

Wyse Management Suite Version 1.1

Release Notes

Current Version: 1.1
Release Date: 2018-01
Previous Version: 1.0

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Contents

Release type and definition	3
Current version	3
Previous version	3
New features.....	3
Tested platforms	6
Server/Device agent details	7
Windows 2012 R2/Windows 2016 Server configuration requirement:	8
Supported operating system matrix	8
Software information	9
Known issues.....	9
Fixed issues	12

Importance

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

Release type and definition

Wyse Management Suite is a next generation thin client management software that allows an organization to deploy, group, and manage devices. Wyse Management Suite can be installed on a premise in your organization's private cloud, or you can take advantage of Wyse Management Suite available in public cloud for automatic maintenance of software without any management software to install on premise.

Wyse Management Suite uses the industry standard architecture and components to efficiently manage your network devices. Wyse Management Suite is a web-based application where you can access Wyse Management Suite console using supported browser from anywhere and you can also perform all the operations from web UI. The Wyse Management Suite architecture is designed to manage the end devices efficiently and reliably.

Current version

1.1

Previous version

1.0

New features

Following are the new features in this release:

- **Advanced installer**—Wyse Management Suite version 1.1 installer can auto detect the existing Wyse Management Suite and provides an option to upgrade it from the Wyse Management Suite version 1.0. The installer provides the option to edit the ports for Tomcat 8.5.11, Mongo database, MySQL database, MQTT broker, and Memcached. When you enter the port number using **Edit**, the installer checks the availability and adds firewall exception.
- **Migrating from Wyse Device Manager to Wyse Management Suite using the Import Tool**— It supports WDM enterprise install base. The migration tool helps you import groups, devices, and Windows Embedded Standard profiles from Wyse Device Manager to the Wyse Management Suite version 1.1. It can be installed on Windows server 2012 and Windows server 2016, and supports WDM version 5.7.2

NOTE: For more information on importing Wyse ThinOS, Windows Embedded Standard, and ThinLinux devices, see Wyse Management Suite Migration Guide.

- **Wizard-based configuration policy deployment**—ThinOS configuration has a wizard option to create the best practiced configurations. At the end of wizard, the administrator has an option to continue to the advanced configurations. You can access the wizard from the Groups>Edit Policies>ThinOS. You can also enable/disable the wizard from User Preferences.
- **Remote Shadow**—Private cloud supports remote shadow (VNC) for thin client. It is available for standard and pro licenses. When you launch Remote Shadow, it asks for credentials to authenticate. The maximum number of concurrent VNC proxy sessions per Wyse Management Suite server is set to five.
- **Unified Wyse Device Agent for Windows-based platforms**—The installer is simplified and size is reduced for faster execution. There is only one executable file for Windows devices (x64, x86, and WIE10).

- Wyse software thin client support—Wyse Management Suite supports a new device type called Wyse software thin client which can be managed from mobile application. There is a new license category added to manage devices. Windows Embedded Standard configurations are applicable to the devices. It does not support BIOS configuration, and Operating System push or pull.

NOTE: Dedicated license is required for managing Wyse software thin clients. Wyse Easy Setup configurations are not supported.

- Dell Easy setup support—Dell Easy setup configurations can be deployed from the Wyse Management Suite console. Wyse Management Suite supports control panel settings and Kiosk mode settings. If Appliance Mode is configured from Wyse Management Suite, the Kiosk mode cannot be applied. You can only use Dell Easy Setup with a Pro license version of Wyse Management Suite.
- Groups page enhancements—If you click number of devices, it takes you to the Devices page with the selected group filter. If you click number of non-compliant devices, it takes you to the Devices page with the selected group and non-compliance filter. Support for user count is removed.
- Group based registration for ThinOS—ThinOS devices can be registered to Wyse Management Suite with the server URL in a private cloud. MQTT is optional for public and private cloud. Group token feature is optional in a single tenant private cloud server. If group token is not provided, the device gets registered to the unmanaged group.

