

Dell Wyse Management Suite

Version 3.x Release Notes



Notes, cautions, and warnings

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

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

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

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Release summary

Wyse Management Suite is the next generation management solution that enables organizations to centrally configure, monitor, manage, and optimize Dell Hybrid Client powered endpoints and Dell thin clients. Wyse Management Suite can be installed On-premise, in your organization's private cloud, or used as a Software as a Service (SaaS) for automatic maintenance of software without any management software to install.

Wyse Management Suite uses industry-standard architecture and components to efficiently manage network devices. Wyse Management Suite is a web-based application where you can access the console using a supported browser and perform all the operations from the web UI. The Wyse Management Suite architecture is designed to manage the endpoint devices in an efficient, reliable, and secure manner. Wyse Management Suite is available in Standard and Pro edition.

- **Standard (Free)**—The Standard edition of the Wyse Management Suite offers basic functionalities and is available for a private cloud deployment. A license key is not required to use the Standard edition. This version can manage Dell Thin Clients. The Standard edition is suitable for small and medium businesses.
- **Pro (Paid)**—The Pro edition of the Wyse Management Suite is a more robust solution. It is available for both public and private cloud deployment. A license key is required to use the Pro edition (subscription-based licensing). With the Pro solution, organizations can adopt a hybrid model and float licenses between private and public clouds if needed. This version is required to manage any Teradici-based devices, Wyse Covert for PCs, and Dell Hybrid Client powered devices. It also offers more advanced features to manage Dell thin clients. For a public cloud deployment, the Pro edition can be managed on noncorporate networks (home office, third party, partners, mobile thin clients, and so on).

Priority and recommendations

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

Version matrix

The following table summarizes the Wyse Management Suite versions:

Table 1. Version matrix

Release Version	Release Date	Release Notes
Wyse Management Suite 3.8.0 Hotfix	November 2022	Wyse Management Suite version 3.8.0 Hotfix
Wyse Management Suite 3.7.0 Hotfix	November 2022	Wyse Management Suite version 3.7.0 Hotfix
Wyse Management Suite version 3.8	July 2022	Wyse Management Suite version 3.8
Wyse Management Suite version 3.7	May 2022	Wyse Management Suite version 3.7
Wyse Management Suite version 3.6.1	April 2022	Wyse Management Suite version 3.6.1
Wyse Management Suite version 3.6	February 2022	Wyse Management Suite version 3.6
Wyse Management Suite version 3.5.2	December 2021	Wyse Management Suite 3.5.2
Wyse Management Suite version 3.5.1	December 2021	Wyse Management Suite 3.5.1
Wyse Management Suite version 3.5	November 2021	Wyse Management Suite version 3.5
Wyse Management Suite version 3.3.1	August 2021	Wyse Management Suite version 3.3.1 Hotfix
Wyse Management Suite version 3.2.1	May 2021	Wyse Management Suite version 3.2.1
Wyse Management Suite version 3.2	March 2021	Wyse Management Suite version 3.2
Wyse Management Suite version 3.1.1	February 2021	Wyse Management Suite version 3.1 Hotfix 1
Wyse Management Suite version 3.1	December 2020	Wyse Management Suite version 3.1
Wyse Management Suite version 3.0	August 2020	Wyse Management Suite version 3.0

Wyse Management Suite 3.8.0 Hotfix

Wyse Management Suite 3.8.0 Hotfix addresses Apache Commons Text vulnerability (CVE-2022-42889) by updating the commons-text-1.9.jar to commons-text-1.10.jar of ccm-web.war and wms-api.war file in the server and the repository.

Compatibility

Supported Dell end-points on Wyse Management Suite

Table 2. Supported Dell end-points on Wyse Management Suite

Operating System	Platform	Wyse Device Agent versions
Windows 10 IoT Enterprise 2019 LTSC	Wyse 5070 and 5070 Extended Thin Client	10.04.06.09.19.00, 10.04.06.11.20, 10.04.06.06.21.00, 10.04.06.05.22.00 Wyse Device Agent: 14.6.5.9 and later
	Wyse 5470 Thin Client	10.04.08.09.19.00, 10.04.08.11.20, 10.04.08.06.21.00, 10.04.06.05.22.00 Wyse Device Agent: 14.6.5.9 and later
	Wyse 5470 AIO Thin Client	10.04.07.09.19.00, 10.04.07.11.20, 10.04.07.06.21.00, 10.04.06.05.22.00 Wyse Device Agent: 14.6.5.9 and later
Windows 10 IoT Enterprise LTSC 2021	Optiplex 3000 Thin Client	10.05.09.01.22.00 10.05.10.01.22.00 Wyse Device Agent: 14.6.5.9 and later
ThinOS	<ul style="list-style-type: none"> Wyse 3010 Thin Client Wyse 3020 Thin Client Wyse 3030 LT Thin Client (with and without PColP) Wyse 5040 Thin Client (ThinOS, PColP) Wyse 5010 Thin Client (ThinOS, PColP) Wyse 7010 Thin Client (with and without PColP) Wyse 5060 Thin Client (with and without PColP) 	8.5.x, 8.6.x
	<ul style="list-style-type: none"> Wyse 3040 Thin Client (with and without PColP) Wyse 5070 Thin Client (with and without PColP) Wyse 5470 Thin Client Wyse 5470 AIO Thin Client (with and without PColP) 	8.6.x, 9.0.x, 9.1.x, 9.3.x
	Optiplex 3000 Thin Client	9.1.x, 9.3.x
	Latitude 3420 Thin Client	9.3.x

Table 2. Supported Dell end-points on Wyse Management Suite (continued)

Operating System	Platform	Wyse Device Agent versions
Teradici	Wyse 5030 PColP zero client	5.x, 6.x, 20.x, 21.x , 22.x
	Wyse 7030 PColP zero client	
	Wyse 5050 AIO Thin Client	
Dell Hybrid Client	Wyse 5070 Thin Client	Ubuntu 18.04, 20.04
	Wyse 5070 Extended Thin Client	Bundle—Dell Hybrid Client version 1.1, 1.1.01. 1.5 and 1.6
	OptiPlex 7070 Ultra	Dell Client Agent - 1.0.0, 1.1.03, 1.2.0, 1.1.1, 1.3.x, 1.4.x and later
	OptiPlex 7090 Ultra	
OptiPlex 3090 Ultra		
Latitude 3320		
Dell Ubuntu (Generic) Client	OptiPlex 7070 Ultra	Ubuntu 18.04, 20.04, 22.04
	OptiPlex 7090 Ultra	DCA_Enabler - 1.0.0-72, DCA_Enabler - 1.1.0-17
	OptiPlex 3090 Ultra	DCA_Enabler - 1.2.0-25, DCA_Enabler - 1.2.1-14
	Latitude 3320	DCA_Enabler-1.3.0.23, DCA_Enabler-1.4.0.26,
	Latitude 3420	DCA_Enabler_1.5.0-14, DCA_Enabler_1.6.0-9, DCA_Enabler_1.7.0-x, and later
Wyse Converter for PCs	NA	Version: 2.1.2.141
		Wyse Device Agent: 14.6.5.9 and later
		Version: 3.0.0.4689
		Wyse Device Agent: 14.6.6.3

i NOTE: WDA version 14.6.3.1 and older versions can only be downgraded from WMS. Manual downgrade of WDA on the device is not supported. If you manually downgrade WDA, then the WMS information is lost, and you cannot upgrade WDA upgrades later. To overcome the issue, WDA must be uninstalled manually, and installed again.

Supported operating system matrix

Table 3. Supported operating systems

Operating system	WMS server	WMS repository	Remote database
Windows Server 2012 R2 English	Supported	Supported	Supported
Windows Server 2012 R2 French	Supported	Supported	Not supported
Windows Server 2012 R2 Italian	Supported	Supported	Not supported
Windows Server 2012 R2 German	Supported	Supported	Not supported
Windows Server 2012 R2 Spanish	Supported	Supported	Not supported
Windows Server 2012 R2 Simplified Chinese	Supported	Supported	Not supported
Windows Server 2012 R2 Japanese	Supported	Supported	Not supported
Windows Server 2016 English	Supported	Supported	Supported
Windows Server 2016 French	Supported	Supported	Not supported
Windows Server 2016 Italian	Supported	Supported	Not supported

Table 3. Supported operating systems (continued)

Operating system	WMS server	WMS repository	Remote database
Windows Server 2016 German	Supported	Supported	Not supported
Windows Server 2016 Spanish	Supported	Supported	Not supported
Windows Server 2016Simplified Chinese	Supported	Supported	Not supported
Windows Server 2016 Japanese	Supported	Supported	Not supported
Windows Server 2019 Standard English	Supported	Supported	Supported
Windows Server 2019 French	Supported	Supported	Not supported
Windows Server 2019 Italian	Supported	Supported	Not supported
Windows Server 2019 German	Supported	Supported	Not supported
Windows Server 2019 Spanish	Supported	Supported	Not supported
Windows Server 2019 Simplified Chinese	Supported	Supported	Not supported
Windows Server 2019 Japanese	Supported	Supported	Not supported

Supported browsers

Table 4. Supported browsers

Browsers	Version
Chrome	100.0.4896.88 and later
Firefox	91.8.0 and later
Edge browser	100.0.1185.39

i **NOTE:** WMS Portal is no more supported on Microsoft Internet Explorer as The Internet Explorer 11 desktop application is retired on June 15, 2022. For more information, see *Internet Explorer 11 desktop app support ended for certain versions of Windows 10* at <https://docs.microsoft.com/>.

Fixed issue

Addressed Apache Commons Text vulnerability (CVE-2022-42889) by updating the commons-text-1.9.jar to commons-text-1.10.jar of ccm-web.war and wms-api.war file in the server and repository.

Important notes

- Microsoft Gina should be selected when you configure keyboard layouts.
- Language pack should be pre-installed on the Windows 10 IoT Enterprise image to apply the default language configuration.
- Updating substitute keyboard layouts restarts the device twice if Microsoft Gina is enabled.
- For information about the changes or updates to the ThinOS and Dell Hybrid Client configurations, see *ThinOS 9.x Administrator's Guide and Release notes* and *Dell Hybrid Client Administrator's Guide and Release notes* at www.dell.com/support.
- If you are using Wyse Easy Setup 2.0.0.158 or earlier versions, you must upgrade Wyse Easy Setup to 2.0.0.189 after you upgrade Wyse Device Agent to 14.6.1.4.
- When the Citrix connection is deployed from Wyse Management Suite and if Citrix application is active or in use, and then the default Citrix connection cannot be launched.

Server or device agent details

Table 5. Server or device agent details

File name	Description	Version
WMS_Hotfix_3.8.0.182	Wyse Management Suite server	3.8.0.182
WMS_Repo.exe	Wyse Management Suite repository	3.8.1.73
WDA_14.6.5.9_Unified.exe	Unified WDA for Windows 10 IoT Enterprise	14.6.5.9
DellWMS-ConfigurationUI-Package.zip	configUI_signed.zip	1.8.200
WMS_Import_Tool.exe	Wyse Management Suite Import Tool	1.7.4.162
DCA_Enabler_1.6.0-9.zip	DCA Enabler and DCA Enabler Package combined Zipped	1.6.0-9
SoftwareVaultUtility-1.3.0.0.exe	Software Vault Utility	1.3.0.0

Windows Server configuration requirements

Table 6. Windows Server configuration requirements

Devices	Server requirements
Minimum server requirements for Wyse management Suite operations with 10,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—4 CPU Minimum Disk Space—40 GB Minimum Memory—8 GB <p>NOTE: For 10,000 devices setup, the minimum memory (RAM) should be 12 GB for Secure MQTT communications.</p>
Server requirement for Wyse Management Suite operations with 50,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—4 CPU Minimum Disk Space—120 GB Minimum Memory—16 GB
Server requirement for Wyse Management Suite operations with 120,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—16 CPU Minimum Disk Space—200 GB Minimum Memory—32 GB

Steps to apply the Hotfix

1. Download the Hotfix from <https://www.dell.com/support/home/> based on the Wyse Management Suite version.
2. Double-click the .exe file to begin the Hotfix installation.
3. Click **Next** and then click **Install** to initiate the Hotfix installation.
4. After the installation is complete, click **Finish**.

After Hotfix is successfully installed, the registry value can be seen with the Hotfix version at `Computer\HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\WMS\Hotfix`.

The Hotfix logs can be found under `C:\ProgramData\DELL\WMS\Hostfix` with name `WMS_Hotfix-Date&Time`.

Wyse Management Suite 3.7.0 Hotfix

Wyse Management Suite 3.7.0 Hotfix addresses Apache Commons Text vulnerability (CVE-2022-42889) by updating the commons-text-1.9.jar to commons-text-1.10.jar of ccm-web.war and wms-api.war file in the server and the repository.

Compatibility

Supported Dell end-points on Wyse Management Suite

Table 7. Supported Dell end-points on Wyse Management Suite

Operating System	Platform	Wyse Device Agent versions
Windows 10 IoT Enterprise 2019 LTSC	Wyse 5070 and 5070 Extended Thin Client	10.04.06.09.19.00, 10.04.06.11.20, 10.04.06.06.21.00, 10.04.06.05.22.00 Wyse Device Agent: 14.6.5.9 and later
	Wyse 5470 Thin Client	10.04.08.09.19.00, 10.04.08.11.20, 10.04.08.06.21.00, 10.04.06.05.22.00 Wyse Device Agent: 14.6.5.9 and later
	Wyse 5470 AIO Thin Client	10.04.07.09.19.00, 10.04.07.11.20, 10.04.07.06.21.00, 10.04.06.05.22.00 Wyse Device Agent: 14.6.5.9 and later
Windows 10 IoT Enterprise LTSC 2021	Optiplex 3000 Thin Client	10.05.09.01.22.00 10.05.10.01.22.00 Wyse Device Agent: 14.6.5.9 and later
ThinOS	<ul style="list-style-type: none"> Wyse 3010 Thin Client Wyse 3020 Thin Client Wyse 3030 LT Thin Client (with and without PColP) Wyse 5040 Thin Client (ThinOS, PColP) Wyse 5010 Thin Client (ThinOS, PColP) Wyse 7010 Thin Client (with and without PColP) Wyse 5060 Thin Client (with and without PColP) 	8.5.x, 8.6.x
	<ul style="list-style-type: none"> Wyse 3040 Thin Client (with and without PColP) Wyse 5070 Thin Client (with and without PColP) Wyse 5470 Thin Client Wyse 5470 AIO Thin Client (with and without PColP) 	8.6.x, 9.0.x, 9.1.x, 9.3.x
	Optiplex 3000 Thin Client	9.1.x, 9.3.x
	Latitude 3420 Thin Client	9.3.x

Table 7. Supported Dell end-points on Wyse Management Suite (continued)

Operating System	Platform	Wyse Device Agent versions
Teradici	Wyse 5030 PColP zero client	5.x, 6.x, 20.x, 21.x , 22.x
	Wyse 7030 PColP zero client	
	Wyse 5050 AIO Thin Client	
Dell Hybrid Client	Wyse 5070 Thin Client	Ubuntu 18.04, 20.04
	Wyse 5070 Extended Thin Client	Bundle—Dell Hybrid Client version 1.1, 1.1.01. 1.5 and 1.6
	OptiPlex 7070 Ultra	Dell Client Agent - 1.0.0, 1.1.03, 1.2.0, 1.1.1, 1.3.x, 1.4.x and later
	OptiPlex 7090 Ultra	
OptiPlex 3090 Ultra		
Latitude 3320		
Dell Ubuntu (Generic) Client	OptiPlex 7070 Ultra	Ubuntu 18.04, 20.04, 22.04
	OptiPlex 7090 Ultra	DCA_Enabler - 1.0.0-72, DCA_Enabler - 1.1.0-17
	OptiPlex 3090 Ultra	DCA_Enabler - 1.2.0-25, DCA_Enabler - 1.2.1-14
	Latitude 3320	DCA_Enabler-1.3.0.23, DCA_Enabler-1.4.0.26,
	Latitude 3420	DCA_Enabler_1.5.0-14, DCA_Enabler_1.6.0-9, DCA_Enabler_1.7.0-x, and later
Wyse Converter for PCs	NA	Version: 2.1.2.141
		Wyse Device Agent: 14.6.5.9 and later
		Version: 3.0.0.4689
		Wyse Device Agent: 14.6.6.3

i NOTE: WDA version 14.6.3.1 and older versions can only be downgraded from WMS. Manual downgrade of WDA on the device is not supported. If you manually downgrade WDA, then the WMS information is lost, and you cannot upgrade WDA upgrades later. To overcome the issue, WDA must be uninstalled manually, and installed again.

Supported operating system matrix

Table 8. Supported operating systems

Operating system	WMS server	WMS repository	Remote database
Windows Server 2012 R2 English	Supported	Supported	Supported
Windows Server 2012 R2 French	Supported	Supported	Not supported
Windows Server 2012 R2 Italian	Supported	Supported	Not supported
Windows Server 2012 R2 German	Supported	Supported	Not supported
Windows Server 2012 R2 Spanish	Supported	Supported	Not supported
Windows Server 2012 R2 Simplified Chinese	Supported	Supported	Not supported
Windows Server 2012 R2 Japanese	Supported	Supported	Not supported
Windows Server 2016 English	Supported	Supported	Supported
Windows Server 2016 French	Supported	Supported	Not supported
Windows Server 2016 Italian	Supported	Supported	Not supported

Table 8. Supported operating systems (continued)

Operating system	WMS server	WMS repository	Remote database
Windows Server 2016 German	Supported	Supported	Not supported
Windows Server 2016 Spanish	Supported	Supported	Not supported
Windows Server 2016Simplified Chinese	Supported	Supported	Not supported
Windows Server 2016 Japanese	Supported	Supported	Not supported
Windows Server 2019 Standard English	Supported	Supported	Supported
Windows Server 2019 French	Supported	Supported	Not supported
Windows Server 2019 Italian	Supported	Supported	Not supported
Windows Server 2019 German	Supported	Supported	Not supported
Windows Server 2019 Spanish	Supported	Supported	Not supported
Windows Server 2019 Simplified Chinese	Supported	Supported	Not supported
Windows Server 2019 Japanese	Supported	Supported	Not supported

Supported browsers

Table 9. Supported browsers

Browsers	Version
Chrome	100.0.4896.88 and later
Firefox	91.8.0 and later
Edge browser	100.0.1185.39

i **NOTE:** WMS Portal is no more supported on Microsoft Internet Explorer as The Internet Explorer 11 desktop application is retired on June 15, 2022. For more information, see *Internet Explorer 11 desktop app support ended for certain versions of Windows 10* at <https://docs.microsoft.com/>.

Fixed issue

Addressed Apache Commons Text vulnerability (CVE-2022-42889) by updating the commons-text-1.9.jar to commons-text-1.10.jar of ccm-web.war and wms-api.war file in the server and repository.

Important notes

- Microsoft Gina should be selected when you configure keyboard layouts.
- Language pack should be pre-installed on the Windows 10 IoT Enterprise image to apply the default language configuration.
- Updating substitute keyboard layouts restarts the device twice if Microsoft Gina is enabled.
- For information about the changes or updates to the ThinOS and Dell Hybrid Client configurations, see *ThinOS 9.x Administrator's Guide and Release notes* and *Dell Hybrid Client Administrator's Guide and Release notes* at www.dell.com/support.
- If you are using Wyse Easy Setup 2.0.0.158 or earlier versions, you must upgrade Wyse Easy Setup to 2.0.0.189 after you upgrade Wyse Device Agent to 14.6.1.4.
- When the Citrix connection is deployed from Wyse Management Suite and if Citrix application is active or in use, and then the default Citrix connection cannot be launched.

Server or device agent details

Table 10. Server or device agent details

File name	Description	Version
WMS_Hotfix_3.7.0.460	Wyse Management Suite server	3.7.0.460
WMS_Repo.exe	Wyse Management Suite repository	3.8.1.73
WDA_14.6.4.8_Unified.exe	Unified WDA for Windows 10 IoT Enterprise	14.6.4.8
configUI_signed.zip	configUI_signed.zip	1.6.100
WMS_Import_Tool.exe	Wyse Management Suite Import Tool	1.7.3.132
DCA_Enabler_1.5.0-14.zip	DCA Enabler and DCA Enabler Package combined Zipped	1.5.0-14
SoftwareVaultUtility-1.2.0.0.exe	Software Vault Utility	1.2.0.0

Windows Server configuration requirements

Table 11. Windows Server configuration requirements

Devices	Server requirements
Minimum server requirements for Wyse management Suite operations with 10,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—4 CPU Minimum Disk Space—40 GB Minimum Memory—8 GB <p>NOTE: For 10,000 devices setup, the minimum memory (RAM) should be 12 GB for Secure MQTT communications.</p>
Server requirement for Wyse Management Suite operations with 50,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—4 CPU Minimum Disk Space—120 GB Minimum Memory—16 GB
Server requirement for Wyse Management Suite operations with 120,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—16 CPU Minimum Disk Space—200 GB Minimum Memory—32 GB

Steps to apply the Hotfix

1. Download the Hotfix from <https://www.dell.com/support/home/> based on the Wyse Management Suite version.
2. Double-click the .exe file to begin the Hotfix installation.
3. Click **Next** and then click **Install** to initiate the Hotfix installation.
4. After the installation is complete, click **Finish**.

After Hotfix is successfully installed, the registry value can be seen with the Hotfix version at `Computer\HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\WMS\Hotfix`.

The Hotfix logs can be found under `C:\ProgramData\DELL\WMS\Hostfix` with name `WMS_Hotfix-Date&Time`.

Wyse Management Suite 3.8

Compatibility

Supported Dell end-points on Wyse Management Suite

Table 12. Supported Dell end-points on Wyse Management Suite

Operating System	Platform	Wyse Device Agent versions
Windows 10 IoT Enterprise 2019 LTSC	Wyse 5070 and 5070 Extended Thin Client	10.04.06.09.19.00, 10.04.06.11.20, 10.04.06.06.21.00, 10.04.06.05.22.00 Wyse Device Agent: 14.6.5.9 and later
	Wyse 5470 Thin Client	10.04.08.09.19.00, 10.04.08.11.20, 10.04.08.06.21.00, 10.04.06.05.22.00 Wyse Device Agent: 14.6.5.9 and later
	Wyse 5470 AIO Thin Client	10.04.07.09.19.00, 10.04.07.11.20, 10.04.07.06.21.00, 10.04.06.05.22.00 Wyse Device Agent: 14.6.5.9 and later
Windows 10 IoT Enterprise LTSC 2021	Optiplex 3000 Thin Client	10.05.09.01.22.00 10.05.10.01.22.00 Wyse Device Agent: 14.6.5.9 and later
ThinOS	<ul style="list-style-type: none"> • Wyse 3010 Thin Client • Wyse 3020 Thin Client • Wyse 3030 LT Thin Client (with and without PColP) • Wyse 5040 Thin Client (ThinOS, PColP) • Wyse 5010 Thin Client (ThinOS, PColP) • Wyse 7010 Thin Client (with and without PColP) • Wyse 5060 Thin Client (with and without PColP) 	8.5.x, 8.6.x
	<ul style="list-style-type: none"> • Wyse 3040 Thin Client (with and without PColP) • Wyse 5070 Thin Client (with and without PColP) • Wyse 5470 Thin Client • Wyse 5470 AIO Thin Client (with and without PColP) 	8.6.x, 9.0.x, 9.1.x, 9.3.x
	Optiplex 3000 Thin Client	9.1.x, 9.3.x
	Latitude 3420 Thin Client	9.3.x
Teradici	Wyse 5030 PColP zero client	5.x, 6.x, 20.x, 21.x , 22.x
	Wyse 7030 PColP zero client	

Table 12. Supported Dell end-points on Wyse Management Suite (continued)

Operating System	Platform	Wyse Device Agent versions
	Wyse 5050 AIO Thin Client	
Dell Hybrid Client	Wyse 5070 Thin Client	Ubuntu 18.04, 20.04
	Wyse 5070 Extended Thin Client	Bundle—Dell Hybrid Client version 1.1, 1.1.01. 1.5 and 1.6
	OptiPlex 7070 Ultra	Dell Client Agent - 1.0.0, 1.1.03, 1.2.0, 1.1.1, 1.3.x, 1.4.x and later
	OptiPlex 7090 Ultra	
OptiPlex 3090 Ultra Latitude 3320		
Dell Ubuntu (Generic) Client	OptiPlex 7070 Ultra	Ubuntu 18.04, 20.04
	OptiPlex 7090 Ultra	DCA_Enabler - 1.0.0-72, DCA_Enabler - 1.1.0-17
	OptiPlex 3090 Ultra	DCA_Enabler - 1.2.0-25, DCA_Enabler - 1.2.1-14
	Latitude 3320 Latitude 3420	DCA_Enabler-1.3.0.23, DCA_Enabler-1.4.0.26, DCA_Enabler_1.5.0-14, DCA_Enabler_1.6.0-9 and later
Wyse Converter for PCs	NA	2.1.2.141
		Wyse Device Agent: 14.6.5.9 and later

NOTE: WDA version 14.6.3.1 and older versions can only be downgraded from WMS. Manual downgrade of WDA on the device is not supported. If you manually downgrade WDA, then the WMS information is lost, and you cannot upgrade WDA upgrades later. To overcome the issue, WDA must be uninstalled manually, and installed again.

Supported operating system matrix

Table 13. Supported operating systems

Operating system	WMS server	WMS repository	Remote database
Windows Server 2012 R2 English	Supported	Supported	Supported
Windows Server 2012 R2 French	Supported	Supported	Not supported
Windows Server 2012 R2 Italian	Supported	Supported	Not supported
Windows Server 2012 R2 German	Supported	Supported	Not supported
Windows Server 2012 R2 Spanish	Supported	Supported	Not supported
Windows Server 2012 R2 Simplified Chinese	Supported	Supported	Not supported
Windows Server 2012 R2 Japanese	Supported	Supported	Not supported
Windows Server 2016 English	Supported	Supported	Supported
Windows Server 2016 French	Supported	Supported	Not supported
Windows Server 2016 Italian	Supported	Supported	Not supported
Windows Server 2016 German	Supported	Supported	Not supported
Windows Server 2016 Spanish	Supported	Supported	Not supported
Windows Server 2016Simplified Chinese	Supported	Supported	Not supported
Windows Server 2016 Japanese	Supported	Supported	Not supported
Windows Server 2019 Standard English	Supported	Supported	Supported

Table 13. Supported operating systems (continued)

Operating system	WMS server	WMS repository	Remote database
Windows Server 2019 French	Supported	Supported	Not supported
Windows Server 2019 Italian	Supported	Supported	Not supported
Windows Server 2019 German	Supported	Supported	Not supported
Windows Server 2019 Spanish	Supported	Supported	Not supported
Windows Server 2019 Simplified Chinese	Supported	Supported	Not supported
Windows Server 2019 Japanese	Supported	Supported	Not supported

Supported browsers

Table 14. Supported browsers

Browsers	Version
Chrome	100.0.4896.88 and later
Firefox	91.8.0 and later
Edge browser	100.0.1185.39

i **NOTE:** WMS Portal is no more supported on Microsoft Internet Explorer as The Internet Explorer 11 desktop application is retired on June 15, 2022. For more information, see *Internet Explorer 11 desktop app support ended for certain versions of Windows 10* at <https://docs.microsoft.com/>.

New and enhanced features

Support for additional default browser in on-premise environment

Wyse Management Suite portal cannot be used with Internet Explorer. If the default browser is Internet Explorer and if the Edge browser is installed on the server, when Wyse Management Suite is installed, it is launched in the Edge browser.

If any other browser is set as the default browser apart from Internet Explorer, then Wyse Management Suite server portal and repository portal are launched in the same default browser.

i **NOTE:** When you install Wyse Management Suite, the server and repository launches in either the default browser or Edge browser without any certificate error. When the server or repository is upgraded, then certificate error is displayed. The error is also displayed if you use Mozilla Firefox as the default browser.

Support to clear events in on-premises environment

From Wyse Management Suite 3.8, you can clear events in the on-premises environment. To clear the events, log in to the on-premises environment, go to **Portal Administration > Clear History**, select the days beyond which all the events to be cleared and click **Clear Events**. An event is generated to show this action in the **Events** tab.

Simultaneous server login session restriction

From Wyse Management Suite 3.8, the administrator cannot log in to the portal simultaneously on different browsers of the same or different systems. When you try to log in to the server from another browser or try to log in from another system without logging off from the previous session, then

```
Your login attempt was not successful. Reason: User account already logged in
```

error message is displayed. The same error is displayed if you do not log off from the session from a browser.

The administrator can select the option **Log me out everywhere else** to log in to the portal forcefully. If the option is selected, the previous login session is invalidated. After you deploy on-premises or public cloud version of Wyse Management Suite , all the active sessions are invalidated. The administrator must re-login to Wyse Management Suite to continue accessing the portal.

When the administrator changes the portal administrator role or the username for any other logged in user, then the session of other logged in user gets invalidated. The other administrators must re-login to Wyse Management Suite to continue accessing the portal.

Support to view tenant cloud repository usage on dashboard

From Wyse Management Suite 3.8, the public cloud administrator can view the used space of the tenant cloud space on the right bottom corner Dashboard page. You can upload files up to 10 GB.

Installer improvements

Wyse Management Suite on-premises installer displays the component details that are updated.

For example, when you upgrade from 3.6 to 3.8, the installer screen displays the following component list with the updated version:

- Tomcat upgrading from 9.0.55 to 9.0.63
- Java upgrading from 11.0.13 to 11.0.15
- MariaDB upgrading from 10.6.5 to 10.6.8
- MongoDB upgrading from 4.2.17 to 4.2.19
- Software Vault upgrading from 1.1.0 to 1.3.0

Fixed issues

Table 15. Fixed issues

Issue ID	Description
WMS-675	Time zone on the WMS changes automatically.
WMS-704	After updating to WMS 3.6, all devices on ThinOS9.1.1131 are failing to be automatically registered and assigned to proper configuration group.
WMS-713	There are few missing options under Devices tab after selecting multiple devices.
WMS-734	Browser connection icons are randomly missed from desktop.
WMS-732	Add Policy button causes issue when configuring a policy.

