

Windows 10 IoT Enterprise LTSC 2016

Maintenance Release 2

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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1 Release summary.....	5
Priority and recommendations.....	5
2 Compatibility.....	6
Build details.....	6
Connection brokers.....	6
Supported languages.....	6
Hardware capability.....	7
3 General features.....	12
Wyse Easy Setup.....	12
Quick Start.....	12
MUI build behavior.....	12
Overlay Optimizer.....	12
Application Launch Manager.....	13
xData Cleanup Manager.....	13
BIOS details.....	13
C-A-D tool.....	13
Dell Thin Client Application	13
Dell wallpapers.....	13
ENERGY STAR specification.....	13
Ericom Connect Client.....	14
Ericom PowerTerm InterConnect.....	14
Event Viewer log preservation.....	14
Internet Explorer 11.....	14
Keyboard filters.....	14
Out-of-Box driver install.....	14
System Center Configuration Manager 2016/2019 server information.....	14
User accounts.....	14
Unified Write Filter.....	15
Windows Defender Advanced Threat Protection.....	16
XML driven PowerShell scripts.....	16
USB redirection.....	16
Sysprep using User Interface.....	16
Prerequisites.....	16
Running Custom Sysprep tool.....	16
Running the Config Sysprep tool.....	18
4 Important notes.....	20
Hardware support information.....	20
Test Environment.....	20
Used and free space details.....	21
Supported peripherals.....	21
QFEs.....	22

Operating system components.....	23
5 Fixed issues.....	25
6 Known issue.....	26
7 Resources and support.....	27
8 Contacting Dell.....	28

Release summary

This release note contains information about the Windows 10 IoT Enterprise multilingual build 10.0.14393 that runs on Wyse 5070 Thin Client, Wyse 5470 Thin Client, and Wyse 5470 All-in-One Thin Client. The operating system is based on Windows 10 Enterprise 2016 LTSB, also known as Redstone 1 (RS1).

The build can be pushed on thin clients with 32 GB eMMC, 64 GB SSD, 128 GB SSD, 256 GB SSD, and higher with 4 GB and 8 GB RAM.

Version

- 10.03.08.11.19.00—Wyse 5470 Thin Client
- 10.03.06.11.19.00—Wyse 5070 Thin Client
- 10.03.07.11.19.00—Wyse 5470 All-in-One Thin Client

Release date

December 2019

Priority and recommendations

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

Compatibility

Build details

Table 1. Build details of Dell Wyse 5070 Thin Client

Release detail	Specification
Platform	Dell Wyse 5070 Thin Client
Product	Windows 10 IoT Enterprise 2016 LTSB
Build version/Kernal version	10.0
Build number	10.03.06.11.19.00
BIOS version	1.2.4

Table 2. Build details of Dell Wyse 5470 Thin Client

Release detail	Specification
Platform	Dell Wyse 5470 Thin Client
Product	Windows 10 IoT Enterprise 2016 LTSB
Build version/Kernal version	10.0
Build number	10.03.08.11.19.00
BIOS version	1.1.1

Table 3. Build details of Dell Wyse 5470 All-in-One Thin Client

Release detail	Specification
Platform	Dell Wyse 5470 All-in-One Thin Client
Product	Windows 10 IoT Enterprise 2016 LTSB
Build version/Kernal version	10.0
Build number	10.03.07.11.19.00
BIOS version	1.2.1

Connection brokers

The following connection brokers are supported with Windows 10:

- VMware Horizon client version 5.1.0.6807.
- Citrix Receiver version 14.12.0.18020.
- Ericom Web connect version 7.5.1.

Supported languages

Table 4. Supported languages

Wyse 5070 Thin Client	Wyse 5470 All-in-One Thin Client	Wyse 5470 Thin Client
English (en-US)	English (en-US)	English (en-US)

Wyse 5070 Thin Client	Wyse 5470 All-in-One Thin Client	Wyse 5470 Thin Client
German (de-DE)	German (de-DE)	German (de-DE)
French France (fr-FR)	French France (fr-FR)	French France (fr-FR)
French Canada (fr-CA)	French Canada (fr-CA)	French Canada (fr-CA)
Italian (it-IT)	Italian (it-IT)	Italian (it-IT)
Spanish (es-ES)	Spanish (es-ES)	Spanish (es-ES)
Japanese (ja-JP)	Japanese (ja-JP)	Japanese (ja-JP)
Korean (ko-KR)	Korean (ko-KR)	Korean (ko-KR)
Chinese Simplified (zh-CN)	Chinese Simplified (zh-CN)	Chinese Simplified (zh-CN)
Chinese traditional (zh-TW)	Chinese traditional (zh-TW)	Chinese traditional (zh-TW)
Brazilian Portuguese (pt-BR)	Brazilian Portuguese (pt-BR)	Brazilian Portuguese (pt-BR)
	Dutch Netherlands (nl-NL)	Dutch Netherlands (nl-NL)
	Danish Denmark (da-DK)	Danish Denmark (da-DK)
		Finnish Finland (fi-FI)
		Norwegian Norway (nb-NO)
		Russian Russia (ru-RU)
		Swedish Sweden (sv-SE)

Hardware capability

Display settings for Wyse 5070 Thin Client

By default, the Display Settings UI is available in both user mode and admin mode. Any changes to display preferences made through this UI is saved for the user.

