon, <code>ppp</code> 2.4.7-1+2ubuntu1.16.04.1	Go to <a href="https://nvd.nist.gov/">https://nvd.nist.gov/</a> and search for CVE-2020-8597.



# Third party licenses

Table 49. Third party licenses

Component name	License type
libxslt 1.1.33	MIT
SQLite through 3.29.0	GPL-2+
Point-to-Point Protocol (PPP) - daemon, ppp 2.4.7-1+2ubuntu1.16.04.1	Multiple GPL

## License Type Details

### MIT

This package was debianized by Nicolás Lichtmaier <nick@debian.org> on Thu, 22 Feb 2001 23:09:08 -0300. The current package maintainer is Ardo van Rangelooij <ardo@debian.org>. This package's upstream homepage is <http://xmlsoft.org/XSLT/> Upstream Author: Daniel Veillard <Daniel.Veillard@imag.fr> Copyright: Licence for libxslt except libxslt ----- Copyright (C) 2001-2002 Daniel Veillard. All Rights Reserved. Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE DANIEL VEILLARD BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. Except as contained in this notice, the name of Daniel Veillard shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from him. ----- Licence for libxslt ----- Copyright (C) 2001-2002 Thomas Broyer, Charlie Bozeman and Daniel Veillard. All Rights Reserved. Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. Except as contained in this notice, the name of the authors shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from him. -----

### GPL-2+

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/> Upstream-Name: sqlite3 Source: <http://www.sqlite.org/cgi/src/dir?ci=trunk> Files: \* Copyright: D. Richard Hipp <drh@hwaci.com> License: public-domain The files listed have been put on the public domain by the sqlite3 contributors. Files: debian/\* Copyright: 2006- Laszlo Boszormenyi (GCS) <gcs@debian.org>, 2005-2006 Tomas Fasth <tomfa@debian.org>, 2001-2005 Andreas Rottmann <rotty@debian.org> License: GPL-2+ This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License version 2 as published by the Free Software Foundation. . This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details. . You should have received a copy of the GNU General Public License along with this package; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA . On Debian systems, the full text of the GNU General Public License version 2 can be found in the file `/usr/share/common-licenses/GPL-2!`.

## Multiple GPL

This is the Debian GNU/Linux prepackaged version of ppp. This package was previously maintained by Ian Murdock <imurdock@debian.org>, Alvar Bray <alvar@debian.org>, Christoph Lameter <clameter@debian.org>, Philip Hands <phil@hands.com>, Michael Beattie <mjb@debian.org> and Russell Coker <russell@coker.com.au>. It is currently maintained by Marco d'Itri <md@linux.it> and Chris Boot <bootc@debian.org>. Original sources were obtained from: [git://ozlabs.org/~paulus/ppp.git](https://git.ozlabs.org/~paulus/ppp.git) The options file was originally obtained from: <ftp://sunsite.unc.edu/pub/Linux/system/Network/serial/pppopt.tgz> It was later heavily modified by various people, with additions from different sources. All of the code can be freely used and redistributed. The individual source files each have their own copyright and permission notice; some have a BSD-style notice and some are under the GPL. Follows the BSD-like licenses. Not all of them apply to all parts of pppd.

**\* Copyright (c) 2003 Paul Mackerras. All rights reserved.**

**\*\* Redistribution and use in source and binary forms, with or without \* modification, are permitted provided that the following conditions \* are met:**

- \*\* 1. Redistributions of source code must retain the above copyright \* notice, this list of conditions and the following disclaimer.**
- \*\* 2. The name(s) of the authors of this software must not be used to \* endorse or promote products derived from this software without \* prior written permission.**
- \*\* 3. Redistributions of any form whatsoever must retain the following \* acknowledgment: \* "This product includes software developed by Paul Mackerras \* <paulus@samba.org>".**

**\*\* THE AUTHORS OF THIS SOFTWARE DISCLAIM ALL WARRANTIES WITH REGARD TO \* THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY \* AND FITNESS, IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY \* SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES \* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN \* AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING \* OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.**