Security fixes

Wyse Management Suite 3.8 addresses multiple vulnerabilities. For information about the vulnerabilities addressed in this release, see *DSA-2022-134: Dell Wyse Management Suite Security Update for Multiple Vulnerabilities* at [Security Advisories & Notices | Dell](#).

Important notes

- Microsoft Gina should be selected when you configure keyboard layouts.
- Language pack should be pre-installed on the Windows 10 IoT Enterprise image to apply the default language configuration.
- Updating substitute keyboard layouts restarts the device twice if Microsoft Gina is enabled.

- For information about the changes or updates to the ThinOS and Dell Hybrid Client configurations, see *ThinOS 9.x Administrator's Guide and Release notes* and *Dell Hybrid Client Administrator's Guide and Release notes* at www.dell.com/support.
- If you are using Wyse Easy Setup 2.0.0.158 or earlier versions, you must upgrade Wyse Easy Setup to 2.0.0.189 after you upgrade Wyse Device Agent to 14.6.1.4.
- When the Citrix connection is deployed from Wyse Management Suite and if Citrix application is active or in use, and then the default Citrix connection cannot be launched.

Server or device agent details

Table 16. Server or device agent details

File name	Description	Version
WMS_3.8.exe	Wyse Management Suite server	3.8.0.181
WMS_Repo.exe	Wyse Management Suite repository	3.8.0.62
WDA_14.6.5.9_Unified.exe	Unified WDA for Windows 10 IoT Enterprise	14.6.5.9
DellWMS-ConfigurationUI-Package.zip	configUI_signed.zip	1.8.200
WMS_Import_Tool.exe	Wyse Management Suite Import Tool	1.7.4.162
DCA_Enabler_1.6.0-9.zip	DCA Enabler and DCA Enabler Package combined Zipped	1.6.0-9
SoftwareVaultUtility-1.3.0.0.exe	Software Vault Utility	1.3.0.0


Windows Server configuration requirements

Table 17. Windows Server configuration requirements

Devices	Server requirements
Minimum server requirements for Wyse management Suite operations with 10,000 devices	<ul style="list-style-type: none"> • Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard • Minimum CPU requirements—4 CPU • Minimum Disk Space—40 GB • Minimum Memory—8 GB <p>NOTE: For 10,000 devices setup, the minimum memory (RAM) should be 12 GB for Secure MQTT communications.</p>
Server requirement for Wyse Management Suite operations with 50,000 devices	<ul style="list-style-type: none"> • Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard • Minimum CPU requirements—4 CPU • Minimum Disk Space—120 GB • Minimum Memory—16 GB
Server requirement for Wyse Management Suite operations with 120,000 devices	<ul style="list-style-type: none"> • Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard • Minimum CPU requirements—16 CPU • Minimum Disk Space—200 GB • Minimum Memory—32 GB

Wyse Management Suite upgrade path

Table 18. Wyse Management Suite upgrade path

Upgrade type	Upgrade path	Compatibility
3.6 to 3.8	3.6 > 3.8	Supported
	3.6 > 3.6.1 > 3.8	Supported
	3.6 > 3.6.1 > 3.7 > 3.8	Supported
3.6.1 to 3.8	3.6.1 > 3.8	Supported
	3.6.1 > 3.7 > 3.8	Supported
3.7 to 3.8	3.7 > 3.8	Supported
1.0 to 3.8	1.0 > 1.1 > 1.2 > 1.3 > 1.4 > 1.4.1 > 2.0 > 2.1 > 3.0 > 3.1 > 3.1.1 > 3.2 > 3.2.1 > 3.3 > 3.3.1 > 3.5 > 3.5.1 > 3.5.2 > 3.6 > 3.6.1 > 3.7 > 3.8	Supported  NOTE: For administrators who want to upgrade Wyse Management Suite, ProSupport is provided only from Wyse Management Suite version 3.6 and later versions.

Wyse Management Suite version 3.7

Compatibility

Supported Dell end-points on Wyse Management Suite

Table 19. Supported Dell end-points on Wyse Management Suite

Operating System	Platform	Wyse Device Agent versions
Windows 10 IoT Enterprise 2019 LTSC	Wyse 5070 and 5070 Extended Thin Client	10.04.06.09.19.00, 10.04.06.11.20, 10.04.06.06.21.00 Wyse Device Agent: 14.6.4.8 and later
	Wyse 5470 Thin Client	10.04.08.09.19.00, 10.04.08.11.20, 10.04.08.06.21.00 Wyse Device Agent: 14.6.4.8 and later
	Wyse 5470 AIO Thin Client	10.04.07.09.19.00, 10.04.07.11.20, 10.04.07.06.21.00 Wyse Device Agent: 14.6.4.8 and later
Windows 10 IoT Enterprise LTSC 2021	Optiplex 3000 Thin Client	10.05.09.01.22.00 10.05.10.01.22.00 Wyse Device Agent: 14.6.4.8 and later
ThinOS	<ul style="list-style-type: none"> Wyse 3010 Thin Client Wyse 3020 Thin Client Wyse 3030 LT Thin Client (with and without PColP) Wyse 5040 Thin Client (ThinOS, PColP) Wyse 5010 Thin Client (ThinOS, PColP) Wyse 7010 Thin Client (with and without PColP) Wyse 5060 Thin Client (with and without PColP) 	8.5.x, 8.6.x
	<ul style="list-style-type: none"> Wyse 3040 Thin Client (with and without PColP) Wyse 5070 Thin Client (with and without PColP) Wyse 5470 Thin Client Wyse 5470 AIO Thin Client (with and without PColP) 	8.6.x, 9.0.x, 9.1.x
	Latitude 3420 Thin Client	9.3.x
Teradici	Wyse 5030 PColP zero client	5.x, 6.x, 20.x, 21.x
	Wyse 7030 PColP zero client	
	Wyse 5050 AIO Thin Client	
Dell Hybrid Client	Wyse 5070 Thin Client	Ubuntu 18.04, 20.04

Table 19. Supported Dell end-points on Wyse Management Suite (continued)

Operating System	Platform	Wyse Device Agent versions
	Wyse 5070 Extended Thin Client	Bundle—Dell Hybrid Client version 1.1, 1.1.01. 1.5 and 1.6 Dell Client Agent - 1.0.0, 1.1.03, 1.2.0, 1.1.1, 1.3.x and later
	OptiPlex 7070 Ultra	
	OptiPlex 7090 Ultra	
	OptiPlex 3090 Ultra	
	Latitude 3320	
Dell Ubuntu (Generic) Client	OptiPlex 7070 Ultra OptiPlex 7090 Ultra OptiPlex 3090 Ultra Latitude 3320 Latitude 3420	Ubuntu 18.04, 20.04 DCA_Enabler - 1.0.0-72, DCA_Enabler - 1.1.0-17 DCA_Enabler - 1.2.0-25, DCA_Enabler - 1.2.1-14 DCA_Enabler-1.3.0.23, DCA_Enabler-1.4.0.26, DCA_Enabler_1.5.0-14 and later
Wyse Converter for PCs	NA	2.1.2.141 Wyse Device Agent: 14.6.4.8

Supported operating system matrix

Table 20. Supported operating systems

Operating system	WMS server	WMS repository	Remote database
Windows Server 2012 R2 English	Supported	Supported	Supported
Windows Server 2012 R2 French	Supported	Supported	Not supported
Windows Server 2012 R2 Italian	Supported	Supported	Not supported
Windows Server 2012 R2 German	Supported	Supported	Not supported
Windows Server 2012 R2 Spanish	Supported	Supported	Not supported
Windows Server 2012 R2 Simplified Chinese	Supported	Supported	Not supported
Windows Server 2012 R2 Japanese	Supported	Supported	Not supported
Windows Server 2016 English	Supported	Supported	Supported
Windows Server 2016 French	Supported	Supported	Not supported
Windows Server 2016 Italian	Supported	Supported	Not supported
Windows Server 2016 German	Supported	Supported	Not supported
Windows Server 2016 Spanish	Supported	Supported	Not supported
Windows Server 2016Simplified Chinese	Supported	Supported	Not supported
Windows Server 2016 Japanese	Supported	Supported	Not supported
Windows Server 2019 Standard English	Supported	Supported	Supported
Windows Server 2019 French	Supported	Supported	Not supported
Windows Server 2019 Italian	Supported	Supported	Not supported
Windows Server 2019 German	Supported	Supported	Not supported
Windows Server 2019 Spanish	Supported	Supported	Not supported
Windows Server 2019 Simplified Chinese	Supported	Supported	Not supported

Table 20. Supported operating systems (continued)

Operating system	WMS server	WMS repository	Remote database
Windows Server 2019 Japanese	Supported	Supported	Not supported

Supported browsers

Table 21. Supported browsers

Browsers	Version
Chrome	100.0.4896.88 and later
Firefox	91.8.0 and later
Internet Explorer	11.0 and later
Edge browser	100.0.1185.39

New and enhanced features

BIOS settings support for Dell OptiPlex 3000 (Celeron and Pentium model)

Support to configure BIOS settings for Dell OptiPlex 3000 (Celeron and Pentium model) is added.

These settings can be configured for the device group and device level.

ThinOS Package Deployment GUI

All ThinOS application packages are grouped as per the vendor. For example, all Citrix packages appear under the **Citrix Vendor** for an easy view. Filter selection of the application is available as per the required version. Applications with no vendor information appear under the **Other** category.

Only one application version can be selected to install the per vendor list. Multiple applications can be selected to install if the package is listed under **Other** category.


 **NOTE:** This feature is available with the ThinOS 2208 version release which will be available in the coming weeks.

Ubuntu to ThinOS Conversion

You can convert Dell commercial generic client device with full Ubuntu to ThinOS from WMS 3.7. For this release, Dell Latitude 3420 Thin Client is validated.

To create the application policy (standard or advanced) with conversion Firmware (ThinOS_9.3), WMS must have unconsumed/free ThinOS Activation License. If there are no ThinOS Activation Licenses or all ThinOS Activation licenses are consumed then the application policy cannot be created with the conversion Firmware (ThinOS_9.3).

When ThinOS Conversion firmware is selected in the App policy, then platform filter must be select. The platforms list under platform filter in the app policy page is auto populated as per the ThinOS Conversion Firmware. When a particular ThinOS Conversion Firmware is selected in an app policy, only the platforms which are supported by the firmware is displayed.

 **NOTE:** You must select all Latitude 3420 platforms from the platform filter.

The DCA_Enabler must be updated on the Ubuntu client and then the ThinOS_Ubuntu_Installer and the ThinOS Conversion Firmware (ThinOS package) must be pushed from WMS in sequence.

The DCA_Enabler and the ThinOS_Ubuntu_Installer packages can be uploaded from the **Apps & Data > Generic Client App Inventory** page and the ThinOS Conversion Firmware (ThinOS package) can be uploaded from the **Apps & Data > ThinOS OS Repository > Add Firmware File**

Alternatively the DCA_Enabler and the ThinOS_Ubuntu_Installer packages can be copied to the **Local Or Remote Repository > Repository > genericClientApps** and the ThinOS Conversion Firmware (ThinOS package) can be copied to the **thinOSConfigFiles** folder.

After the device is converted to ThinOS, appropriate events and serial number will be generated for the device MAC. A WMS administrator can also generate a device report to see the converted device list. **Device Converted** column shows **TRUE** for the converted devices.

ThinOS Customer Activation License

The ThinOS activation license is a perpetual license and only a Dell commercial client running on ThinOS can consume this license.

A new license type is added in WMS to export and import the ThinOS Activation License in public and On-Premise WMS server.

To export the ThinOS Activation License key from the public cloud, **On-Premise Identifier** must be provided.

The **On-Premise Identifier** can be found under **Portal Administration > Subscription > WMS On-Premise Identifier**

Alternatively, WMS On-Premise server can be activated online with the ThinOS Activation License by providing the public cloud credentials along with the data center details.

WMS administrator can return the ThinOS Activation License from On-Premise back to the public cloud by using the Reissue key from the On-Premise server. Upon the Reissue key, WMS identifies the unconsumed/Free ThinOS Activation Licenses. WMS then generates the license key which must be copied and pasted in the public cloud under **Reissue**.

On all the WMS On-Premise server lists where the ThinOS Activation License was exported can be viewed under **Portal Administration > Subscription > View Exported License Seats**


In case the WMS On-Premise server database is restored in another server or the WMS On-Premise server is cloned, and then the WMS public cloud tenant administrator can edit the WMS On-Premise server identifier by using the **Edit** button present under **Portal Administration > Subscription > View Exported License Seats**

Alternatively, WMS Administrator can click the **Migrate On-Premise ID** button to return the ThinOS Activation License to the WMS public cloud and edit the WMS On-Premise Identifier.

A WMS administrator can view and track the Thin Clients which consumed ThinOS Activation License from **Portal Administration > Subscription > Registered ThinOS Activation devices > View License**

Installer Improvements

WMS On-Premise can be installed on Simplified Chinese and Japanese Windows Server Operating System.

 **NOTE:** WMS username and credentials must be in English characters only.

WMS installer is improved to detect and copy the missing database files in the install directory while upgrading WMS from the previous-supported version (N-2).

Behavior Change-For Any File Upload to WMS Public Cloud

WMS public cloud tenant administrator can upload Thin Client packages up to 10 GB.

WMS tenant administrator sees an error message *You have exceeded the available file upload size limit* if the 10 GB space is occupied. Any further file upload fails for all the categories of the Thin Client resource files.

WMS tenant administrator must delete the unused files to free up the cloud storage space.

DHC certificates and WMS Report


WMS administrator can view the list of certificates which are installed on the DHC Thin Client under **Device Details** page of the device **System Info > Operating System Details > Installed Certificates**.

Device report can also be generated to get **Installed Certificates** information.

This feature is supported from Dell Hybrid Client version 1.8 which will be released at a later time.

Fixed issues

Table 22. Fixed issues

Issue ID	Description
WMS-696	Citrix connection issue after you update Windows.  NOTE: If you update the Windows 10 IoT Enterprise operating system, then Wyse Device Agent along with Wyse Easy setup binary must be updated to use the device in Kiosk mode. A new version of Wyse Easy Setup will be released at a later time.
WMS-694	You cannot join a domain using Wyse Device Agent version 14.6.3.1.
WMS-687	The Active Directory administrator domain join fails with the new Wyse Device Agent 14.6.3.1 on Windows 10 IoT Enterprise LTSC operating system and OU. The error code 1909 is displayed.
WMS-674	Wyse Device Agent install and upgrade issue is observed.
WMS-655	Wyse Management Suite 3.6 policy copy fails on Windows Embedded operating system.
WMS-647	Occasionally, ThinOS 8.6 groups are displayed for ThinOS 9.1 devices.
WMS-645	Wyse 5030 devices reports wrong model after you update Wyse Management Suite.
WMS-628	The message Previously published settings may not have been received by all devices. More info here is displayed for a very short time.
WMSNG-9914	Outdated JavaScript Library is fixed.
WMSNG-9923	CVE-2022-21476, CVE-2022-21449, CVE-2022-21496, CVE-2022-21434, CVE-2022-21426, CVE-2022-21443—OpenJDK version is updated to 11.0.15 to address Vulnerabilities found in openJDK versions 11.0.14 and lower versions.

Important notes

- Microsoft Gina should be selected when you configure keyboard layouts.
- Language pack should be pre-installed on the Windows 10 IoT Enterprise image to apply the default language configuration.
- Updating substitute keyboard layouts restarts the device twice if Microsoft Gina is enabled.
- For information about the changes or updates to the ThinOS and Dell Hybrid Client configurations, see *ThinOS 9.x Administrator's Guide and Release notes* and *Dell Hybrid Client Administrator's Guide and Release notes* at www.dell.com/support.
- If you are using Wyse Easy Setup 2.0.0.158 or earlier versions, you must upgrade Wyse Easy Setup to 2.0.0.189 after you upgrade Wyse Device Agent to 14.6.1.4.
- When the Citrix connection is deployed from Wyse Management Suite and if Citrix application is active or in use, and then the default Citrix connection cannot be launched.

Server or device agent details

Table 23. Server or device agent details

File name	Description	Version
WMS_3.7.exe	Wyse Management Suite server	3.7.0.458
WMS_Repo.exe	Wyse Management Suite repository	3.7.0.57
WDA_14.6.4.8_Unified.exe	Unified WDA for Windows 10 IoT Enterprise	14.6.4.8
configUI_signed.zip	configUI_signed.zip	1.6.100
WMS_Import_Tool.exe	Wyse Management Suite Import Tool	1.7.3.132
DCA_Enabler_1.5.0-14.zip	DCA Enabler and DCA Enabler Package combined Zipped	1.5.0-14
SoftwareVaultUtility-1.2.0.0.exe	Software Vault Utility	1.2.0.0

NOTE: Wyse Device Agent 14.6.4.8 can only be downgraded to older version using Wyse Management Suite. Manual downgrade on the device is not supported. If you manually downgrade Wyse Device Agent, then Wyse Management Suite information is lost.

Windows Server configuration requirements

Table 24. Windows Server configuration requirements


Devices	Server requirements
Minimum server requirements for Wyse management Suite operations with 10,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—4 CPU Minimum Disk Space—40 GB Minimum Memory—8 GB <p>NOTE: For 10,000 devices setup, the minimum memory (RAM) should be 12 GB for Secure MQTT communications.</p>
Server requirement for Wyse Management Suite operations with 50,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—4 CPU Minimum Disk Space—120 GB Minimum Memory—16 GB
Server requirement for Wyse Management Suite operations with 120,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—16 CPU Minimum Disk Space—200 GB Minimum Memory—32 GB

Wyse Management Suite upgrade path

Table 25. Wyse Management Suite upgrade path

Upgrade type	Upgrade path	Compatibility
3.5 to 3.7	3.5 > 3.7	Supported
	3.5 > 3.5.1 > 3.7	Supported
	3.5 > 3.5.1 > 3.5.2 > 3.7	Supported

Table 25. Wyse Management Suite upgrade path (continued)

Upgrade type	Upgrade path	Compatibility
	3.5 > 3.5.1 > 3.5.2 > 3.6 > 3.7	Supported
	3.5 > 3.5.1 > 3.5.2 > 3.6 > 3.6.1 > 3.7	Supported
3.5.1 to 3.7	3.5.1 > 3.7	Supported
	3.5.1 > 3.5.2 > 3.7	Supported
	3.5.1 > 3.5.2 > 3.6 > 3.7	Supported
	3.5.1 > 3.5.2 > 3.6 > 3.6.1 > 3.7	Supported
3.5.2 to 3.7	3.5.2 > 3.7	Supported
	3.5.2 > 3.6 > 3.7	Supported
	3.5.2 > 3.6 > 3.6.1 > 3.7	Supported
3.6 to 3.7	3.6 > 3.7	Supported
	3.6 > 3.6.1 > 3.7	Supported
3.6.1 to 3.7	3.6.1 > 3.7	Supported
1.0 to 3.7	1.0 > 1.1 > 1.2 > 1.3 > 1.4 > 1.4.1 > 2.0 > 2.1 > 3.0 > 3.1 > 3.1.1 > 3.2 > 3.2.1 > 3.3 > 3.3.1 > 3.5 > 3.5.1 > 3.5.2 > 3.6 > 3.6.1 > 3.7	Supported  NOTE: For administratorss who want to upgrade Wyse Management Suite, ProSupport is provided only from Wyse Management Suite version 3.5 and later versions.

Wyse Management Suite 3.6.1

Wyse Management Suite 3.6.1 release addresses the following vulnerabilities:

- Spring RCE vulnerability issue—CVE-2022-22965
- OpenSSL Infinite Loop Vulnerabilities—CVE-2022-0778

The following components are upgraded to address the vulnerabilities:

- Tomcat 9.0.62
- EMSDK 1.0.10
- LockBoxServer-1.2.0.jar

Wyse Management Suite 3.6.1 installer restarts the Windows event log service to release any file lock during the upgrade process.

NOTE: The message **During upgrade, installer will restart windows event log service, please take necessary action before starting upgrade** is displayed when you upgrade Wyse Management Suite to version 3.6.1.

Compatibility

Supported Dell end-points on Wyse Management Suite

Table 26. Supported Dell end-points on Wyse Management Suite

Operating System	Platform	Wyse Device Agent versions
Windows 10 IoT Enterprise 2019 LTSC	Wyse 5070 and 5070 Extended Thin Client	10.04.06.09.19.00, 10.04.06.11.20, 10.04.06.06.21.00 Wyse Device Agent: 14.6.1.4 and later
	Wyse 5470 Thin Client	10.04.08.09.19.00, 10.04.08.11.20, 10.04.08.06.21.00 Wyse Device Agent: 14.6.1.4 and later
	Wyse 5470 AIO Thin Client	10.04.07.09.19.00, 10.04.07.11.20, 10.04.07.06.21.00 Wyse Device Agent: 14.6.1.4 and later
Windows 10 IoT Enterprise LTSC 2021	Optiplex 3000 Thin Client	10.05.09.01.22.00 10.05.10.01.22.00 Wyse Device Agent: 14.6.2.3 and later
ThinOS	<ul style="list-style-type: none"> • Wyse 3010 Thin Client • Wyse 3020 Thin Client • Wyse 3030 LT Thin Client (with and without PCoIP) • Wyse 5040 Thin Client (ThinOS, PCoIP) • Wyse 5010 Thin Client (ThinOS, PCoIP) • Wyse 7010 Thin Client (with and without PCoIP) • Wyse 5060 Thin Client (with and without PCoIP) 	8.5.x, 8.6.x

Table 26. Supported Dell end-points on Wyse Management Suite (continued)

Operating System	Platform	Wyse Device Agent versions
	<ul style="list-style-type: none"> Wyse 3040 Thin Client (with and without PCoIP) Wyse 5070 Thin Client (with and without PCoIP) Wyse 5470 Thin Client Wyse 5470 AIO Thin Client (with and without PCoIP) 	8.6.x, 9.0.x, 9.1.x
Teradici	Wyse 5030 PCoIP zero client	5.x, 6.x, 20.x, 21.x
	Wyse 7030 PCoIP zero client	
	Wyse 5050 AIO Thin Client	
Dell Hybrid Client	Wyse 5070 Thin Client	Ubuntu 18.04, 20.04
	Wyse 5070 Extended Thin Client	Bundle—Dell Hybrid Client version 1.1, 1.1.01. 1.5 and 1.6
	OptiPlex 7070 Ultra OptiPlex 7090 Ultra OptiPlex 3090 Ultra Latitude 3320	Dell Client Agent - 1.0.0, 1.1.03, 1.2.0, 1.1.1, 1.3.x and later
Dell Ubuntu (Generic) Client	OptiPlex 7070 Ultra	Ubuntu 18.04, 20.04
	OptiPlex 7090 Ultra	DCA_Enabler - 1.0.0-72, DCA_Enabler - 1.1.0-17
	OptiPlex 3090 Ultra	DCA_Enabler - 1.2.0-25, DCA_Enabler - 1.2.1-14
	Latitude 3320	DCA_Enabler-1.4.0.26, DCA_Enabler-1.4.1.4 and later
Wyse Converter for PCs	NA	2.1.2.141
		Wyse Device Agent: 14.6.2.13

Supported operating system matrix

Table 27. Supported operating systems

Operating system	WMS server	WMS repository	Remote database
Windows Server 2012 R2 English	Supported	Supported	Supported
Windows Server 2012 R2 French	Supported	Supported	Not supported
Windows Server 2012 R2 Italian	Supported	Supported	Not supported
Windows Server 2012 R2 German	Supported	Supported	Not supported
Windows Server 2012 R2 Spanish	Supported	Supported	Not supported
Windows Server 2016 English	Supported	Supported	Supported
Windows Server 2016 French	Supported	Supported	Not supported
Windows Server 2016 Italian	Supported	Supported	Not supported
Windows Server 2016 German	Supported	Supported	Not supported
Windows Server 2016 Spanish	Supported	Supported	Not supported
Windows Server 2019 Standard English	Supported	Supported	Supported

Supported browsers

Table 28. Supported browsers

Browsers	Version
Chrome	100.0.4896.88 and later
Firefox	91.8.0 and later
Internet Explorer	11.0 and later
Edge browser	100.0.1185.39

Important notes

- MS Gina should be selected when you configure keyboard layouts.
- Language pack should be pre-installed on the Windows 10 IoT Enterprise image to apply the default language configuration.
- Updating substitute keyboard layouts restarts the device twice if MS Gina is enabled.
- For information about the changes or updates to the ThinOS and Dell Hybrid Client configurations, see *ThinOS 9.x Administrator's Guide and Release notes* and *Dell Hybrid Client Administrator's Guide and Release notes* at www.dell.com/support.
- If you are using Wyse Easy Setup 2.0.0.158 or earlier versions, you must upgrade Wyse Easy Setup to 2.0.0.189 after you upgrade Wyse Device Agent to 14.6.1.4.

Server or device agent details

Table 29. Server or device agent details

File name	Description	Version
WMS_3.6.1.exe	Wyse Management Suite server	3.6.1.23
WMS_Repo.exe	Wyse Management Suite repository	3.6.1.9
WDA_14.6.3.1_Unified.exe	Unified WDA for Windows 10 IoT Enterprise	14.6.3.1
configUI_signed.zip	configUI_signed.zip	1.5.324
WMS_Import_Tool.exe	Wyse Management Suite Import Tool	1.7.2.115
DCA_Enabler_1.4.1-4_amd64_signed.tar.gz	DCA_Enabler	1.4.1-4
DCA_Enabler_Packages_1.4.1-4_amd64_signed.tar.gz	DCA_Enabler_Packages	1.4.1-4
DCA_Enabler_1.4.1-4.zip	DCA Enabler and DCA Enabler Package combined Zipped	1.4.1-4
SoftwareVaultUtility-1.1.0.0.exe	Software Vault Utility	1.1.0.0

Windows Server configuration requirements

Table 30. Windows Server configuration requirements

Devices	Server requirements
Minimum server requirements for Wyse management Suite operations with 10,000 devices	<ul style="list-style-type: none"> • Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard • Minimum CPU requirements—4 CPU • Minimum Disk Space—40 GB • Minimum Memory—8 GB

Table 30. Windows Server configuration requirements (continued)

Devices	Server requirements
	<p>i NOTE: For 10,000 devices setup, the minimum memory (RAM) should be 12 GB for Secure MQTT communications.</p>
Server requirement for Wyse Management Suite operations with 50,000 devices	<ul style="list-style-type: none"> • Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard • Minimum CPU requirements—4 CPU • Minimum Disk Space—120 GB • Minimum Memory—16 GB
Server requirement for Wyse Management Suite operations with 120,000 devices	<ul style="list-style-type: none"> • Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard • Minimum CPU requirements—16 CPU • Minimum Disk Space—200 GB • Minimum Memory—32 GB

Wyse Management Suite upgrade path

Table 31. Wyse Management Suite upgrade path

Upgrade type	Upgrade path	Compatibility
3.3 to 3.6.1	3.3 > 3.6.1	Supported
	3.3 > 3.3.1 > 3.6.1	Supported
	3.3 > 3.3.1 > 3.5 > 3.6.1	Supported
	3.3 > 3.3.1 > 3.5 > 3.5.1 > 3.6.1	Supported
	3.3 > 3.3.1 > 3.5 > 3.5.1 > 3.5.2 > 3.6.1	Supported
	3.3 > 3.3.1 > 3.5 > 3.5.1 > 3.5.2 > 3.6 > 3.6.1	Supported
3.3.1 to 3.6.1	3.3.1 > 3.6.1	Supported
	3.3.1 > 3.5 > 3.6.1	Supported
	3.3.1 > 3.5 > 3.5.1 > 3.6.1	Supported
	3.3.1 > 3.5 > 3.5.1 > 3.5.2 > 3.6.1	Supported
	3.3.1 > 3.5 > 3.5.1 > 3.5.2 > 3.6 > 3.6.1	Supported
3.5 to 3.6.1	3.5 > 3.6.1	Supported
	3.5 > 3.5.1 > 3.6.1	Supported
	3.5 > 3.5.1 > 3.5.2 > 3.6.1	Supported
	3.5 > 3.5.1 > 3.5.2 > 3.6 > 3.6.1	Supported
3.5.1 to 3.6.1	3.5.1 > 3.6.1	Supported
	3.5.1 > 3.5.2 > 3.6.1	Supported
	3.5.1 > 3.5.2 > 3.6 > 3.6.1	Supported
3.5.2 to 3.6.1	3.5.2 > 3.6.1	Supported
	3.5.2 > 3.6 > 3.6.1	Supported
3.6 to 3.6.1	3.6 > 3.6.1	Supported

Table 31. Wyse Management Suite upgrade path (continued)

Upgrade type	Upgrade path	Compatibility
1.0 to 3.6.1	1.0 > 1.1 > 1.2 > 1.3 > 1.4 > 1.4.1 > 2.0 > 2.1 > 3.0 > 3.1 > 3.1.1 > 3.2 > 3.2.1 > 3.3 > 3.3.1 > 3.5 > 3.5.1 > 3.5.2 > 3.6	Supported <i>i</i> NOTE: For administrators who want to upgrade Wyse Management Suite, ProSupport is provided only from Wyse Management Suite version 3.3 and later versions.