Table 5. Port preferences

Thin Client	Port preferences
Wyse 5070 Thin Client with Celeron processor	<ul style="list-style-type: none"> Optional port can be used as second RJ-45, SFP, VGA, or second serial port. If wireless is enabled, the optional port cannot be used as second RJ-45 or SFP. When monitor is connected on USB-C port, DisplayPort 2 becomes inactive.
Wyse 5070 Thin Client with Pentium processor	<ul style="list-style-type: none"> Optional port can be used as second RJ-45, SFP, VGA, or second serial port. If wireless is enabled, the optional port cannot be used as second RJ-45 or SFP. Back headset is disabled if front headphone is used. When monitor is connected on USB-C port, DisplayPort 2 becomes inactive. When the VGA monitor is present on VGA optional port, DisplayPort 3 becomes inactive.
Wyse 5070 Extended Thin Client	<ul style="list-style-type: none"> Optional port can be used as second RJ-45, SFP, or VGA. If wireless is enabled, the optional port cannot be used as second RJ-45 or SFP. Back headset is disabled if front headphone is used.

Thin Client	Port preferences
	<ul style="list-style-type: none"> When a monitor is connected using USB-C port, DisplayPort 2 becomes inactive. When a VGA monitor is connected the VGA optional port, DisplayPort 3 becomes inactive. Power option is available on the first serial port. PCIe slot is available.

Wyse 5070 Thin Client with Celeron processor

Table 6. Wyse 5070 Thin Client with Celeron processor

Number of Displays	Supported display resolution	
	4K resolution ¹	Non- 4K resolution ²
One display	Yes	Yes
Two displays	Yes	Yes
Three displays	No ³	Yes ³

1. 4K resolution—3840 x 2160 @ 60 Hz
2. Non-4K resolution—Up to 2560 x 1600 @ 60 Hz
3. VGA port does not support 4K display. However, it supports a display with 1080p screen resolution.

Table 7. Ports

Ports	DP1	DP2	VGA	USB Type-C
Monitor priority	1	2B ²	3	2A ²
4K display resolution	Yes	Yes	No ¹	Yes
Non-4K resolution	Yes	Yes	Yes ¹	Yes

1. VGA port does not support 4K display. However, it supports a display with 1080p screen resolution.
2. DP2 and USB Type-C port are mutually exclusive with USB Type-C port taking higher priority.

Wyse 5070 Thin Client with Pentium processor

Table 8. Wyse 5070 Thin Client with Pentium processor

Number of Displays	Supported display resolution	
	4K resolution ¹	Non- 4K resolution ²
One display	Yes	Yes
Two displays	Yes	Yes
Three displays	No ³	Yes

1. 4K resolution—3840 x 2160 @ 60 Hz
2. Non-4K resolution—Up to 2560 x 1600 @ 60 Hz
3. If you connect three displays, two monitors will have 4K resolution and one monitor will have 2560 x 1600 @ 60 Hz.

Table 9. Ports

Ports	DP1	DP2	DP3	VGA	USB Type-C
Monitor priority	1	2B ²	3B ³	3A ³	2A ²
4K display resolution	Yes	Yes	Yes	No ¹	Yes
Non-4K resolution	Yes	Yes	Yes	Yes	Yes

1. VGA port does not support 4K display. However, it supports a display with 1080p screen resolution.
2. DP2 and USB Type-C port are mutually exclusive with USB Type-C port taking higher priority.
3. DP3 and VGA port are mutually exclusive with VGA port taking higher priority.

Wyse 5070 Extended Thin Client with AMD GPU

Table 10. Wyse 5070 Extended Thin Client with AMD GPU

Number of Displays	Supported display resolution	
	4K resolution ¹	Non- 4K resolution ²
One display	Yes	Yes
Two displays	Yes	Yes
Three displays⁴	Yes	Yes
Four displays⁵	Yes	Yes
Five displays	No ³	Yes
Six displays	No ³	Yes

1. 4K resolution—3840 x 2160 at 60 Hz
2. Non-4K resolution—Up to 2560 x 1600 at 60 Hz – Supports only up to four monitors with 4K screen resolution at 60 Hz.
3. If you connect five or six displays, four monitors will have 4K resolution and other monitors will have a maximum resolution of 2560 x 1600 at 60 Hz.
4. For three displays, Dell recommends that you configure first two 4K displays on the main board (DP1~DP3), and the third 4K display on AMD GPU card.
5. For four displays, Dell recommends that you configure first two 4K displays on the main board (DP1~DP3), and the remaining two 4K displays on AMD GPU card.

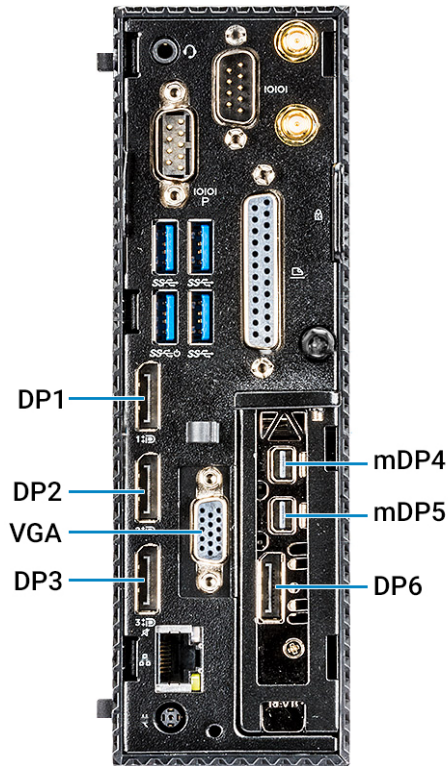


Figure 1. Ports of Wyse 5070 Extended Thin Client

Table 11. Ports

Ports	DP1	DP2	DP3	VGA	USB-C	mDP4 ³	mDP5 ⁴	DP6 ⁵
Monitor priority	1	2B ⁶	3B ⁷	3A ⁷	2A ⁶	4	5	6
4K display resolution	Yes	Yes	Yes	No ¹	Yes	Yes	Yes	Yes
Non-4K resolution	Yes	Yes	Yes	Yes ²	Yes	Yes	Yes	Yes

1. VGA port does not support 4K display. However, it supports a display with 1080p screen resolution.
2. VGA port supports 1080p screen resolution.
3. mDP4 port refers to the top mDP port of the AMD GPU slot.
4. mDP5 port refers to the middle mDP port of the AMD GPU slot.
5. DP6 refers to the bottom DP port of the AMD GPU slot.
6. DP2 and USB Type-C port are mutually exclusive with USB Type-C port taking higher priority.
7. DP3 and VGA port are mutually exclusive with VGA port taking higher priority.