NOTE: ThinOS version 8.5/2.5 or later is required to use above functionality.

- BIOS configuration policy support for Wyse 3040 thin client is applicable for ThinOS version 8.5 and above.
 - ThinOS BIOS update—BIOS files can be updated for Wyse 3040 thin client which has ThinOS version 8.5 and above. BIOS can be deployed to the clients through configurations.
 - ThinOS configuration enhancements—Wyse Management Suite supports existing ThinOS configurations available in Wyse Configuration Manager. The configurations are categorized as 8.5 and above to keep the backward compatibility. Legacy configuration works for the firmware versions below 8.5. In order to receive new configurations, firmware version of ThinOS should be 8.5 and above.
 - Internationalization support for Wyse Management Suite repository—Wyse Management Suite version 1.1 supports English, French, Italian, German, Spanish, Chinese, and Japanese.
 - Wyse Management Suite repository support for simplified registration, client certificate import, and Wyse Management Suite /MQTT address/port changes—It provides ability to import Wyse Management Suite server certificate or turn CA validation on/off. It also provides ability to update the auto-detected host name during registration of repository. The bouncy-castle key store is currently used by the repository with java key store is replaced, and MQTT server URL has been removed.
 - RSP package support—It supports legacy RSP package for standard application policy for Pro license and deployment of RSP package for Windows Embedded Standard, and ThinLinux. List of unsupported RSP commands has been added.
- NOTE:** RSP packages are not supported through advanced application. EL, GF, GR, GV, LU, QU, SC, SN, RP, AC, AL, OL, and VL commands are not supported.
- ThinLinux imaging—Wyse Management Suite supports imaging of the ThinLinux devices but the workflow remains same as Windows Embedded Standard. You can perform RAW imaging through RSP method, and you can pull Operating System and BIOS or only Operating System or only BIOS. This feature has basic and advanced options where

administrator can modify the xml to customize the pull operation. You should update WDA to version 2.1.23 and above, and Merlin to version 356 and above for device.

- BIOS settings for Wyse 3040 thin client with ThinLinux—You can configure BIOS setting for Wyse 3040 thin client with ThinLinux from Wyse Management Suite but the thin client should be installed with the latest agent and DCM to support this feature.
- Localization support for the management console—Wyse Management Suite version 1.1 supports French, Italian, German, Spanish, Chinese, and Japanese.

NOTE: Japanese and Chinese are supported as preview for this release.

- Performance—Wyse Management Suite version 1.1 is tested with 120,000 devices.
- Dell Asset tag—Dell Asset tag information is displayed in the management console.
- Operating System and agent version filters—New filters for Operating System version and Agent version are added. When the device gets registered, it automatically adds the Operating System and Agent filter.
- Windows Embedded Standard configuration enhancements—Microsoft Gina keyboard layout and proxy server exclusion lists are added as a part of build.
- Linux/ThinLinux configuration enhancements—RDP connections has been added where you can control session settings. You can use the VMware connections to enable NLA.
- MySQL for private cloud—Wyse Management Suite can be installed with MySQL using custom installation option.

NOTE: Wyse Management Suite is tested with MySQL version 5.6.37

- VMware blast protocol support—Wyse Management Suite provides an option to configure VMware blast protocol from management console for Windows Embedded Standard, ThinOS, and ThinLinux.
- Heartbeat and check-in-v2—You can configure heartbeat and check-in interval from the Portal Administration page. After heartbeat is configured, agents fetches pending commands. For private cloud, heartbeat interval ranges from 5 minutes to 6 hours while for public cloud, heartbeat interval ranges from 1 to 6 hours. Check-in interval ranges from 8 to 24 hours. Heartbeat interval is not affected by device online/offline status.
- CA validation for file repository—Private or public cloud for Wyse Management Suite allows CA validation configuration to download files from a remote Wyse Management Suite repository. This is available for all license types. Without this configuration, Wyse Management Suite file repository should have a CA signed certificate or HTTP download must be enabled. It is not applicable for imaging jobs. CA validation affects files in the file repository only. Downloading the file from Wyse Management Suite server APIs such as EULA, wallpaper, logo and so on does not get affected. For these files, the server CA validation is not in effect. A global administrator can turn on/off CA validation for each repository from **Portal Admin > File Repository**.
- Joining a domain automatically—You can add the devices to the domain using the configuration from Wyse Management Suite. From Wyse Management Suite, set a policy to add a device to the domain or work group. Server sends domain or workgroup name, user name, password, and AccountOU to the device as part of device configuration.