How to upgrade Wyse Management Suite when MariaDB or MongoDB files are missing

When the MariaDB and MongoDB binary files are not available before you upgrade to version 3.6.1, you cannot upgrade Wyse Management Suite. You must ensure that the MongoDB binaries are present in MongoDB bin folder. For example, the files should be present in C:\Program Files\DELL\WMS\MongoDB\bin. Similarly, the MariaDB files or folder count should be approximately 597 Files and 38 Folders. For example, C:\Program Files\DELL\WMS\MariaDB. To address the issue, do the following:

Download and extract the following MariaDB and MongoDB binaries to a temporary directory based on the version of Wyse Management Suite installed on your system:

Table 32. MariaDB and MongoDB binaries

Wyse Management Suite version	Download link for MariaDB files	Download link for MongoDB files
3.3 and 3.3.1	https://archive.mariadb.org/mariadb-10.2.35/winx64-packages/mariadb-10.2.35-winx64.zip	https://fastdl.mongodb.org/win32/mongodb-win32-x86_64-2012plus-4.2.12.zip
3.5, 3.5.1 and 3.5.2	https://archive.mariadb.org/mariadb-10.2.40/winx64-packages/mariadb-10.2.40-winx64.zip	https://fastdl.mongodb.org/win32/mongodb-win32-x86_64-2012plus-4.2.16.zip
3.6	https://archive.mariadb.org/mariadb-10.6.5/winx64-packages/mariadb-10.6.5-winx64.zip	https://fastdl.mongodb.org/win32/mongodb-win32-x86_64-2012plus-4.2.17.zip

- From the extracted MongoDB files, copy the following files to the target directory:
 - Mongo.exe
 - Mongod.exe
 - Mongodump.exe
 - Mongoexport.exe
 - Mongoimport.exe
 - Mongorestore.exe
 - Mongos.exe
- Copy all the extracted MariaDB files to the target directory.
- Stop the following Wyse Management Suite services:
 - Dell WMS: Tomcat
 - Dell WMS: MQTT
 - Dell WMS: memcached
 - Dell WMS: MariaDB
 - Dell WMS: MongoDB
 - Dell WMS: Software Vault—applicable for Wyse Management Suite version 3.5 and later
- Replace the files in <Install Dir>\MariaDB Folder and <Install Dir>\MongoDB\bin with the extracted files.
- Restart the Wyse Management Suite services.
- Upgrade Wyse Management Suite.

Fixed issues

Table 33. Fixed issues

Issue ID	Description
WMS-680	Fixed the 3.5 to 3.6.1 upgrade issues.
WMSNG-9633	Fixed the OpenSSL Infinite Loop Vulnerability— CVE-2022-0778.
WMSNG-9673	Fixed the Spring RCE Vulnerabilities— CVE-2022-22965.

Wyse Management Suite version 3.6

Compatibility

Supported Dell end-points on Wyse Management Suite

Table 34. Supported Dell end-points on Wyse Management Suite

Operating System	Platform	Wyse Device Agent versions
Windows 10 IoT Enterprise 2019 LTSC	Wyse 5070 and 5070 Extended Thin Client	10.04.06.09.19.00, 10.04.06.11.20, 10.04.06.06.21.00 Wyse Device Agent: 14.6.1.4 and later
	Wyse 5470 Thin Client	10.04.08.09.19.00, 10.04.08.11.20, 10.04.08.06.21.00 Wyse Device Agent: 14.6.1.4 and later
	Wyse 5470 AIO Thin Client	10.04.07.09.19.00, 10.04.07.11.20, 10.04.07.06.21.00 Wyse Device Agent: 14.6.1.4 and later
Windows 10 IoT Enterprise LTSC 2021	Optiplex 3000 Thin Client	10.05.09.01.22.00 10.05.10.01.22.00 Wyse Device Agent: 14.6.2.3 and later
ThinOS	<ul style="list-style-type: none"> Wyse 3010 Thin Client Wyse 3020 Thin Client Wyse 3030 LT Thin Client (with and without PColP) Wyse 5040 Thin Client (ThinOS, PColP) Wyse 5010 Thin Client (ThinOS, PColP) Wyse 7010 Thin Client (with and without PColP) Wyse 5060 Thin Client (with and without PColP) 	8.5.x, 8.6.x
	<ul style="list-style-type: none"> Wyse 3040 Thin Client (with and without PColP) Wyse 5070 Thin Client (with and without PColP) Wyse 5470 Thin Client Wyse 5470 AIO Thin Client (with and without PColP) 	8.6.x, 9.0.x, 9.1.x
Teradici	Wyse 5030 PColP zero client	5.x, 6.x, 20.x, 21.x
	Wyse 7030 PColP zero client	
	Wyse 5050 AIO Thin Client	
Dell Hybrid Client	Wyse 5070 Thin Client	Ubuntu 18.04, 20.04
	Wyse 5070 Extended Thin Client	Bundle—Dell Hybrid Client version 1.1, 1.1.01. 1.5 and 1.6

Table 34. Supported Dell end-points on Wyse Management Suite (continued)

Operating System	Platform	Wyse Device Agent versions
	OptiPlex 7070 Ultra OptiPlex 7090 Ultra OptiPlex 3090 Ultra Latitude 3320	Dell Client Agent - 1.0.0, 1.1.03, 1.2.0, 1.1.1, 1.3.x and later
Dell Ubuntu (Generic) Client	OptiPlex 7070 Ultra OptiPlex 7090 Ultra OptiPlex 3090 Ultra Latitude 3320	Ubuntu 18.04, 20.04 DCA_Enabler - 1.0.0-72, DCA_Enabler - 1.1.0-17 DCA_Enabler - 1.2.0-25, DCA_Enabler - 1.2.1-14 DCA_Enabler-1.4.0.26, DCA_Enabler-1.4.1.4 and later
Wyse Converter for PCs	NA	2.1.2.141 Wyse Device Agent: 14.6.2.13

Supported operating system matrix

Table 35. Supported operating systems

Operating system	WMS server	WMS repository	Remote database
Windows Server 2012 R2 English	Supported	Supported	Supported
Windows Server 2012 R2 French	Supported	Supported	Not supported
Windows Server 2012 R2 Italian	Supported	Supported	Not supported
Windows Server 2012 R2 German	Supported	Supported	Not supported
Windows Server 2012 R2 Spanish	Supported	Supported	Not supported
Windows Server 2016 English	Supported	Supported	Supported
Windows Server 2016 French	Supported	Supported	Not supported
Windows Server 2016 Italian	Supported	Supported	Not supported
Windows Server 2016 German	Supported	Supported	Not supported
Windows Server 2016 Spanish	Supported	Supported	Not supported
Windows Server 2019 Standard English	Supported	Supported	Supported

Supported browsers

Table 36. Supported browsers

Browsers	Version
Chrome	97.0.4692.99 and later
Firefox	91.5.0 and later
Internet Explorer	11.0 and later
Edge browser	97.0.1072.69

New and enhanced features

Dell Hybrid Client Granular permission during Wyse Management Suite User creation

The function is available for Custom Group administrator and Custom Global administrator.

Wyse Management Suite administrator can choose the Dell Hybrid Client Granular level configuration parameters during assigning the role to the Wyse Management Suite User under **Groups & Configs > Create/Edit Policies**.

The following Dell Hybrid Client Configuration parameters are available for Granular permission in Wyse Management Suite 3.6 release.

- Login Experience
 - Domain Join
 - Username
 - Password
- BIOS
 - All BIOS password

Enhanced Wyse Management Suite Installer

Wyse Management Suite installer supports new installation and upgrade from Wyse Management Suite 3.3 and Wyse Management Suite 3.3.1 with existing user and domain user for Wyse Management Suite Service Account credentials.

As per the security guidelines, the user who is configured for Wyse Management Suite services should have minimum privileges. Select one of the following options for Wyse Management Suite Service Account Credentials during Wyse Management Suite Installation or Upgrade.

Create New Local User

- Creates a new user which is added to Users group.
- The created user will not have administrative rights.
- Password complexity: 9-127 Characters, 1 uppercase, 1 lowercase, 1 special character (except spaces), 1 number.

Existing Local User

- Selected user must exist and successfully log in to the system once.
- User must have service log in rights (SeServiceLogonRight).
- Dell Technologies recommends that this user does not have administrative rights.
- The installer will not perform any password complexity checks for this user.

Existing Domain User

- Selected user must exist and successfully log in to the system once.
- User must have service log in rights (SeServiceLogonRight).
- Dell Technologies recommends that this user does not have administrative rights.
- The installer will not perform any password complexity checks for this user.

Amazon Web Services and Azure Cloud support for the repository

Wyse Management Suite 3.6 repository can be installed on Windows 2016 and Windows 2019 virtual machines hosted on Azure and Amazon Web Services (AWS) environment.

After you install the repository, the Wyse Management Suite repository URL appears as the hostname of the virtual machine which may not be reachable by the end points. Edit the URL and the DNS name of the virtual machine must be used as the URL before registering to Wyse Management Suite.

Following are a few examples of the DNS address:

- Azure VM address: *uw2-wmstest-vw01.westus2.cloudapp.azure.com*
- AWS VM address: *ec2-3-141-79-165.us-east-2.compute.amazonaws.com*

Enhanced Wyse Management Suite repository installer

Wyse Management Suite repository installer supports new installation and upgrade from Wyse Management Suite 3.3 with existing user and domain user for Wyse Management Suite Service Account credentials.

As per the security guidelines, the user who is configured for Wyse Management Suite services should have minimum privileges. Select one of the following options for Wyse Management Suite Service Account Credentials during Wyse Management Suite repository installation or upgrade:

Create New Local User

- Creates a new user which is added to Users group.
- The created user will not have administrative rights.
- Password complexity: 9-127 Characters, 1 uppercase, 1 lowercase, 1 special character (except spaces), 1 number.

Existing Local User

- Selected user must exist and successfully log in to the system once.
- User must have service log in rights (SeServiceLogonRight). For information on how to create a user and assign LogonRight, see [How to create a user and assign LogonRight privilege](#).
- Dell Technologies recommends that this user does not have administrative rights.
- The installer will not perform any password complexity checks for this user.

Existing Domain User

- Selected user must exist and successfully log in to the system once.
- Ensure that the LDAP port 389 is open to communicate from Wyse Management Suite on-premise server to AD Domain server.
- User must have service log in rights (SeServiceLogonRight). For information on how to create a domain user, see [How to create a domain user](#).
- Dell Technologies recommends that this user does not have administrative rights.
- The installer will not perform any password complexity checks for this user.

Fixed issues

Table 37. Fixed issues

Issue ID	Description
WMS-597	Fixed the issue where the wrong user Active Directory group is reported after you import an LDAP user in Wyse Management Suite On Premise.
WMS-612	Fixed the issue where the policy is not imported after upgrading to Wyse Management Suite 3.5.
WMS-599	Fixed the issue where Windows 10 1809 R5 - Horizon Client 2106 is unable to enter password when Unified Write Filter is enabled.
WMS-618	Fixed the issue where Active Directory User Group is imported and assigned to Global Administrator role, but new imported user goes into Unassigned.
WMS-620	Fixed the issue with importing policy in Wyse Management Suite from one subgroup to another subgroup within same parent group.
WMS-626	Fixed the issue where the Resource is not found after Wyse Management Suite is upgraded from version 3.5.1 to 3.5.2.
WMS-636	Fixed the issue that occurs during policy import from one group to another.
WMS-604	Fixed the issue that occurs while uploading the package to Wyse Management Suite portal.
WMS-641	Fixed the vulnerability CVE-2021-4104 observed in Wyse Management Suite 3.5.2.

Table 37. Fixed issues (continued)

Issue ID	Description
WMS-629	Fixed the issue where Wyse Management Suite becomes slow and the server CPU functions at less than 100% after updating it to version 3.5.1 or 3.5.2.
WMS-631	Fixed the issue where importing bulk devices exceptions fails in Wyse Management Suite.
WMS-634	Fixed the issue where the upgrade fails with error in launching script.
WMS-649	Fixed the issue where Dell Hybrid Client repository is blank when clicking App & Data .
WMSNG-8125	Fixed the issue where the Devices Summary on the Dashboard says that the device is compliant but the devices tab shows noncompliance.
WMSNG-8018	Fixed the issue with Wyse Management Suite report which is generated for user preference events.
WMSNG-8017	Fixed the issue where the login description is displayed as N/A in report generation.
WMSNG-8016	Fixed the issue where the Report Generation is in UTC but report events are generated as per the local time zone of the browser.
WMSNG-8005	Fixed the issue where the device does not get listed in a custom group with special character name.
WMSNG-7876	Fixed the issue where the user does not have permission to create a group.
WMSNG-7845	Fixed the issue where the Tooltip description does not contain information about Import button in configurations for ThinOS 9.x and Hybrid Client.
WMSNG-7842	Fixed the issue where the screen capture Image is not appearing in Internet Explorer.
WMSNG-7784	Fixed the issue where the file gets imported without displaying an error for Connection icon in Custom Connection settings. This issue is observed in Dell Hybrid Client operating system.
WMSNG-7462	Fixed the issue where the text does not get translated correctly in the selected language in Wyse Management suite user interface.
WMSNG-7263	Fixed the issue where the Device IP is displayed in Subnet/Prefix filters.
WMSNG-143	Increased the digit limit for job.
WMS-640	Fixed the issue where Citrix always prompts to add account in Kiosk mode.
WMSNG-9031	Replaced the query to disable or enable filter with standard Microsoft command.

Important notes

- Microsoft Gina should be selected when you configure keyboard layouts.
- Language pack should be pre-installed on the Windows 10 IoT Enterprise image to apply the default language configuration.
- Updating substitute keyboard layouts restarts the device twice if Microsoft Gina is enabled.

- For information about the changes or updates to the ThinOS and Dell Hybrid Client configurations, see *ThinOS 9.x Administrator's Guide and Release notes* and *Dell Hybrid Client Administrator's Guide and Release notes* at www.dell.com/support.
- If you are using Wyse Easy Setup 2.0.0.158 or earlier versions, you must upgrade Wyse Easy Setup to 2.0.0.189 after you upgrade Wyse Device Agent to 14.6.1.4.
- When the Citrix connection is deployed from Wyse Management Suite and if Citrix application is active or in use, and then the default Citrix connection cannot be launched.

Server or device agent details

Table 38. Server or device agent details

File name	Description	Version
WMS_3.6.exe	Wyse Management Suite server	3.6.0.241
WMS_Repo.exe	Wyse Management Suite repository	3.6.0.50
WDA_14.6.3.1_Unified.exe	Unified WDA for Windows 10 IoT Enterprise	14.6.3.1
configUI_signed.zip	configUI_signed.zip	1.5.302
WMS_Import_Tool.exe	Wyse Management Suite Import Tool	1.7.2.115
DCA_Enabler_1.4.1-4_amd64_signed.tar.gz	DCA_Enabler	1.4.1-4
DCA_Enabler_Packages_1.4.1-4_amd64_signed.tar.gz	DCA_Enabler_Packages	1.4.1-4
DCA_Enabler_1.4.1-4.zip	DCA Enabler and DCA Enabler Package combined Zipped	1.4.1-4


Windows Server configuration requirements

Table 39. Windows Server configuration requirements

Devices	Server requirements
Minimum server requirements for Wyse management Suite operations with 10,000 devices	<ul style="list-style-type: none"> • Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard • Minimum CPU requirements—4 CPU • Minimum Disk Space—40 GB • Minimum Memory—8 GB <p>NOTE: For 10,000 devices setup, the minimum memory (RAM) should be 12 GB for Secure MQTT communications.</p>
Server requirement for Wyse Management Suite operations with 50,000 devices	<ul style="list-style-type: none"> • Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard • Minimum CPU requirements—4 CPU • Minimum Disk Space—120 GB • Minimum Memory—16 GB
Server requirement for Wyse Management Suite operations with 120,000 devices	<ul style="list-style-type: none"> • Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard • Minimum CPU requirements—16 CPU • Minimum Disk Space—200 GB • Minimum Memory—32 GB

Wyse Management Suite upgrade path

Table 40. Wyse Management Suite upgrade path

Upgrade type	Upgrade path	Compatibility
3.3 to 3.6	3.3 > 3.6	Supported
	3.3 > 3.3.1 > 3.6	Supported
	3.3 > 3.3.1 > 3.5 > 3.6	Supported
	3.3 > 3.3.1 > 3.5 > 3.5.1 > 3.6	Supported
	3.3 > 3.3.1 > 3.5 > 3.5.1 > 3.5.2 > 3.6	Supported
3.3.1 to 3.6	3.3.1 > 3.6	Supported
	3.3.1 > 3.5 > 3.6	Supported
	3.3.1 > 3.5 > 3.5.1 > 3.6	Supported
	3.3.1 > 3.5 > 3.5.1 > 3.5.2 > 3.6	Supported
3.5 to 3.6	3.5 > 3.6	Supported
	3.5 > 3.5.1 > 3.6	Supported
	3.5 > 3.5.1 > 3.5.2 > 3.6	Supported
3.5.1 to 3.6	3.5.1 > 3.6	Supported
	3.5.1 > 3.5.2 > 3.6	Supported
3.5.2 to 3.6	3.5.2 > 3.6	Supported
1.0 to 3.6	1.0 > 1.1 > 1.2 > 1.3 > 1.4 > 1.4.1 > 2.0 > 2.1 > 3.0 > 3.1 > 3.1.1 > 3.2 > 3.2.1 > 3.3 > 3.3.1 > 3.5 > 3.5.1 > 3.5.2 > 3.6	Supported  NOTE: For Admins who want to upgrade Wyse Management Suite, ProSupport is provided only from Wyse Management Suite version 3.3 and later.

KB article references

- Unable to update the Wyse Management Suite Standard or Private Cloud certificate—<https://www.dell.com/support/kbdoc/000192102>

How to create a user and assign LogonRight privilege

1. Log in as an administrator to the Windows server where Wyse Management Suite is going to be installed.
2. Go to **Computer Management > Local users and groups > Users**.
3. Right-click the right window pane and select **New User**.
4. Enter the username, full name, and password details and click **Save**.
5. Right-click the new user and select **Properties**.
6. Click the **Members of** tab and add the user group details if required. By default, the created user is added to the Local Users group.
7. Clear the **User must change password at next logon** option and select the **User cannot change password and Password never expires** option. By default, **User must change password at next logon** option is enabled.
8. On the Windows server, go to **Local Security Policy > Local Policies > User Right Assignment**.
9. Right-click **Log on as a service** and select **Properties**.
10. Click **Add User or Group** and add the user.

11. Click **Ok**.

How to create a domain user

1. Log in to the AD domain server as an administrator.
2. Go to **Active Directory Users and Computers > Users**.
3. Right-click the right window pane and click **New Users**.
4. Enter the username, full name, and password details and click **Save**.
5. Right-click the new user and select **Properties**.
6. Click the **Members of** tab and add the user group details if required.
By default, the created user is added to the Domain Users group.
7. Clear the **User must change password at next logon** option and select the **User cannot change password and Password never expires** option.
By default, **User must change password at next logon** option is enabled.

Do the following when you are installing the Wyse Management Suite server or repository:

1. On the Windows server, go to **Local Security Policy > Local Policies > User Right Assignment**.
2. Right-click **Log on as a service** and select **Properties**.
3. Click **Add User or Group** and add your domain name. For example, domain\users; domain\administrator.
4. Click **Ok**.

Known issues

Table 41. Known issues

Issue ID	Description	Work-around
WMSNG-8690	When the device is unregistered from Enrollment Validation state, the database is not cleared.	There is no work-around.
WMSNG-8614	Application row is not aligned properly in Advanced application policy page of Wyse Software Thin Client.	There is no work-around.
WMSNG-8688	An Empty notepad file-repo is created on installer location while upgrading to Wyse Management Suite 3.6.	There is no work-around.
WMSNG-8730	Child select group allows the user to import the policies from same group.	There is no work-around.
WMSNG-8686	Date format is not localized in Configuration policy for thinos9.x.	Reload the Configuration UI in English.
WMSNG-8815	Close button is not visible in Bulk Import information window when the language is changed to non-English.	To close the Bulk Import information window, user can zoom out the page to see the close button. Or refresh the page to close the window.
WMSNG-8825	Unable to Edit Active Directory User and deactivate Active Directory User in User > Unassigned Admins when that Imported User is clicked.	Use the buttons on the previous screen to deactivate or edit user.
WMSNG-9000	The unmanaged device count is increased by 1 when you log in to Wyse Management Suite using the mobile application. This results in a quarantine Group email notification from Wyse Management Suite.	Log out from the mobile application and the issue is resolved.

Table 41. Known issues (continued)

Issue ID	Description	Work-around
WMSNG-9096	You cannot remove Chromium browser policy in Kiosk mode.	There is no work-around.
WMSNG-9198	Citrix connection started in Kiosk mode is minimized automatically to task bar.	There is no work-around.

Wyse Management Suite 3.5.2

Wyse Management Suite version 3.5.2 release addresses the Apache Log4j vulnerability issue CVE-2021-45046 and CVE-2021-45105.

Compatibility

Supported Dell end-points on Wyse Management Suite

Table 42. Supported Dell end-points on Wyse Management Suite

Operating System	Platform	Wyse Device Agent versions
Windows 10 IoT Enterprise 2019 LTSC	Wyse 5070 and 5070 Extended Thin Client	10.03.06.11.19, 10.04.06.09.19.00, 10.04.06.11.20, 10.04.XX.06.21.00 Wyse Device Agent: 14.6.0.27 and later
	Wyse 5470 Thin Client	10.03.08.07.19.00, 10.03.06.11.19, 10.04.06.11.20, 10.04.XX.06.21.00 Wyse Device Agent: 14.6.0.27 and later
	Wyse 5470 AIO Thin Client	10.03.07.06.19.00, 10.03.06.11.19, 10.04.06.11.20, 10.04.XX.06.21.00 Wyse Device Agent: 14.6.0.27 and later
ThinOS	<ul style="list-style-type: none"> Wyse 3010 Thin Client Wyse 3020 Thin Client Wyse 3030 LT Thin Client (with and without PColP) Wyse 5040 Thin Client (ThinOS, PColP) Wyse 5010 Thin Client (ThinOS, PColP) Wyse 7010 Thin Client (with and without PColP) Wyse 5060 Thin Client (with and without PColP) 	8.5.x, 8.6.x
	<ul style="list-style-type: none"> Wyse 3040 Thin Client (with and without PColP) Wyse 5070 Thin Client (with and without PColP) Wyse 5470 Thin Client Wyse 5470 AIO Thin Client (with and without PColP) 	8.6.x, 9.0.x, 9.1.x
Teradici	Wyse 5030 PColP zero client	5.x, 6.x, 20.x, 21.x
	Wyse 7030 PColP zero client	
	Wyse 5050 AIO Thin Client	

Table 42. Supported Dell end-points on Wyse Management Suite (continued)

Operating System	Platform	Wyse Device Agent versions
Dell Hybrid Client	Wyse 5070 Thin Client	Ubuntu 18.04, 20.04
	Wyse 5070 Extended Thin Client	Bundle—Dell Hybrid Client 1.1 - 1288, Dell Hybrid Client 1.5, Dell Hybrid Client 1.1 MR1
	OptiPlex 7070 Ultra	Dell Client Agent - 1.0.0, 1.1.03, 1.2.0, 1.1.1, 1.3.x and later
	OptiPlex 7090 Ultra	
	OptiPlex 3090 Ultra	
	Latitude 3320	
Dell Ubuntu (Generic) Client	OptiPlex 7070 Ultra	Ubuntu 18.04, 20.04
	OptiPlex 7090 Ultra	DCA_Enabler - 1.0.0-72, DCA_Enabler - 1.1.0-17
	OptiPlex 3090 Ultra	DCA_Enabler - 1.2.0-25, DCA_Enabler - 1.2.1-14
	Latitude 3320	DCA_Enabler-1.3.0.23 and later

Supported operating system matrix

Table 43. Supported operating systems

Operating system	WMS server	WMS repository	Remote database
Windows Server 2012 R2 English	Supported	Supported	Supported
Windows Server 2012 R2 French	Supported	Supported	Not supported
Windows Server 2012 R2 Italian	Supported	Supported	Not supported
Windows Server 2012 R2 German	Supported	Supported	Not supported
Windows Server 2012 R2 Spanish	Supported	Supported	Not supported
Windows Server 2016 English	Supported	Supported	Supported
Windows Server 2016 French	Supported	Supported	Not supported
Windows Server 2016 Italian	Supported	Supported	Not supported
Windows Server 2016 German	Supported	Supported	Not supported
Windows Server 2016 Spanish	Supported	Supported	Not supported
Windows Server 2019 Standard English	Supported	Supported	Supported

Supported browsers

Table 44. Supported browsers

Browsers	Version
Chrome	97.0.4692.99 and later
Firefox	91.5.0 and later
Internet Explorer	11.0 and later
Edge browser	97.0.1072.69

Fixed issues

Table 45. Fixed issues

Issue number	Description
WMSNG-8509	Fixed the issue where the Portal Administration setup stops responding after you upgrade to 3.5.1, if the Wyse Management Suite components are installed in the custom port.
WMSNG-8526, WMS-616, WMS-621, WMS-622, WMS-623, and WMS-624	Fixed the issue where the upgrade from 3.5 to 3.5.1 fails when the setup cannot retrieve database details.
WMSNG-8545	Fixed the issue where the vulnerable Binaries are not deleted from the Archive folder after the upgrade.
WMSNG-8510	Fixed the issue where you cannot upgrade Wyse Management Suite 3.3.1 to 3.5.
WMSNG-8507	Fixed the issue where Wyse Management Suite 3.5.1 Repository installer link in the File Repository page in the Portal Administration section is displayed as Download version 3.5.0 .
WMSNG-8600	Fixed the vulnerability CVE-2021-45105 for Wyse Management Suite and EMSDK.
WMS-588	Fixed the issue where PROTOCOL ERROR message is displayed when you push updates to Windows 10 IoT Enterprise devices when using the latest Wyse Device Agent.
WMS-605	Fixed the issue where you were unable to deploy applications after you update Wyse Device Agent to 14.5.X on excluded subnet to disable the proxy on Wyse 5470 Thin Clients running Windows 10 IoT Enterprise.

Important notes

- MS Gina should be selected when you configure keyboard layouts.
- Language pack should be pre-installed on the Windows 10 IoT Enterprise image to apply the default language configuration.
- Updating substitute keyboard layouts restarts the device twice if MS Gina is enabled.
- For information about the changes or updates to the ThinOS and Dell Hybrid Client configurations, see *ThinOS 9.x Administrator's Guide and Release notes* and *Dell Hybrid Client Administrator's Guide and Release notes* at www.dell.com/support.
- If you are using Wyse Easy Setup 2.0.0.158 or earlier versions, you must upgrade Wyse Easy Setup to 2.0.0.189 after you upgrade Wyse Device Agent to 14.6.1.4.

Server or device agent details

Table 46. Server or device agent details

File name	Description	Version
WMS_3.5.1.exe	Wyse Management Suite server	3.5.2.16
WMS_Repo.exe	Wyse Management Suite Repository	3.5.2.3
WDA_14.6.1.4_Unified.exe	Unified WDA for Windows 10 IoT Enterprise	14.6.1
configUI_signed.zip	configUI_signed.zip	1.5.273
WMS_Import_Tool.exe	Wyse Management Suite Import Tool	1.7.1.105

Table 46. Server or device agent details (continued)

File name	Description	Version
DCA_Enabler_1.3.0-23_amd64_signed.tar.gz	DCA_Enabler	1.3.0-23
DCA_Enabler_Packages_1.3.0-23_amd64_signed.tar.gz	DCA_Enabler_Packages	1.3.0-23

Windows Server configuration requirements

Table 47. Windows Server configuration requirements

Devices	Server requirements
Minimum server requirements for Wyse management Suite operations with 10,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—4 CPU Minimum Disk Space—40 GB Minimum Memory—8 GB <p>NOTE: For 10,000 devices setup, the minimum memory (RAM) should be 12 GB for Secure MQTT communications.</p>
Server requirement for Wyse Management Suite operations with 50,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—4 CPU Minimum Disk Space—120 GB Minimum Memory—16 GB
Server requirement for Wyse Management Suite operations with 120,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—16 CPU Minimum Disk Space—200 GB Minimum Memory—32 GB

Wyse Management Suite upgrade path

Table 48. Wyse Management Suite upgrade path

Upgrade type	Upgrade path	Compatibility
3.2 to 3.5.2	3.2 > 3.5.2	Supported
	3.2 > 3.5.1 > 3.5.2	Supported
	3.2 > 3.5 > 3.5.1 > 3.5.2	Supported
	3.2 > 3.2.1 > 3.5 > 3.5.1 > 3.5.2	Supported
	3.2 > 3.2.1 > 3.3 > 3.5 > 3.5.1 > 3.5.2	Supported
	3.2 > 3.2.1 > 3.3 > 3.3.1 > 3.5 > 3.5.1 > 3.5.2	Supported
3.2.1 to 3.5.2	3.2.1 > 3.5.2	Supported
	3.2.1 > 3.5.1 > 3.5.2	Supported
	3.2.1 > 3.5 > 3.5.1 > 3.5.2	Supported
	3.2.1 > 3.3 > 3.5 > 3.5.1 > 3.5.2	Supported
	3.2.1 > 3.3 > 3.3.1 > 3.5 > 3.5.1 > 3.5.2	Supported

Table 48. Wyse Management Suite upgrade path (continued)

Upgrade type	Upgrade path	Compatibility
3.3 to 3.5.2	3.3 > 3.5.2	Supported
	3.3 > 3.5.1 > 3.5.2	Supported
	3.3 > 3.5 > 3.5.1 > 3.5.2	Supported
	3.3 > 3.3.1 > 3.5 > 3.5.1 > 3.5.2	Supported
3.3.1 to 3.5.2	3.3.1 > 3.5.2	Supported
	3.3.1 > 3.5.1 > 3.5.2	Supported
	3.3.1 > 3.5 > 3.5.1 > 3.5.2	Supported
3.5 to 3.5.2	3.5 > 3.5.2	Supported
	3.5 > 3.5.1 > 3.5.2	Supported
3.5.1 to 3.5.2	3.5.1 > 3.5.2	Supported

Known issues

Table 49. Known issues

Issue number	Issue description	Workaround
WMSNG-8475	The handle is invalid message is displayed because the folder level permission is not provided when you update Wyse Management Suite 3.5.	<ol style="list-style-type: none"> Go to the registry location <code>HKEY_LOCAL_MACHINE:\SOFTWARE\Wow6432Node\Microsoft\Windows\CurrentVersion\Uninstall</code>. Identify the uninstall key bunch with the product name Dell Wyse Management Suite in the above registry. Create a new registry key of type string with key LocalRepository and value <path to local repo> below the identified uninstall key bunch. Upgrade to Wyse Management Suite 3.5 or later versions.
WMSNG-8594	You must use a unique username while installing Wyse Management Suite server or repository. This username should not be same in domain if the server is added to domain.	Use different and unique user for Teradici service and Wyse Management Suite Log On service.
WMSNG-8596	Wyse Management Suite does not start when the Virtual Machine is cloned and the UUID is changed in the cloned Virtual Machine.	There is no work around.
WMSNG-8508	Groups and configs page stops responding when you upgrade from 3.5 with config UI 1.5 300 to 3.5.1.	The Config UI build 1.5.300 must be uploaded again from the Setup page in Portal Administration if you are using Wyse Management Suite on-premise setup.
WMSNG-8011	The installation fails when Teradici server username and Software vault local user credentials are same.	Use a different username for Teradici Server Log On service and Software vault credentials.