Monitor priority—The following order defines the monitor priority set on Windows 10 IoT Enterprise for Wyse 5070 thin client:

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

Audio capability—Audio is supported on all DP ports except DP3.

General features

Wyse Easy Setup

Wyse Easy Setup enables administrators to quickly and easily deploy configurations on thin clients.

Wyse Easy Setup enables you to:

- Create a dedicated browser-focused client by configuring the Internet Explorer settings.
- Configure multiple broker connections such as Citrix, VMware, and Remote Desktop Protocol (RDP).
- Configure a device to create a dedicated application for a particular line of business.

You can create a kiosk mode to lock down a Windows device to prevent users from accessing any features or functions on the device outside of the kiosk mode. You can also customize the kiosk interface to enable or disable user access to specific settings.

For more information, see *Wyse Easy Setup Administrator's Guide* and *Release notes* at downloads.dell.com/wyse.

Quick Start

The Quick Start application launches when you boot into a thin client for the first time. This tool displays the software and hardware features of the thin client. It also provides information about the VDI applications, management software, and supported peripherals.

You can also configure Wyse Easy Setup application using the Quick Start application.

After you exit the Quick Start application, the user desktop is displayed by default. You can also launch the tool later from the **Start** menu.

MUI build behavior

Windows 10 IoT Enterprise build provides multi-language support. The default language is English—en-us.

To change the language of the build, do the following:

1. Go to C:\Windows\Setup\Tools.
2. Right-click `LanguageConfig.exe` and click **Run as Administrator**.
3. Select the language.
4. Push the image using Wyse Management Suite server or USB Imaging Tool.
5. Run Custom Sysprep to pull the image, and push it to the target thin client.

NOTE:

- **To configure Bit locker with TPM, use the Configure TPM platform validation profile for native UEFI firmware configurations group policy.**
- **To view the event logs, run the Event Viewer Errors.docx file.**
- **To update Windows defender definition, you must increase the write filter threshold value.**

Overlay Optimizer

Overlay Optimizer is a software component that works with Unified Write Filter (UWF). Overlay Optimizer provides write protection and extends the uptime of devices. Overlay optimizer works on Windows 10 IoT Enterprise operating system.

The UWF protects the disk by storing the changes in the RAM overlay. When an application tries to write data to the disk, write filter redirects the write operations to the RAM overlay. The overlay size is preconfigured and cannot increase dynamically. When the overlay runs out of space over a period, the device restarts.

The Overlay Optimizer monitors the UWFs' overlay space and the content. Overlay Optimizer identifies higher overlay space consumption in write filter and moves the unused content to the Overlay Optimizer's disk overlay. Clearing the UWF overlay extends the device uptime.

For more information, see Overlay Optimizer Release notes at downloads.dell.com/wyse.

Application Launch Manager

The Application Launch Manager (ALM) version 1.1.0.3 enables you to start an application that is based on predefined events such as service startup, user login/logoff, or system shutdown in system account. You can also configure multilevel logs which are essential for troubleshooting using the `DebugLog.xml` file.

You can add or remove application configuration nodes from the ALM configuration file using the command-line interface.

xData Cleanup Manager

xData Cleanup Manager (xDCM) version 1.0.0.2 prevents extraneous information from being stored on the local disk. xDCM can be used to automatically clean up directories that are used to temporarily cache the information. A clean-up is triggered on either service startup, user logoff, or system shutdown.

It also enables you to configure multilevel logs which are essential for troubleshooting. You can clean up files, folders, and enable or disable xDCM using Application Programming Interface (API). You can also add or remove configuration nodes from the xDCM configuration file using command-line interface.

NOTE:

- Existing `NetXclean.ini` configurations are ported to new `xDataCleanupConfig.xml`.
- Contents in the xData Cleanup Manager are cleaned by default.

BIOS details

Wyse 5070, 5470 All-in-One, and 5470 Thin Clients supports Dell BIOS and Wyse BIOS entries. The BIOS image is included in the latest Wyse Management Suite release.

C-A-D tool

The C-A-D tool allows administrators to map the Ctrl+Alt+Del key combination of VDI applications to display the Ctrl+Alt+Del screen of the VDI application. If the C-A-D tool is enabled, you can use Ctrl+Alt+Del key combination for all VDI applications.

NOTE: By default, the C-A-D tool is enabled.

Dell Thin Client Application

You can view and configure thin client device, system shortcuts, custom fields, RAM disk, autologon, and CAD map using the Dell Thin Client application.

NOTE: By default, RAM disk size is 512 MB for thin clients with 8 GB RAM, and 100 MB when the write filter is enabled for thin clients with 4 GB RAM.

Dell wallpapers

Older wallpapers and themes are replaced with the new Dell wallpapers and themes.

ENERGY STAR specification

Windows 10 IoT Enterprise on Wyse 5070 thin client is ENERGY STAR version 7.0 compliant.

The following are the details in the Control Panel applet for power options:

- Supports Wake on LAN (WoL) during power off.
- Supports Idle state wake up from the sleep mode.
- Screen off timer is 10 minutes.
- Sleep timer is 15 minutes.

Ericom Connect Client

Ericom Connect Client maximizes the value of Terminal Servers (RDS), virtual desktops (VDI), Web applications, Cloud services, and legacy host systems. For IT departments of all sizes, PowerTerm Web Connect streamlines the management and utilization of IT resources, and also protects earlier IT investments and improves the end user-experience.

