

Microsoft Windows Embedded Standard 7P Maintenance Release 3

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

This maintenance release (MR3) is for the following platforms running Windows Embedded Standard 7P operating system:

- Wyse 5020 thin client
- Wyse 7020 thin client
- Wyse 7020 accelerated graphics thin client
- Wyse 5060 thin client
- Wyse 7040 thin client

NOTE: There are no further maintenance releases for the preceding platforms running Windows Embedded Standard 7P operating system.

Topics:

- [Version](#)
- [Release date](#)
- [Priority and recommendations](#)

Version

7091

Release date

March 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).

New and enhanced features

- QFEs are installed until November 2018.
- Wyse Easy Setup version 1.1.0.4379 is integrated.
- Win+L operating system feature is enabled.
- WDA is updated to version 14.3.0.66.
- Boot Agent is updated to version 3.7.7.
- VMware Horizon Client is updated version 4.9.
- Citrix Receiver is updated to version 4.12.
- Citrix HDX RealTime Media Engine is updated to version 2.5.
- Dell Thin Client Application is updated to version 10.0.0.25.
- Windows Defender is updated to version 1.285.1167.0.
- Dell KM632 Wireless Keyboard Caps Lock Indicator is updated to version 2.1.11.1 to address unquoted service path vulnerability.
- File-based write filter manager (FBWFTTray.exe) is updated to version 1.0.1533.0.
- File Based Write Filter Service Application (FBWFSvc.exe) is updated to version 1.0.4.12.
- CAD Map is enabled by default.
- Updated Intel HD Graphics 530 to version 20.19.15.4531 for Wyse 7040 thin client.
- AMD Radeon™ HD 8330E is updated to version 15.201.2401.0 for Wyse 5020 thin client.
- AMD Radeon E6460 is updated to version 15.201.2401.0 for Wyse 7020 thin client and Wyse 7020 accelerated graphics thin client.
- Intel ME is updated to version 11.7.0.1054 for Wyse 7040 thin client.
- Realtek high definition Audio driver is updated to version 6.0.1.8397 for Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, and Wyse 5060 thin client.
- Realtek high definition Audio driver is updated to version 6.0.1.6098 for Wyse 7040 thin client.
- AMD High Definition Audio Device is updated to version 7.12.0.7723 for Wyse 5020 thin client, Wyse 7020 thin client, and Wyse 7020 accelerated graphics thin client.
- Intel Display Audio is updated to version 6.16.0.3197 for Wyse 7040 thin client.
- Dell Command Configure is updated to version 4.1.0.478 for Wyse 7040 thin client.

System preparation tool—Sysprep UI

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 System Preparation tool **Sysprep.exe** can be used with other deployment tools to install Microsoft Windows operating systems. The installation can be completed with minimal intervention by an administrator.

Sysprep.exe calls other executable files during Windows installation. **Sysprep.exe** is located in the **%WINDIR%\system32\sysprep** directory. The file must run from the **%WINDIR%\system32\sysprep** directory, and the Windows version on which it is installed.

Custom Sysprep

When you access the operating system using Custom Sysprep, the operating system is configured according to OEM specification or customer requirement. The information in the user interface is saved as configuration files (.xml) and is used for the Custom Sysprep process.

Running Custom Sysprep tool

Prerequisite

- 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 32 GB.

About this task

To run the Custom Sysprep tool, do the following:

Steps

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

The **Config Master** window is displayed.