**\* Copyright (c) 1995 Pedro Roque Marques. All rights reserved.**

**\*\* Redistribution and use in source and binary forms, with or without \* modification, are permitted provided that the following conditions \* are met:**

- \*\* 1. Redistributions of source code must retain the above copyright \* notice, this list of conditions and the following disclaimer.**
- \*\* 2. Redistributions in binary form must reproduce the above copyright \* notice, this list of conditions and the following disclaimer in \* the documentation and/or other materials provided with the \* distribution.**
- \*\* 3. The names of the authors of this software must not be used to \* endorse or promote products derived from this software without \* prior written permission.**
- \*\* 4. Redistributions of any form whatsoever must retain the following \* acknowledgment: \* "This product includes software developed by Pedro Roque Marques \* <pedro\_m@yahoo.com>".**

**\*\* THE AUTHORS OF THIS SOFTWARE DISCLAIM ALL WARRANTIES WITH REGARD TO \* THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY \* AND FITNESS, IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY \* SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES \* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN \* AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING \* OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.**

**\* Copyright (c) 1995 Eric Rosenquist. All rights reserved.**

**\*\* Redistribution and use in source and binary forms, with or without \* modification, are permitted provided that the following conditions \* are met:**

- \*\* 1. Redistributions of source code must retain the above copyright \* notice, this list of conditions and the following disclaimer.**
- \*\* 2. Redistributions in binary form must reproduce the above copyright \* notice, this list of conditions and the following disclaimer in \* the documentation and/or other materials provided with the \* distribution.**
- \*\* 3. The name(s) of the authors of this software must not be used to \* endorse or promote products derived from this software without \* prior written permission.**

**\*\* THE AUTHORS OF THIS SOFTWARE DISCLAIM ALL WARRANTIES WITH REGARD TO \* THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY \* AND FITNESS, IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY \* SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES \* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN \* AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING \* OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.**

**\* Copyright (c) 2002 Google, Inc. All rights reserved.**

**\*\* Redistribution and use in source and binary forms, with or without \* modification, are permitted provided that the following conditions \* are met:**

- \*\* 1. Redistributions of source code must retain the above copyright \* notice, this list of conditions and the following disclaimer.**
- \*\* 2. Redistributions in binary form must reproduce the above copyright \* notice, this list of conditions and the following disclaimer in \* the documentation and/or other materials provided with the \* distribution.**
- \*\* 3. The name(s) of the authors of this software must not be used to \* endorse or promote products derived from this software without \* prior written permission.**

**\*\* THE AUTHORS OF THIS SOFTWARE DISCLAIM ALL WARRANTIES WITH REGARD TO \* THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY \* AND FITNESS, IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY \* SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES \* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN \* AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING \* OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.**

**\* Copyright (c) 2001 by Sun Microsystems, Inc. \* All rights reserved.**

**\*\* Non-exclusive rights to redistribute, modify, translate, and use \* this software in source and binary forms, in whole or in part, is \* hereby granted, provided that the above copyright notice is \* duplicated in any source form, and that neither the name of the \* copyright holder nor the author is used to endorse or promote \* products derived from this software. \*\***

**THIS SOFTWARE IS PROVIDED ``AS IS" AND WITHOUT ANY EXPRESS OR \* IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED \* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

**\* Copyright (c) 1999 Tommi Komulainen. All rights reserved.**

**\*\* Redistribution and use in source and binary forms, with or without \* modification, are permitted provided that the following conditions \* are met:**