Note: Joining to Domain/work group is valid only for Windows Embedded Standard devices.

- Windows Embedded Standard VNC settings—You can set the VNC server settings from Wyse Management Suite. Server sends enable VNC, use prompt, user required password, and password to the device as part of device configuration.
- Wyse Management Suite console—You can configure the page size from the server and administrator can set a default filter. Wyse Management Suite provides an option to save the filter.

- Ability to create jobs in application policy UI—After saving a policy, if you create a job, the Wyse Management Suite launches a job creation dialog box with the application or image policy pre-selected.
- Private Cloud to enforce expired trial license—Wyse Management Suite supports trial/production for each license category and private cloud account with expired trial license has the same behavior as public cloud with expired license. Administrator cannot login, and devices cannot be managed. If a license key exported from Wyse Management Suite version 1.0, and if there is no license type information (pro/trial), it is treated as a pro license and the expiration rule does not apply. Wyse Management Suite allows administrator of a private cloud account with a non-production license to log in. After logging in, the Subscription page is displayed.
- Supports apply to devices on check-in—Advanced app policies (for pro license only) has a drop down **Apply to devices on check-in**. When this option is selected, you can select the maximum number of re-tries. Standard app policies for a pro license account has a drop down **Apply to devices on check-in**. Windows Embedded Standard/ThinLinux image policy (for pro license only) has drop down **Apply to devices on check-in**. When this option is selected, you can select the maximum number of re-trials. If the policy has not been sent and the maximum number of retries is not exceeded, then the policy is sent to the client when they check-in. The policy cannot be edited once saved, but can be deleted. **Apply the policy to devices on check-in** and **Apply the policy to new devices** cannot exist together.
- Batch synchronization of BIOS admin and password—Wyse Management Suite system administrator can set the BIOS administrator and password of multiple devices at once. Under jobs page, **More Actions** dropdown is added.
- Operator enhancements—You can search tenants using the tenant name, tenant code, admin name, admin login, admin email address, user name, user login, and user email address. You can filter tenants based on expired and active licenses for private cloud.
- Wyse Management Suite mobile application—It is updated with the CA validation functionality and can be registered to the private cloud using a self-signed certificate.

Tested platforms

Table 1. Tested platforms

Operating system	Client name	Tested version
Linux	Wyse 5010 thin client Wyse 5020 thin client Wyse 7010 thin client Wyse 7020 thin client	11.3.106
ThinLinux	Wyse 3030 LT thin client Wyse 3040 thin client Wyse 5020 thin client Wyse 5060 thin client Wyse 7020 thin client	1.0.2 1.0.3
Windows Embedded Standard 7	Wyse 3030 thin client Wyse 5010 thin client Wyse 5020 thin client Wyse 7010 thin client Wyse 7010 extended thin client Wyse 7020 thin client	7064
	Wyse 5010 thin client Wyse 5020 thin client Wyse 7010 thin client	7066