Ericom PowerTerm InterConnect

PowerTerm InterConnect consists of several robust terminal emulation applications supporting the host access of large and small organizations. PowerTerm InterConnect product provides fast and reliable access to data residing on the broadest range of hosts. It enables enterprises to standardize on a single host access solution.

Event Viewer log preservation

Event Viewer log preservation feature allows you to enable or disable Event Viewer log saving when the File Based Write Filter (FBWF) or Unified Write Filter (UWF) is enabled. This feature enables you to collect event logs if they are required for debugging or analysis purposes.

Internet Explorer 11

- **Performance enhancements**—Microsoft has included support for web standards such as CSS animations, HTML5 spell checking, and improved JavaScript performance.
- **Security enhancements**—The main security addition to Internet Explorer 11 is **Enhanced Protected Mode**, which locks down parts of the Windows operating system, preventing the browser from accessing the operating system.

The following Internet Explorer 11 features are customized by default:

- First run customizations are disabled.
- Internet Explorer 11 enhanced protection mode is enabled.
- Internet Explorer cookies and cache are redirected to z: RAM Disk.
- Cache content is limited to 100 MB.
- Browsing history is cleared when you exit Internet Explorer.

Keyboard filters

You can use keyboard filters to disable key presses or combinations. For example, you can disable common Windows key combinations such as Ctrl+Alt+Delete and Alt+Tab. You can disable any key or key combination.

Out-of-Box driver install

All the respective device drivers are preinstalled in the operating system.

System Center Configuration Manager 2016/2019 server information

System Center Configuration Manager (SCCM) is supported for standard deployment of images.

User accounts

You can log in as an administrator or as a standard user.

The following are the login credentials for user and administrator accounts:

Table 12. Login credentials

Account detail	Password
User	DellCCCvdi
Admin	DellCCCvdi
TightVNC—Administrator	DELL
BIOS—Administrator	Fireport

Unified Write Filter

Unified Write Filter (UWF) is a sector-based write filter that protects your storage media. UWF redirects the write attempts to a virtual overlay, and intercepts the write attempts to the protected volume. This improves the stability, reliability of the device thereby reducing the wear on write media, such as solid-state drives. In UWF, overlay is a virtual storage space that saves changes made on the protected volume. If the file system attempts to modify a protected sector, UWF will copy the sector from the protected volume to the overlay, and the overlay is updated. If an application tries to read from that sector, UWF returns the data from the overlay, so that the system appears to have written to the volume, while the volume remains unchanged. For more information, see the Unified Write Filter documentation at www.microsoft.com.

CAUTION: Failure to keep the Write Filter turned on (except for regular maintenance or Application/Driver installs or upgrades) will prematurely wear out your Flash/SSD storage and invalidate your warranty.

The following are the default file folders excluded from being filtered by UWF:

- C:\Users\Admin\AppData\LocalLow
- C:\Users\User\AppData\LocalLow
- C:\Program Files\Windows Defender
- C:\Program Files (x86)\Windows Defender
- C:\Windows\WindowsUpdate.log
- C:\Windows\Temp\MpCmdRun.log
- C:\ProgramData\Microsoft\Windows Defender
- C:\program files\Wyse\WDA\Config
- C:\Users\Public\Documents\Wyse
- C:\Program Files\Dell\Command Monitor\omsa\ini\dccidy64.ini
- C:\Program Files\Dell\Command Monitor\omsa\log\dcpm64.xml
- C:\Program Files\Dell\Command Monitor\omsa\log\dcsys64.xml
- C:\windows\system32\spp
- C:\Program Files\Dell\Command Monitor\omsa
- C:\Wyse\WCM\ConfigMgmt
- C:\Wyse\WCM
- C:\Wyse\WDA

The following are the default registries excluded from being filtered by UWF:

- HKLM\Software\Wyse\ConfigMgmt
- HKLM\SYSTEM\CurrentControlSet\Control\WNT\UWFSvc
- HKLM\SOFTWARE\Microsoft\Windows Defender
- HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\HomeGroup
- HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\NetworkList
- HKLM\SYSTEM\WPA
- HKLM\SYSTEM\CurrentControlSet\Control\WNT\DWCADTool

CAUTION: Please follow proper write filter and Windows Page File usage instructions at all times. Such instructions include making sure that the write filter is enabled during regular use and is disabled only temporarily by an administrator when required for image upgrades, applying security patches, registry changes and application installation. The write filter should be re-enabled as soon as such tasks are completed. Such instructions further include never enabling the Windows Page File feature during regular use of the thin client. Any operation of a Dell Wyse Windows Embedded Thin Client with the write filter turned off during regular use and/or with the Windows Page file enabled will prematurely wear out your Flash/SSD storage, decrease performance and decrease the lifespan of the

product. Dell is not responsible for, and will not, warrant, support, repair or replace any thin client device or component that fails to operate properly due to a failure to follow these instructions.

Windows Defender Advanced Threat Protection

Windows Defender Advanced Threat Protection feature helps enterprises to detect, investigate, and respond to advanced attacks on their networks.

XML driven PowerShell scripts

Customization scripts are ported to the PowerShell scripts, and are based on the XML file input.

USB redirection

USB redirection is applicable for all users of the client machine with all the published XenDesktop irrespective of the setting **Simplify device connections for me** in the XenDesktop connection preferences user interface.

Sysprep using User Interface

The System Preparation tool (Sysprep) can now be configured using the inbuilt user interface. Using this tool the data gets cleared from the system and the system can be customized as per the requirement. The operating system will be like a new installation.

The Sysprep tool is used with other deployment tools to install the Microsoft Windows operating systems with minimal intervention by an administrator.

`Buildmaster.cmd` is the main program that calls other executable files that prepares the thin client for the Windows installation.