- \*\* 1. Redistributions of source code must retain the above copyright \* notice, this list of conditions and the following disclaimer.**
- \*\* 2. Redistributions in binary form must reproduce the above copyright \* notice, this list of conditions and the following disclaimer in \* the documentation and/or other materials provided with the \* distribution.**
- \*\* 3. The name(s) of the authors of this software must not be used to \***

endorse or promote products derived from this software without \* prior written permission. \* \* 4. Redistributions of any form whatsoever must retain the following \* acknowledgment: \* "This product includes software developed by Tommi Komulainen \* <Tommi.Komulainen@iki.fi>". \* \* THE AUTHORS OF THIS SOFTWARE DISCLAIM ALL WARRANTIES WITH REGARD TO \* THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY \* AND FITNESS, IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY \* SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES \* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN \* AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING \* OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. \* Copyright (c) 1984-2000 Carnegie Mellon University. All rights reserved. \* \* Redistribution and use in source and binary forms, with or without \* modification, are permitted provided that the following conditions \* are met: \* \* 1. Redistributions of source code must retain the above copyright \* notice, this list of conditions and the following disclaimer. \* \* 2. Redistributions in binary form must reproduce the above copyright \* notice, this list of conditions and the following disclaimer in \* the documentation and/or other materials provided with the \* distribution. \* \* 3. The name "Carnegie Mellon University" must not be used to \* endorse or promote products derived from this software without \* prior written permission. For permission or any legal \* details, please contact \* Office of Technology Transfer \* Carnegie Mellon University \* 5000 Forbes Avenue \* Pittsburgh, PA 15213-3890 \* (412) 268-4387, fax: (412) 268-7395 \* tech-transfer@andrew.cmu.edu \* \* 4. Redistributions of any form whatsoever must retain the following \* acknowledgment: \* "This product includes software developed by Computing Services \* at Carnegie Mellon University (<http://www.cmu.edu/computing/>)." \* \* CARNEGIE MELLON UNIVERSITY DISCLAIMS ALL WARRANTIES WITH REGARD TO \* THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY \* AND FITNESS, IN NO EVENT SHALL CARNEGIE MELLON UNIVERSITY BE LIABLE \* FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES \* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN \* AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING \* OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. \*\*\*\*\* \* \* Copyright (C) 1990, RSA Data Security, Inc. All rights reserved. \* \* \* \* \* License to copy and use this software is granted provided that \* \* \* \* it is identified as the "RSA Data Security, Inc. MD5 Message- \* \* \* \* Digest Algorithm" in all material mentioning or referencing this \* \* \* \* software or this function. \* \* \* \* \* License is also granted to make and use derivative works \* \* \* \* provided that such works are identified as "derived from the RSA \* \* \* \* Data Security, Inc. MD5 Message-Digest Algorithm" in all \* \* \* \* material mentioning or referencing the derived work. \* \* \* \* \* RSA Data Security, Inc. makes no representations concerning \* \* \* \* either the merchantability of this software or the suitability \* \* \* \* of this software for any particular purpose. It is provided "as \* \* \* \* is" without express or implied warranty of any kind. \* \* \* \* \* These notices must be retained in any copies of any part of this \* \* \* \* documentation and/or software. \* \* \*\*\*\*\* The `chat' program is in the public domain. spinlock.c and tdb.c are licensed under the GNU LGPL version 2 or later and they are: Copyright (C) Anton Blanchard 2001 Copyright (C) Andrew Tridgell 1999-2004 Copyright (C) Paul `Rusty' Russell 2000 Copyright (C) Jeremy Allison 2000-2003 On Debian systems, the complete text of the GNU General Public License version 2 can be found in `/usr/share/common-licenses/GPL-2'. pppd/plugins/rp-pppoe/\* is: \* Copyright (C) 2000 by Roaring Penguin Software Inc. \* \* This program may be distributed according to the terms of the GNU \* General Public License, version 2 or (at your option) any later version. The rp-pppoe author stated in a private email to Marco d'Itri that, as an exception to the license, linking with OpenSSL is allowed. pppd/plugins/winbind.c is licensed under the GNU GPL version 2 or later and is: \* Copyright (C) 2003 Andrew Bartlet <abartlet@samba.org> \* Copyright 1999 Paul Mackerras, Alan Curry. \* Copyright (C) 2002 Roaring Penguin Software Inc. pppd/plugins/pppoeatm.c is licensed under the GNU GPL version 2 or later and is: \* Copyright 2000 Mitchell Blank Jr. The following copyright notices apply to plugins/radius/\*: Copyright (C) 2002 Roaring Penguin Software Inc. Permission to use, copy, modify, and distribute this software for any purpose and without fee is hereby granted, provided that this copyright and permission notice appear on all copies and supporting documentation, the name of Roaring Penguin Software Inc. not be used in advertising or publicity pertaining to distribution of the program without specific prior permission, and notice be given in supporting documentation that copying and distribution is by permission of Roaring Penguin Software Inc.. Roaring Penguin Software Inc. makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty. Copyright (C) 1995,1996,1997,1998 Lars Fenneberg <lf@elemental.net> Permission to use, copy, modify, and distribute this software for any purpose and without fee is hereby granted, provided that this copyright and permission notice appear on all copies and supporting documentation, the name of Lars Fenneberg not be used in advertising or publicity pertaining to distribution of the program without specific prior permission, and notice be given in supporting documentation that copying and distribution is by permission of Lars Fenneberg. Lars Fenneberg makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty. Copyright 1992 Livingston Enterprises, Inc. Livingston Enterprises, Inc. 6920 Koll Center Parkway Pleasanton, CA 94566 Permission to use, copy, modify, and distribute this software for any purpose and without fee is hereby granted, provided that this copyright and permission notice appear on all copies and supporting documentation, the name of Livingston Enterprises, Inc. not be used in advertising or publicity pertaining to distribution of the program without specific prior permission, and notice be given in supporting documentation that copying and distribution is by permission of Livingston Enterprises, Inc. Livingston Enterprises, Inc. makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty. [C] The Regents of the University of Michigan and Merit Network, Inc. 1992, 1993, 1994, 1995 All Rights Reserved Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies of the software and derivative works or modified versions thereof, and that both the copyright notice and this permission and disclaimer notice appear in supporting documentation. THIS SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY AND