Operating system	Client name	Tested version
Windows Embedded Standard 7 Professional	Wyse 7020 thin client	
	Wyse 7010 extended thin client	
	Wyse 7040 thin client	7065
	Latitude 3460 mobile thin client	7065
	Latitude E7270 mobile thin client	7065
	Wyse 5060 thin client	7067
Windows 10 IoT Enterprise	Latitude 3480 mobile thin client	0A62
	Wyse 5020 thin client	
	Latitude 5280 mobile thin client	
	Wyse 7020 thin client	
Windows Embedded 8 Standard	Wyse 5010 thin client	924
	Wyse 5020 thin client	
	Wyse 7010 thin client	
	Wyse 7020 thin client	
ThinOS	Wyse 3010 thin client	8.4_112
	Wyse 3020 thin client	8.4_105
	Wyse 3030 LT thin client	8.4_009
	Wyse 3040 thin client	8.5_008
	Wyse 5010 thin client with PCoIP	
	Wyse 5040 AIO thin client	
	Wyse 5060 thin client	
	Wyse 7010 thin client	

Server/Device agent details

Table 2. Server/Device Agent details

Server/Device name	Version
Wyse Management Suite server	1.1.0
Wyse Management Suite repository	1.1.0
Wyse Management Suite Import tool	1.0.0
Windows Embedded Standard WDA agent	14.0.0
Windows Embedded Standard merlin	356
Linux	2.0.13
ThinLinux	2.1.23
ThinLinux merlin	356
ThinOS	8.4_009, 8.4_105, 8.4_112, 8.5_008
Mobile application	1.1.0

Table 3. Browser details

Browser name	Version
Chrome	62.0.3202
Firefox	56.0
Internet Explorer	11.0

Windows 2012 R2/Windows 2016 Server configuration requirement:

Minimum requirement for Wyse Management Suite operation

- Supported Operating System—Windows Server 2012 R2 and Windows Server 2016
- Minimum CPU requirements—4 CPU.
- Minimum disk space—40 GB.
- Minimum memory RAM—8 GB.

For 50,000 devices

- Supported Operating System— Windows Server 2012 R2 and Windows Server 2016
- Minimum CPU requirements—4 CPU.
- Minimum disk space—120 GB.
- Minimum memory RAM—16 GB.

For 120,000 devices

- Supported Operating System— Windows Server 2012 R2 and Windows Server 2016
- Minimum CPU requirements—4 CPU.
- Minimum disk space—120 GB.
- Minimum memory RAM—16 GB.

Supported operating system matrix

Table 4. Supported operating system matrix

Operating System	Wyse Management Suite server	Wyse Management Suite repository	Remote database
Windows server 2012 R2 English	Y	Y	Y
Windows server 2012 R2 French	Y	Y	N
Windows server 2012 R2 Italian	Y	Y	N
Windows server 2012 R2 German	Y	Y	N
Windows server 2012 R2 Spanish	Y	Y	N
Windows 2016 English	Y	Y	Y
Windows 2016 French	Y	Y	N
Windows 2016 Italian	Y	Y	N
Windows 2016 German	Y	Y	N
Windows 2016 Spanish	Y	Y	N

Software information

Table 5. Software information

File name	Description	Version
WMS_1.1.exe	Wyse Management Suite server	1.1
WMS_Repo.exe	Wyse Management Suite repository	1.1
WMS_Import_Tool.exe	WDM to Wyse Management suite import tool	1.0.0
MerlinPackage_Common.exe	Merlin package	356
WDA_14.0.0.237_Unified.exe	Unified WDA for Windows	14.0.0
wda-2.0.13-00.1.sletc11sp3.rpm	WDA package for SUSE Linux	2.0.13
platform_util-1.0.4-0.1.sletc11sp3.rpm	Platform utility for SUSE Linux	1.0.4
wda-2.1.23-00.01.x86_64.rpm	WDA package for ThinLinux	2.1.23
platform_util-1.0.26-0.3.x86_64.rpm	Platform utility for ThinLinux	1.0.26
merlin_nonpxe-3.5.6-00.01.x86_64.rpm	Merlin package for ThinLinux	356
WESMigration_14.0.0.237_WE8S.exe	RSP package for WE8S device migration	14.0.0
WESMigration_14.0.0.237_WES7.exe	RSP package for WES7 device migration	14.0.0
WESMigration_14.0.0.237_WES7P.exe	RSP package for WES7P device migration	14.0.0
WESMigration_14.0.0.237_WIE10.exe	RSP package for WIE10 device migration	14.0.0
ThinLinux_WMSMigration.zip	RSP package for ThinLinux device migration	2.1
SLED11_WMSMigration.zip	RSP package for SUSE Linux device migration	2.0