`Buildmaster.cmd` is located in the `<drive C>\Windows\Setup` on all installations.

Sysprep must always be run from the `<drive C>\Windows\Setup` and must run on the version of Windows with which it was installed.

The Sysprep tool contains the following two options:

- Custom Sysprep, see [Running the Custom Sysprep tool](#).
- Config Sysprep, see [Running the Config Sysprep tool](#).

Prerequisites

The following are the pre-requisites to run the Custom Sysprep tool:

- Unified Write Filter must be disabled.
- Logging framework must be available on your thin client.
- Power Shell script execution environment must be available.
- Custom Sysprep and Configuration Sysprep (SCCM) scripts must be available.
- Host Name calculation feature must be available.
- If the flash drive or HDD size is more than 32 GB, reduce it to less than 32 GB for a better custom sysprep process.

 **NOTE: You cannot access the thin client if you terminate the Sysprep process. Make sure that the device is ready before you use the Sysprep tool.**

 **CAUTION: After you run the Sysprep tool, enable the Unified Write Filter to ensure device security.**

Running Custom Sysprep tool

- Disable File based Write Filter.
- Logging framework must be available on your thin client.
- PowerShell script execution environment, Custom Sysprep, Configuration Sysprep (SCCM) scripts, and Hostname calculation feature must be available.
- Reduce the flash drive or hard drive size to less than 16 GB.

NOTE: You must shrink the drive C manually to reduce the hard drive size to 16 GB or less.

To run the Custom Sysprep tool, do the following:

1. Go to <drive C>\Windows\Setup.
2. Right-click **Build_Master.cmd**, and select **Run as administrator**.
The **Config Master** window is displayed.

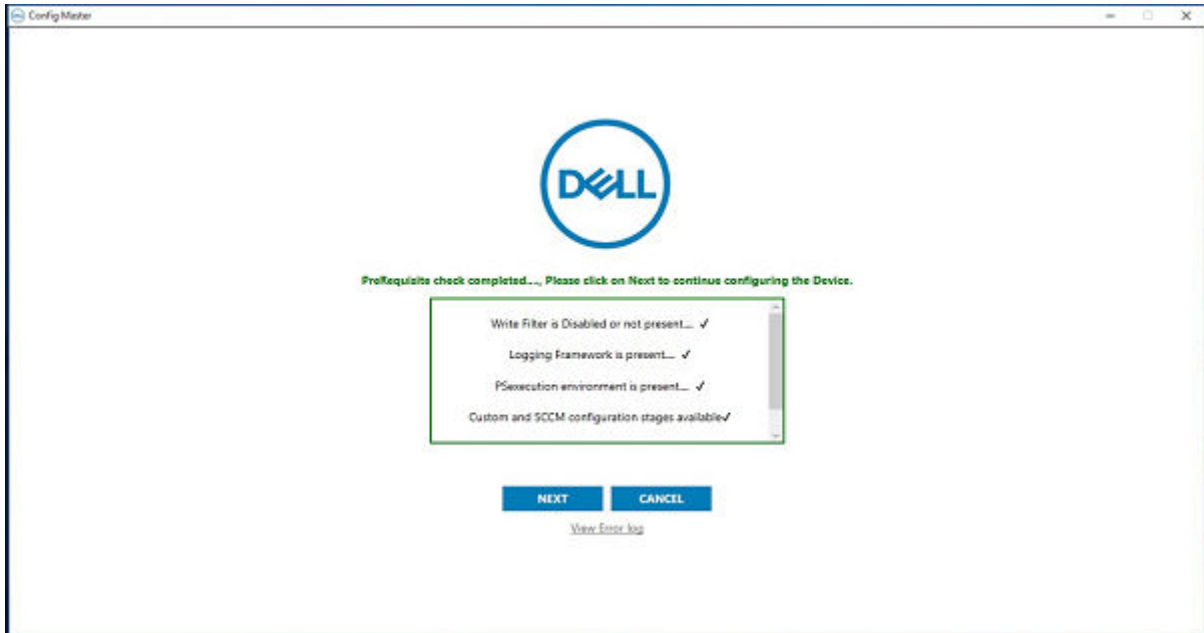


Figure 2. Config Master

3. Click **Next**.
The **Configuration** screen is displayed.

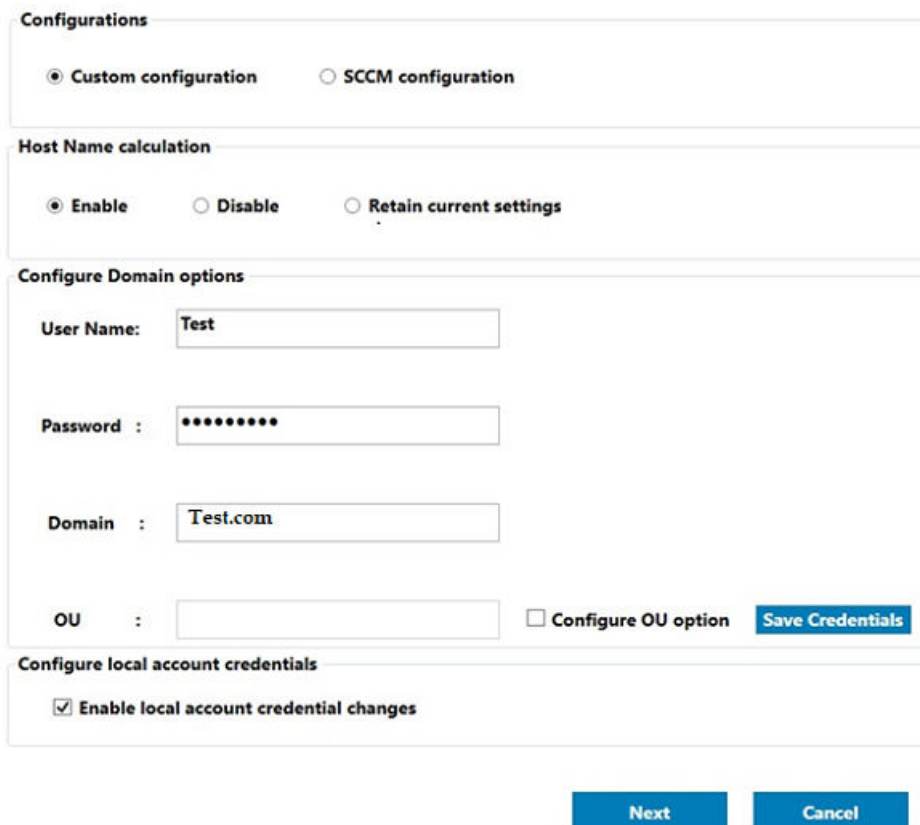
The image shows the 'Configuration' screen of the Config Master application. It is divided into several sections: 'Configurations' with radio buttons for 'Custom configuration' (selected) and 'SCCM configuration'; 'Host Name calculation' with radio buttons for 'Enable' (selected), 'Disable', and 'Retain current settings'; 'Configure Domain options' with text boxes for 'User Name' (Test), 'Password' (masked with dots), 'Domain' (Test.com), and 'OU' (empty), along with a checkbox for 'Configure OU option' and a 'Save Credentials' button; and 'Configure local account credentials' with a checked checkbox for 'Enable local account credential changes'. At the bottom are 'Next' and 'Cancel' buttons.