Table 49. Known issues (continued)

Issue number	Issue description	Workaround
WMSNG-8601	An error message is displayed when you upgrade Wyse Management Suite repository from 3.3 to 3.5.2 in French and Spanish builds.	There is no work around.
WMSNG-8147	VMware VDI configuration pushed from Wyse Management Suite does not start when you are using VMware Horizon client version 8.3 and later versions.	There is no work around.
WMSNG-8323	VMware always connects with Blast Protocol for PCoIP and RDP Protocols when you are using VM ware Horizon client version 8.3 and later versions.	There is no work around.

Wyse Management Suite 3.5.1

Wyse Management Suite version 3.5.1 release addresses the Apache Log4j vulnerability issue CVE-2021-44228.

Compatibility

Supported Dell end-points on Wyse Management Suite

Table 50. Supported Dell end-points on Wyse Management Suite

Operating System	Platform	Wyse Device Agent versions
Windows 10 IoT Enterprise 2019 LTSC	Wyse 5070 and 5070 Extended Thin Client	10.03.06.11.19, 10.04.06.09.19.00, 10.04.06.11.20, 10.04.XX.06.21.00 Wyse Device Agent: 14.6.0.27 and later
	Wyse 5470 Thin Client	10.03.08.07.19.00, 10.03.06.11.19, 10.04.06.11.20, 10.04.XX.06.21.00 Wyse Device Agent: 14.6.0.27 and later
	Wyse 5470 AIO Thin Client	10.03.07.06.19.00, 10.03.06.11.19, 10.04.06.11.20, 10.04.XX.06.21.00 Wyse Device Agent: 14.6.0.27 and later
ThinOS	<ul style="list-style-type: none"> Wyse 3010 Thin Client Wyse 3020 Thin Client Wyse 3030 LT Thin Client (with and without PCoIP) Wyse 5040 Thin Client (ThinOS, PCoIP) Wyse 5010 Thin Client (ThinOS, PCoIP) Wyse 7010 Thin Client (with and without PCoIP) Wyse 5060 Thin Client (with and without PCoIP) 	8.5.x, 8.6.x
	<ul style="list-style-type: none"> Wyse 3040 Thin Client (with and without PCoIP) Wyse 5070 Thin Client (with and without PCoIP) Wyse 5470 Thin Client Wyse 5470 AIO Thin Client (with and without PCoIP) 	8.6.x, 9.0.x, 9.1.x
Teradici	Wyse 5030 PCoIP zero client	5.x, 6.x, 20.x, 21.x
	Wyse 7030 PCoIP zero client	
	Wyse 5050 AIO Thin Client	
Dell Hybrid Client	Wyse 5070 Thin Client	Ubuntu 18.04, 20.04

Table 50. Supported Dell end-points on Wyse Management Suite (continued)

Operating System	Platform	Wyse Device Agent versions
	Wyse 5070 Extended Thin Client	Bundle—Dell Hybrid Client 1.1 - 1288, Dell Hybrid Client 1.5, Dell Hybrid Client 1.1 MR1
	OptiPlex 7070 Ultra OptiPlex 7090 Ultra OptiPlex 3090 Ultra Latitude 3320	Dell Client Agent - 1.0.0, 1.1.03, 1.2.0, 1.1.1, 1.3.x and later
Dell Ubuntu (Generic) Client	OptiPlex 7070 Ultra OptiPlex 7090 Ultra OptiPlex 3090 Ultra Latitude 3320	Ubuntu 18.04, 20.04 DCA_Enabler - 1.0.0-72, DCA_Enabler - 1.1.0-17 DCA_Enabler - 1.2.0-25, DCA_Enabler - 1.2.1-14 DCA_Enabler-1.3.0.23 and later

Supported operating system matrix

Table 51. Supported operating systems

Operating system	WMS server	WMS repository	Remote database
Windows Server 2012 R2 English	Supported	Supported	Supported
Windows Server 2012 R2 French	Supported	Supported	Not supported
Windows Server 2012 R2 Italian	Supported	Supported	Not supported
Windows Server 2012 R2 German	Supported	Supported	Not supported
Windows Server 2012 R2 Spanish	Supported	Supported	Not supported
Windows Server 2016 English	Supported	Supported	Supported
Windows Server 2016 French	Supported	Supported	Not supported
Windows Server 2016 Italian	Supported	Supported	Not supported
Windows Server 2016 German	Supported	Supported	Not supported
Windows Server 2016 Spanish	Supported	Supported	Not supported
Windows Server 2019 Standard English	Supported	Supported	Supported

Supported browsers

Table 52. Supported browsers

Browsers	Version
Chrome	97.0.4692.99 and later
Firefox	91.5.0 and later
Internet Explorer	11.0 and later
Edge browser	97.0.1072.69

Important notes

- MS Gina should be selected when you configure keyboard layouts.
- Language pack should be pre-installed on the Windows 10 IoT Enterprise image to apply the default language configuration.

- Updating substitute keyboard layouts restarts the device twice if MS Gina is enabled.
- For information about the changes or updates to the ThinOS and Dell Hybrid Client configurations, see *ThinOS 9.x Administrator's Guide and Release notes* and *Dell Hybrid Client Administrator's Guide and Release notes* at www.dell.com/support.
- If you are using Wyse Easy Setup 2.0.0.158 or earlier versions, you must upgrade Wyse Easy Setup to 2.0.0.189 after you upgrade Wyse Device Agent to 14.6.1.4.

Server or device agent details

Table 53. Server or device agent details

File name	Description	Version
WMS_3.5.1.exe	Wyse Management Suite server	3.5.1.12
WMS_Repo.exe	Wyse Management Suite Repository	3.5.1.6
WDA_14.6.0.29_Unified.exe	Unified WDA for Windows 10 IoT Enterprise	14.6.0.27
configUI_signed.zip	configUI_signed.zip	1.5.273
WMS_Import_Tool.exe	Wyse Management Suite Import Tool	1.7.1.105
DCA_Enabler_1.3.0-23_amd64_signed.tar.gz	DCA_Enabler	1.3.0-23
DCA_Enabler_Packages_1.3.0-23_amd64_signed.tar.gz	DCA_Enabler_Packages	1.3.0-23

Windows Server configuration requirements

Table 54. Windows Server configuration requirements

Devices	Server requirements
Minimum server requirements for Wyse management Suite operations with 10,000 devices	<ul style="list-style-type: none"> • Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard • Minimum CPU requirements—4 CPU • Minimum Disk Space—40 GB • Minimum Memory—8 GB <p>NOTE: For 10,000 devices setup, the minimum memory (RAM) should be 12 GB for Secure MQTT communications.</p>
Server requirement for Wyse Management Suite operations with 50,000 devices	<ul style="list-style-type: none"> • Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard • Minimum CPU requirements—4 CPU • Minimum Disk Space—120 GB • Minimum Memory—16 GB
Server requirement for Wyse Management Suite operations with 120,000 devices	<ul style="list-style-type: none"> • Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard • Minimum CPU requirements—16 CPU • Minimum Disk Space—200 GB • Minimum Memory—32 GB

Wyse Management Suite upgrade path

- NOTE:** You cannot upgrade Wyse Management Suite 3.3.1 to Wyse Management 3.5.1. You must upgrade to 3.5 before upgrading to 3.5.1.

Table 55. Wyse Management Suite upgrade path

Upgrade type	Upgrade path	Compatibility
3.2 to 3.5.1	3.2 > 3.5.1	Supported
	3.2 > 3.2.1 > 3.5 > 3.5.1	Supported
	3.2 > 3.2.1 > 3.3 > 3.5 > 3.5.1	Supported
	3.2 > 3.2.1 > 3.3 > 3.3.1 > 3.5 > 3.5.1	Supported
	3.2 > 3.5 > 3.5.1	Supported
3.2.1 to 3.5.1	3.2.1 > 3.5.1	Supported
	3.2.1 > 3.3 > 3.5 > 3.5.1	Supported
	3.2.1 > 3.3 > 3.3.1 > 3.5 > 3.5.1	Supported
	3.2.1 > 3.5 > 3.5.1	Supported
3.3 to 3.5.1	3.3 > 3.5.1	Supported
	3.3 > 3.3.1 > 3.5 > 3.5.1	Supported
	3.3 > 3.5 > 3.5.1	Supported
3.3.1 to 3.5.1	3.3.1 > 3.5 > 3.5.1	Supported
3.5 to 3.5.1	3.5 > 3.5.1	Supported

Known issues

Table 56. Known issues

Issue number	Issue description	Workaround
WMSNG-8507	Wyse Management Suite 3.5.1 Repository installer link in the File Repository page in the Portal Administration section is displayed as Download version 3.5.0 .	You can click the link to download the 3.5.1 repository.
WMSNG-8509	If the Wyse Management Suite components are installed in the custom port, the Portal Administration setup stops responding after you upgrade to 3.5.1.	<ol style="list-style-type: none"> Go to the registry location <code>HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\memcached\Parameters</code>, open key <code>AppParameters</code> and add <code>-p [memcached custom port number]</code>. For example, <code>C:\Program Files\DELL\WMS\ServiceMgr\nssm.exe" -l 127.0.0.1 -U 0 -p 11212</code>. Restart the Dell WMS Memcached service from Windows Services. Restart Dell WMS Tomcat service.
WMSNG-8508	The Groups & config page does not respond when you upgrade from Wyse Management Suite 3.5 with config UI version 1.5.300 to Wyse Management Suite 3.5.1.	The Config UI build 1.5.300 must be uploaded again from Portal Administration > Setup if you are using Wyse Management Suite on-premise setup.
WMSNG-8510	You cannot upgrade Wyse Management Suite 3.3.1 to 3.5.	You must upgrade to 3.5 before upgrading to 3.5.1.

Table 56. Known issues (continued)

Issue number	Issue description	Workaround
WMSNG-8011	The installation fails when Teradici server username and Software vault local user credentials are same.	Use a different username for Teradici Server and Software vault credentials.

Wyse Management Suite version 3.5

Compatibility

Supported Dell end-points on Wyse Management Suite

Table 57. Supported Dell end-points on Wyse Management Suite

Operating System	Platform	Wyse Device Agent versions
Windows 10 IoT Enterprise 2019 LTSC	Wyse 5070 and 5070 Extended Thin Client	10.03.06.11.19, 10.04.06.09.19.00, 10.04.06.11.20, 10.04.XX.06.21.00 Wyse Device Agent: 14.6.0.27 and later
	Wyse 5470 Thin Client	10.03.08.07.19.00, 10.03.06.11.19, 10.04.06.11.20, 10.04.XX.06.21.00 Wyse Device Agent: 14.6.0.27 and later
	Wyse 5470 AIO Thin Client	10.03.07.06.19.00, 10.03.06.11.19, 10.04.06.11.20, 10.04.XX.06.21.00 Wyse Device Agent: 14.6.0.27 and later
ThinOS	<ul style="list-style-type: none"> • Wyse 3010 Thin Client • Wyse 3020 Thin Client • Wyse 3030 LT Thin Client (with and without PColP) • Wyse 5040 Thin Client (ThinOS, PColP) • Wyse 5010 Thin Client (ThinOS, PColP) • Wyse 7010 Thin Client (with and without PColP) • Wyse 5060 Thin Client (with and without PColP) 	8.5.x, 8.6.x
	<ul style="list-style-type: none"> • Wyse 3040 Thin Client (with and without PColP) • Wyse 5070 Thin Client (with and without PColP) • Wyse 5470 Thin Client • Wyse 5470 AIO Thin Client (with and without PColP) 	8.6.x, 9.0.x, 9.1.x
Teradici	Wyse 5030 PColP zero client	5.x, 6.x, 20.x, 21.x
	Wyse 7030 PColP zero client	
	Wyse 5050 AIO Thin Client	
Dell Hybrid Client	Wyse 5070 Thin Client	Ubuntu 18.04, 20.04
	Wyse 5070 Extended Thin Client	Bundle—Dell Hybrid Client 1.1 - 1288, Dell Hybrid Client 1.5, Dell Hybrid Client 1.1 MR1

Table 57. Supported Dell end-points on Wyse Management Suite (continued)

Operating System	Platform	Wyse Device Agent versions
	OptiPlex 7070 Ultra OptiPlex 7090 Ultra OptiPlex 3090 Ultra Latitude 3320	Dell Client Agent - 1.0.0, 1.1.03, 1.2.0, 1.1.1, 1.3.x and later
Dell Ubuntu (Generic) Client	OptiPlex 7070 Ultra OptiPlex 7090 Ultra OptiPlex 3090 Ultra Latitude 3320	Ubuntu 18.04, 20.04 DCA_Enabler - 1.0.0-72, DCA_Enabler - 1.1.0-17 DCA_Enabler - 1.2.0-25, DCA_Enabler - 1.2.1-14 DCA_Enabler-1.3.0.23 and later

Supported operating system matrix

Table 58. Supported operating systems

Operating system	WMS server	WMS repository	Remote database
Windows Server 2012 R2 English	Supported	Supported	Supported
Windows Server 2012 R2 French	Supported	Supported	Not supported
Windows Server 2012 R2 Italian	Supported	Supported	Not supported
Windows Server 2012 R2 German	Supported	Supported	Not supported
Windows Server 2012 R2 Spanish	Supported	Supported	Not supported
Windows Server 2016 English	Supported	Supported	Supported
Windows Server 2016 French	Supported	Supported	Not supported
Windows Server 2016 Italian	Supported	Supported	Not supported
Windows Server 2016 German	Supported	Supported	Not supported
Windows Server 2016 Spanish	Supported	Supported	Not supported
Windows Server 2019 Standard English	Supported	Supported	Supported

Supported browsers

Table 59. Supported browsers

Browsers	Version
Chrome	97.0.4692.99 and later
Firefox	91.5.0 and later
Internet Explorer	11.0 and later
Edge browser	97.0.1072.69

New and enhanced features

Support for platform agnostics for vendors

- Lenovo and HP devices with DHC operating system can be registered and managed from WMS 3.5.

- All the devices or platform filters in the **Devices** page and the **Apps policy** pages are updated automatically when the above mentioned devices are registered.
- Manufacturer policy is supported in the **WMS devices** page.

DHC and GC package upload button to Apps & Data

- **Add** button is provided for tenant login in the **Apps & Data** page to upload the respective packages for DHS and GC pages.
- Supports the tenant uploaded packages from RBAC roles.
 - ① **NOTE:** DCA enabler and enabler packages can be uploaded from the **Generic Client** page.
- The files are uploaded from a **Hybrid Client** page that appears in the **Generic Client App** inventory for conversion.
 - ① **NOTE:** Bulk upload of DHC packages is not allowed in the operator's account and the tenant login.
 - ① **NOTE:** Five files are allowed per tenant login.

DHC Package with vendor EULA support

- WMS displays the EULA while uploading the DHC packages.
- If the EULA supports multiple languages, then the EULA language changes as per the language selected for the WMS UI.
- Packages are uploaded successfully only if you accept the EULA.
 - ① **NOTE:** DHC packages must have the EULA embedded in the tar package.

Manage Wyse software Thin Client by using the WMS Thin Client pro license

- If you have enrolled for WMS On-Prem configuration, and then you must install WMS 3.5 version and import Thin Client Pro license to manage Wyse software Thin Client.
- If the license is already expired, and then you must purchase Thin Client pro License and manually update WDA on each device. If you are associated with On-Prem configuration, then you can update to WMS 3.5 version as well.
- Providing the new Wyse software Thin Client license is discontinued from the WMS 3.5 version onwards.
- If there is an active Wyse software Thin Client license, then the device accepts the existing license.
- When the Wyse software Thin Client license is expired, then the devices are unregistered. You must re-register the devices to WMS by using the Thin Client license.
 - ① **NOTE:** WDA (14.6.x) must be updated on Wyse software Thin Clients before the Wyse software Thin Client gets expired.

DHC supports the repo fall-back

- DHC 1.6 supports the repo fall-back if the DHC application is available in multiple repos.
- Make sure that the DHC application is copied and available in all the required WMS repositories.
- Create an **App policy** and schedule to deploy.
- WMS provides all the available repo list to DCA for download.
- DCA downloads from the nearest repo as per the subnet-mapping rule.
- If the first repo and the app downloads are failing, then the DCA falls back to the next available or alternate download URLs to download the application.

User template roles

- In WMS 3.5, predefined template can be created and used to assign roles to the user and user group.
- Role template can be created for global admin, group admin, viewer admin, and the custom WMS roles.
- Two types of users can be created by using the custom WMS role, **Custom Viewer**, **Custom Group Admin**, and the **Custom Global Admin**.
- **Custom Viewer** has an access to the selected device groups, user groups, and the device commands.

- **Custom Group Admin** has an access to the selected device groups, user groups, and the other WMS functionalities such as group and configuration, device commands, **Apps& Data, Rules, Users,** and **Portal Admin**
 - **Custom Global Admin** has an access to all device groups, including default devices, user groups, and the selective functionality that is provided by the WMS global admin.
- NOTE:** If you have the **Custom WMS Role**, then you cannot manage the default device group and default user groups after upgrading to the WMS 3.5 version.

QFE and installed app report

- Installed QFE is part of the device report, while accessing from the **Portal administration page > Reports.**
- All the installed applications are displayed in the device report that is generated from **Portal administration > Report Generation.**
- This feature is applicable for WES, DHC, and ThinOS from WMS 3.5 version onwards.

Installer changes

- WMS installer is enhanced with the updated WMS login credential rules and the WMS service account.
 - During installation, the WMS login password must contain 9 to 127 characters only.
 - WMS service runs with the local user credentials. These user credentials must be provided during installation. The WMS user password must contain 9 to 127 characters only.
- NOTE:** Existing user credentials can be used during the WMS installation.
- The above password rules are applicable for WMS Server and WMS Repo installation.
 - If the service login credentials must be changed, then the WMS Server Admin must perform this activity for all the WMS Service manually and the WMS files and folder permission must be changed manually.
 - In case of the WMS installation with **Teradici** component, the CIFS user credential cannot be updated from WMS 3.5 onwards. WMS runs on a local user account with least user privileges, since there are no local admin privileges, the shared folder cannot be created for Teradici. To update the CIFS user, shared folder must be created manually and read permission must be given to the CIFS user.
 - WMS Repo installer follows the same password of 9 to 127 characters and least user privilege rules.
 - The WMS Repo folder is part of the WMS Repo installation. You must configure the file permissions manually in order to change the Repo folder.
 - TLS version 1.0 and 1.1 are not supported in Wyse Management Suite 3.5 cloud and On-Premise versions. If you want to use TLS version 1.0 or 1.1, you must use Wyse Management Suite 3.3.1 and older. The following platforms and tools are impacted:
 - ThinOS 8.1 or earlier versions
 - Windows Embedded Standard devices with Wyse Device Agent 14.4.0.135 or earlier versions
 - Device Imaging for Windows Embedded Standard 7 32-bit devices
 - WMS Import Tool 1.6.x or earlier versions

Secure DNS and DHCP discovery

- WMS admin can generate a secure WMS URL and a secure WMS group token for the Thin Clients to discover WMS.
 - Secured WMS DNS records are:
 1. `_WMS_MGMTV2`
 2. `_WMS_GROUPTOKENV2`
 - Secured WMS DHCP option tags are:
 1. 201 for WMS URL
 2. 202 for WMS Group Token
 - The secure discovery method is supported in DCA, DCA Enabler, and WDA.
 - The latest WDA, DCA, and the DCA Enabler agent supports the older discovery method as well.
- NOTE:** If the agent receives any values from the Secure discovery for WMS URL or group token, irrespective of valid or invalid values, then there are no fall backs performed by the agent to get the insecure discovery values.
- Change in signing the authority on WMS requires to reconfigure the discovery if the devices are not already registered.

Group Token Sensitivity

WMS 3.5 Group Token is case sensitive to enhance the security. You can review the Group Token configuration in DNS, DHCP, or standalone registration on devices.

Fixed issues

Table 60. Fixed issues

Issue ID	Description
WMS-589	Fixed the issue of the WMS report where the applications that are installed through the DHC are not displayed.
WMS-580	Fixed the issue where the WMS 3.3.1.29 instantly updates the ThinOS 8.6 packages in Wyse 5070 Thin Client.
WMS-567	Fixed the issue where the WMS Device Report displays N/A on the Installed Apps column for the WES devices.
WMS-553	Fixed the issue on the WMS domains.
WMS-552	Fixed the issue where the device deregisters from the WMS.
WMS-540	Fixed the issue where the disable USB policy option does not reflect in Wyse 5470 and Wyse 5070 Thin Client by using WMS.
WMS-452	Fixed the issue where the SSL ciphers operate in the Cipher Block Chaining (CBC) mode.
WMS-579	Fixed the issue where the WMS Remote repository services stop responding.

Important notes

- MS Gina should be selected when you configure keyboard layouts.
- Language pack should be pre-installed on the Windows 10 IoT Enterprise image to apply the default language configuration.
- Updating substitute keyboard layouts restarts the device twice if MS Gina is enabled.
- For information about the changes or updates to the ThinOS and Dell Hybrid Client configurations, see *ThinOS 9.x Administrator's Guide and Release notes* and *Dell Hybrid Client Administrator's Guide and Release notes* at www.dell.com/support.
- If you are using Wyse Easy Setup 2.0.0.158 or earlier versions, you must upgrade Wyse Easy Setup to 2.0.0.189 after you upgrade Wyse Device Agent to 14.6.1.4.

Server or device agent details

Table 61. Server or device agent details

File name	Description	Version
WMS_3.5.exe	Wyse Management Suite server	3.5.0.866
WMS_Repo.exe	Wyse Management Suite Repository	3.5.0.66
WDA_14.6.0.29_Unified.exe	Unified WDA for Windows 10 IoT Enterprise	14.6.0.27
configUI_signed.zip	configUI_signed.zip	1.5.273
WMS_Import_Tool.exe	Wyse Management Suite Import Tool	1.7.1.105

Table 61. Server or device agent details (continued)

File name	Description	Version
DCA_Enabler_1.3.0-23_amd64_signed.tar.gz	DCA_Enabler	1.3.0-23
DCA_Enabler_Packages_1.3.0-23_amd64_signed.tar.gz	DCA_Enabler_Packages	1.3.0-23

Windows Server configuration requirements

Table 62. Windows Server configuration requirements

Devices	Server requirements
Minimum server requirements for Wyse management Suite operations with 10,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—4 CPU Minimum Disk Space—40 GB Minimum Memory—8 GB <p>NOTE: For 10,000 devices setup, the minimum memory (RAM) should be 12 GB for Secure MQTT communications.</p>
Server requirement for Wyse Management Suite operations with 50,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—4 CPU Minimum Disk Space—120 GB Minimum Memory—16 GB
Server requirement for Wyse Management Suite operations with 120,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—16 CPU Minimum Disk Space—200 GB Minimum Memory—32 GB

Wyse Management Suite upgrade path

Table 63. Wyse Management Suite upgrade path

Upgrade type	Upgrade path	Compatibility
3.2 to 3.5	3.2 > 3.5	Supported
	3.2 > 3.2.1 > 3.5	Supported
	3.2 > 3.2.1 > 3.3 > 3.5	Supported
	3.2 > 3.2.1 > 3.3 > 3.3.1 > 3.5	Supported
3.2.1 to 3.5	3.2.1 > 3.5	Supported
	3.2.1 > 3.3 > 3.5	Supported
	3.2.1 > 3.3 > 3.3.1 > 3.5	Supported
3.3 to 3.5	3.3 > 3.5	Supported
	3.3 > 3.3.1 > 3.5	Supported
3.3.1 to 3.5	3.3.1 > 3.5	Supported

Known issues

Table 64. Known issues

Issue number	Issue description	Work around
WMSNG-8241	If the 1883 port is blocked, the fall back to secure MQTT is initiated by Wyse Device Agent. But it does not connect to the secure MQTT connection. This issue is observed when you install Wyse Management Suite on-premise.	Do not block 1883 port for device MQTT connectivity.
WMSNG-8239	A pop-up message is displayed when you enter any key to update the repository folder permission after you install Wyse Management Suite 3.5 repository.	Copy and paste the path so that the warning message appears once.
WMSNG-8226	Change User credential option is appearing for WES devices.	There is no workaround.
WMSNG-8224	Unable to edit and provide Custom Global Admin or Custom Viewer role for User groups .	Assign the roles to the specific user.
WMSNG-8223	You cannot upload files with the name Copy or Copy (2), and Virus detected error message is displayed.	Do not modify or rename the files.
WMSNG-8144	Unable to update the MQTT URLs when the WMS is installed in custom port.	There is no workaround.
WMSNG-8141	An inappropriate error message is displayed when you create the check-in rule for the file on the same group where the rule has already been created.	There is no workaround.
WMSNG-8125	Device summary on the dashboard displays that the device is compliant, but the devices tab displays as noncompliance.	There is no workaround.
WMSNG-8085	If the certificate file is damaged (open the file and at the end, you can add or remove the content) then the certificate is no more valid. But the key is imported in the WMS even after modifying the license key.	There is no workaround.
WMSNG-8018	User alert preference update event is displayed in the device group as a default policy group.	There is no workaround.
WMSNG-8017	Login description displays N/A in the report generation.	There is no workaround.
WMSNG-8016	Report generation is in the UTC, but the report events are generated as per the browser's local time zone.	There is no workaround.
WMSNG-8005	Not able to list the devices in the custom group with special characters.	There is no workaround.
WMSNG-7993	500 status code is displayed when you access the shadow VNC.	There is no workaround.

Table 64. Known issues (continued)

Issue number	Issue description	Work around
WMSNG-7876	Add button is available in the Groups and Configs page for the users who do not have permission.	There is no workaround.
WMSNG-7857	Tabs, arrow keys, and hotkeys do not support the WMS during the installation or uninstallation.	There is no workaround.
WMSNG-7845	The tooltip description does not contain information about the import button for ThinOS 9.x and the Hybrid Client.	There is no workaround.
WMSNG-7842	Screen capture Image does not appear in Internet Explorer.	You can use any other browsers like Google Chrome or Mozilla Firefox to capture the device screen.
WMSNG-7784	File is imported successfully without displaying an error for custom connections Settings->Connection icon in Hybrid operating system.	There is no workaround.
WMSNG-7490	Parent select group must be selected by default while assigning the role (RBAC) to the child select group. Child select group must be selected by default while assigning the role of the parent select group.	There is no workaround.
WMSNG-7263	Subnet Device Filtering: IP for the devices must not appear in the subnet or prefix filters.	There is no workaround.
WMSNG-6965	Importing a device level configuration from an exported file does not remove any existing device level exceptions or configurations.	There is no workaround.
WMSNG-6964	Device level configuration displays as a group level when the configurations import from an exported file.	There is no workaround.
WMSNG-6799	After you upgrade, it takes 45 minutes approximately to launch the REPO UI.	There is no workaround.
WMSNG-6737	When you delete an uploaded certificate with the alias name from the keytool utility, the WMS UI still displays the certificate entry in the setup page.	There is no workaround.
WMSNG-6546	Preloaded Bulk Device exception does not apply for the new or re-registered devices.	There is no workaround.
WMSNG-6525	It takes 30 minutes approximately to restart the service manually.	There is no workaround.
WMSNG-6503	Unable to fetch tenants with the Tenant Type filter: Trial	There is no workaround.
WMSNG-6226	Login screen fails to select different languages after the language has been selected.	There is no workaround.
WMSNG-4128	No Internet Connectivity message is not displayed for login screen.	There is no workaround.

Table 64. Known issues (continued)

Issue number	Issue description	Work around
WMSNG-4126	An Authentic Issue message is displayed after you upgrade the application.	There is no workaround.

Wyse Management Suite version 3.3.1 Hotfix

Compatibility

Supported Dell end-points on Wyse Management Suite

Table 65. Supported Dell end-points on Wyse Management Suite

Operating System	Platform	Wyse Device Agent versions
Windows 10 IoT Enterprise 2019 LTSC	Wyse 5070 and 5070 Extended Thin Client	10.03.06.11.19, 10.04.06.09.19.00, 10.04.06.11.20 WDA: 14.4.6.5 and later
	Wyse 5470 Thin Client	10.03.08.07.19.00, 10.03.06.11.19, 10.04.06.11.20 Wyse Device Agent 14.4.6.5 and later
	Wyse 5470 AIO Thin Client	10.03.07.06.19.00, 10.03.06.11.19, 10.04.06.11.20 WDA: 14.4.6.5 and later
ThinOS	<ul style="list-style-type: none"> Wyse 3010 Thin Client Wyse 3020 Thin Client Wyse 3030 LT Thin Client (with and without PColP) Wyse 5040 Thin Client (ThinOS, PColP) Wyse 5010 Thin Client (ThinOS, PColP) Wyse 7010 Thin Client (with and without PColP) Wyse 5060 Thin Client (with and without PColP) 	8.5.x, 8.6.x
	<ul style="list-style-type: none"> Wyse 3040 Thin Client (with and without PColP) Wyse 5070 Thin Client (with and without PColP) Wyse 5470 Thin Client Wyse 5470 AIO Thin Client (with and without PColP) 	8.6.x, 9.0.x, 9.1.x
Teradici	Wyse 5030 PColP zero client	Threadx 5.x, 6.x, 20.4.1
	Wyse 7030 PColP zero client	Threadx 5.x, 6.x, 20.4.1
	Wyse 5050 AIO Thin Client	
Dell Hybrid Client	Wyse 5070 Thin Client	Ubuntu 18.04, 20.04
	Wyse 5070 Extended Thin Client	Bundle—Dell Hybrid Client 1.1 - 1288, Dell Hybrid Client 1.5
	OptiPlex 7070 Ultra OptiPlex 7090 Ultra	Dell Client Agent - 1.0.0-392, 1.1.0-193,1.2.0, and 1.1.1 Dell Client Agent Enabler - 1.0.0-72 and 1.1.0-17

Table 65. Supported Dell end-points on Wyse Management Suite (continued)

Operating System	Platform	Wyse Device Agent versions
	OptiPlex 3090 Ultra Latitude 3320	
Dell Ubuntu (Generic) Client	OptiPlex 7070 Ultra OptiPlex 7090 Ultra OptiPlex 3090 Ultra Latitude 3320	Ubuntu 18.04, 20.04 Dell Client Agent Enabler - 1.0.0-72, 1.1.0-17, 1.2.0-25, and 1.2.1-14

Supported operating system matrix

Table 66. Supported operating systems

Operating system	WMS server	WMS repository	Remote database
Windows Server 2012 R2 English	Supported	Supported	Supported
Windows Server 2012 R2 French	Supported	Supported	Not supported
Windows Server 2012 R2 Italian	Supported	Supported	Not supported
Windows Server 2012 R2 German	Supported	Supported	Not supported
Windows Server 2012 R2 Spanish	Supported	Supported	Not supported
Windows Server 2016 English	Supported	Supported	Supported
Windows Server 2016 French	Supported	Supported	Not supported
Windows Server 2016 Italian	Supported	Supported	Not supported
Windows Server 2016 German	Supported	Supported	Not supported
Windows Server 2016 Spanish	Supported	Supported	Not supported
Windows Server 2019 Standard English	Supported	Supported	Supported

Supported browsers

Table 67. Supported browsers

Browsers	Version
Chrome	90.0.4430.93 and later
Firefox	88.0 and later
Internet Explorer	11.0 and later
Edge browser	91.0.864.48

Fixed issues

Table 68. Fixed issues

Issue ID	Description
WMS-556/WMSNG-6410	Fixed the issue with the device platform filter on the Wyse Management Suite dashboard.