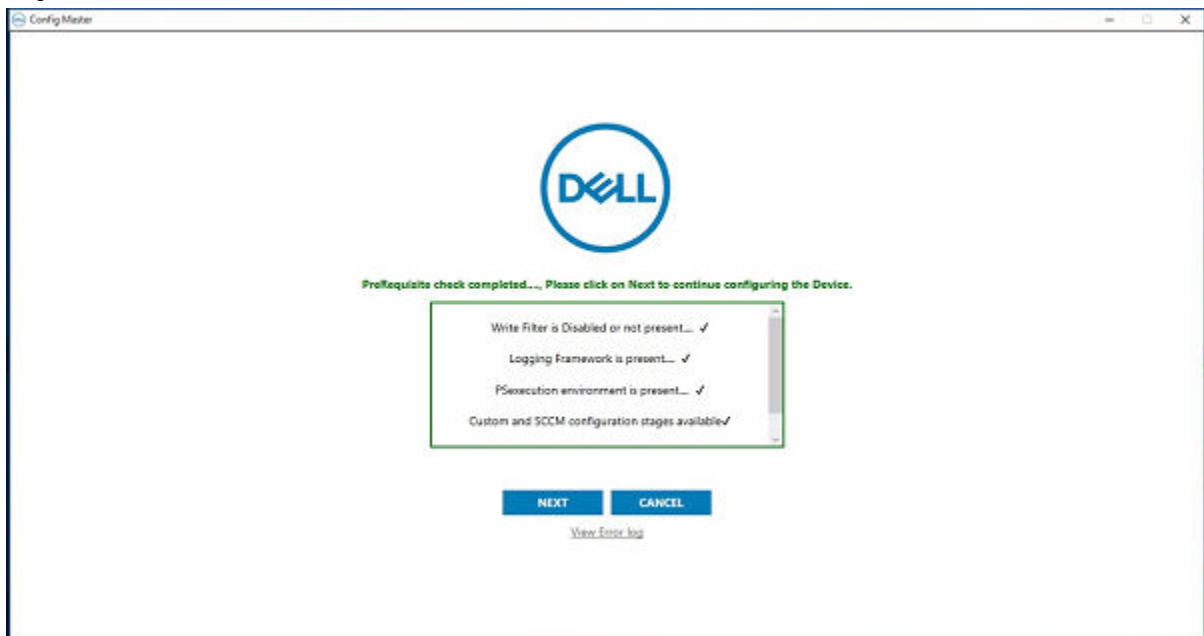


Figure 1. Config Master

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

The screenshot shows a configuration window with the following sections:

- Configurations:** Two radio buttons are present: **Custom configuration** (selected) and **SCCM configuration**.
- Host Name calculation:** Three radio buttons are present: **Enable** (selected), **Disable**, and **Retain current settings**.
- Configure Domain options:** This section contains four text input fields:
 - User Name:** Contains the text "Test".
 - Password :** Contains nine dots (masked).
 - Domain :** Contains the text "Test.com".
 - OU :** An empty text box.
 To the right of the OU field is a checkbox labeled **Configure OU option** (which is unchecked) and a blue button labeled **Save Credentials**.
- Configure local account credentials:** A checkbox labeled **Enable local account credential changes** is checked.

At the bottom right of the window are two blue buttons: **Next** and **Cancel**.

Figure 2. 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**.
- 7 Click **OK** when prompted.
- 8 Select **Enable local account credentials changes**.
The changes that are made to the credentials are applied.
- 9 Click **Next**.
The **Credential Manager** page is displayed.

Credential Manager

Administrator User

User Name: Administrator

Enter New Password:

Confirm New Password:

Save

Apply Cancel

Figure 3. Credential Manager

- 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.

Compatibility

Support matrix

Table 1. Support matrix

Platform	Build file name	Build size	BIOS version	Memory configuration		Supported languages
				RAM size	Flash size	
Wyse 5020 thin client, Wyse 7020 thin client, and Wyse 7020 accelerated graphics thin client	BOB0_7091_16 GB.exe	9.45 GB (10,152,956,616 bytes)	2.0F	4 GB	16 GB	English (United States)
Wyse 5060 thin client	5060_7091_32 GB.exe	12.4 GB (13,323,680,836 bytes)	1.0J	4 GB\ 8 GB	32 GB	- English (United States) - German (Germany) - French (Canada) - Japanese (Japan) - Italian (Italy) - Spanish (Spain) - French (France) - Korean (Korea) - Chinese (Simplified) - Chinese (Traditional) - Portuguese (Brazil)
Wyse 7040 thin client	7040_7091_32 GB.exe	12.3 GB (13,252,033,293 bytes)	1.5.8	4 GB\ 8 GB\ 16 GB	128 GB SSD\ 256 GB SED\ 500 GB HDD	- English (United States) - German (Germany) - French (Canada) - Japanese (Japan)