FITNESS FOR A PARTICULAR PURPOSE. THE REGENTS OF THE UNIVERSITY OF MICHIGAN AND MERIT NETWORK, INC. DO NOT WARRANT THAT THE FUNCTIONS CONTAINED IN THE SOFTWARE WILL MEET LICENSEE'S REQUIREMENTS OR THAT OPERATION WILL BE UNINTERRUPTED OR ERROR FREE. The Regents of the University of Michigan and Merit Network, Inc. shall not be liable for any special, indirect, incidental or consequential damages with respect to any claim by Licensee or any third party arising from use of the software. Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All rights reserved. License to copy and use this software is granted provided that it is identified as the "RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing this software or this function. License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing the derived work. RSA Data Security, Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind. These notices must be retained in any copies of any part of this documentation and/or software. \* radius.c \* \* Copyright (C) 2002 Roaring Penguin Software Inc. \* \* This plugin may be distributed according to the terms of the GNU \* General Public License, version 2 or (at your option) any later version.

# Citrix Workspace app 1912 add-on

## Topics:

- [Release summary](#)
- [Compatibility](#)
- [New and enhanced features](#)
- [Important notes](#)
- [Known issues](#)

## Release summary

This release note contains information about the add-on to update Citrix Receiver 13.10.x to Citrix Workspace 1912. This add-on is supported on Wyse 3040 thin client, Wyse 5070 thin client, and Wyse 5470 thin client that runs the ThinLinux version 2.2.1.01 operating system.