Table 68. Fixed issues (continued)

Issue ID	Description
WMS-561	Fixed the issue where you cannot filter the device using the platform filter.
WMS-569	Fixed the issue where you cannot sort the Platform Type column using the Platform drop list.
WMSNG-6424	Fixed the issue where jobs get stuck at Pending or Queued state due to the owner of job being deleted before the execution of the job.
WMS-562/WMSNG-6830	Fixed the issue where the device exception configuration is applied to all the devices in a group when you make changes to the group policy. This issue is observed in Wyse 5470 and Wyse 5070 Thin Clients.
WMS-554	Fixed the issue where the device gets wrong cache settings when the connection between Wyse Management Suite and ThinOS is lost.
WMS-563	Fixed the issue where incorrect policy, firmware, and BIOS gets downloaded on Wyse Management Suite 3.3.
WMS-560/WMSNG-6775	Fixed the issue where the Wyse Management Suite report displays incorrect Dell Hybrid Client build number 0.01.
WMS-557	Fixed the issue where files chosen in Post-install dropdown in Advanced App Policy of DHC App Policy , fails to save.
WMSNG-7035	Fixed the issue where events that are generated from a logged-in custom Wyse Management Suite user are displayed as generated from the system.
WMSNG-7036	Fixed the issue where events generated by custom users get wiped off once the custom user account is deleted.
WMSNG-7041	Fixed the issue where the events and All App Policy report generation fails when users with events logged and policies are deleted.

Important notes

Server or device agent details

Table 69. Server or device agent details

File name	Description	Version
WMS_3.3.1.exe	Wyse Management Suite 3.3.1	3.3.1.29
WMS_Repo.exe	Wyse Management Suite Repository	3.3.0.28
WMS_Import_Tool.exe	Wyse Device Manager to Wyse Management Suite Import tool	1.7.0.69
WDA_14.5.4.1_Unified.exe	Unified Wyse Device Agents	14.5.4.1
wda-2.4.3-00.01.x86_64.tar	ThinLinux 1.0 Agent	2.4.3-00.01.x86_64
wda_3.5.2-05_amd64.tar	ThinLinux 2.x Agent	3.5.2-05
DCA_1.2.0-416_amd64.deb	Dell Client Agent	1.2.0-416
DCA_Enabler_1.2.1-14_amd64_signed.tar.gz	Dell Client Agent Enabler	1.2.1-14

Table 69. Server or device agent details (continued)

File name	Description	Version
DCA_Enabler_Packages_1.2.1-14_amd64_signed.tar.gz	Dell Client Agent Enabler package	1.2.1-14
configUI_signed.zip	ConfigUI Package	1.5.181

Wyse Management Suite upgrade path

Table 70. Wyse Management Suite upgrade path

Upgrade type	Upgrade path	Compatibility
3.1 to 3.3.1	3.1 > 3.3.1	Supported
	3.1 > 3.1.1 > 3.3.1	Supported
	3.1 > 3.1.1 > 3.2 > 3.3.1	Supported
	3.1 > 3.1.1 > 3.3 > 3.3.1	Supported
	3.1 > 3.1.1 > 3.2 > 3.2.1 > 3.3.1	Supported
	3.1 > 3.1.1 > 3.2 > 3.2.1 > 3.3 > 3.3.1	Supported
3.1.1 to 3.3.1	3.1.1 > 3.3.1	Supported
	3.1.1 > 3.2 > 3.3.1	Supported
	3.1.1 > 3.2.1 > 3.3.1	Supported
	3.1.1 > 3.3 > 3.3.1	Supported
3.2 to 3.3.1	3.2 > 3.3.1	Supported
	3.2 > 3.2.1 > 3.3.1	Supported
3.2.1 to 3.3.1	3.2.1 > 3.3.1	Supported
	3.2.1 > 3.3 > 3.3.1	Supported
3.3 to 3.3.1	3.3 > 3.3.1	Supported

NOTE: If there is a discrepancy in MQTT URL (Secure and External MQTT), the URL discrepancy window is displayed while upgrading from Wyse Management Suite version 3.2 and 3.2.1 to 3.3.1. However, the same discrepancy window is not displayed while upgrading from Wyse Management Suite version 3.3 and later.

Known issues

Table 71. Known issues

Issue number	Issue description	Work around
WMSNG-5617	NetScaler Gateway Authentication takes 3-4 minutes to authenticate on Windows 10 IoT Enterprise devices.	There is no workaround.
WMSNG-5610	Default language in the login screen does not display the default selected language on Windows 10 IoT Enterprise devices.	There is no workaround.
WMSNG-5649	If the VNC password for Windows Embedded Standard devices is set to DELL123 from Wyse Management Suite policy, you cannot use the password to log in to VNC on the client.	There is no workaround.

Table 71. Known issues (continued)

Issue number	Issue description	Work around
WMSNG-6043	Alert Error: Group tbd has been deleted. Job is in progress to Update Post Validation Group. Please validate the device after some time alert error message is displayed when target group is deleted before validating enrollment.	There is no workaround.
WMSNG-6064	User preference saved message is displayed when you delete the saved user preference from the devices page.	There is no workaround.
WMSNG-6106	The dashboard does not display the generic device count.	There is no workaround.
WMSNG-6107	An event for remote connection is not generated in server.	There is no workaround.
WMSNG-6119	Unregistered repositories are not cleaned from the end-user table that causes delay in applying the user data.	There is no workaround.
WMSNG-6104	Windows Embedded device IP displays Undefined in events when you use VNC on a device.	There is no workaround.
WMSNG-6137	Tool tip description flickers when the mouse is hovered on Add Group button.	There is no workaround.
WMSNG-5677	Your account has been suspended. Contact your system administrator. Error Code:3004 is not localized error message is not localized.	There is no workaround.
WMSNG-6238	End-user report contents are not localized when the contents are pulled from a localized user interface.	There is no workaround.
WMSNG-6222	Object Identity required error message is displayed when the device is deleted, and the device link is clicked from the Events page.	There is no workaround.
WMSNG-6232	Temperature field which is not relevant for Windows Embedded Standard devices is displayed, and incorrect value is shown.	There is no workaround.
WMSNG-6410	You cannot filter the devices using the Platform filter on the Devices page.	<ul style="list-style-type: none"> ● Filter the devices based on the operating system and then use the Platform type column to sort the devices based on the platform. ● Export the devices list to a CSV file and apply the filter based on the platform.
WMSNG-5626	EULA reset option in the Portal Administration page is not selected after you select the option and click Save .	The Eula reset event is generated after you click Save and you can view the event in the Event page.
WMSNG-6656	Few settings are moved from Exclusion list back to schema.json/ or UI, after	After uploading the Config UI build v1.5.181 to on-premise server, restart

Table 71. Known issues (continued)

Issue number	Issue description	Work around
	uploading the Config UI build v1.5.181 to on-premise server.	the Wyse Management Suite Tomcat service.
WMSNG-7097	An error stating Wyse Management Suite internal error or misconfiguration is displayed in Events page, when the page number is set as 100000000 or more.	There is no workaround.
WMSNG-7051	The Dell Client Agent version 1.0 and Chrome package UI entries are not cleaned up in Dell Hybrid Client application inventory, once Wyse Management Suite upgrades to version 3.3 or 3.3.1.	There is no workaround.
WMSNG-6993	The device exception configuration created for a device added to a Select or Device Group is applied when the device is moved to Unmanaged Group .	There is no workaround.
WMSNG-7096	Error: 406 and an alert stating converting job to service object is displayed when you click on the jobs and events device count that is initiated by a deleted user.	There is no workaround.
WMSNG-6546	The preloaded bulk device exception does not apply for new and re-registered devices.	There is no workaround.
WMSNG-5893	Daylight saving causes one hour delay in the scheduled jobs queue.	There is no workaround.
WMSNG-7475	Windows Embedded Standard imaging fails when you use Upgrade Only and Allow Downgrade options and works only with Force this Version option.	Use Force this Version option for imaging.

Wyse Management Suite version 3.3

Compatibility

Supported Dell end-points on Wyse Management Suite

Table 72. Supported Dell end-points on Wyse Management Suite

Operating System	Platform	Wyse Device Agent versions
Windows 10 IoT Enterprise 2019 LTSC	Wyse 5070 and 5070 Extended Thin Client	10.03.06.11.19, 10.04.06.09.19.00, 10.04.06.11.20 WDA: 14.4.6.5 and later
	Wyse 5470 Thin Client	10.03.08.07.19.00, 10.03.06.11.19, 10.04.06.11.20 Wyse Device Agent 14.4.6.5 and later
	Wyse 5470 AIO Thin Client	10.03.07.06.19.00, 10.03.06.11.19, 10.04.06.11.20 WDA: 14.4.6.5 and later
ThinOS	<ul style="list-style-type: none"> Wyse 3010 Thin Client Wyse 3020 Thin Client Wyse 3030 LT Thin Client (with and without PColP) Wyse 5040 Thin Client (ThinOS, PColP) Wyse 5010 Thin Client (ThinOS, PColP) Wyse 7010 Thin Client (with and without PColP) Wyse 5060 Thin Client (with and without PColP) 	8.5.x, 8.6.x
	<ul style="list-style-type: none"> Wyse 3040 Thin Client (with and without PColP) Wyse 5070 Thin Client (with and without PColP) Wyse 5470 Thin Client Wyse 5470 AIO Thin Client (with and without PColP) 	8.6.x, 9.0.x, 9.1.x
Teradici	Wyse 5030 PColP zero client	Threadx 5.x, 6.x, 20.4.1
	Wyse 7030 PColP zero client	Threadx 5.x, 6.x, 20.4.1
	Wyse 5050 AIO Thin Client	
Dell Hybrid Client	Wyse 5070 Thin Client	Ubuntu 18.04, 20.04
	Wyse 5070 Extended Thin Client	Bundle—Dell Hybrid Client 1.1 - 1288, Dell Hybrid Client 1.5
	OptiPlex 7070 Ultra OptiPlex 7090 Ultra	Dell Client Agent - 1.0.0-392, 1.1.0-193,1.2.0, and 1.1.1 Dell Client Agent Enabler - 1.0.0-72 and 1.1.0-17

Table 72. Supported Dell end-points on Wyse Management Suite (continued)

Operating System	Platform	Wyse Device Agent versions
	OptiPlex 3090 Ultra Latitude 3320	
Dell Ubuntu (Generic) Client	OptiPlex 7070 Ultra OptiPlex 7090 Ultra OptiPlex 3090 Ultra Latitude 3320	Ubuntu 18.04, 20.04 Dell Client Agent Enabler - 1.0.0-72, 1.1.0-17, and 1.2.0-25

Supported operating system matrix

Table 73. Supported operating systems

Operating system	WMS server	WMS repository	Remote database
Windows Server 2012 R2 English	Supported	Supported	Supported
Windows Server 2012 R2 French	Supported	Supported	Not supported
Windows Server 2012 R2 Italian	Supported	Supported	Not supported
Windows Server 2012 R2 German	Supported	Supported	Not supported
Windows Server 2012 R2 Spanish	Supported	Supported	Not supported
Windows Server 2016 English	Supported	Supported	Supported
Windows Server 2016 French	Supported	Supported	Not supported
Windows Server 2016 Italian	Supported	Supported	Not supported
Windows Server 2016 German	Supported	Supported	Not supported
Windows Server 2016 Spanish	Supported	Supported	Not supported
Windows Server 2019 Standard English	Supported	Supported	Supported

Supported browsers

Table 74. Supported browsers

Browsers	Version
Chrome	90.0.4430.93 and later
Firefox	88.0 and later
Internet Explorer	11.0 and later
Edge browser	91.0.864.48

New and enhanced features

Dell Hybrid Client packages in Wyse Management Suite public cloud

You can upload Dell Hybrid Client packages to Wyse Management Suite public cloud repository using the operator account. The operator can deploy the packages to a device based on roles. The Dell Hybrid Client packages can be uploaded to operator cloud repository and remote repository.

NOTE: The operator cannot bulk upload Dell Hybrid Client packages.

NOTE: Tenants cannot upload Dell Hybrid Client packages to tenant cloud repository.

Edge browser settings for Windows 10 IoT enterprise devices

You can configure Edge browser, based on Chromium, settings for Windows 10 IoT Enterprise devices. You export and import the browser settings from the group, device, and configuration levels. The **Remove Configuration** feature is also supported.

The settings can also be configured for Wyse Easy Setup.

NOTE: Edge browser must be installed on the clients to configure the Edge browser settings from Wyse Management Suite settings.

Automated email notifications to tenants when the license is expiring

You can configure email notification to be sent automatically to tenants before the license expires. All license types such as Thin Client, Hybrid Client, EDM, and Wyse Converter for PCs receive the notifications. The email notification is sent when the license is expiring in:

- 60 days
- 30 days
- 14 days

A notification is also sent 24 hours after the license has expired.

Fixed issues

Table 75. Fixed issues

Issue ID	Description
WMS-424	Fixed the issue where device report cannot be generated for all the devices from Wyse Management Suite public cloud.
WMS-441	Fixed the issue where specific dual monitor configuration cannot be done through Wyse Management Suite cloud.
WMS-497	Fixed the issue where WES device stops communicating with Wyse Management Suite and checks into WDM server.
WMS-498	Fixed the issue where license expired Error message is displayed on Wyse 3040 Thin client running ThinOS 9.1 operating system with valid Wyse Management Suite licenses.
WMS-500	Fixed the issue where Server license is invalid error message is displayed and you cannot register the device to Wyse Management Suite. This issue is observed on Wyse 3040 Thin client running ThinOS 8.6_606 operating system.

Table 75. Fixed issues (continued)

Issue ID	Description
WMS-504	Fixed the issue where Multimonitor option is unavailable under Horizon connection for Wyse Software Thin Client policy.
WMS-512	Fixed the issue where you are unable to add or see more than 10 certificates in ThinOS 9.x Wyse Management Suite policy.
WMS-513	Fixed the issue where Scheduled App/Job policy stops responding with the status Queued on Wyse Management Suite 3.2 cloud.
WMS-514	Fixed the Unsupported Mongo Feature Compatibility Version error that is observed when you upgrade Wyse Management Suite Version 3.2.
WMS-516	Fixed the issue where report does not contains the wireless MAC.
WMS-521	Fixed the issue with the BIOS files in Wyse Management Suite.
WMS-542	Fixed the issue where license expired Error message is displayed on Wyse 3040 Thin client running ThinOS 9.1 operating system with valid Wyse Management Suite licenses.
WMSNG-4269	Fixed the issue where a message stating NullPointerException is displayed in stratus log when the Windows Embedded Standard device does not report the image version correctly.
WMSNG-4380	Fixed the issue where events related to user personalization is displayed in the server.
WMSNG-4411	Fixed the issue where error status does not change to Restarted after multiple restarts.
WMSNG-4106	Fixed the issue where the Wyse Easy Setup kiosk mode does not work with NetScaler and user account.
WMSNG-4117	Fixed the issue where the Reset All config button for Assign Granular Roles to AD Messages and Bulk Group Change does not get translated.
WMSNG-4261	Fixed the issue where all new error messages that are mentioned in the wiki were not localized in Wyse Management Suite server.
WMSNG-4431	Fixed the issue where the Import button stops responding and an error message stating Type Unidentified is displayed in the console. This issue occurs when the administrator clicks Delete Group and then clicks Import Policies on Group and Config page.
WMSNG-4474	Fixed the issue where the Wyse Management Suite upgrade fails when there is a timestamp difference between the previous Wyse Management Suite version and the next Wyse Management Suite version upgrade.
WMSNG-4337	Fixed the issue where the Wyse Management Suite UI fails to launch after the update when the WMS Server.xml and Web.xml is modified to allow only http and not https.
WMSNG-4241	Fixed the issue where entering a long username distorts the UI of contact card.
WMSNG-4405	Fixed the issue where HTML tags are visible for Hybrid-Browser and custom connection setting in device detail summary page.

Table 75. Fixed issues (continued)

Issue ID	Description
WMSNG-4397	Fixed the issue where the link that shows the Targeted Failed Devices lists the failed devices of newly created job instead of listing devices of failed job.
WMSNG-4435	Fixed the issue where the export device to CSV info message does not get translated to different languages.
WMSNG-4408	Fixed the issue where the screen capture fails to appear on Wyse Management Suite for hybrid device.
WMSNG-4365	Fixed the issue where the configuration store location message in setup page or OOBE is not localized to MUI.
WMSNG-4371	Fixed the issue where the message that is displayed after importing certificate to Trust store location for restarting Tomcat service is not localized.
WMSNG-2042	Fixed the issue where the default reset option is available for Business Hour in Wyse Management Suite Client Settings.
WMSNG-4208	Fixed the issue where an inappropriate message is displayed when uploading mp4 file to import configurations to a group.
WMSNG-4436	Fixed the issue where the repository status of is Active does not turn back to True when the repository is unregistered and re-registered without deleting the unregistered repo entry.
WMSNG-4369	Fixed the issue where error 2001 is displayed instead of 1005 with an extra text as Code for few MUI languages.
WMSNG-2589	Fixed the issue where daily snapshot of noncompliant devices is not received from EU1 production server.
WMSNG-4420	Fixed the issue where memory consumption increases on EU production server when Export devices to .csv is in process.
WMSNG-4467	Fixed the issue where the notes that are mentioned under configurations for Dell Hybrid Client are not localized.
WMSNG-4410	Fixed the issue where the HTML tags are visible for End-User events in Users page.
WMSNG-4404	Fixed the issue where you can proceed with installation by entering zero as port for Secure MQTT.
WMSNG-4396	Fixed the issue where generic device group Configuration Export and Import support do not work.
WMSNG-3064	Fixed the issue where upload button remains enabled while uploading the firmware or BIOS file to operator account is in process.
WMSNG-5696	Fixed the issue where an internal error message is displayed when you click Success, inProgress, Pending links in the Events page.
WMSNG-5674	Fixed the issue where a few ThinOS 9.x configurations are not localized in the Wyse Management Suite server.
WMSNG-5651	Fixed the issue where excluded configurations do not show on device detail page as part of summary if configured in device policy group.
WMSNG-5639	Fixed the issue where device group does not change when you configure to change a group using ThinOS 9.x Configuration UI . This issue is observed in ThinOS 9.1.1131.

Table 75. Fixed issues (continued)

Issue ID	Description
WMSNG-5632	Fixed the issue where a generic message is displayed when a group administrator tries to generate a report for the entire group.
WMSNG-5627	Fixed the issue where a remote session started on the device that is in enrollment validation pending state generates an event in the server but the same events are not captured in the event report generation.
WMSNG-5620	Fixed the issue where Add App option gets disabled in the Apps and Data page when you select and clear the OS type option.
WMSNG-5604	Fixed the issue where provision to filter the bulk group change activity event page using the event type is not available.
WMSNG-5577	Fixed the issue where event information for not registered device is not user friendly.
WMSNG-5422	Fixed the issue where User not authorized for the operation window is displayed when you click Save in the Add User window with maximum characters in all fields.
WMSNG-5386	Fixed the issue where options are selected and cleared automatically when you click anywhere while creating a custom role.
WMSNG-5367	Fixed the issue where Wyse Management Suite UI stops responding when you generate report multiple times.

Important notes

- MS Gina should be selected when you configure keyboard layouts.
- Language pack should be pre-installed on the Windows 10 IoT Enterprise image to apply the default language configuration.
- Updating substitute keyboard layouts restarts the device twice if MS Gina is enabled.
- For information about the changes or updates to the ThinOS and Dell Hybrid Client configurations, see *ThinOS 9.x Administrator's Guide and Release notes* and *Dell Hybrid Client Administrator's Guide and Release notes* at www.dell.com/support.

Server or device agent details

Table 76. Server or device agent details

File name	Description	Version
WMS_3.3.exe	Wyse Management Suite 3.3	3.3.0.276
WMS_Repo.exe	Wyse Management Suite Repository	3.3.0.28
WMS_Import_Tool.exe	Wyse Device Manager to Wyse Management Suite Import tool	1.6.0.10
WDA_14.5.3.11_Unified.exe	Unified Wyse Device Agents	14.5.3.11
wda-2.4.3-00.01.x86_64.tar	ThinLinux 1.0 Agent	2.4.3-00.01.x86_64
wda_3.5.2-05_amd64.tar	ThinLinux 2.x Agent	3.5.2-05
DCA_1.2.0-416_amd64.deb	Dell Client Agent	1.2.0-416
DCA_Enabler_1.2.0-25_amd64_signed.tar.gz	Dell Client Agent Enabler	1.2.0-25

Table 76. Server or device agent details (continued)

File name	Description	Version
configUI_signed.zip	ConfigUI Package	1.5.177

Windows Server configuration requirements

Table 77. Windows Server configuration requirements

Devices	Server requirements
Minimum server requirements for Wyse management Suite operations with 10,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—4 CPU Minimum Disk Space—40 GB Minimum Memory—8 GB <p>NOTE: For 10,000 devices setup, the minimum memory (RAM) should be 12 GB for Secure MQTT communications.</p>
Server requirement for Wyse Management Suite operations with 50,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—4 CPU Minimum Disk Space—120 GB Minimum Memory—16 GB
Server requirement for Wyse Management Suite operations with 120,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—16 CPU Minimum Disk Space—200 GB Minimum Memory—32 GB

Wyse Management Suite upgrade path

Table 78. Wyse Management Suite upgrade path

Upgrade type	Upgrade path	Compatibility
3.1 to 3.3	3.1 > 3.3	Supported
	3.1 > 3.1.1 > 3.3	Supported
	3.1 > 3.1.1 > 3.2 > 3.2.1 > 3.3	Supported
3.1.1 to 3.3	3.1.1 > 3.3	Supported
	3.1.1 > 3.2 > 3.3	Supported
	3.1.1 > 3.2 > 3.2.1 > 3.3	Supported
3.2 to 3.3	3.2 > 3.3	Supported
	3.2 > 3.2.1 > 3.3	Supported
3.2.1 to 3.3	3.2.1 > 3.3	Supported

Known issues

Table 79. Known issues

Issue number	Issue description	Work around
WMSNG-5617	NetScaler Gateway Authentication takes 3-4 minutes to authenticate on Windows 10 IoT Enterprise devices.	There is no workaround.
WMSNG-5610	Default language in the login screen does not display the default selected language on Windows 10 IoT Enterprise devices.	There is no workaround.
WMSNG-5649	If the VNC password for Windows Embedded Standard devices is set to DELL123 from Wyse Management Suite policy, you cannot use the password to log in to VNC on the client.	There is no workaround.
WMSNG-6043	Alert Error: Group tbd has been deleted. Job is in progress to Update Post Validation Group. Please validate the device after some time alert error message is displayed when target group is deleted before validating enrollment.	There is no workaround.
WMSNG-6064	User preference saved message is displayed when you delete the saved user preference from the devices page.	There is no workaround.
WMSNG-6106	The dashboard does not display the generic device count.	There is no workaround.
WMSNG-6107	An event for remote connection is not generated in server.	There is no workaround.
WMSNG-6119	Unregistered repositories are not cleaned from the end-user table that causes delay in applying the user data.	There is no workaround.
WMSNG-6104	Windows Embedded device IP displays Undefined in events when you use VNC on a device.	There is no workaround.
WMSNG-6137	Tool tip description flickers when the mouse is hovered on Add Group button.	There is no workaround.
WMSNG-5677	Your account has been suspended. Contact your system administrator. Error Code:3004 is not localized error message is not localized.	There is no workaround.
WMSNG-6238	End-user report contents are not localized when the contents are pulled from a localized user interface.	There is no workaround.
WMSNG-6222	Object Identity required error message is displayed when the device is deleted, and the device link is clicked from the Events page.	There is no workaround.
WMSNG-6232	Temperature field which is not relevant for Windows Embedded Standard	There is no workaround.

Table 79. Known issues (continued)

Issue number	Issue description	Work around
	devices is displayed, and incorrect value is shown.	
WMSNG-6410	You cannot filter the devices using the Platform filter on the Devices page.	<ul style="list-style-type: none"> • Filter the devices based on the operating system and then use the Platform type column to sort the devices based on the platform. • Export the devices list to a CSV file and apply the filter based on the platform.
WMSNG-5626	EULA reset option in the Portal Administration page is not selected after you select the option and click Save .	The Eula reset event is generated after you click Save and you can view the event in the Event page.
WMSNG-6656	Few settings are moved from Exclusion list back to schema.json/ or UI, after uploading the Config UI build v1.5.181 to on-premise server.	After uploading the Config UI build v1.5.181 to on-premise server, restart the Wyse Management Suite Tomcat service.

Wyse Management Suite version 3.2 Hotfix

Compatibility

Supported Dell end-points on Wyse Management Suite

Table 80. Supported Dell end-points on Wyse Management Suite

Operating System	Platform	Wyse Device Agent versions
Windows 10 IoT Enterprise 2019 LTSC	Wyse 5070 Thin Client	10.03.06.11.19, 10.04.06.09.19.00 WDA: 14.4.6.5 and later
	Wyse 5470 Thin Client	10.03.08.07.19.00, 10.03.06.11.19 Wyse Device Agent 14.4.6.5 and later
	Wyse 5470 AIO Thin Client	10.03.07.06.19.00, 10.03.06.11.19 WDA: 14.4.6.5 and later
ThinOS	<ul style="list-style-type: none"> Wyse 3010 Thin Client Wyse 3020 Thin Client Wyse 3030 LT Thin Client (with and without PColP) Wyse 5040 Thin Client (ThinOS, PColP) Wyse 5010 Thin Client (ThinOS, PColP) Wyse 7010 Thin Client (with and without PColP) Wyse 5060 Thin Client (with and without PColP) 	8.5.x, 8.6.x
	<ul style="list-style-type: none"> Wyse 3040 Thin Client (with and without PColP) Wyse 5070 Thin Client (with and without PColP) Wyse 5470 Thin Client Wyse 5470 AIO Thin Client (with and without PColP) 	8.6.x, 9.0.x, 9.1.x
Teradici	Wyse 5030 PColP zero client	Threadx 5.x
	Wyse 7030 PColP zero client	Threadx 6.x
	Wyse 5050 AIO Thin Client	
Dell Hybrid Client	Wyse 5070 Thin Client	Ubuntu 18.04, 20.04
	Wyse 5070 Extended Thin Client	Bundle—Dell Hybrid Client 1.1 - 1288, Dell Hybrid Client 1.5
	OptiPlex 7070 Ultra OptiPlex 7090 Ultra	Dell Client Agent - 1.0.0-392, 1.1.0-193, and 1.2.0 Dell Client Agent Enabler - 1.0.0-72 and 1.1.0-17

Table 80. Supported Dell end-points on Wyse Management Suite (continued)

Operating System	Platform	Wyse Device Agent versions
	OptiPlex 3090 Ultra Latitude 3320	
Dell Ubuntu (Generic) Client	OptiPlex 7070 Ultra OptiPlex 7090 Ultra OptiPlex 3090 Ultra Latitude 3320	Ubuntu 18.04, 20.04 Dell Client Agent Enabler - 1.0.0-72, 1.1.0-17, and 1.2.0-25, 1.3

Supported operating system matrix

Table 81. Supported operating systems

Operating system	WMS server	WMS repository	Remote database
Windows Server 2012 R2 English	Supported	Supported	Supported
Windows Server 2012 R2 French	Supported	Supported	Not supported
Windows Server 2012 R2 Italian	Supported	Supported	Not supported
Windows Server 2012 R2 German	Supported	Supported	Not supported
Windows Server 2012 R2 Spanish	Supported	Supported	Not supported
Windows Server 2016 English	Supported	Supported	Supported
Windows Server 2016 French	Supported	Supported	Not supported
Windows Server 2016 Italian	Supported	Supported	Not supported
Windows Server 2016 German	Supported	Supported	Not supported
Windows Server 2016 Spanish	Supported	Supported	Not supported
Windows Server 2019 Standard English	Supported	Supported	Supported

Supported browsers

Table 82. Supported browsers

Browsers	Version
Chrome	90.0.4430.93 and later
Firefox	88.0 and later
Internet Explorer	11.0 and later

Fixed issues

Table 83. Fixed issues

Issue ID	Description
WMS-496	Fixed the issue where an error was displayed when you generate a report from the Wyse Management Suite portal.
WMSNG-5250	Fixed the issue where you were unable to save file repository changes when you go through the file count link in File Repository .