Previous version

Table 2. Previous version

Build number	Platform
7065 (European Build) and 7066 (Asian Build)	Wyse 5020 thin client, Wyse 7020 thin client, and Wyse 7020 accelerated graphics thin client
7067	Wyse 5060 thin client
7081	Wyse 7040 thin client

Supported operating system

Windows Embedded Standard 7P

Device manager components and driver versions

Table 3. Device manager components and driver versions

Component name	Driver version	Supported platforms
ACPI x64-based PC	6.1.7600.16385	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Dell Wyse RAM Disk Driver	5.0.2183.4	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
USB Input Device	6.1.7601.24145	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
HID Keyboard Device	6.1.7601.23403	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Dell Wyse Flash Driver	1.0.7.6	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
HID-compliant mouse	6.1.7600.16385	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Generic plug and play Monitor	6.1.7601.23403	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Windows RAM Disk Controller	6.1.7600.16385	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Microsoft ACPI-Compliant System	6.1.7601.24056	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client

Component name	Driver version	Supported platforms
Microsoft System Management BIOS Driver	6.1.7601.24056	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Microsoft Virtual Drive Enumerator Driver	6.1.7601.24056	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Numeric data processor	6.1.7601.24056	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Plug and Play Software Device Enumerator	6.1.7601.24056	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Programmable interrupt controller	6.1.7601.24056	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Remote Desktop Device Redirector Bus	6.1.7600.16385	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
System CMOS/real time clock	6.1.7601.24056	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
System timer	6.1.7601.24056	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
UMBus Enumerator	6.1.7601.23403	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
UMBus Root Bus Enumerator	6.1.7601.23403	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
USB Composite Device	6.1.7601.24138	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Intel® Wireless Bluetooth®	20.60.0.4	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, and Wyse 5060 thin client
Microsoft Bluetooth Enumerator	6.1.7601.23403	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, and Wyse 5060 thin client
AMD SATA Controller	1.2.1.402	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, and Wyse 5060 thin client
Bluetooth Device (Personal Area Network)	6.1.7601.23863	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, and Wyse 5060 thin client
Bluetooth Device (RFCOMM Protocol TDI)	6.1.7600.16385	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, and Wyse 5060 thin client

Component name	Driver version	Supported platforms
Microsoft Virtual Wi-Fi Miniport Adapter	6.1.7600.16385	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, and Wyse 5060 thin client
Microsoft Virtual Wi-Fi Miniport Adapter #2	6.1.7600.16385	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, and Wyse 5060 thin client
Speakers (Realtek High Definition Audio)	6.0.1.8397	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, and Wyse 5060 thin client
Standard Enhanced PCI to USB Host Controller	6.1.7601.24138	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, and Wyse 5060 thin client
USB Root Hub	6.1.7601.24138	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, and Wyse 5060 thin client
Realtek PCIe GBE Family Controller	7.101.714.2016	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, and Wyse 5060 thin client
16 GB SATA Flash drive SATA Disk Device	6.1.7601.23403	Wyse 5020 thin client, Wyse 7020 thin client, and Wyse 7020 accelerated graphics thin client
32 GB SATA Flash drive SATA Disk Device	6.1.7601.23403	Wyse 5060 thin client
ST500LM 21-1KJ152 SCSI Disk Device	6.1.7601.23403	Wyse 7040 thin client
Intel® Dual Band Wireless-AC 7260	18.33.13.4	Wyse 5020 thin client, Wyse 7020 thin client, and Wyse 7020 accelerated graphics thin client
	19.10.11.2	Wyse 5060 thin client
AMD Radeon E6460	15.201.2401.0	Wyse 5020 thin client and Wyse 7020 accelerated graphics thin client
AMD Radeon™ HD 8330E	15.201.2401.0	Wyse 5020 thin client and Wyse 7020 accelerated graphics thin client
AMD Radeon™ HD 8400E	15.201.2401.0	Wyse 7020 thin client
HID-compliant control device	6.1.7600.16385	Wyse 5020 thin client and Wyse 7020 accelerated graphics thin client
HID-compliant device	6.1.7600.16385	Wyse 5020 thin client and Wyse 7020 accelerated graphics thin client
Realtek PCIe GBE Family Controller	7.612.1231.2015	Wyse 7040 thin client
Speakers (AMD High Definition audio device)	7.12.0.7723	Wyse 5020 thin client, Wyse 7020 thin client, and Wyse 7020 accelerated graphics thin client
	6.1.7601.23403	Wyse 5060 thin client
PCI bus	6.1.7601.24056	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, and Wyse 7040 thin client
	17.10.0.0	Wyse 5060 thin client
System speaker	6.1.7601.24056	Wyse 5020 thin client, Wyse 7020 thin client, and Wyse 7020 accelerated graphics thin client