## Version

ICA 19.12.0

## Release date

March 2020

## 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 50. Supported platforms**

Platform name	Memory configuration		BIOS version
	RAM size	Flash size	
Wyse 5070 Thin Client with Celeron processor	16 GB	4 GB	1.3.1
Wyse 5070 Thin Client with Pentium processor	16 GB	4 GB	1.3.1
Wyse 5070 Extended Thin Client	16 GB	4 GB	1.3.1
Wyse 3040 Thin Client	16 GB	2 GB	1.2.5
Wyse 5470 Thin Client	16 GB	4 GB	1.1.1

## Supported build versions

**Table 51. Supported build versions**

Platform name	Supported build version
Dell Wyse 3040 Thin Client	ThinLinux 2.2.1.01
Dell Wyse 5070 Thin Client	ThinLinux 2.2.1.01
Dell Wyse 5470 Thin Client	ThinLinux 2.2.1.01

## Add-on details

- Debian package
  - Build File Name—ica\_19.12.0.19-02\_amd64.deb
  - Size (Bytes)—67962,924 bytes
- RSP package
  - Build File Name—ica\_19.12.0.19-02\_amd64.zip
  - Size (Bytes)—67964,903 bytes

## New and enhanced features

Citrix Workspace app enables you to access your applications and desktops using Citrix Virtual Apps and Desktops from a remote device. You can use Citrix Workspace app on domain and non-domain joined thin clients. For more information, see the *Citrix Workspace app for Linux* article at [docs.citrix.com](https://docs.citrix.com).

## Important notes

### Tested environment

**Table 52. Tested environment**

VDI Version	Desktop and server operating systems			Applications
	Windows 10 Enterprise	Windows Server 2012 R2	Windows Server 2016	
Xen Desktop 7.18	Yes	Yes	Yes	Yes
Citrix Virtual Apps\Desktop 1912	Yes	Yes	Yes	Yes

## Known issues

**Table 53. Known issues**

Issue ID	Description	Workaround
TL344	Drive mapping does not work in Citrix global settings.	There is no workaround in this release.
TL345	The RSP package does not work when the add-on is pushed from Wyse Management Suite for Wyse 5470 thin client.	Install the Debian package for Wyse 5470 thin client.
TL346	Smart card does not work when desktops and applications are launched using the Firefox browser.	There is no workaround in this release.
TL347	The keyboard layout synchronization between the client and the VDA feature does not work.	There is no workaround in this release.

**Table 53. Known issues (continued)**

<b>Issue ID</b>	<b>Description</b>	<b>Workaround</b>
TL365	App indicator icon does not work.	There is no workaround in this release.
TL348	The Transparent User Interface message does not close after launching the desktop.	There is no workaround in this release.
TL349	Published applications do not work when connection with multiple IPs or FQDN is established.	There is no workaround in this release.
TL350	PAM login does not work when a connection with two server IPs is created.	There is no workaround in this release.

# VMware Horizon View Client version 5.1 add-on

## Topics:

- [Release summary](#)
- [Compatibility](#)
- [New and enhanced features](#)
- [Fixed issues](#)
- [Known issues](#)
- [Important notes](#)

## Release summary

This release notes contains information about the add-on to update VMware Horizon View Client to the latest version 5.1. This add-on is supported on Wyse 3040 and Wyse 5070 Thin Clients with ThinLinux version 2.2.0.01, and Wyse 5470 Thin Clients with ThinLinux version 2.2.1.00.

## Version

5.1

## Release date

October 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 54. Supported platforms**

Platform	Memory Configuration		BIOS version
	Flash size	RAM size	
Wyse 3040 Thin Client	16 GB	2 GB	1.2.5
Wyse 5070 Thin Client	16 GB	4 GB	1.2.4
Wyse 5470 Thin Client	16 GB	4 GB	1.1.1



# Supported operating systems

Table 55. Supported operating systems

Platform	Operating system	Version—English Standard build
Wyse 3040 Thin Client	ThinLinux	2.2.0.01-11.32623
Wyse 5070 Thin Client	ThinLinux	2.2.0.01-11.32623
Wyse 5470 Thin Client	ThinLinux	2.2.1.00-07.32645

## Add-on details

- Debian add-on
  - File name—vmware-viewclient\_5.1.0-13956721-00.03\_amd64.deb
  - File size— 146,271,198 bytes
- RSP add-on
  - File name—vmware-viewclient\_5.1.0-13956721-00.03\_amd64.zip
  - File size— 146,273,713 bytes