Table 83. Fixed issues (continued)

Issue ID	Description
WMS-515	Fixed the issue where the subnets were not displayed in an order to search a device.
WMS-503	Fixed the issue where the Device Exception option does not display the terminal name for ThinOS 9.1 devices.
WMS-511	Fixed the issue where a different firmware is downloaded and applied to a global group when you deploy the ThinOS firmware.
WMS-488	Fixed the issue where the BIOS version 1.5.0 is pushed when you push BIOS version 1.8.0 to ThinOS 9.x devices.
WMS-501	Fixed the issue observed when the ThinOS devices are downgraded.
CIPS-20938	Fixed the issue where the MQTT URL changes on Wyse Management Suite do not reflect on the device.
WMS-499	Fixed the issue where you are unable to log in to Wyse Management Suite public cloud using two-factor authentication after you upgrade to Wyse Management Suite 3.2.
WMS-506	Fixed the issue where you are unable to generate all device report in CSV format in Wyse Management Suite on-premise environment.
WMS-509	Fixed the issue where the reports do not function in Wyse Management Suite cloud environment.
WMS-518	Fixed the issue where the device report is not formatted.
WMS-516	Fixed the issue where the device report does not contain the wireless MAC address.
WMS-505	Fixed the issue where an error is displayed when you generate a report in Wyse Management Suite 3.2.
WMS-510	Fixed the issue where the device was unable to receive and apply the French keyboard layout deployed from Wyse Management Suite.
WMS-495	Fixed the issue where the Citrix Desktop shortcut does not start on devices running Windows 10 IoT Enterprise.
WMS-492	Fixed the issue where you are unable to upgrade Wyse Device Agent from 14.4.6.5 to 14.5.0.22 using /s parameter manually using the command prompt on devices with <i>WIE10_LTSC_2019_UNIFIED_November2020</i> build.
WMS-537	Fixed the issue where the Wyse Management Suite configurations are not applied when the Wyse Easy Setup is configured with the KIOSK mode disabled and all Control Panel settings are enabled.

Important notes

- MS Gina should be selected when you configure keyboard layouts.
- Language pack should be pre-installed on the Windows 10 IoT Enterprise image to apply the default language configuration.
- Updating substitute keyboard layouts restarts the device twice if MS Gina is enabled.

Server or device agent details

Table 84. Server or device agent details

File name	Description	Version
WMS_3.2.1.exe	Wyse Management Suite 3.2.1	3.2.1.44

Table 84. Server or device agent details (continued)

File name	Description	Version
WMS_Repo.exe	Wyse Management Suite Repository	3.2.0.58
WMS_Import_Tool.exe	Wyse Device Manager to Wyse Management Suite Import tool	1.6.0.10
WDA_14.5.1.37_Unified.exe	Unified Wyse Device Agents	14.5.1.37
wda-2.4.3-00.01.x86_64.tar	ThinLinux 1.0 Agent	2.4.3-00.01.x86_64
wda_3.5.2-05_amd64.tar	ThinLinux 2.x Agent	3.5.2-05
DCA_1.2.0-416_amd64.deb	Dell Client Agent	1.2.0-416
DCA_Enabler_1.2.0-25_amd64_signed.tar.gz	Dell Client Agent Enabler	1.2.0-25
configUI_signed.zip	ConfigUI Package	1.5.150

Windows Server configuration requirements

Table 85. Windows Server configuration requirements

Devices	Server requirements
Minimum server requirements for Wyse management Suite operations with 10,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—4 CPU Minimum Disk Space—40 GB Minimum Memory—8 GB <p>NOTE: For 10,000 devices setup, the minimum memory (RAM) should be 12 GB for Secure MQTT communications.</p>
Server requirement for Wyse Management Suite operations with 50,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—4 CPU Minimum Disk Space—120 GB Minimum Memory—16 GB
Server requirement for Wyse Management Suite operations with 120,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—16 CPU Minimum Disk Space—200 GB Minimum Memory—32 GB

Known issues

Table 86. Known issues

Issue number	Issue description	Workaround
WMSNG-5422	User not authorized for the operation window is displayed when you click Save in the Add User window with maximum characters in all fields.	There is no workaround.
WMSNG-5634	The device group does not change when you configure to change a group using ThinOS 9.x Configuration UI . This issue is observed in ThinOS 9.1.1131.	Upgrade the ThinOS firmware version to 9.1.2103.

Table 86. Known issues (continued)

Issue number	Issue description	Workaround
WMSNG-5432	A generic message is displayed when a group administrator without the required credentials tries to generate a report for the entire group.	There is no workaround.
WMSNG-5431	Bulk group change command is not available for a group administrator.	There is no workaround.
WMSNG-5627	If the device is in enrollment validation pending state, a remote session started on the device generates an event in the server but the same events are not captured in the event report generation.	There is no workaround.
WMSNG-5620	The Add App option is disabled in the Apps and Data page when you select and clear the OS type option.	There is no workaround.
WMS-507	Event type and descriptions under the Device Details section and Events tab display references rather than usable information in Wyse Management Suite Public Cloud.	Clear the browser cache.
WMSNG-5604	Provision to filter the bulk group change activity event page using the event type is not available.	There is no workaround.
WMSNG-5386	The options are selected and cleared automatically when you click anywhere while creating a custom role.	There is no workaround.
WMSNG-5626	EULA reset option in the Portal Administration page is not selected after you select the option and click Save .	The Eula reset event is generated after you click Save and you can view the event in the Event page.
WMSNG-4211	Resource contention message is displayed when you go to the Groups and Config page from the global administrator account.	Clear the browser cache.
WMSNG-5674	Few ThinOS 9.x configurations are not localized when the Wyse Management Suite server.	There is no workaround.
WMSNG-5696	An internal error message is displayed when you clicked Success, In-Progress, Pending links in the Events page.	Check the jobs (device list) information in the Jobs page.
WMSNG-5612	The device display flickers 3-5 times after logging into user account when the Unified Write Filter is enabled on Windows 10 IoT Enterprise devices.	There is no workaround.
WMSNG-5617	NetScaler Gateway Authentication takes 3-4 minutes to authenticate on Windows 10 IoT Enterprise devices.	There is no workaround.
WMSNG-5618	An issue is observed in the language content when you select single and multiple languages on Windows 10 IoT Enterprise devices.	There is no workaround.
WMSNG-5610	Default language in the login screen does not display the default selected language on Windows 10 IoT Enterprise devices.	There is no workaround.
WMSNG-5716	Wyse Device Agent upgrades twice from 14.5.1.37 to 14.5.2.15 when it is deployed from Wyse Management Suite.	There is no workaround.
WMSNG-5714	The password is taken in English for the login screen in Asian language on Windows 10 IoT Enterprise devices.	There is no workaround.
WMSNG-4969	Wyse Device Agent 14.5.1.37 does not load in Systray on factory imaged Windows 10 IoT Enterprise devices.	There is no workaround.

Wyse Management Suite version 3.2

Compatibility

Supported Dell end-points on Wyse Management Suite

Table 87. Supported Dell end-points on Wyse Management Suite

Operating System	Platform	Wyse Device Agent versions
ThinLinux 2.x	Wyse 3040 Thin Client	2.2.1.01
	Wyse 5070 Thin Client	Wyse Device Agent 3.4.7-08 and later
	Wyse 5470 Thin Client	Platform Utility 2.4.7-08 and later
Windows 10 IoT Enterprise 2019 LTSC	Wyse 5070 Thin Client	10.03.06.11.19, 10.04.06.09.19.00 WDA: 14.4.6.5 and later
	Wyse 5470 Thin Client	10.03.08.07.19.00, 10.03.06.11.19 Wyse Device Agent 14.4.6.5 and later
	Wyse 5470 AIO Thin Client	10.03.07.06.19.00, 10.03.06.11.19 WDA: 14.4.6.5 and later
ThinOS	<ul style="list-style-type: none"> • Wyse 3010 Thin Client • Wyse 3020 Thin Client • Wyse 3030 LT Thin Client (with and without PCoIP) • Wyse 5040 Thin Client (ThinOS, PCoIP) • Wyse 5010 Thin Client (ThinOS, PCoIP) • Wyse 7010 Thin Client • Wyse 5060 Thin Client (with and without PCoIP) 	8.5.x, 8.6.x
	<ul style="list-style-type: none"> • Wyse 3040 Thin Client • Wyse 5070 Thin Client (with and without PCoIP) • Wyse 5470 Thin Client • Wyse 5470 AIO Thin Client (with and without PCoIP) 	8.6.x, 9.0.x, 9.1.x
Teradici	Wyse 5030 PCoIP zero client	Threadx 5.x
	Wyse 7030 PCoIP zero client	Threadx 6.x
	Wyse 5050 AIO Thin Client	
Dell Hybrid Client	Wyse 5070 Thin Client	Ubuntu 18.04, 20.04
	Wyse 5070 Extended Thin Client	Bundle—Dell Hybrid Client 1.1 - 1288, Dell Hybrid Client 1.5

Table 87. Supported Dell end-points on Wyse Management Suite (continued)

Operating System	Platform	Wyse Device Agent versions
	OptiPlex 7070 Ultra OptiPlex 7090 Ultra OptiPlex 3090 Ultra Latitude 3320	Dell Client Agent - 1.0.0-392, 1.1.0-193, and 1.2.0 Dell Client Agent Enabler - 1.0.0-72 and 1.1.0-17
Dell Ubuntu (Generic) Client	OptiPlex 7070 Ultra OptiPlex 7090 Ultra OptiPlex 3090 Ultra Latitude 3320	Ubuntu 18.04, 20.04 Dell Client Agent Enabler - 1.0.0-72, 1.1.0-17, and 1.2.0-25, 1.3

NOTE:

Wyse Management Suite 3.2 will be the last release for the following platforms that are reaching end of service support on 04/30/2021:

- Wyse 3040 Thin Client running ThinLinux 2.x
- Wyse 5070 Thin Client running ThinLinux 2.x
- Wyse 5470 Thin Client running ThinLinux 2.x

Supported operating system matrix

Table 88. Supported operating systems

Operating system	WMS server	WMS repository	Remote database
Windows Server 2012 R2 English	Supported	Supported	Supported
Windows Server 2012 R2 French	Supported	Supported	Not supported
Windows Server 2012 R2 Italian	Supported	Supported	Not supported
Windows Server 2012 R2 German	Supported	Supported	Not supported
Windows Server 2012 R2 Spanish	Supported	Supported	Not supported
Windows Server 2016 English	Supported	Supported	Supported
Windows Server 2016 French	Supported	Supported	Not supported
Windows Server 2016 Italian	Supported	Supported	Not supported
Windows Server 2016 German	Supported	Supported	Not supported
Windows Server 2016 Spanish	Supported	Supported	Not supported
Windows Server 2019 Standard English	Supported	Supported	Supported

Supported browsers

Table 89. Supported browsers

Browsers	Version
Chrome	88.0 and later
Firefox	82.0 and later
Internet Explorer	11.0 and later

New and enhanced features

Secure MQTT support in Wyse Management Suite server

The Wyse Management Suite public and private cloud MQTT supports secure port along with the current MQTT port. It enables devices such as the Wyse Embedded Standard, Dell Hybrid Client, and the Wyse Management Suite repository to communicate using the Secure MQTT. In public servers, the Secure MQTT communication works through the 443 port. When MQTT (1883) is not reachable, a fallback mechanism is initiated to connect to the Secure MQTT. In public servers, the default MQTT is External MQTT (1883) URL and you cannot select the preferred MQTT server. However, to connect to Secure MQTT on public servers, 1883 port should be blocked in clients such as the Wyse Embedded Standard, Dell Hybrid Client, and the Wyse Management Suite repository side. In on-premise servers, Wyse Management Suite administrator can select the preferred MQTT using the devices (Wyse Embedded Standard, Dell Hybrid Client) and Wyse Management Suite repository should communicate through the External MQTT 1883 and External Secure MQTT 8443—for a typical Wyse Management Suite Installation. Agents or devices that do not support Secure MQTT continue to communicate through nonsecure 1883 connection when preferred MQTT is selected as External Secure MQTT.

NOTE:

- Secure MQTT is only available with Wyse Management Suite repository, Windows Embedded Standard WDA, and Dell Hybrid Client DCA.
- Other device types or agents will continue to use the external MQTT 1883 port.
- While installing Wyse Management Suite on-premise on custom port, ensure to select valid port for all the components including Secure MQTT. You cannot select zero as port for any component.
- While upgrading Wyse Management Suite on-premise, ensure to select valid port for Secure MQTT. You cannot enter zero for Secure MQTT during custom install or upgrade from previous version.
- TLS selection is not available during Wyse Management Suite on-premise upgrade. To make changes in TLS, go to **Portal Administration > Setup** page. TLS 1.2 is mandatory for Dell Hybrid Client 1.5.
- For 10,000 devices setup, the minimum memory (RAM) should be 12 GB for Secure MQTT communications.
- Wyse Management Suite 3.2 onwards, Dell Technologies recommends to use MongoDB version 4.2.12 for distributed setups.

Displaying the End User License Agreement for ThinOS 9.x

While uploading the ThinOS 9.x signed packages the End User License Agreement (EULA) is displayed on applications, data, and the Config UI screen. Once the administrator selects the **Do not show this message again** option, the EULA is not displayed for that package of any version. To see the EULA message again for the packages, perform the following steps:

1. Go to the **Portal administration**.
2. Click **Others**.
3. Enable the **Reset EULA Acceptance (ThinOS 9.x)** check box.

Configuring proxy in Wyse Management Suite remote repository server

From Wyse Management Suite 3.1, remote repositories support SOCKS5 and HTTPS proxy for all HTTPS and MQTT communications to Wyse Management Suite. Only system-wide proxies are supported since the remote repository runs as a Windows service. Also, only proxies with AD authentication or no authentication are supported. PAC script that is configured using DHCP option tag 252 is also supported. You can configure the proxy servers using any method. Following are a few examples on how to configure proxy server information:

- Using the netsh command—You can use the following command to configure the proxy server information:

```
netsh winhttp set proxy proxy-server="socks=localhost:9090"
bypass-list="localhost" C:\Users\administrator.WMSAD61>netsh
winhttp set proxy proxy-server="socks=<proxy server IP>"
bypass-list="localhost" Current WinHTTP proxy settings: Proxy
Server(s) : socks=<proxy server IP> Bypass List : localhost
```

- Using the WPAD file configured in DHCP—Wyse Management Suite repository server must be configured with DHCP IP address and Internet Explorer must be configured with Automatically Detect settings. You must configure the DHCP option tag 252 with the WPAD.pac file. Following is a sample PAC file content:

```
function FindProxyForURL(url, host) { if (shExpMatch(host,
"*wysemanagementsuite.com*")) { return "SOCKS <proxy server
IP>"; } return "DIRECT"; }
```

Limitations:

- Proxies that are configured at user level are not supported.
- There is no provision for user to enter username and password.
- There is no UI to enter the proxy URL as proxy details are read from the underlying operating system.
- HTTP proxy is not supported.

Proxy settings are read on repository service start. If there are any changes in the proxy settings, the repository service must be restarted later.

Proxy support for Windows Embedded Standard WDA and Dell Hybrid Client DCA

Windows Embedded Standard WDA supports HTTPs and Dell Hybrid Client DCA supports both HTTPs and SOCKS5 proxy for all HTTP and secure MQTT communications with Wyse Management Suite public server. System-wide proxies are supported as WDA and DCA runs as a service. Proxies with AD authentication or no authentication are supported. PAC script that is configured using DHCP option tag 252 is supported. Proxy settings are read on WDA and DCA service start. If there are changes in the proxy settings, the WDA and DCA service must be restarted.

Limitations:

- Proxies which are configured at user level are not supported.
- There is no provision for user to enter username and password.
- There is no UI to enter the proxy URL as proxy details are read from the underlying operating system.
- The External MQTT with 1883 will not go through proxy.
- HTTP proxy is not supported.
- Proxy PAC file through DNS is not supported.

Configure proxy server information using WININET proxy for Windows Embedded Standard WDA

Follow the steps below to create a domain policy to set WININET proxy setting at system level for all devices:

1. Open cmd prompt as an administrator.
2. Run `gpedit.msc` command.
3. Configure the Group Policy from domain controller to enable Internet Explorer-proxy configurations per machine not per user.
4. Select **Enable** in the group policy path—Computer Configuration\Administrative Templates\Windows Components\Internet Explorer\Make proxy settings per-machine (rather than per user).
5. Run `gpupdate /force` command on the same command prompt window which is opened as run as admin.
6. Launch Internet Explorer as an administrator.
7. Go to **Connections > LAN settings**.
8. Configure proxy and click **OK**.

Configure proxy server information using DHCP option tag for Windows Embedded Standard WDA and Dell Hybrid Client DCA

The Windows Embedded Standard and Dell Hybrid Client device must be configured with DHCP IP. For DHCP configuration, DHCP option tag 252 must be configured with WPAD.pac file. Here is a sample PAC file (WPAD.dat) content:

```
o function FindProxyForURL(url, host)
o {
if (shExpMatch(host, "*wysemanagementsuite.com*"))
o {
return "SOCKS 100.xxx.xxx.xxx:1080";
o }
return "DIRECT";
o }
```

Limitations:

- Only secure MQTT communication goes through proxy.
- MQTT (1883) does not use proxy.

Reset policy button for ThinOS 9.x and Hybrid Client Configuration

The Reset Policy button resets the configuration to default value. It resets all the dependent, collection, and independent configuration values to default values. When Reset Policy button is used in device level, the values reset to custom group if preset or else default group policy values if present. The Reset Policy button works in all hierarchy level. Resetting the entire policy removes all policies in the group. This action resets all settings regardless of the section, and it cannot be undone. Clicking **Abort** cancels this operation, and clicking **Save & Publish** removes all policies.

Wyse Management Suite to support automatic update of Dell-signed applications on Dell Hybrid Client

Wyse Management Suite or Dell Client Agent updates Dell-signed applications once Dell Hybrid Client checks in to Wyse Management Suite, when there is a new version available. When Dell Client Agent gets the list from Wyse Management Suite, it compares the application version with the platform application version. If Wyse Management Suite application version is greater than platform application version, Dell Client Agent updates the application. A new option in Config UI is introduced for Dell Hybrid Client.

New option in Config UI is introduced for Dell Hybrid Client— In **Groups and Config > Edit Policies > Hybrid client > WMS Client Settings > Auto Update** (by default the option is off). Frequency option will be available for weekly (default) and monthly.

Limitation:

- The Dell Hybrid Client should be in **ON** state during the auto update. If the devices are **OFF**, then the auto update schedule will move to next week or month.

Wyse Management Suite displays Auto Update Capable for applications

In **Apps & Data** page > **App Inventory > Hybrid Client**, a new column with auto update capability is added which differentiates the auto update apps by displaying **YES** and **NO**. The auto update applications are placed in the **HybridClientApps** folder in the repository. The auto extraction happens in repository before displaying the files in Wyse Management Suite server and auto update capable values are updated as a result.

Dell Hybrid Client user personalization data upload to file repositories

Wyse Management Suite administrator must configure repositories to upload the user personalization data to file repositories. On device check-in, Dell Client Agent receives the list of repositories in which it can upload the personalization back-up data to the file repositories (new folder named hybridClientUserData is present for backed up file upload). There is a new Config UI to enable the data roaming for the device in device group configurations. Go to **Hybrid Client > WMS Client Setting > User Data Roaming** (by default is enabled). Sync Schedule is set as **On User Logout**. Before the domain logs out of the session, user data backup is taken and same is uploaded to Wyse Management Suite repository or cloud repository as selected in User Data Roaming Repository.


Dell Hybrid Client user personalization data upload content

You can select the backup content in **User Group > Edit Policies > Hybrid Client > Personalization > Data Roaming**. The data of the enabled content is backed up before you log out of the Dell Client Agent. The Dell Client Agent and Wyse Management Suite repository workflow uploads the files to the remote or local repository.

Repository to support the replication of user data

WMS Portal Administration > File Repository > Edit Settings has new option for every registered repository for replicating user personalization data. **Replicate User Personalization Data** in the file repositories enables to replicate the user data to all the repositories registered to Wyse Management Suite server. When the Wyse Management Suite admin turns on the automatic replication, user data replication option turns on automatically.

Limitation: If the replication is turned off on any repository, there are chances of discrepancy of user personalization data. In an event where there are multiple repositories, it is recommended to keep the replication on. User data can increase up to 20 MB per user. Ensure that the servers have sufficient disk space to accommodate all the intended user data.

 **NOTE:** Enabling the replication creates events for user data replication. If the user datafiles are more, events increase for the same.

Platform agnostic

When a new platform is registered to the Wyse Management Suite, the below filters get updated dynamically:

- Platform filters in devices page.
- Operating system type and subtype filter in devices page.
- Platform filters in Standard App and Advanced App Policy page.
- Operating system type and subtype filter in Standard App and Advanced App Policy page.
- BIOS Configuration page.

Assign granular roles to AD groups

To log in as a Global Administrator, go to **Portal Admin > Active Directory > One Time Import**, and enter credentials. On the right pane there are three filters as below:

- Default user policy group—Groups being imported to Wyse Management Suite and being used for Default user policy group.
- Group role assignment—Groups which have been imported for assigning permissions.
- Unassigned groups—Groups which have been selected from left panel.

Wyse Management Suite must provision the assignment of below roles to groups imported from Active Directory:

- Global Administrator
- Group Administrator
- Viewer
- Custom WMS role

Permissions assigned to the group must get applied to all the users present in the group. Wyse Management Suite must provide an option to manually sync the users present in the imported group to Wyse Management Suite. It should also provide an option to deactivate, activate, and delete the AD Groups.

ThinOS 9.x firmware and BIOS file upload to cloud Wyse Management Suite

The operator can upload and edit the ThinOS firmware, BIOS, and packages from the new **Administration > Cloud WMS Repo** tab. Wyse Management Suite supports the new platform type. The firmware should contain necessary descriptions, and BIOS should contain the platform information. Once the firmware and BIOS is added, only description is editable. However, description is required. Tenant cannot modify anything for the package which is uploaded by operator.

Tenant admin: Cloud WMS firmware and BIOS files show up automatically under **Apps & Data > OS Image Repository > ThinOS** tab along with any other user uploaded files. Not more than ten files can be uploaded to the public cloud. User uploaded files can be edited or removed. However, the cloud Wyse Management Suite firmware and BIOS cannot be edited or removed by administrators.

Secure LDAP improvements

Improvements have been made to import the public key of the certificate files to trust store for a secure LDAP communication in Wyse Management Suite 3.2.

When server certificate is uploaded during the initial setup, a tomcat restart initiates. This should be optimized after certificate is imported to trust store. After the on-premise installation, you can import the server certificate and configure secure LDAP by updating the certificate in the OOBE screen.

After the on-premise installation with a single tenant, go to **Portal Administration > Setup** to import the public key of the certificate to the trust store. For multi-tenant setup, go to **WMS Operator Administration > System Settings > LDAPS**.

Once you import the certificate, tomcat restarts automatically. When the server certificate is uploaded in OOBE, automatic restart of tomcat initiates.

More commands added to schedule device commands

Schedule device commands have few commands listed, more commands need to be added which can be triggered for mass number of devices. The schedule device commands are as below:

- Lock (Wyse Management Suite 3.2)
- Send Message (Wyse Management Suite 3.2)
- Factory Reset (Wyse Management Suite 3.2)
- Shutdown
- Restart
- Re-Image
- Sync-BIOS password
- Query
- Lock—You can lock the devices for a group of devices which are connected to VDI session. This option is applicable for ThinOS 8.x and ThinOS 9.x devices.
- Factory Reset —You can reset a group of Dell Hybrid Client, ThinOS 8.x, and 9.x devices to factory settings.
- Send message—You can send message to a group of Wyse Embedded Standard, ThinLinux, ThinOS 8.x, 9.x, and Dell Hybrid Client devices.

Wyse Management Suite to support restart of failed jobs

Wyse Management Suite supports restart of failed jobs (Device Commands, Application policy, Groups & Configurations, Image Policy) from Jobs tab. With this feature, Wyse Management Suite provides an option to select new schedule while triggering the restart of failed jobs. The steps below can be followed to restart a failed job:

1. Go to **Jobs**.
2. Select the check box of a failed job.
3. Click **Restart Fail Job** to restart the job.

This creates a new schedule job, and it applies only to the failed targeted devices. Failed jobs are updated with the status code Restarted.

NOTE: We can restart the Failed Jobs only once, as a new job is created each time that a failed job is restarted. This is applicable for WMS Global Admin, WMS Custom Role (if job permissions are assigned), and Group Admin for specific group.

Automatic device unregister

Autounregister device rule is force unregistered from Wyse Management Suite. Force unregister happens when the device is not communicating to Wyse Management Suite after the number of days that are configured in the rule. The device keeps the Wyse Management Suite connectivity details to communicate with the Wyse Management Suite. When the device comes up next and attempts to connect to the Wyse Management Suite, the request is rejected and the device goes to an unregistered state. This is a Group-Based rule which uses the same workflow of device health notification. A check happens ever twenty-four hours for device health notification. For every tenant, the rule fetches the list of groups to be auto unregistered. The devices which fail to check-in as per the rule are unregistered.

To create and enable Auto-Register Rule, go to **WMS Portal > Rules > Failed Check-In**.

Wyse Management Suite Dell generic client device type support for unified device field conversion

This feature is applicable when you buy Dell clients with Dell Ubuntu operating system and then want to convert to either Hybrid or ThinOS clients. The Ubuntu client operating systems have Dell Client Agent Enabler installed along with the operating system, and an optional conversion image is present in the recovery partition. Administrators configure the Wyse Management Suite environment for auto discovery or manual registration. When the client is powered on, the Dell Client Agent Enabler discovers the Wyse Management Suite server, registers the device, and checks-in. The Dell Client Agent Enabler registers to Wyse Management Suite as a generic client.

The Dell Client Agent enables you to do the following actions using the Wyse Management Suite 3.2 Generic Device type:

- Deploy Real-Time commands such as Query, Restart, Shutdown, and Wake-on-LAN.
- Device Pull Log command
- Convert to Hybrid Client command using Jobs, Devices, or Device Details page.
- Deploy Advanced Application Policy.
- Deploy Standard Application Policy
- Deploy Generic Client to Dell Hybrid Client conversion policy.

Generic devices can be converted to Dell Hybrid Client devices in two ways:

- Wyse Management Suite administrator can push the `Convert to Hybrid Client` command to convert Generic devices from Jobs, Devices, and Device Details page.
- By using Dell Hybrid Client conversion policies (by pushing Dell Hybrid Client bundles or ISO image files).

Before the device conversion is initiated, Dell Client Agent Enabler backs up the Wyse Management Suite connection data and then triggers the Dell Hybrid Client installer. The Dell Hybrid Client installer completes the conversion and reboots the device automatically. After the reboot, the device boots into the converted operating system and checks into the Wyse Management Suite server.

To convert Dell Generic Clients that run the Ubuntu 18.04 LTS, follow the below steps:

- For Dell Hybrid Client 1.0 or 1.1, you must push the Dell Hybrid Client 1.0 or 1.1 bundle package files using the application policy.
- For Dell Hybrid Client 1.5, you must push the Dell Hybrid Client ISO package using the application policy. Initiate the OS-image upgrade tool `os-upgrade_1.1-10_amd64.deb` package, and then push the Dell Hybrid Client 1.5 ISO package file.

To convert Dell Generic Clients that run the Ubuntu 20.04 LTS to Dell Hybrid Client 1.5, you must push the Dell Hybrid Client 1.5 bundle package files using the application policy.

Fixed issues

Table 90. Fixed issues

Issue ID	Description
WMS-389	Fixed issues with ThinLinux configuration.
WMS-369	Fixed the time zone configuration issue on ThinLinux.

Table 90. Fixed issues (continued)

Issue ID	Description
WMS-304	Fixed the issue where the local admin password validation fails.
WMS-284	Fixed the issue where the reboot option must be enabled in Wyse Management Suite while enabling Kiosk Mode.
WMS-266	Fixed the issue where the option Export devices to CSV in Wyse Management Suite cloud does not display the ThinClient location.
WMS-248	Fixed the issue where the French Canada keyboard layout is displayed in legacy mode.
WMS-313	Fixed the ADFS SSO authentication error on Wyse Management Suite 2.0 cloud.
WMS-239	Fixed the issue where the Sync BIOS Admin Password option does not work from the Jobs page.
WMS-139	Improved regional localization keyboard support on Windows 10 IoT Enterprise.
WMS-147	Supports the ThinLinux 2.1 Boomi Atom Installation using Wyse Management Suite.
WMS-396	Fixed the issue where an error message stating Data is not available. Please provide the valid data is displayed, along with other certificate issues in Wyse Management Suite 3.0. This issue occurs while deleting certificate from ThinOS 9 Group policy.
WMS-408	Fixed the issue where the domain credential causes the log in screen to shift to the left on Internet Explorer 11. This issue occurs on the Wyse Management Suite 3.0 pro on-premise.
WMS-409	Fixed the issue where HSTS is missing from the HTTPS server.
WMS-419	Fixed the issue where the Wyse Management Suite reports for Windows Embedded Standard and ThinLinux do not show the Last Logged in User.
WMS-421	Fixed the issue where the BIOS upgrades in ThinOS causes boot loops. This issue occurs when parent-child groups are selected.
WMS-445	Fixed the issue where the Thin OS 9.x firmware cannot be blocked from the child sub-group.
WMS-449	Fixed the security vulnerability issue CVE-2020-17527.
WMS-453	Fixed the security vulnerability issue CVE-2020-17527.
WMS-481	Fixed the issue where the keyboard layout list is blank in Wyse Management Suite 3.1 > ThinOS 8.x Policy .
WMS-483	Fixed the issue where change in TLS warns of database password change in Wyse Management Suite 3.1.
WMS-485	Fixed the issue with viewing more than 26 imported users in Wyse Management Suite.

Known issues

Table 91. Known issues

Issue number	Issue description	Workaround
WMSNG-399	Removed the ApplyGroupConfigQueue option	There is no workaround.
WMSNG-310	Remove Or Criteria from Checking Compliance Query	There is no workaround.
WMSNG-515	Intermittently AD Attribute is displayed as AD Group for imported OU groups when imported with Rest API.	There is no workaround.