Figure 3. Configuration

4. Select **Custom configuration** in the **Configurations** section.
 5. Enable or disable hostname calculation in the **Host Name calculation** section.
 6. Enter the appropriate values in the **Configure Domain options** section, and click **Save Credentials**—optional.
 7. Click **OK** when prompted—optional.
 8. Select **Enable local account credentials changes**—optional.
The changes that are made to the credentials are applied.
 9. Click **Next**.
The **Credential Manager** page is displayed.
 10. Select the user account, and type the login credentials.
 11. Click **Save**.
 12. Click **Apply** to save the changes.
This process takes 5–10 minutes to complete. The device turns off after the Sysprep process is complete.
- NOTE:** You cannot access the thin client if you terminate the Sysprep process. Make sure that the device is ready before you use the Sysprep tool.

Running the Config Sysprep tool

To run the Config Sysprep tool, do the following:

1. Go to <drive C>\Windows\Setup.
2. Right-click `Build_Master.cmd`, and select **Run as administrator**.
The **Config Master** window is displayed.

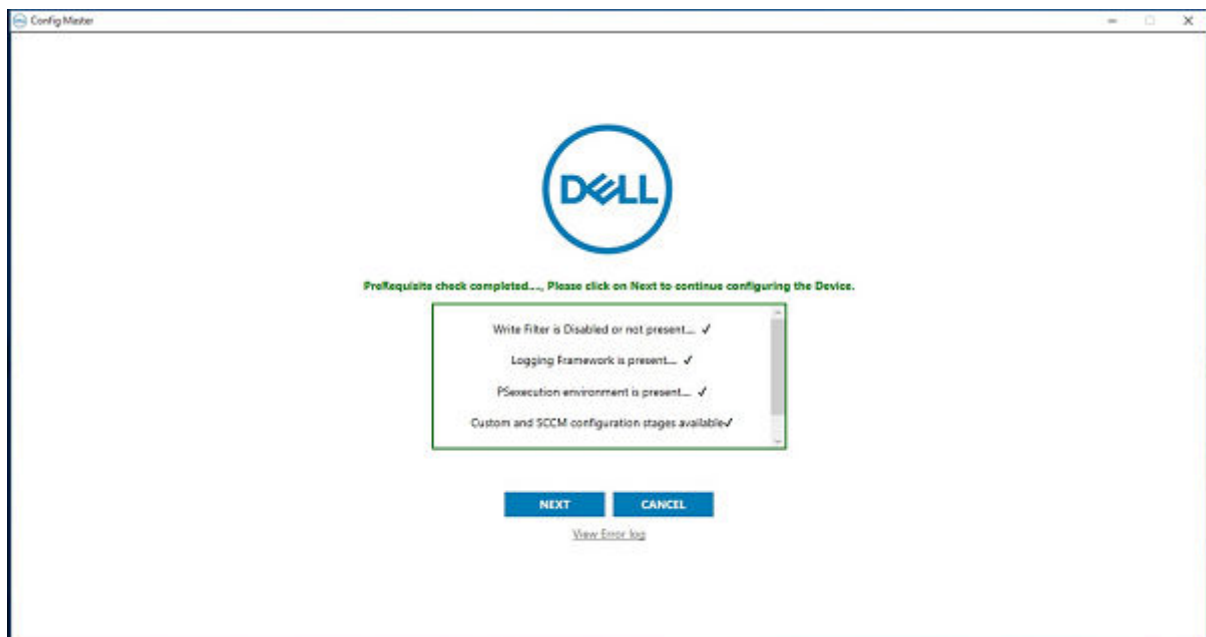


Figure 4. Config Master

3. Click **Next**.
The **Configuration** screen is displayed.

Configurations

Custom configuration
 SCCM configuration

Host Name calculation

Enable
 Disable
 Retain current settings

Configure Domain options

User Name:

Password :

Domain :

OU : Configure OU option

Configure local account credentials

Enable local account credential changes

Figure 5. Configuration

4. In the **Configurations** section, select **SCCM configuration**.
5. In the **Host Name calculation** section, enable or disable hostname calculation.
- NOTE:** The **Configure Domain Option** and **Configure local account credentials** field are grayed out.
6. Click **Apply** to save the changes.
 After the completion of SCCM Config Sysprep, the HAgent service ends. You can now perform the pull operation using SCCM.