## New and enhanced features

- VMware Integrated Printing feature  
You can use the VMware Integrated Printing feature to print to a network printer or a locally attached printer from a remote desktop. This feature requires Horizon Agent 7.9.
- Select specific monitors for published applications  
In a multiple-monitor configuration, you can select the monitors on which to display the published windows application.
- Expanded support for serial port redirection  
Serial port redirection is supported for Windows 7 and Windows 10 virtual desktops that have Horizon Agent 7.9 installed with the serial port redirection option enabled. The PCoIP protocol is fully validated and supported for serial port redirection.
- Support for HTML5 Multimedia Redirection  
Horizon Client for Linux supports the redirection of multimedia content to the client system from a Google Chrome or Microsoft Edge browser running on a remote desktop. This redirection reduces the load on the ESXi host and improves the audio and video experience.

For more information about the VMware Horizon View client 5.1 features, see the *VMware Horizon Client 5.1 for Linux Release Notes* at <https://docs.vmware.com/>.

## Fixed issues

Table 56. Fixed issue

Issue ID	Issue Description
TL-217	Fixed an issue where the printer is not able to redirect through the network and USB printer in a VMware session.
TL-104	Fixed as issue where the VMware Horizon client window is not closed in Dell Wyse 3040 and 5070 Thin Clients when the <b>Disable exit on disconnect</b> option is in OFF state.

# Known issues

**Table 57. Known issues**

Issue ID	Description	Workaround
TL262	Select specific monitors for published applications fails to function with four monitor setup during RDP, Blast, and PCoIP sessions.	There is no workaround in this release .
TL263	Installation.rsp add-on is not working in Wyse Management Suite for Dell Wyse 5470 Thin Client.	There is no workaround in this release.
TL266	USB local printer is not working in a VMware RDP session.	There is no workaround in this release.
TL267	Network printer is not listed under devices and printers. However, you can print from notepad and other applications.	There is no workaround in this release.
TL268	HTML5 redirection does not work in view sessions using PCoIP, blast, and RDP.	There is no workaround in this release.

# Important notes

You cannot use Wyse Device Manager to install the VMware Horizon View Client version 5.1 add-on on your thin client.

# Tested environment

**Table 58. Tested environment**

VDI Version	Desktop			Server operating system		Applications
	Windows 7 Enterprise	Windows 8.1 Enterprise	Windows 10 Enterprise	Windows 2012 R2	Windows 2016	
VMWare Horizon 7.8	Yes	Yes	Yes	Yes		Yes
VMWare Horizon 7.9	Yes		Yes	Yes		Yes

# VMware Horizon View Client version 5.0 add-on

## Topics:

- [Release summary](#)
- [Compatibility](#)
- [New and enhanced features](#)
- [Known issues](#)

## Release summary

This release notes contains information about the add-on to update VMware Horizon View Client to the latest version 5.0. This add-on is supported on Wyse 3040 thin client and Wyse 5070 thin client running ThinLinux version 2.2 operating system.

 **NOTE:** You cannot install the add-on using Wyse Device Manager (WDM).

## Version

5.0

## Release date

May 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 59. Supported platforms**

Platform	Memory Configuration		BIOS version
	Flash size	RAM size	
Wyse 3040 thin client	16 GB	2 GB	1.2.5
Wyse 5070 thin client	16 GB	4 GB	1.1.4

## Previous versions

4.10

## Supported operating systems

**Table 60. Supported operating systems**

Platform	Operating system	Version—English Standard build
Wyse 3040 thin client	ThinLinux	2.2.0.00-11.32506
Wyse 5070 thin client	ThinLinux	2.2.0.00-11.32506

## Add-on details

- Debian add-on
  - File name—vmware-viewclient\_ 5.0.0-12557422-00.02\_amd64.deb
  - File size—26,727,892 bytes
- RSP add-on
  - File name—vmware-viewclient\_ 5.0.0-12557422-00.02\_amd64.zip
  - File size—26,730,405 bytes