Table 91. Known issues (continued)

Issue number	Issue description	Workaround
WMSNG-507	Group is not listed in Groups & Config page when an AD group with multiple special characters is imported.	There is no workaround.
WMSNG-625	Default description is shown in group edit page after importing groups through REST API from Active Directory with Custom description.	There is no workaround.
WMSNG-1888	Current connection section details of the ThinLinux device remain blank for some fields after registration through wireless connection.	There is no workaround.
WMSNG-1450	Quit option in Dell Client Agent drop-down is not localized.	There is no workaround.
WMSNG-1879	The category and setting panes do not have their own separate scroll bars.	There is no workaround.
WMSNG-143	ThinOS has number overflow issue with DeviceCommand.sequence.	There is no workaround.
WMSNG-342	ThinOS 9.x App fails to install when the policy is configured with Apply to New Device.	There is no workaround.
WMSNG-1029	Wyse Device Agent installer UI displays a message stating Downgrading Dell Wyse Device Agent even though Wyse Device Agent is upgrading.	There is no workaround.
WMSNG-1623	Device with DCAE 1.0.0 72 on Ubuntu 20.04 cannot register to Wyse Management Suite with DHCP Discovery option.	There is no workaround.
WMSNG-1451	Wyse Management Suite repository registration fallback to other SOCKS Proxy does not happen when the first SOCKS Proxy is invalid.	There is no workaround.
WMSNG-1670	Dell Hybrid Client and ThinOS config UI fails to translate in MUI languages.	There is no workaround.
WMSNG-370	Notification that is published from operator account does not appear on Tenant Login.	There is no workaround.
WMSNG-2019	Passing Russian keywords as part of Advance ini for ThinOS 8.x does not get sent by server properly.	There is no workaround.
WMSNG-202 8	Configuration that is pushed from Wyse Management Suite does not get applied on device.	There is no workaround.
WMSNG-1636	Wrong or missing German translations	There is no workaround.
WMSNG-202 6	The device stops responding on the lock screen when the Wyse Device Agent upgrades.	There is no workaround.
WMSNG-4106	The WyseEasySetup kiosk mode does not work with NetScaler and user account.	There is no workaround.
WMSNG-306 4	Upload button remains enabled while uploading the firmware or BIOS file to operator account is in process.	There is no workaround.
WMSNG-204 2	The default reset option is available for Business Hour in WMS Client Settings.	There is no workaround.
WMSNG-258 9	Email for daily snapshot of noncompliant devices is not received from EU1 production server.	There is no workaround.
WMSNG-3136	When you import the nested AD groups, only the parent group is displayed in Group assignment tab in users page.	There is no workaround.
WMSNG-420 8	While uploading mp4 file to import configurations to a group, the message displayed is inappropriate.	There is no workaround.
WMSNG-4116	Alignment is incorrect in ThinOS 9.x.	There is no workaround.
WMSNG-4117	The Reset All config button for Assign Granular Roles to AD Messages and Bulk Group Change does not get translated.	There is no workaround.
WMSNG-4241	Entering a long username distorts the UI of contact card.	There is no workaround.

Table 91. Known issues (continued)

Issue number	Issue description	Workaround
WMSNG-4269	A message stating NullPointerException is displayed in stratus log when the Windows Embedded Standard device does not report the image version correctly.	Ensure that you do not add any special characters as part of the image version or the package. You must follow the Windows Embedded operating system imaging instructions.
WMSNG-3074	MQTT request is sent as IP instead of hostname through proxy server during repository registration to public cloud.	There is no workaround.
WMSNG-3514	After imaging, the Dell Client Agent icon is not displayed on the taskbar.	Dell Client Agent can be launched from Dell Hybrid Client settings.
WMSNG-4365	Configuration store location message in setup page or OOBIE must be localized to MUI.	There is no workaround.
WMSNG-4369	The error must be displayed as 1005 instead of 2001, with an extra text as Code for few MUI languages.	There is no workaround.
WMSNG-4334	The error message stating Waiting got Network is not localized in Dell Client Agent.	There is no workaround.
WMSNG-4272	Wyse Management Suite displays an internal error or misconfiguration when Mobile App is searched in the App inventory.	There is no workaround.
WMSNG-4261	All new error messages that are mentioned in the wiki must be localized in Wyse Management Suite server.	There is no workaround.
WMSNG-4380	Events related to user personalization must not be displayed in the server.	There is no workaround.
WMSNG-4381	Status codes such as two hundred and five hundred is obtained when changing device type and FileType value .	There is no workaround.
WMSNG-4371	Message that is displayed after importing certificate to Trust store location for restarting Tomcat service is not localized.	There is no workaround.
WMSNG-4396	Generic device group Configuration Export and Import support do not work.	There is no workaround.
WMSNG-4397	The link to show the Targeted Failed Devices lists the failed devices of newly created job instead of listing devices of failed job.	There is no workaround.
WMSNG-4404	You can proceed with installation by entering zero as port for Secure MQTT.	There is no workaround.
WMSNG-4337	When the WMS server.xml and web.xml is modified to stop HTTPS and only allow HTTP, the Wyse Management Suite does not launch post the upgrade.	You must disable HTTPS connection only in web.xml to allow unsecure connection. Settings in server.xml are preserved.
WMSNG-4405	HTML tags are visible for Hybrid-Browser and custom connection setting in device detail summary page.	There is no workaround.
WMSNG-4431	The Import button stops responding and an error message stating Type Undefined is displayed in the console. This issue occurs when the administrator clicks Delete Group and then clicks Import Policies on Groups and Config page.	Reload the page if the import link does not work.
WMSNG-4411	After restarting the job, error status does not change to Restarted after multiple restarts.	There is no workaround.
WMSNG-4408	Screen capture fails to appear on Wyse Management Suite for hybrid device.	There is no workaround.
WMSNG-4435	Export device to CSV info message does not get translated to different languages.	There is no workaround.

Table 91. Known issues (continued)

Issue number	Issue description	Workaround
WMSNG-4410	HTML tags are visible for End-User events in Users page.	There is no workaround.
WMSNG-4420	Memory consumption increases on EU production server when Export devices to .csv is in process.	The option Export Devices to CSV has been disabled so that the export option cannot be used. You can generate the report instead of exporting the device list.
WMSNG-4436	The repository status of is Active does not turn back to True when the repository is unregistered and re-registered without deleting the unregistered repo entry.	After the repository is unregistered, delete the repository entry and then re-register.
WMSNG-4467	Notes that are mentioned under configurations for Dell Hybrid Client are not localized.	There is no workaround.
WMSNG-4474	Wyse Management Suite upgrade fails when there is a timestamp difference between the previous Wyse Management Suite version and the next Wyse Management Suite version upgrade.	Running the batch script fixes the corrupted server.xml. Once done, Wyse Management Suite can be upgraded.
WMSNG-4525	Saving and publishing the configuration displays an error message stating internal error or misconfiguration.	The user entry can be deleted, and Wyse Management Suite creates it automatically when the device reports the session next time. The end-user configurations must be republished again.
WMSNG-4405	HTML tags are visible for Hybrid-Browser and Custom Connection Setting in Device Detail summary page.	There is no workaround.
DTOS-1957	Unable to deploy a command to ThinOS 9.x devices after you restart the Wyse Management Suite server.	Restart the ThinOS 9.x device.
WMS-507	Event type and descriptions under the Device Details section and Events tab display references rather than usable information in Wyse Management Suite Public Cloud.	Clear browser cache.

Important notes

Wyse Management Suite upgrade path

Table 92. Wyse Management Suite upgrade path

Upgrade type	Upgrade path	Compatibility
3.0 to 3.2	3.0 > 3.2	Supported
	3.0 > 3.1 > 3.2	Supported
	3.0 > 3.1 > 3.1.1.569 > 3.2	Supported
	3.0 > 3.1 > 3.1.1.580 > 3.2	Supported
3.1 to 3.2	3.1 > 3.2	Supported
	3.1 > 3.1.1.569 > 3.2	Supported
	3.1 > 3.1.1.580 > 3.2	Supported
3.1.1.569 > 3.2	3.1.1.569 > 3.2	Supported
	3.1.1.580 > 3.2	Supported

Server or device agent details

Table 93. Server or device agent details

File name	Description	Version
WMS_3.2.exe	Wyse Management Suite 3.2	3.2.0.780
WMS_Repo.exe	Wyse Management Suite Repository	3.2.0.58
WMS_Import_Tool.exe	Wyse Device Manager to Wyse Management Suite Import tool	1.6.0.10
WDA_14.5.1.37_Unified.exe	Unified Wyse Device Agents	14.5.1.37
wda-2.4.3-00.01.x86_64.tar	ThinLinux 1.0 Agent	2.4.3-00.01.x86_64
wda_3.5.2-05_amd64.tar	ThinLinux 2.x Agent	3.5.2-05
DCA_1.2.0-416_amd64.deb	Dell Client Agent	1.2.0-416
DCA_Enabler_1.2.0-25_amd64_signed.tar.gz	Dell Client Agent Enabler	1.2.0-25
configUI_signed.zip	ConfigUI Package	1.5.145

Windows Server configuration requirements

Table 94. Windows Server configuration requirements

Devices	Server requirements
Minimum server requirements for Wyse management Suite operations with 10,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—4 CPU Minimum Disk Space—40 GB Minimum Memory—8 GB <p>NOTE: For 10,000 devices setup, the minimum memory (RAM) should be 12 GB for Secure MQTT communications.</p>
Server requirement for Wyse Management Suite operations with 50,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—4 CPU Minimum Disk Space—120 GB Minimum Memory—16 GB
Server requirement for Wyse Management Suite operations with 120,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—16 CPU Minimum Disk Space—200 GB Minimum Memory—32 GB

Wyse Management Suite version 3.1 Hotfix 1

Wyse Management Suite version 3.1 Hotfix 1 (3.1.1) release includes important fix for the issue where any password related configurations that are pushed from Wyse Management Suite are not applied correctly to the ThinOS 9.1 device.

- NOTE:** Ensure that you do not upgrade from Wyse Management Suite version 3.1.1.569 to Wyse Management Suite version 3.1.1.580 as this upgrade method is not supported. Installing and running the Wyse Management Suite version 3.1.1.580 on top of Wyse Management Suite version 3.1.1.569 will lead to uninstallation of the Wyse Management Suite software.
- NOTE:** Wyse Management Suite administrators must not perform the following steps before upgrading to Wyse Management suite 3.1.1:
 1. Edit the `server.xml` located at `WMS Install Directory \Tomcat-9\conf` and comment out HTTPS section and uncomment HTTP section to completely block HTTPS and allow only HTTP.
 2. Edit the `web.xml` located at `WMS Install Directory \Tomcat-9\conf` and remove the security-constraint line.
 3. Restart Tomcat and launch Wyse Management Suite in 8080 port (`http:<fqdn>:8080/ccm-web`) and ensure that the user interface is not accessible in `https:<fqdn>:443/ccm-web`.
- NOTE:** When you install Wyse Management Suite 3.1 with the **Teradici EM SDK** option enabled, you cannot edit and save the TLS settings in the **Portal Administration** page. An error message is displayed and also an unexpected behavior is observed when you upgrade to Wyse Management Suite 3.1.1.

Compatibility

Supported Dell end-points on Wyse Management Suite

Table 95. Supported Dell end-points on Wyse Management Suite

Operating System	Platform	Wyse Device Agent versions
Linux 11.3.110	Wyse 5010 Thin Client Wyse 5020 Thin Client	Wyse Device Agent 2.0.13-00.1 Platform Utility 1.0.4-0.1 and later
ThinLinux 1.0.7	Wyse 5020 Thin Client Wyse 5060 Thin Client	Wyse Device Agent 2.2.23-00.02 and later Platform Utility 1.0.26-0.4 and later
ThinLinux 1.0.7.1	Wyse 5020 Thin Client Wyse 5060 Thin Client	Wyse Device Agent 2.2.23-00.02 and later Platform Utility 1.0.26-0.4 and later
ThinLinux 2.2.1.01 Maintenance Release 2	Wyse 3040 Thin Client Wyse 5070 Thin Client Wyse 5070 Extended Thin Client Wyse 5470 Thin Client	Wyse Device Agent 3.4.7-01 Platform Utility 2.4.7-01 and later
ThinLinux 2.2.1.03 Maintenance Release 3	Wyse 3040 Thin Client Wyse 5070 Thin Client Wyse 5070 Extended Thin Client Wyse 5470 Thin Client	Wyse Device Agent 3.4.7-08 and later Platform Utility 2.4.7-08 and later

Table 95. Supported Dell end-points on Wyse Management Suite (continued)

Operating System	Platform	Wyse Device Agent versions
Windows 10 Enterprise LTSB 2016 10.03.08.07.19.00, 10.03.06.11.19.00	Wyse 5070 Thin Client Wyse 5070 Extended Thin Client	Wyse Device Agent 14.4.1.5
Windows 10 Enterprise LTSB 2016 10.03.08.11.19.00	Wyse 5470 Thin Client Wyse 5470 All-in-One Thin Client	Wyse Device Agent 14.4.1.5
Windows 10 Enterprise 2019 LTSC 10.04.06.09.19.00, 10.04.08.06.20.00	Wyse 5070 Thin Client	10.04.06.09.19.00 Wyse Device Agent 14.4.1.5 10.04.08.06.20.00 Wyse Device Agent 14.4.6.5
Windows 10 Enterprise 2019 LTSC 10.03.08.07.19.00 , 10.03.06.11.19.00	Wyse 5470 Thin Client	Wyse Device Agent 14.4.1.5
Windows 10 Enterprise 2019 LTSC 10.03.08.07.19.00 , 10.03.06.11.19.00	Wyse 5470 All-in-One Thin Client	Wyse Device Agent 14.4.1.5
ThinOS	<ul style="list-style-type: none"> ● Wyse 3010 Thin Client ● Wyse 3020 Thin Client ● Wyse 3030 LT Thin Client with ThinOS ● Wyse 3030 LT Thin Client with PCoIP ● Wyse 5010 Thin Client with ThinOS ● Wyse 5010 Thin Client with PCoIP ● Wyse 5060 Thin Client with ThinOS ● Wyse 5060 Thin Client with PCoIP ● Wyse 7010 Thin Client with ThinOS ● Wyse 5040 AIO Thin Client ● Wyse 5040 AIO Thin Client with PCoIP 	8.5_024, 8.6_303
	<ul style="list-style-type: none"> ● Wyse 3040 Thin Client with ThinOS ● Wyse 3040 Thin Client with PCoIP ● Wyse 5070 Thin Client with ThinOS ● Wyse 5070 Thin Client with PCoIP ● Wyse 5070 Extended Thin Client with ThinOS ● Wyse 5070 Extended Thin Client with PCoIP 	8.6_412, 9.0.2081

Table 95. Supported Dell end-points on Wyse Management Suite (continued)

Operating System	Platform	Wyse Device Agent versions
	<ul style="list-style-type: none"> Wyse 5470 Thin Client with ThinOS Wyse 5470 Thin Client with PCoIP Wyse 5470 AIO Thin Client with ThinOS Wyse 5470 AIO Thin Client with PCoIP 	
ThinOS Lite	<ul style="list-style-type: none"> Wyse 3020 zero client for Citrix Wyse 5010 zero client for Citrix 	8.5_024, 8.6_303
Teradici	Wyse 5030 PCoIP zero client Wyse 7030 PCoIP zero client Wyse 5050 AIO	17.5.0 and 20.4.1
Dell Hybrid Client—Ubuntu 18.04	Wyse 5070 Wyse 5070 Extended OptiPlex 7070 Ultra	Bundle—1288 Dell Client Agent —1.0.0-392 Dell Client Agent Enabler —1.0.0-72

Supported operating system matrix

Table 96. Supported operating systems

Operating system	WMS server	WMS repository	Remote database
Windows Server 2012 R2 English	Supported	Supported	Supported
Windows Server 2012 R2 French	Supported	Supported	Not supported
Windows Server 2012 R2 Italian	Supported	Supported	Not supported
Windows Server 2012 R2 German	Supported	Supported	Not supported
Windows Server 2012 R2 Spanish	Supported	Supported	Not supported
Windows Server 2016 English	Supported	Supported	Supported
Windows Server 2016 French	Supported	Supported	Not supported
Windows Server 2016 Italian	Supported	Supported	Not supported
Windows Server 2016 German	Supported	Supported	Not supported
Windows Server 2016 Spanish	Supported	Supported	Not supported
Windows Server 2019 Standard English	Supported	Supported	Supported

Supported browsers

Table 97. Supported browsers

Browsers	Version
Chrome	88.0 and later
Firefox	82.0 and later
Internet Explorer	11.0 and later

Fixed issues

Table 98. Fixed issues

Issue ID	Description
WMS-455, WMS-460, WMS-461, WMS-462	Fixed an issue where you were not able to establish a VNC connection when you configure the VNC connection using Wyse Management Suite.
WMS-463	Fixed an issue with the Wyse Management Suite administrator password policy.
WMS-4339	Fixed an issue with the Tomcat Service error when you upgrade from Wyse Management Suite 3.1 to Wyse Management Suite 3.1.1

Known issues

Table 99. Known issues

Issue number	Issue description	Workaround
WMSNG-399	The ApplyGroupConfigQueue has been removed.	There is no workaround.
WMSNG-310	The Or criteria have been removed from the Checking Compliance Query.	There is no workaround.
WMSNG-515	The Active Directory attribute is displayed as Active Directory group for imported OU groups when imported using RestAPI.	There is no workaround.
WMSNG-507	Group is not listed in the Groups & Config page when an Active Directory group with multiple special characters is imported.	There is no workaround.
WMSNG-625	The default description is displayed in the group edit page after importing groups using RestAPI from Active Directory with custom description.	There is no workaround.
WMSNG-1888	The current connection section details of the ThinLinux device are blank for some fields after registering using a wireless connection.	There is no workaround.
WMSNG-1450	The Quit option in DCA dropdown is not localized.	There is no workaround.
WMSNG-342	ThinOS 9.x App fails to install when the policy is configured with Apply to new device.	There is no workaround.
WMSNG-1029	The Wyse Device Agent installer UI displays a message stating Downgrading Dell Wyse Device Agent when the Wyse Device Agent is upgrading.	There is no workaround.
WMSNG-370	Notification that is published from the operator account does not appear on the tenant login.	There is no workaround.
WMSNG-2028	The Teradici configuration that is deployed from the Wyse Management Suite does not get applied to the device intermittently.	There is no workaround.
WMSNG-1623	You cannot register OptiPlex 7070 Ultra device with DCA-Enabler 1.0.0.72 using DHCP discovery option.	There is no workaround.
WMSNG-1451	Wyse Management Suite Repository registration fallback to other SOCKS proxy does not work when first SOCKS Proxy is invalid.	There is no workaround.
WMSNG-1670	Dell Hybrid Client and ThinOS Config UI are not translated completely.	There is no workaround.
WMSNG-2019	Few Russian keywords added to the advance ini parameters are not deployed to ThinOS 8.x devices.	There is no workaround.
WMSNG-2026	When you are upgrading Wyse Device Agent, the lock screen is not displayed for few seconds on Wyse 5070 Thin Clients running Windows 10 IoT Enterprise.	There is no workaround.

Table 99. Known issues (continued)

Issue number	Issue description	Workaround
WMSNG-4211	When you log in as a group administrator, Getting resource contention and Internal error message is displayed.	There is no workaround.
WMSNG-3557	When you install with Custom Port, the device fails to configure IP address for MQTT.	There is no workaround.
WMSNG-4337	The Wyse Management Suite UI fails to launch after the update if the WMS Server.xml and Web.xml is modified to allow only http and not https.	There is no workaround.
WMSNG-4328	The Wyse Management Suite Web UI fails to launch after updating from Wyse Management Suite version 3.1.559 to 3.1.1.580	There is no workaround.
WMSNG-4338	In the Wyse Management Suite Portal Admin Setup page, the current selection of TLS versions are not displayed.	There is no workaround.

Important notes

Wyse Management Suite upgrade path

Table 100. Wyse Management Suite upgrade path

Upgrade type	Upgrade path	Compatibility
2.0 to 3.1.1	2.0 > 3.1.1	Supported
	2.0 > 3.1 > 3.1.1	Supported
	2.0 > 3.0 > 3.1 > 3.1.1	Supported
	2.0 > 2.1 > 3.0 > 3.1 > 3.1.1	Supported
2.1 to 3.1.1	2.1 > 3.1.1	Supported
	2.1 > 3.1 > 3.1.1	Supported
	2.1 > 3.0 > 3.1 > 3.1.1	Supported
3.0 to 3.1.1	3.0 > 3.1.1	Supported
	3.0 > 3.1 > 3.1.1	Supported
3.1 to 3.1.1	3.1 > 3.1.1	Supported

Server or device agent details

Table 101. Server or device agent details

File name	Description	Version
WMS_3.1.1.exe	Wyse Management Suite 3.1.1	3.1.1 580
WMS_Repo.exe	Wyse Management Suite Repository	3.1.23
WMS_Import_Tool.exe	Wyse Device Manager to Wyse Management Suite Import tool	1.6.0.10
WDA_14.5.0.22_Unified.exe	Unified Wyse Device Agents	14.5.0.22
wda-2.4.3-00.01.x86_64.tar	ThinLinux 1.0 Agent	2.4.3
wda_3.5.1-13_amd64.tar	ThinLinux 2.x Agent	3.5.1-13

Table 101. Server or device agent details (continued)

File name	Description	Version
DCA_1.1.0-193_amd64_signed.tar	Dell Client Agent	1.1.0-193
DCA_Enabler_1.1.0-17_amd64_signed.tar.gz	Dell Client Agent Enabler	1.1.0-17
configUI_signed.zip	ConfigUI Package	1.0.113

Windows Server configuration requirements

Table 102. Windows Server configuration requirements

Devices	Server requirements
Minimum server requirements for Wyse management Suite operations with 10,000 devices	<ul style="list-style-type: none">• Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard• Minimum CPU requirements—4 CPU• Minimum Disk Space—40 GB• Minimum Memory—8 GB
Server requirement for Wyse Management Suite operations with 50,000 devices	<ul style="list-style-type: none">• Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard• Minimum CPU requirements—4 CPU• Minimum Disk Space—120 GB• Minimum Memory—16 GB
Server requirement for Wyse Management Suite operations with 120,000 devices	<ul style="list-style-type: none">• Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard• Minimum CPU requirements—16 CPU• Minimum Disk Space—200 GB• Minimum Memory—32 GB

Wyse Management Suite version 3.1

Compatibility

Supported Dell end-points on Wyse Management Suite

Table 103. Supported Dell end-points on Wyse Management Suite

Operating System	Platform	Wyse Device Agent versions
Linux 11.3.110	Wyse 7020 Thin Client	Wyse Device Agent 2.0.13-00.1 Platform Utility 1.0.4-0.1 and later
ThinLinux 1.0.7	Wyse 3040 Thin Client Wyse 5060 Thin Client	Wyse Device Agent 2.2.10-00.01 and later Platform Utility 1.2.3-0.3 and later
ThinLinux 1.0.7.1	Wyse 5020 Thin Client Wyse 5060 Thin Client	Wyse Device Agent 2.2.10-00.01 and later Platform Utility 1.2.3-0.3 and later
ThinLinux 2.2.1.01 Maintenance Release 2	Wyse 3040 Thin Client Wyse 5070 Thin Client Wyse 5070 Extended Thin Client Wyse 5470 Thin Client	Wyse Device Agent 3.4.7-01 Platform Utility 2.4.7-01 and later
ThinLinux 2.2.1.03 Maintenance Release 3	Wyse 3040 Thin Client Wyse 5070 Thin Client Wyse 5070 Extended Thin Client Wyse 5470 Thin Client	Wyse Device Agent 3.4.7-08 and later Platform Utility 2.4.7-08 and later
Windows 10 IoT Enterprise 10.03.08.07.19.00 , 10.03.06.11.19	Wyse 5070 Thin Client Wyse 5070 Extended Thin Client Wyse 5060 Thin Client Wyse 5470 Thin Client Wyse 5470 All-in-One Thin Client	Wyse Device Agent 14.4.6.5
ThinOS	<ul style="list-style-type: none"> ● Wyse 5010 Thin Client with ThinOS ● Wyse 5010 Thin Client with PCoIP ● Wyse 7010 Thin Client with ThinOS ● Wyse 5040 AIO Thin Client ● Wyse 5040 AIO Thin Client with PCoIP ● Wyse 5060 Thin Client 	8.5_024, 8.6_303
	<ul style="list-style-type: none"> ● Wyse 3040 Thin Client with ThinOS 	8.6_204.57, 9.0.2066

Table 103. Supported Dell end-points on Wyse Management Suite (continued)

Operating System	Platform	Wyse Device Agent versions
	<ul style="list-style-type: none"> Wyse 3040 Thin Client with PCoIP Wyse 5070 Thin Client with ThinOS Wyse 5070 Thin Client with PCoIP Wyse 5070 Extended Thin Client with ThinOS Wyse 5070 Extended Thin Client with PCoIP Wyse 5470 Thin Client with ThinOS Wyse 5470 Thin Client with PCoIP Wyse 5470 AIO Thin Client with ThinOS Wyse 5470 AIO Thin Client with PCoIP 	
Teradici	Wyse 5030 PCoIP zero client Wyse 7030 PCoIP zero client Wyse 5050 AIO	17.5.0 and 20.4.1
Dell Hybrid Client—Ubuntu 18.04	Wyse 5070 Wyse 5070 Extended OptiPlex 7070 Ultra	Bundle—1288 Dell Client Agent—1.0.0-392 and 1.1.0-193 Dell Client Agent Enabler—1.0.0-72 and 1.1.0-17

NOTE: Wyse Management Suite 3.1 will be the last release for the following platforms that are reaching end of service support:

- Wyse 3020 running the ThinOS Lite operating system.
- Wyse 5010 running the ThinOS Lite operating system.

Supported operating system matrix

Table 104. Supported operating systems

Operating system	WMS server	WMS repository	Remote database
Windows Server 2012 R2 English	Supported	Supported	Supported
Windows Server 2012 R2 French	Supported	Supported	Not supported
Windows Server 2012 R2 Italian	Supported	Supported	Not supported
Windows Server 2012 R2 German	Supported	Supported	Not supported
Windows Server 2012 R2 Spanish	Supported	Supported	Not supported
Windows Server 2016 English	Supported	Supported	Supported
Windows Server 2016 French	Supported	Supported	Not supported
Windows Server 2016 Italian	Supported	Supported	Not supported
Windows Server 2016 German	Supported	Supported	Not supported
Windows Server 2016 Spanish	Supported	Supported	Not supported
Windows Server 2019 Standard English	Supported	Supported	Supported

Supported browsers

Table 105. Supported browsers

Browsers	Version
Chrome	66.0.3359 and later
Firefox	56.0 and later
Internet Explorer	11.0 and later

New and enhanced features

Bulk device exception

This feature helps you to import device exception using a zip file containing the device service tag and its configuration. For example, import file content should be in the below format:

```
{
  "WMSVersion": "4.6.8",
  "exportedDate": "1581466633677",
  "deviceTypes": [
    {
      "type": 6,
      "configurations": {
        "version": "0.0.1",
        "sequence": 1581466506281,
        "parameters": {
          "TerminalName": {
            "value": "outpatient",
            "updatedAt": "1581466506234"
          }
        }
      }
    }
  ]
}
```

The import file is password protected. It supports AES-256 and Zip Crypto encryption. The file size must not be more than 1 MB and the device service tag must be used as ID. The existing device exceptions are removed and replaced with the new exceptions from the import file.

Displaying the End User License Agreement for ThinOS 9.x

While uploading the ThinOS 9.x signed packages the End User License Agreement (EULA) is displayed on applications, data, and the Config UI screen. Once the administrator selects the **Do not show this message again** option, the EULA is not displayed for that package of any version. To see the EULA message again for the packages, perform the following steps:

1. Go to the **Portal administration**.
2. Click **Others**.
3. Enable the **Reset EULA Acceptance (ThinOS 9.x)** check box.

Granular permission role-based Access

Global administrator can assign administrative privileges to custom Wyse Management Suite roles like Groups and Config, Devices, Users, Apps & Data on a granular level. The custom roles cannot create any users such as Group users, Viewer, or another custom Wyse Management Suite role. You cannot provide access to the setup page and subscription page of Portal Administration. Custom Wyse Management Suite Role cannot register File Repository and upload Config UI.

ThinOS Config UI search for static parameters

The Config UI searches for static parameters using schema and lists the matched text parameter which is displayed in a hierarchical order with different color codes. Selected settings are displayed under the **Standard** tab. If the selected settings are not under the **Standard** tab, then it is displayed under the **Advance** tab. If the searched parameter appears twice in the parameter subgroup, it is displayed twice in the list. An administrator can search for settings, parameter group, subparameter group, parameter, and collection parameter.

BIOS enumeration for ThinOS 9.x


From ThinOS 9.0.2108, BIOS settings with the parameter value is displayed on the **Device Details** page of ThinOS 9.x devices. The BIOS parameters configured on the client are displayed on the **Device Details** page.

Silent deployment of application for Windows Embedded Standard, ThinLinux, and Dell Hybrid Client platforms

From Wyse Management Suite 3.1, you can configure the deployment settings for Windows Embedded Standard, ThinLinux, and Dell Hybrid Client platforms. You can configure the settings to silently deploy configurations to devices. The following options can be configured:


- Configuration Update Notification
- Application Update Notification
- Image Update Notification
- Logoff Notification
- Reboot Notification
- Display Lock-screen

The client is notified when the Configuration Update Notification is disabled.

 **NOTE:** Download and copy the latest Wyse Device Agent (WDA) packages of Windows Embedded Standard and ThinLinux to `C:\WMS\LocalRepo\repository\thinClientApps`.

Scripting support for advanced application policy for ThinLinux

Wyse Management Suite supports running of scripts when the script is passed through the application section of the advanced application policy. The supported script types are sh, py, and pl. It is similar to the preinstall and postinstall scripts.

 **NOTE:** Download and copy the latest WDA for ThinLinux packages and copy the file to `C:\WMS\LocalRepo\repository\thinClientApps`.

EULA changes for Wyse Management Suite server, repository server, and Import tools installer

The EULA screen is embedded in the Wyse Management Suite server, repository, and Import tool. The EULA screen is displayed on both upgrade and new installations.