NOTE:

- ThinLinux agent version 2.1.23 and Linux agent version 2.0.13 is not compatible with Wyse Management Suite version 1.0.
- WDA version 14.0.0.237 is compatible with WDM version 5.7.2.

Known issues

Table 6. Known issues

Sl.no	Known issues	Workaround
1.	Email alert notification is not working.	Configure the SMTP server from the Wyse Management Suite server portal admin.
2.	Wake on LAN is not working.	Enable the local or remote file repository.
3.	Unknown file type warning messages are displayed while double-clicking CCM icon.	Check the security settings or UAC of the server.
4.	Not able to pull the thin client log file when a ThinLinux device is not synchronized with an NTP server.	Configure the device with the proper NTP server.
5.	When a user tries to synchronize the file repository, they get an error message-Error in syncing.	Ensure that the local repository has full permission to everyone and no user access message appears while copying the image or apps to the local repository.
6.	File download like wallpaper, certificate, and so on, fails for ThinOS when server is out of time sync.	Configure the device with proper NTP server.

Sl.no	Known issues	Workaround
7.	ThinOS DHCP discovery does not happen when DNS SRV tags are available with blank values	Remove the empty DNS tags.
8.	Advanced application and data are not supported with Legacy On premise gateway.	It is recommended to use new Wyse Management Suite repository.
9.	Wyse Management Suite user interface does not open properly in Internet Explorer.	Disable Internet Explorer enhanced security. Disable the compatibility view settings.
10.	Apply to new devices does not work for ThinOS application policies during registration.	Create a job to deploy the app policy.
11.	Wyse Management Suite repository server host name change.	After changing the host name of the Wyse Management Suite repository server. The repository UI does not open using the desktop shortcut. You have to provide the updated host name in the URL. After changing the host name of the repository server, the certificate changes and we get the certificate error while opening the repository UI. If you use self-signed certificate for CA Validation for repository, it fails after host name change.
12.	On Windows Embedded Standard devices if custom values are not set, and during import if we select custom values as a group type, the groups are NotSet for missing values and in group structure one level is missed.	Custom field should have values before creating groups.
13.	During synchronization commands do not work on Windows Embedded Standard devices.	Synchronization time implementation needs to contact WDM server and send V99. This is not possible when device is connected to Wyse Management Suite.
14.	As part of RSP push, Confirm User command always gives No user logged in error even when valid user is logged in to the thin client.	This command does not work with WDM as well.
15.	Getting Error 404 if server is left ideal for 2 days.	Sometimes the server may restart due to Windows restart. Restart all the Wyse Management Suite related services.
16.	Wyse Management Suite server is not responding when there is less disk space. (~300MB)	Increase the storage space, and restart the Wyse Management Suite related services.
17.	When the agent registers with http, Wyse Management Suite sends the https URL and all the newer agents' switches to https.	Agent (12.x) does not have this behavior since the agent does not understand the switching login.
18.	Wallpapers with formats other than jpeg are not getting applied on client	Upload the .jpeg file.
19.	No Supported sub Auth types error appears when you try to launch VNC session from the Wyse Management Suite server after	This is a bug in Tight VNC Server. Launch the VNC with password.