Important notes

Hardware support information

- Rich 4K display capability is provided.
- Video adapters—DP to DVI, DP to VGA, USB C to DP—is supported.
- Dynamic throttling for higher performance is supported.

Test Environment

Table 13. Test Environment

Thin client	CPU Name	Build Package Name	Product Version	RAM	SSD Size	BIOS Version
Wyse 5070 Thin Client with Celeron processor	Intel Celeron J4105 CPU at 1.50 GHz	WIE10_5070_No vember2019.exe	10.03.06.03.19.00	8 GB	64 GB—Apacer	1.2.4
Wyse 5070 Thin Client with Pentium processor	Intel Pentium Silver J5005 CPU at 1.50 GHz	WIE10_5070_No vember2019.exe	10.03.06.03.19.00	8 GB	64 GB—Apacer	1.2.4
Wyse 5070 Extended Thin Client with Pentium processor	Intel Pentium Silver J5005 CPU at 1.50 GHz	WIE10_5070_No vember2019.exe	10.03.06.03.19.00	8 GB	64 GB—Apacer	1.2.4
Wyse 5070 thin client with Celeron processor	Intel Celeron J4105 CPU at 1.50 GHz	WIE10_5070_No vember2019.exe	10.03.06.03.19.00	4 GB	32 GB eMMC—Default	1.2.4

Table 14. Additional details

Component	Version
Wyse Management Suite	1.4.1
Boot Agent	4.0.6
USB Imaging Tool	3.3.0.114

NOTE:

- **All the servers are installed on VMware vCenter Server 6.0.0.**
- **Windows 2008 R2 Enterprise Server is supported with Wyse Management Suite 1.4.1.**
- **Windows Server 2003, Windows Server 2008 R2 Enterprise, Windows Server 2012, and Windows Server 2016 RDP protocols are supported.**
- **Windows 2012 R2 Enterprise with Citrix XenDesktop Server 7.15 and 7.19 is installed.**
- **Windows 2008 R2 Enterprise with VMware Horizon View Server 7.10 is installed.**
- **Red Hat Linux Server with Ericom Server 9.2 is installed.**
- **Ericom Web connect Server 6.0.0.0 is supported.**

Used and free space details

Table 15. Used and free space details

Platform	Flash size	Used space <drive C>	Free space
Wyse 5470 Thin Client	32 GB	16.1 GB	10.3 GB
Wyse 5470 Thin Client	128 GB	16.0 GB	97.9 GB
Wyse 5470 All-in-One Thin Client	32 GB	14.6 GB	11.1 GB
Wyse 5470 All-in-One Thin Client	128 GB	14.7 GB	99.1 GB
Wyse 5070 Thin Client with Celeron processor	32 GB eMMC	14.7 GB	11.00 GB
Wyse 5070 Thin Client with Celeron processor	64 GB	14.8 GB	39.5 GB
Wyse 5070 Thin Client with Pentium processor	64 GB	14.8 GB	39.5 GB
Wyse 5070 Extended Thin Client with Pentium processor	128 GB SSD	14.6 GB	99.2 GB

Supported peripherals

Table 16. Supported peripherals

Product	Product description
Audio	UC150 Dell Stereo Headset - Skype for Business
	UC 350 Dell Pro Stereo Headset - Skype for Business
	Dell USB Sound Bar (AC511M)
	Dell Professional Sound Bar (AE515M)
	Dell 2.0 Speaker System - AE215
	Dell Wireless 2.1 Speaker System - AE415
	Jabra Evolve 65 MS Stereo - Headset
	Jabra Engage 65 Stereo Headset
	Plantronics Savi W440M-400 Series convertible wireless headset - DECT 6.0
	Plantronics Voyager Focus UC B825-M headset for Microsoft Lync
Cables	C2G USB-C to DisplayPort Adapter Converter - USB-C to DisplayPort Black external video adapter - black
	USB-C Mobile Adapter with DP/HDMI/VGA/Gigabit Ethernet/USB-C/USB-A (DA300)
	Belkin Universal HDMI to VGA Adapter with Audio - Video converter - HDMI - B2B
	Dell USB to Ethernet adapter
	Trendnet USB to Serial Converter RS-232 - 2.25 ft
	C2G - USB 2.0 A (Male) to DB9 (Serial) (Male) Adapter
	StarTech.com 1 Port USB to RS232 DB9 Serial Adapter Cable - Serial adapter - USB 2.0 - RS-232

Product	Product description
Input devices	Dell Laser Scroll USB 6-Buttons Silver and Black Mouse
	Dell MS116 USB Wired Optical Mouse Black
	Dell Wireless Mouse WM326
	Dell Premier Wireless Mouse WM527
	Dell Wireless Keyboard and Mouse Combo KM636
Monitors	Dell 20 Monitor E2016H
	Dell 20 Monitor E2016Hv (China only)
	Dell 22 Monitor E2216H
	Dell 22 Monitor E2216Hv (China only)
	Dell 22 Monitor E2218HN
	Dell 23 Monitor E2318H
	Dell 24 Monitor E2417H
	Dell UltraSharp 27 Monitor U2718Q - 4K
	Dell 20 Monitor P2018H
	Dell 22 Monitor P2219H
	Dell 23 Monitor P2319H
	Dell 24 Monitor P2419H
	Dell 27 Monitor P2719H
	Dell 22 Monitor P2219HC
	Dell 24 Monitor P2419HC
	Dell 27 Monitor P2719HC
	Dell UltraSharp 24 Monitor U2419H
	Dell UltraSharp 24 Monitor U2419H
	Dell UltraSharp 27 Monitor U2719D
	Dell UltraSharp 27 Monitor U2719DC
Dell 34 Curved Ultrawide Monitor P3418HW	
Docking Stations	Dell Dock WD15 (130 W version)—Wyse 5470 Thin Client only
	Dell Dock WD19-C—Wyse 5470 Thin Client only
Storage	Dell Portable SSD, USB-C 250 GB
	Dell External Tray Load ODD (DVD Writer)

QFEs

The following QFEs are added as part of this release for Wyse 5070 Thin Client:

- KB4516061
- KB4512574
- KB4346087
- KB4516115

The following QFEs are added as part of this release for Wyse 5470 Thin Client and 5470 All-in-One Thin Client:

- KB4512495
- KB4509091

· KB4346087

For more information, see support.microsoft.com.