## New and enhanced features

- Enhanced Horizon Client User Interface.
- Ability to start multiple desktops and applications within a single client session. This feature is applicable when you use the `--use Existing` command line option to start resources.
- Enhanced support for multiple-display configurations. The full-screen display dynamically updates when you change the local display configuration during a client session.
- Changes to the domain security. Depending on the server configuration, you might need to enter a domain in the username text box when you log in to the Horizon 7 version 7.8 server from Horizon Client

For more information about the VMware Horizon View client 5.0 features, see the *VMware Horizon Client 5.0 for Linux Release Notes* at [docs.vmware.com](https://docs.vmware.com).

## Known issues

**Table 61. Known issues**

Issue ID	Description	Workaround
TL86	Enhanced support for multi-display configurations does not work for four displays during RDP, Blast, and PCoIP sessions.	There is no workaround in this release.
TL87	Occasionally, the Copy and Paste feature does not work during a PCoIP session.	There is no workaround in this release.
TL103	In a dual monitor configuration, a split screen is observed when you log off and log in to an RDP session.	There is no workaround in this release.
TL160	Installation fails when you deploy the add-on using the WDM server.	There is no workaround in this release.

# Installing add-ons

## Topics:

- [Downloading the installation file](#)
- [Install add-on using Wyse Management Suite](#)
- [Install add-on using Wyse Device Manager](#)
- [Install the add-on manually using ThinLinux](#)
- [Install the add-on manually using ThinLinux INI parameter](#)

## Downloading the installation file

### Steps

1. Go to [www.dell.com/support](http://www.dell.com/support).
2. In the **Enter a Service Tag, Serial Number, Service Request...** field, type the Service Tag or the model number of your device, and click **Search**.
3. On the product support page, click **Drivers & downloads**.
4. Select the appropriate operating system.
5. From the list, locate the file entry and click the download icon.

## Install add-on using Wyse Management Suite

### Prerequisites

Ensure that you download either the DEB file or RSP file of the add-on based on your preference:

- If you download the DEB file, add the file to `C:\WMS\LocalRepo\repository\thinClientApps` repository on the Wyse Management Suite server.
- If you download the RSP file, add the compressed ZIP folder to `C:\WMS\LocalRepo\repository\rspPackages\zipped` repository on the Wyse Management Suite server and wait for 2-3 minutes. The compressed folder is extracted automatically, and the extracted files are copied to `C:\WMS\LocalRepo\repository\rspPackages\valid`.

On Wyse 3040 thin client, you must install Wyse Device Agent (WDA) 3.2.13-01 or later versions. To update WDA to 3.2.13-01 or later versions, the thin client must have the WDA version 3.0.10-01.

### About this task

This section describes the steps to install the add-on using Wyse Management Suite version 1.2 or later:

### Steps

1. Log in to Wyse Management Suite.
2. Click **Portal Administration**, and then click **File Repository** under **Console Settings**.
3. Select the **Local Repository** check box.
4. Click **Sync Files**.  
Wait for the synchronization process to complete. The synchronization process copies the package from the repository to **Apps and Data**.
5. Click **Apps and Data**.  
The **Apps and Data** page is displayed.
6. Verify the copied package in the applications list.
7. To create a group in the Wyse Management Suite server, click **Groups & Configs**.

The **Groups & Configs** page is displayed.

8. Click the **Plus sign (+)** button and enter the required details to register your client in the same group.
9. Click **Apps and Data**.  
The **Apps and Data** page is displayed.
10. Click **Thin Clients** under **App Policies**.
11. Click **Add Policy** to add the policy to the required group.
12. Update the required fields, and then click **Save**.  
An **Alert** window is displayed.
13. Click **Yes**.  
The lock screen is displayed during the package installation process on all the thin clients. The package is deployed immediately.

## Install add-on using Wyse Device Manager

### Prerequisites

Copy the RSP file to the Wyse Device Manager server. The copied RSP file is included in the ZIP file.

### About this task

This section describes the steps to install the add-on by using Wyse Device Manager (WDM).