Sl.no	Known issues	Workaround
	disabling VNC User required password option.	
20.	Add Policy and Add Advance Policy buttons becomes non-function after app folders is removed.	Do not delete the repository folder.
21.	Deleting inventory files manually from the physical path (c:\repository\data) does not remove the files from Wyse Management Suite UI (File does not exist error pop-ups).	Do not delete the file from the repository folder manually.
22.	ThinOS applications are getting installed twice when the applications are pushed along with firmware (Apply to new device option).	Root reason for downloading pkg twice is that root disk gets formatted whenever base.pkg is upgraded or downgraded.
23.	Import tool is allowing to import RSP packages even if we delete any file(part1Image.img,vmlinuz,mbr etc.) from RSP packages on WDM repository and then if we do RSP package import.	Valid RDP packages should be present in the WDM.
24.	Wyse Management Suite gets 404 error.	Verify whether any Antivirus deleted the java code.
25.	Windows Embedded Standard application download fails.	Application download authentication is required for all but the first release of WES agent. If the application download fails with https, try with http.
26.	During un-register or Remove Policy, device gets reverted to the Work group from domain if it is added to the domain.	Administrator has to do the default policy for domain settings, and it should be deployed.
27.	RemoteFX USB redirection policy is not applied for USB mass storage devices.	Add the following registry entries to the device: 1. Log in to the device as administrator and disable the Write Filter. 2. Go to Run , and type regedit. 3.Go to HKLM\Software\Policies\Microsoft\Windows NT\Terminal Services\Client\UsbSelectDeviceByInterfaces 4.Add a string registry key 100 and set the value as below: For Mass Storage Device—{53F56307-B6BF-11D0-94F2-00A0C91EFB8B}. For CD ROM—{53F56308-B6BF-11D0-94F2-00A0C91EFB8B}. NOTE: Flower brackets are mandatory.
28.	USB lockdown configuration is not applied while clicking update now but it applies after log off and log in again.	This issue is for Wyse software thin clients.
29.	Microsoft Gina configuration gets failed while applying.	Select languages with substitute keyboard layouts.
30.	When you push SD command as part of RSP, Windows Embedded	WDM devices get shutdown and sends V02 before getting shutdown. This is not supported for Wyse Management Suite.

Sl.no	Known issues	Workaround
	Standard client gets rebooted instead of shutdown.	
31.	Applications installation fails when a policy is crated from two different repository servers.	WDA agent always tries to test download with first application, if the download is failed, agent do not proceed further and sends an error report to the server. Ensure that all the repositories are accessible by the device.
32.	Wyse 5060 PCOIP thin client's firmware upgrade is not working.	Uploaded firmware for Wyse 5060 PCOIP thin client in Wyse Management Suite version 1.0 needs to be uploaded again after migrating to Wyse Management Suite version 1.1. Uploaded firmware in Wyse Management Suite version 1.0 cannot be overridden after you upgrade Wyse Management Suite version 1.1 server.
33.	Custom installation with remote database gets failed.	Ensure that the remote database is not used earlier. If it has been used earlier, delete or modify tenant id table in mongo database while uninstalling Wyse Management Suite version 1.1
34.	RAW imaging using RSP is not working.	To perform the ThinLinux RAW imaging through Wyse Management Suite, Administrator need to do following: 1) Create an ftp location. 2) Copy the RAW image in the FTP location. 3) Copy the RAW image file in the Wyse Management Suite repository again. 4) Create a standard application policy with RAW image with ftp location, add user name and password as install parameter. 5) Schedule a policy job.
35.	Wyse Management Suite server is not in UP state after installing it with the remote database on the same server where Mongo database is installed.	Delete the stratus database entry.
36.	After installation, Wyse Management Suite server UI is not loading and could not log in to the server.	The server hostname may have underscore (_). Change the hostname by removing the underscore (_).
37.	WDA registration fails after installing the server with the custom ports.	Enter http/https along with the URL/FQDN at the server field from the agent.

Fixed issues

Table 7. Fixed issues

Sl.no	Fixed issues
1.	Improve policy editing interface so that user is not placed on the main screen (Inactive).
2.	Dual display enhancement is required in the Wyse Management Suite interface.
3.	Wyse Management Suite application policy interface requires GUI improvement.