Reporting display parameters and highlighting the primary display parameter field

Wyse Management Suite displays the monitor details of single and multi-monitor setup. To view the display details, go to the **Devices** page and click any device. The **Device Details** page is displayed. The NIC parameters are displayed in the **System Info** section under **Peripheral Details**. The following details are displayed:

- Vendor
- Model

- Serial Number
- Resolution
- Aspect Ratio
- Mode
- Alignment
- Rotation


This feature is supported on Wyse 5070 Thin Client, Wyse 5470, Wyse 5470 All-in-One running Windows 10 IoT Enterprise and ThinLinux 2.x operating system.

 **NOTE:** Dell Technologies recommends that you use the latest Windows Embedded Standard and ThinLinux WDA packages.

Reporting the virtual NIC parameters and highlighting the primary parameter field

Wyse Management Suite displays the virtual NIC parameters that are present in the device. To view the NIC parameters, go to the **Devices** page and click any device. The **Device Details** page is displayed. The NIC parameters are displayed in the **System Info** section under **Network Details**. The following details are displayed:

- Adapter name
- MAC address
- IP address
- IPv6 address
- Gateway IP address
- DNS server


 **NOTE:** Dell Technologies recommends that you use the latest Windows Embedded Standard and ThinLinux WDA packages.

Configure VNC for Dell Hybrid Client

To configure VNC settings, go to **Groups & Config > Edit Policies > Hybrid Client > Advanced > Privacy & Security > VNC Server**.

The following VNC configurations are added in Wyse Management Suite 3.1:

- VNC Server
- Warning on VNC access
- Remote access confirmation prompt on session start
- Password to establish the VNC connection
- VNC password


 **NOTE:** Ensure that the VNC package is installed on Dell Hybrid Client devices before enabling the VNC configuration. The VNC package can be pushed from Wyse Management Suite On-Premise Local and Remote Repository or Public Remote Repository.

Configure SSH for Dell Hybrid Client

To configure SSH settings, go to **Groups & Config > Edit Policies > Hybrid Client > Advanced > Privacy & Security > SSH Server Configuration**.

The following SSH configurations are added in Wyse Management Suite 3.1:

- SSH server
- Set password for sshuser
- Allow elevated privileges to sshuser

 **NOTE:** Ensure that the SSH package is installed on Dell Hybrid Client devices before enabling the SSH configuration. The SSH package can be pushed from Wyse Management Suite On-Premise Local and Remote Repository or Public Remote Repository.

SOCKS 5 proxy support in WMS 3.1 Repository server

Remote repositories support SOCKS5 proxy for all HTTP and MQTT communications with WMS. This feature is available from WMS 3.1. Only system-wide proxies are supported since the remote repository runs as a Windows service. Also, proxies with AD authentication or no authentication are supported. You can configure the proxy servers using any method. Here are a few examples on how to configure the proxy server information:

- Using the netsh command—You can use the following command to configure the proxy server information:

```
netsh winhttp set proxy proxy-server="socks=localhost:9090" bypass-list="localhost"  
C:\Users\administrator.<DomainName>>"netsh winhttp set proxy proxy-  
server="socks=<proxy server IP:Port Number>" bypass-list="localhost"
```

Current WinHTTP proxy settings:

```
Proxy Server(s) : socks=<proxy server IP>  
Bypass List : localhost
```

- Using the WPAD file configured in DHCP—The WMS repository server must be configured with DHCP IP address and Internet Explorer must be configured with Automatically Detect settings. You must configure the DHCP option tag 252 with the WPAD.pac file. Here is a sample PAC file content:

```
function FindProxyForURL(url, host)  
{  
  if (shExpMatch(host, "*wysemanagementsuite.com*")) {  
    return "SOCKS <proxy server IP>";  
  }  
  return "DIRECT";  
}
```

- NOTE:** Proxy settings are read when the repository service starts. If you make any changes to the proxy settings later, you must restart the repository service. You may configure the proxy settings using group policies.

5070 DHC Field Conversion from WMS

Wyse Management Suite supports 5070 Windows Embedded Service, ThinLinux, and ThinOS 8.6 platforms conversion to Dell Hybrid Client. It also supports DHC Conversion OS Image and DHC OS Image Policy for DHC Conversion of 5070 Windows Embedded Service, ThinLinux, and ThinOS 8.6.

NOTE:

- The number of DHC licenses must be greater than or equal to the number of Wyse 5070 Thin Clients that are converted to Dell Hybrid Client.
- The DHC Conversion OS image provided in zipped/exe format must be copied to \\repository\osimages\zipped folder. The DHC OS Image is displayed under Apps & Data > OS Image Repository > Hybrid Client after the repository synchronization.
- You must create an OS Image Policy to deploy DHC Conversion Image to Wyse 5070 Thin Clients running Windows Embedded, ThinLinux, ThinOS, and ThinOS with PCoIP operating system.

7070 OptiPlex Conversion to DHC with DCA-E 1.1

Wyse Management Suite 3.1 supports conversion of OptiPlex 7070 with Ubuntu 18.04 to DHC 1.1, using DCA-E. It also supports the Application Policy for converting the OptiPlex 7070 using the DHC 1.1 bundle.

NOTE:

- DHC package is pre-installed from factory in Recovery partition.
- If DCA Enabler version 1.0 is installed on your device, you must upgrade it to 1.1. To upgrade DCA Enabler, you must push the DCA_Enabler_Package 1.1.0-17 to the device using Wyse Management Suite and then deploy DCA-Enabler 1.1.0-17.

Fixed issues

Table 106. Fixed issues

Issue ID	Description
WMS-389	Fixed the ThinLinux configuration issues.
WMS-369	Fixed the time zone configuration issue on ThinLinux.
WMS-304	Fixed the issue where the local admin password validation fails when changed.
WMS-284	Fixed the issue where the reboot option must be enabled in Wyse Management Suite while enabling the Kiosk mode.
WMS-266	Fixed the issue where the Wyse Management Suite Cloud option to export devices to CSV does not display in the Thin-Client location.
WMS-248	Fixed the issue where the French and Canada keyboard layouts are displayed in legacy mode.
WMS-313	Fixed the issue where the Active Directory Federation Services (ADFS) SSO displays authentication error.
WMS-239	Fixed the issue where the option Sync BIOS Admin Password does not work from the Jobs page.
WMS-139	Improved the regional localization keyboard support on Dell Wyse Windows 10 IoT Enterprise.
WMS-147	Fixed the issue with the Boomi AtomSphere application installation using Wyse Management Suite on ThinLinux 2.1 devices.

Known issues

Table 107. Known issues

Issue number	Issue description	Workaround
WMSNG-399	The ApplyGroupConfigQueue has been removed.	There is no workaround.
WMSNG-310	The Or criteria have been removed from the Checking Compliance Query.	There is no workaround.
WMSNG-515	The Active Directory attribute is displayed as Active Directory group for imported OU groups when imported using RestAPI.	There is no workaround.
WMSNG-507	Group is not listed in the Groups & Config page when an Active Directory group with multiple special characters is imported.	There is no workaround.
WMSNG-625	The default description is displayed in the group edit page after importing groups using RestAPI from Active Directory with custom description.	There is no workaround.
WMSNG-1888	The current connection section details of the ThinLinux device are blank for some fields after registering using a wireless connection.	There is no workaround.
WMSNG-1450	The Quit option in DCA dropdown is not localized.	There is no workaround.
WMSNG-342	ThinOS 9.x App fails to install when the policy is configured with Apply to new device.	There is no workaround.
WMSNG-1029	The Wyse Device Agent installer UI displays a message stating Downgrading Dell Wyse Device Agent when the Wyse Device Agent is upgrading.	There is no workaround.
WMSNG-370	Notification that is published from the operator account does not appear on the tenant login.	There is no workaround.

Table 107. Known issues (continued)

Issue number	Issue description	Workaround
WMSNG-2028	The configuration that is pushed from the Wyse Management Suite does not get applied to the device intermittently.	There is no workaround.
WMSNG-1623	You cannot register OptiPlex 7070 Ultra device with DCA-Enabler 1.0.0.72 using DHCP discovery option.	There is no workaround.
WMSNG-1451	Wyse Management Suite Repository registration fallback to other SOCKS proxy does not work when first SOCKS Proxy is invalid.	There is no workaround.
WMSNG-1670	Dell Hybrid Client and ThinOS Config UI are not translated completely.	There is no workaround.
WMSNG-2019	Few Russian keywords added to the advance ini parameters are not deployed to ThinOS 8.x devices.	There is no workaround.
WMSNG-1636	Few configuration settings for ThinOS 9.x are not translated to German.	There is no workaround.
WMSNG-2026	When you are upgrading Wyse Device Agent, the lock screen is not displayed for few seconds on Wyse 5070 Thin Clients running Windows 10 IoT Enterprise.	There is no workaround.

Important notes

Wyse Management Suite upgrade path

Table 108. Wyse Management Suite upgrade path

Upgrade type	Upgrade path	Compatibility
2.0 to 3.1	2.0 > 3.1	Supported
	2.0 > 3.0 > 3.1	Supported
	2.0 > 2.1 > 3.0 > 3.1	Supported
2.1 to 3.1	2.1 > 3.1	Supported
	2.1 > 3.0 > 3.1	Supported
3.0 to 3.1	3.0 > 3.1	Supported

Server or device agent details

Table 109. Server or device agent details

File name	Description	Version
WMS_3.1.exe	Wyse Management Suite 3.1	3.1.559
WMS_Repo.exe	Wyse Management Suite Repository	3.1.21
WMS_Import_Tool.exe	Wyse Device Manager to Wyse Management Suite Import tool	1.6.0.10
WDA_14.5.0.22_Unified.exe	Unified Wyse Device Agents	14.5.0.22
wda-2.4.3-00.01.x86_64.tar	ThinLinux 1.0 Agent	2.4.3
wda_3.5.1-13_amd64.tar	ThinLinux 2.x Agent	3.5.1-13
DCA_1.1.0-193_amd64_signed.tar	Dell Client Agent	1.1.0-193

Table 109. Server or device agent details (continued)

File name	Description	Version
DCA_Enabler_1.1.0-17_amd64_signed.tar.gz	Dell Client Agent Enabler	1.1.0-17
configUI_signed.zip	ConfigUI Package	1.0.109

Windows Server configuration requirements

Table 110. Windows Server configuration requirements

Devices	Server requirements
Minimum server requirements for Wyse management Suite operations with 10,000 devices	<ul style="list-style-type: none">• Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard• Minimum CPU requirements—4 CPU• Minimum Disk Space—40 GB• Minimum Memory—8 GB
Server requirement for Wyse Management Suite operations with 50,000 devices	<ul style="list-style-type: none">• Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard• Minimum CPU requirements—4 CPU• Minimum Disk Space—120 GB• Minimum Memory—16 GB
Server requirement for Wyse Management Suite operations with 120,000 devices	<ul style="list-style-type: none">• Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard• Minimum CPU requirements—16 CPU• Minimum Disk Space—200 GB• Minimum Memory—32 GB

Wyse Management Suite version 3.0

Compatibility

Supported Dell end-points on Wyse Management Suite

Table 111. Supported Dell end-points on Wyse Management Suite

Operating System	Platform	Wyse Device Agent versions
Linux 11.3.110	Wyse 5010 Thin Client Wyse 5020 Thin Client	Wyse Device Agent 2.0.13-00.1 Platform Utility 1.0.4-0.1 and later
ThinLinux 1.0.7	Wyse 5020 Thin Client Wyse 5060 Thin Client	Wyse Device Agent 2.2.23-00.02 and later Platform Utility 1.0.26-0.4 and later
ThinLinux 1.0.7.1	Wyse 5020 Thin Client Wyse 5060 Thin Client	Wyse Device Agent 2.2.23-00.02 and later Platform Utility 1.0.26-0.4 and later
ThinLinux 2.2.1.01 Maintenance Release 2	Wyse 3040 Thin Client Wyse 5070 Thin Client Wyse 5070 Extended Thin Client Wyse 5470 Thin Client	Wyse Device Agent 3.4.7-01 Platform Utility 2.4.7-01 and later
ThinLinux 2.2.1.03 Maintenance Release 3	Wyse 3040 Thin Client Wyse 5070 Thin Client Wyse 5070 Extended Thin Client Wyse 5470 Thin Client	Wyse Device Agent 3.4.7-08 and later Platform Utility 2.4.7-08 and later
Windows 10 Enterprise LTSC 2016 10.03.08.07.19.00, 10.03.06.11.19.00	Wyse 5070 Thin Client Wyse 5070 Extended Thin Client	Wyse Device Agent 14.4.1.5
Windows 10 Enterprise LTSC 2016 10.03.08.11.19.00	Wyse 5470 Thin Client Wyse 5470 All-in-One Thin Client	Wyse Device Agent 14.4.1.5
Windows 10 Enterprise 2019 LTSC 10.04.06.09.19.00, 10.04.08.06.20.00	Wyse 5070 Thin Client	10.04.06.09.19.00 Wyse Device Agent 14.4.1.5 10.04.08.06.20.00 Wyse Device Agent 14.4.6.5
Windows 10 Enterprise 2019 LTSC 10.03.08.07.19.00 , 10.03.06.11.19.00	Wyse 5470 Thin Client	Wyse Device Agent 14.4.1.5

Table 111. Supported Dell end-points on Wyse Management Suite (continued)

Operating System	Platform	Wyse Device Agent versions
Windows 10 Enterprise 2019 LTSC 10.03.08.07.19.00 , 10.03.06.11.19.00	Wyse 5470 All-in-One Thin Client	Wyse Device Agent 14.4.1.5
ThinOS	<ul style="list-style-type: none"> ● Wyse 3010 Thin Client ● Wyse 3020 Thin Client ● Wyse 3030 LT Thin Client with ThinOS ● Wyse 3030 LT Thin Client with PCoIP ● Wyse 5010 Thin Client with ThinOS ● Wyse 5010 Thin Client with PCoIP ● Wyse 7010 Thin Client with ThinOS ● Wyse 5060 Thin Client with ThinOS ● Wyse 5060 Thin Client with PCoIP ● Wyse 5040 AIO Thin Client ● Wyse 5040 AIO Thin Client with PCoIP 	8.5_024, 8.6_303
	<ul style="list-style-type: none"> ● Wyse 3040 Thin Client with ThinOS ● Wyse 3040 Thin Client with PCoIP ● Wyse 5070 Thin Client with ThinOS ● Wyse 5070 Thin Client with PCoIP ● Wyse 5070 Extended Thin Client with ThinOS ● Wyse 5070 Extended Thin Client with PCoIP ● Wyse 5470 Thin Client with ThinOS ● Wyse 5470 Thin Client with PCoIP ● Wyse 5470 AIO Thin Client with ThinOS ● Wyse 5470 AIO Thin Client with PCoIP 	8.6_412, 9.0.2081
ThinOS Lite	<ul style="list-style-type: none"> ● Wyse 3020 zero client for Citrix ● Wyse 5010 zero client for Citrix 	8.5_024, 8.6_303
Teradici	Wyse 5030 PCoIP zero client Wyse 7030 PCoIP zero client Wyse 5050 AIO	17.5.0 and 20.4.1
Dell Hybrid Client— Ubuntu 18.04	Wyse 5070 Wyse 5070 Extended	Bundle—1288 Dell Client Agent —1.0.0-392

Table 111. Supported Dell end-points on Wyse Management Suite (continued)

Operating System	Platform	Wyse Device Agent versions
	OptiPlex 7070 Ultra	Dell Client Agent Enabler —1.0.0-72

Supported operating system matrix

Table 112. Supported operating systems

Operating system	WMS server	WMS repository	Remote database
Windows Server 2012 R2 English	Supported	Supported	Supported
Windows Server 2012 R2 French	Supported	Supported	Not supported
Windows Server 2012 R2 Italian	Supported	Supported	Not supported
Windows Server 2012 R2 German	Supported	Supported	Not supported
Windows Server 2012 R2 Spanish	Supported	Supported	Not supported
Windows Server 2016 English	Supported	Supported	Supported
Windows Server 2016 French	Supported	Supported	Not supported
Windows Server 2016 Italian	Supported	Supported	Not supported
Windows Server 2016 German	Supported	Supported	Not supported
Windows Server 2016 Spanish	Supported	Supported	Not supported
Windows Server 2019 Standard English	Supported	Supported	Supported

Supported browsers

Table 113. Supported browsers

Browsers	Version
Chrome	66.0.3359 and later
Firefox	56.0 and later
Internet Explorer	11.0 and later

New and enhanced features

Enabling device management through Dell Hybrid Client License

- A new license type is added to support Dell Hybrid Client.
- Wyse Management Suite operator can create tenants with Dell Hybrid Client license.
- Wyse Management Suite tenant administrator can export Dell Hybrid Client license, and import into Wyse Management Suite on premise.

Supports notification on Device page

Wyse Management Suite 3.0 supports notification for devices that are in pending enrollment state on the **Device** page. Earlier, the notifications were displayed in the **Dashboard** page.

Mapping User Group to Device Group

You can map the Active Directory User groups which are imported into Wyse Management Suite to the to respective Device group. The devices will not receive unwanted User Group Policies after mapping. For more information about how to map the User Group to Device Group, see *Dell Wyse Management Suite version 3.0 Administrator's Guide* at www.dell.com/support.

Default User Policy Group for Dell Hybrid Client

The Default User Policy group is added under which Active Directory User Groups can be added. There are three ways to add the Active Directory User Group:

- Manually add Active Directory User Groups
- Import Active Directory User Groups from .csv file
- Import Active Directory User Groups from Active Directory (AD Domain)


For more information on how to manually add User Group and import Active Directory User Groups from .csv file, see *Dell Wyse Management Suite version 3.0 Administrator's Guide* at www.dell.com/support.

Dynamic UI update for Dell Hybrid Client configuration

Wyse Management Suite 3.0 supports **Pull Configuration UI Package** option in the **Device Details page > More action** drop down list. This option is displayed when a higher version of configuration schema is available in the Wyse Management Suite server for a Dell Hybrid Client device.

Application deployment for Dell Hybrid Client

Wyse Management Suite 3.0 supports standard and advanced application policy for Dell Hybrid Client.

 **NOTE:** You can install only Dell signed packages from Wyse Management Suite. Installing of any other packages are not supported, and reports as failure to Wyse Management Suite.


End-user exception for Dell Hybrid Client

You can configure End-user exceptions in Wyse Management Suite 3.0 for a Dell Hybrid Client. The same configurations that are supported for Active Directory User Groups are supported for End-user exception.


Advanced Wyse Management Suite client settings

Wyse Management Suite 3.0 supports Wyse Management Suite client settings for device groups. The following settings can be configured:

- Define Business hours.
- Business Days
- Enable Session reporting.
- Enable User Personalization Roaming
- Enable Push notification.

 **NOTE:** This setting is enabled by default.

- When the push notification option is enabled, Wyse Management Suite notifies the Dell Hybrid Client devices immediately when there is real-time commands, configuration changes, application deployment, personalization changes and so on.
- When the push notification option is disabled, all the above commands do not work immediately. However, the pending commands are run on device heartbeat.
- Apply Configuration Changes outside of Specified Business Hours.

 **NOTE:** Immediately, is selected by default.

If the administrator selects the option, Outside of specified business hour, configurations are applied in non-business hours.


Support for end-user session reporting for Dell Hybrid Client

Wyse Management Suite 3.0 supports End-user session reporting. The following options can be configured to report the session:

- **Send user session at run time**—The user session is reported when the user logs off from the system.
- **Send user session on check in time**—The user session is stored locally, and is reported when the device is checked-in to Wyse Management Suite.
- **Send user sessions outside of Business hours**—The user session is stored locally, and is reported in non-business hours based on the business days and hours that are selected by the Wyse Management Suite administrator.

End-user personalization for Dell Hybrid Client


- When you enable the **Enable User Personalization Roaming** option, the End-users can save their personalization data that are backed up in the Wyse Management Suite server.
- These personalization data is delivered to the other devices of the End-user.

 **NOTE:** The End-user and the device mapping must be available in Wyse Management Suite.

Support for factory reset and recovery imaging for Dell Hybrid Client

The factory reset command is performed from Wyse Management Suite for Dell Hybrid Client. This command unregisters the device from Wyse Management Suite, and wipes the following data from Dell Hybrid Client:


- Wyse Management Suite information from Dell Client Agent
- Other configurations pushed from Wyse Management Suite

 **NOTE:** After reboot, the factory reset command does not unjoin the device from the domain.

Re-Image command is performed from Wyse Management Suite for Dell Hybrid Client. This command initiates recovery image on the device, and the device is reimaged.

Support for Dell Client Agent Enabler

Wyse Management Suite 3.0 supports Dell Client Agent Enabler with Ubuntu desktop 18.04 operating system.

 **NOTE:** If the binary is available in tar or gz format, it must be extracted first and the Debian file can be installed.

You can register Dell Client Agent Enabler to Wyse Management Suite by the following methods:

- DNS Discovery
- DHCP Discovery
- Manual Discovery


For more information about the Dell Client Agent enabler, see *Dell Wyse Management Suite version 3.0 Administrator's Guide* on www.dell.com/support.

The supported Real-Time Commands from Wyse Management Suite are as follows:

- Query
- Restart
- Unregister
- Shutdown Now
- Schedule device command
- Tag device
- Device log pulls
- Re-Image (Dell Recovery must be present).


The supported configurations from Wyse Management Suite are Privacy and Security Policy for installation certificate.

The application deployment from Wyse Management Suite supports only Standard app policy deployment from upgrading Dell Client Agent Enabler package and bundle package.

 **NOTE:** Installing of any other packages are not supported, and reports as failure to Wyse Management Suite.


Support for configuring TLS versions in WMS installer

Wyse Management Suite 3.0 on-premise installer is improved to select the Transport Layer Security (TLS) version during the installation or upgrade of the Wyse Management Suite.

 **NOTE:** The recommended version of Transport Layer Security is 1.2. Ensure that you select all the appropriate versions of TLS based on the support criteria of the device agent and merlin. Older Windows Embedded System or Wyse Device Agent (versions below WDA_14.4.0.135_Unified) and Merlin (32 bit) versions are only compatible with TLSv1.0. Also, the import tool is only compatible with TLSv1.0.

Import or export configuration

- Import and export of Dell Hybrid Client configurations are supported for Active Directory User Groups.
- The configurations can be exported and imported from device groups and vice versa.

 **NOTE:** The Export and import configurations from a .csv file are not supported for configurations with password and reference files.

Support for advanced multi monitor for Windows Embedded System

Multi monitor support is improved in Wyse Management Suite for Windows Embedded System configurations under system personalization. The multi monitor supports the following Span Positions:

- Top Center
- Top Left
- Top Right
- Bottom Center
- Bottom Left
- Bottom Right
- Right Center
- Right Top
- Right Bottom
- Left Center
- Left Top
- Left Bottom

Fixed issues

Table 114. Fixed issues

Issue ID	Description
WMS-122	Fixed an issue where the wireless settings is unavailable when you enable Unified Write Filter.
WMS-217	Fixed an issue where the Wyse Configuration Manager or Wyse Device Agent overwrites the changes that are made to Thin client when you reboot the Unified Write Filter.
WMS-126	Fixed an issue where the Windows wireless profile is not working when you upgrade the Wyse Device Agent from 14.2.0.54 to 14.4.0.135.
WMS-119	Fixed an issue where the original wireless access point is reverted when you change the Wyse Management Suite configuration and reboot the personal computer convertor.
WMS-143, WMS-125	Fixed an issue where the wireless configuration is not working properly when you configure the wireless using the Wyse Management Suite 1.4 policy.

Table 114. Fixed issues (continued)

Issue ID	Description
WMS-246	Fixed an issue where you cannot apply auto login settings through Wyse Management Suite.
WMS-152	Fixed an issue where you were unable to configure multiple monitors.
WMS-140	Fixed an issue where the display settings are not getting changed in the extended mode.
WMS-258	Fixed an issue where the Wyse Management Suite console fails to report the IP address of thin clients that are available in office.
WMS-263	Fixed an issue where the device loops in user account when you install Wyse Easy Setup on Wyse 5070 thin client.
WMS-288	Fixed an issue where you were unable to save favorites in Internet Explorer when you update the Group configuration using Wyse Converter for PCs, and registered to Wyse Management Suite.
WMS-309	Fixed an issue where the on-premises Wyse Management Suite Repository does not synchronize as expected.
WMS-260	Fixed an issue where the Vulnerability Issue was observed in Wyse Management Suite.
WMS-230	Fixed an issue where the Wyse Configuration Manager or Wyse Device Agent overwrites the changes that are made to Windows settings, when you reboot the Unified Write Filter.
WMS-312	Image or Application Policy is not pushing image after check-in of new Wyse 5070 devices.

Known issues

Table 115. Known issues

Issue number	Issue description	Workaround
LASSEN- 1927	The multi monitor item UI is not appearing properly, and you have to scroll right or left to view the full content.	There is no workaround.
LASSEN-2029	After reboot, the Network drivers fail to map when multiple drives are configured from Wyse Management Suite server.	There is no workaround.
LASSEN-2032	The application deployment delayed status is not changing to success even after the package is installed successfully.	There is no workaround.
LASSEN-2035	The group token is not displayed when you click the eye icon after auto discovery.	There is no workaround.
LASSEN-2036	An incorrect message is displayed when you hover over the mouse on the Unregister button.	There is no workaround.
LASSEN-2028	When the factory reset is triggered from the server, the device remains unregistered.	There is no workaround.
LASSEN-1419	The group token information is displayed in the Dell Client Agent log when the group changes.	There is no workaround.
LASSEN-2016	The UI configuration is reverted to the previous version when the server is updated.	There is no workaround.
LASSEN-2041	The validation message is not displayed, when you provide a valid username and password for the Expired tenant.	There is no workaround.
LASSEN-2054	The login screen displays a message License expired in non-English language.	There is no workaround.
LASSEN-2055	The device is displayed as noncompliance when you publish the user exception.	Perform Group Change and bring back.

Table 115. Known issues (continued)

Issue number	Issue description	Workaround
LASSEN-1921	The User Session reports are not sent to Wyse Management Suite Server when you restart or shutdown the system.	There is no workaround.
WMSNG-84	The resource file contains special character "(" which is not deletable.	There is no workaround.
WMSNG-343	The Domain Join policy is not getting applied when the Chrome Auto update package is pushed with enrollment validation off.	Re-Publish the Domain Join Policy.
WMSNG-342	The ThinOS 9.x application failed to install when the policy is configured with Apply to New Device option.	User Apply on Check-in Or schedule Job.
WMSNG-2032	When you upload multiple font files, the View Events tab in the Events page stops responding.	There is no workaround.

Important notes

Wyse Management Suite upgrade path

Table 116. Wyse Management Suite upgrade path

Upgrade type	Upgrade path	Compatibility
1.4 to 3.0	1.4 > 1.4.1 > 2.0 > 2.1 > 3.0	Supported*
	1.4 > 1.4.1 > 2.0 > 3.0	Supported*
	1.4 > 1.4.1 > 3.0	Supported*
	1.4 > 3.0	Supported*
1.4.1 to 3.0	1.4.1 > 2.0 > 2.1 > 3.0	Supported*
	1.4.1 > 2.0 > 3.0	Supported*
	1.4.1 > 3.0	Supported*
2.0 to 3.0	2.0 > 2.1 > 3.0	Supported
	2.0 > 3.0	Supported
2.1 to 3.0	2.1 > 3.0	Supported

NOTE: * indicates that you must run the WMSUpgradeFix_1.0 zip file before upgrading Wyse Management Suite version 1.3, 1.4, or 1.4.1 (upgraded from 1.0 or 1.1) to Wyse Management Suite version 3.0. To download the file, go to the *Wyse Management Suite version 2.0, 2.1, and 3.0 upgrade fix* package at <https://www.dell.com/support/>.

Server or device agent details

Table 117. Server or device agent details

File name	Description	Version
WMS_3.0.exe	Wyse Management Suite server	3.0.656
WMS_Repo.exe	Wyse Management Suite Repository	3.0.33
WMS_Import_Tool.exe	Wyse Device Manager to Wyse Management Suite import too	1.5.0.19
WDA_14.4.3.5_Unified.exe	Unified Wyse Device Agent for Windows	14.4.6.5

Table 117. Server or device agent details (continued)

File name	Description	Version
wda-2.4.3-00.01.x86_64.tar	Wyse Device Agent package for ThinLinux 1.0	2.4.3-00.01.x86_64
wda_3.4.7-08_amd64.tar	Wyse Device Agent package fo ThinLinux 2.0	3.4.7.08
DCA_1.0.0-392_amd64_signed.tar	Dell Client Agent	1.0.0.392
DCA_Enabler_1.0.0-72_amd64_signed.tar.gz	Dell Client Agent Enabler	1.0.0.72
configUI_signed.zip	ConfigUI Package	1.0.87

Windows Server configuration requirements

Table 118. Windows Server configuration requirements

Devices	Server requirements
Minimum server requirements for Wyse management Suite operations with 10,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—4 CPU Minimum Disk Space—40 GB Minimum Memory—8 GB
Server requirement for Wyse Management Suite operations with 50,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—4 CPU Minimum Disk Space—120 GB Minimum Memory—16 GB
Server requirement for Wyse Management Suite operations with 120,000 devices	<ul style="list-style-type: none"> Supported operating systems—Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019 Standard Minimum CPU requirements—16 CPU Minimum Disk Space—200 GB Minimum Memory—32 GB

Installing package

Downloading the installation file

1. Go to www.dell.com/support.
2. In the Enter a **Service Tag, Serial Number, Service Request, Model, or Keyword search box**, type **Converter for PCs** and click **Search**.
3. On the opened page click **Drivers and Downloads**.
4. In the same page, you can find **Converter for PCs 3.0.0.4689** and download the application file by clicking **Download**.

Resources and support

Accessing documents using the product search

1. Go to www.dell.com/support.
2. In the **Enter a Service Tag, Serial Number, Service Request, Model, or Keyword** search box, type the product name. For example, **OptiPlex 3000 Thin Client**. 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.
2. Click **Browse all products**.
3. Click **Computers**.
4. Click **Thin Clients**.
5. Click **OptiPlex Thin Client**.
6. Click **OptiPlex 3000 Thin Client**.
7. Click **Select this Product**.
8. Click **Documentation**.

Contacting Dell

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

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