### Steps

1. Launch Wyse Device Manager and log in using valid credentials.
2. Click **Applications** in the Dell Wyse Device Manager dashboard page.  
The options **Images**, **Other Packages**, **Agent Update**, **Device Configuration**, and **PCoIP Device Configuration** are displayed.
3. Select **Other Packages**.
4. Click **Create Package Plus (+)**.  
The application prompts to download the Package Register utility.
5. Click **Allow**.  
The **Create Package** window is displayed.
6. Download the ZIP file on your local repository.
7. Navigate to the folder, and run the **Package Register** utility file.  
The **WDM Package Registration Utility** window is displayed.
8. Enter WDM server address and user credentials in the respective fields.
9. Select **RSP** to register, and click **Browse**.  
The **WDM Package Uploader** window is displayed with the progress status bar.
10. Click **Open**.  
The list of selected packages is displayed.
11. Select the packages that you want to register, and click **Upload**.  
The status is displayed as **Success**.
12. Schedule the package to the target client.
13. Click **Devices** and select the **Device ID** check box.
14. Click **Update**, and select the preferred package.
15. Click **Save**.  
The add-ons installation is scheduled to the device and the add-on is installed to thin client.

## Install the add-on manually using ThinLinux

### About this task

This section describes the steps to install the add-on by using the ThinLinux UI.

## Steps

1. Copy the add-on and the directory file to the `<root path>\add-ons` folder.
2. Log in to the thin client.
3. To enter into the **Admin mode**, click the **Switch to Admin** button.
4. Enter the default password.  
The default password is admin.
5. Click the **Settings** icon on the desktop.  
The **System Settings** page is displayed.
6. Click the **System** icon.
7. Click **Update settings**.
8. To enable the **Set update server manually** option, click the **ON/OFF** button.
9. Enter the URL address of the specified server in the **Update Server URL** box.  
You can also enter the user name and password of the specified server in the **Update Server User Name** and **Update Server Password** box.
10. Click **Addons**.
11. Click the **Plus sign (+)** button, to install the add-ons.
12. Select the add-ons.
13. Click **Save**.  
The add-on is installed on the thin client.

# Install the add-on manually using ThinLinux INI parameter

## About this task

This section describes the steps to install the add-on by using INI parameters.

## Steps

1. Copy the add-on and the directory file to the `<root path>\add-ons` folder.
2. To install the add-on, add the following INI parameter:  
**InstallAddons=<deb file>** in `wlx.ini`.
3. Log in to the thin client.
4. To enter into the **Admin mode**, click the **Switch to Admin** button.
5. Enter the default password.  
The default password is admin.
6. Click the **Settings** icon on the desktop.  
The **System Settings** page is displayed.
7. Click the **Management** icon.
8. Click **INI**.  
The **Manage INI Configuration** page is displayed.
9. From the drop-down list, select the configuration source and provide the server details.
10. Click **Save**.  
The following message is displayed:  
**System Upgradation complete. Machine will reboot now. Count down timer starts with 10 sec.**
11. Click **OK**.  
The add-on is installed on the thin client and the system restarts.

## Resources and support

### Accessing documents using the product search

1. Go to [www.dell.com/support](http://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.
4. Click **Documentation**.

### Accessing documents using product selector

You can also access documents by selecting your product.

1. Go to [www.dell.com/support](http://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 **Documentation**.

#### Topics:

- [Additional resources](#)

## Additional resources

**Table 62. Additional resources**

Resource	Content
Dell support website— <a href="http://www.dell.com/manuals">www.dell.com/manuals</a> .	Administrator's Guide, INI Reference Guide, and Release Notes.
Citrix support website— <a href="http://docs.citrix.com">docs.citrix.com</a> .	Documentation for Citrix software.
VMware support website— <a href="http://docs.vmware.com">docs.vmware.com</a> .	Documentation for VMware software.
Microsoft support website— <a href="http://support.microsoft.com">support.microsoft.com</a> .	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](http://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.