Operating system components

Table 17. Driver details

Driver details	Wyse 5470 Thin Client	Wyse 5470 All-in-One Thin Client	Wyse 5070 Thin Client
BIOS version	1.1.1	1.2.1	1.2.4
Display Adapter	Intel UHD Graphics 600 version 26.20.100.6998	Intel UHD Graphics 600 version 26.20.100.6812	Intel UHD Graphics 600 version 23.20.16.4933 AMD Embedded Radeon E9173 version 23.20.768.0
Network Adapter	Realtek PCIe GBE Family Controller version 10.32.1206.2018	Realtek PCIe GBE Family Controller version 10.32.1206.2018	Realtek PCIe GBE Family Controller version 10.30.815.2018
Audio	<ul style="list-style-type: none"> Intel Display Audio version 10.27.0.4 Realtek Audio version 6.0.1.8627 	<ul style="list-style-type: none"> Intel Display Audio version 10.26.0.6 Realtek Audio version 6.0.8710.1 	<ul style="list-style-type: none"> Intel Display Audio version 10.24.0.3 Realtek Audio version 6.0.1.8378
Wireless Adapter	Intel® Wireless AC 9560 version 21.20.1.1	Intel® Wireless AC 9560 version 21.20.1.1	Intel® Wireless AC 9560 version 21.20.1.1
Bluetooth	Intel® Wireless Bluetooth version 21.20.0.4 (Device Manager)	Intel® Wireless Bluetooth version 21.20.0.4 (Device Manager)	Intel® Wireless Bluetooth version 21.20.0.4 (Device Manager) Microsoft Bluetooth Enumerator version 10.0.17763.348 Microsoft Bluetooth LE Enumerator version 10.0.17763.1
Wyse RAM Disk driver	Dell Wyse RAM Disk driver version 5.0.2183.5	Dell Wyse RAM Disk driver version 5.0.2183.5	Dell Wyse RAM Disk driver version 5.0.2183.5
CAD-MAP-VDI	3.0.3.0	3.0.3.0	3.0.3.0

Table 18. Common application, features, and files

Application/features/files	Version details
Wyse Device Agent	14.4.1.5
PlatVsys	1.0.0.2
VMWare Horizon Client	5.1.0.6807
Merlin	4.0.6
Wyse Easy Setup	2.0.0.138
ALM	1.1.0.3
xDCM	1.0.0.2
DCM	10.2.0.432
Citrix Receiver	14.12.0.18020
Citrix RTME	2.8.0.2235

Application/features/files	Version details
J4100 Map	3.0.3.0
SCCM	5.00.8790.1007 (2019)
Build Content	1.0.0.7
MUI tool	1.0.0.9
Dell Secure Client (DSC)	1.0.0.150
Dell Thin Client App	10.0.0.26
MS Lync VDI 2013	15.0.4569.1506
Custom Sysprep	No version
Quick Start	No version
Ericom PowerTerm interconnect for thin clients	12.0
Ericom connect WebConnect client	7.5.1

Fixed issues

Table 19. Fixed issues

Issue ID	Description
WIN-1005	Fixed an issue where you were unable to print more than 10 pages from VMware Blast and VMWare-PCoIP session.
WC-871	Fixed an issue where the RDP display configuration is not set to Full Screen in RDP Connection and Application Configuration in Wyse Easy Setup on Wyse 5470 All-in-One Thin Client.
WC-1034	Fixed an issue where the Launch Help Center goes to Wyse 5060 Thin Client support sites in Wyse 5470 Thin Client and Wyse 5470 All-in-One Thin Client.
WIN-1070	Fixed an issue where the BIOS settings are not listed in the System info tab of Wyse Management Suite for Wyse 5470 Thin Client.
WIN-943	Fixed an issue where the Wake-on-LAN functionality does not work in Wyse 5470 Thin Client.
WIN-1113	Fixed an issue where the applet stops responding while trying to generate the content manifest files in Dell Wyse Software Manifest Utility.
WIN-989	Fixed an issue where there is no display while running Sysprep post scripts when power adapter not plugged-in in Wyse 5470 Thin Client.
WIN-1047	Fixed an issue where the command prompt is accessible in user mode.
WIN-1073	Fixed an issue where a Not found error is displayed for Wyse 5470 Thin Client article when you click Dell TechCentre under the Recommended Add-ons tab in the Quick Start tool.
WIN-1072	Fixed an issue where the Wyse 5470 Thin Client warranty link under related documents in the Quick Start redirects to the Knowledge Base article.
WIN-1102	Fixed an issue where if the Ethernet is not connected to the docking station, Asset Tag information is listed as Docking station connected to Wyse 5470 thin client.
WC-978	Fixed an issue where the HostName and TSCAL are not preserved when you reimage the thin client.
WC-914	Fixed an issue where the back ports and side ports diagrams are missing in the Quick Start tool of Wyse 5470 All-in-One Thin Client.

Known issue

WC-873—The default server for the VMware connection is set to an incorrect URL <http://www.wyse.com>.

Resources and support

Accessing documents using the product search

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

A list of matching products is displayed.

3. Select your product and click the search icon or press Enter.
4. Click **Manuals & documents**.

Accessing documents using product selector

You can also access documents by selecting your product.

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

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.