Component name	Driver version	Supported platforms
	6.1.7601.23403	Wyse 5060 thin client
AMD USB 2.0 Hub	1.1.0.85	Wyse 5020 thin client, Wyse 7020 thin client, and Wyse 7020 accelerated graphics thin client
AMD USB 3.0 Host Controller	1.1.0.249	
AMD USB 3.0 Root Hub		
Standard OpenHCD USB Host Controller	6.1.7601.24138	Wyse 5020 thin client, Wyse 7020 thin client, and Wyse 7020 accelerated graphics thin client
AMD GX-415GA SOC with Radeon™ HD Graphics	6.1.7601.24291	Wyse 5020 thin client and Wyse 7020 accelerated graphics thin client
AMD GX-420CA SOC with Radeon™ HD Graphics	6.1.7601.24291	Wyse 7020 thin client
AMD GX-424CC SOC with Radeon™ R5E Graphics	6.1.7601.24291	Wyse 5060 thin client
Intel® HD Graphics 530	20.19.15.4531	Wyse 7040 thin client
Intel® Ethernet Connection (2) 1219-LM	12.15.25.6	Wyse 7040 thin client
Intel® Active Management Technology -SOL (COM3)	11.6.0.1009	Wyse 7040 thin client
Intel® Core™ i5-6500TE CPU @2.30GHz	6.1.7601.24291	Wyse 7040 thin client
Trusted Platform Module 1.2	6.1.7601.23403	Wyse 7040 thin client
Intel Chipset SATA RAID Controller	14.8.1.1043	Wyse 7040 thin client
Composite Bus Enumerator	6.1.7601.17514	Wyse 7040 thin client
High Definition Audio Controller	6.1.7601.23403	Wyse 7040 thin client
High precision event timer	6.1.7601.24056	Wyse 7040 thin client
Intel® 100 Series/C230 Series Chipset Family LPC Controller - A146	10.1.1.9	Wyse 7040 thin client
Intel® 100 Series/C230 Series Chipset Family PCI Express Root Port #8 - A117	10.1.1.9	Wyse 7040 thin client
Intel® 100 Series/C230 Series Chipset PMC - A121	10.1.1.9	Wyse 7040 thin client
Intel® 100 Series/C230 Series Chipset SMBus - A123	10.1.1.9	Wyse 7040 thin client
Intel® 100 Series/C230 Series Chipset Thermal subsystem - A131	10.1.1.9	Wyse 7040 thin client
Intel® 82802 Firmware Hub Device	6.1.7601.24056	Wyse 7040 thin client
Intel® Management Engine Interface	11.7.0.1045	Wyse 7040 thin client
Intel® Xeon® E3 - 1200/1500 v5/6th Gen Intel® Core™ PCIe Controller (x16) - 1901	10.1.1.9	Wyse 7040 thin client
PCI standard host CPU bridge	6.1.7601.24056	Wyse 7040 thin client
Intel® USB 3.0 Extensible Host Controller	4.0.6.60	Wyse 7040 thin client

Component name	Driver version	Supported platforms
Intel® USB 3.0 Root Hub	4.0.6.60	Wyse 7040 thin client
USB 2.0 Hub	4.0.6.60	Wyse 7040 thin client

Application, feature, and file details

Table 4. Application, feature, and file details

Name	Driver Version and compatibility
Remote Desktop Connection (RDC)	Shell Version—6.3.9600 Control Version—6.3.9600 Network Level Authentication is supported. Remote Desktop Protocol 8.1 is supported
Citrix Receiver 4.12 (Standard)	14.12.0.18020 Citrix Online Plugin - 14.12.0.18020 (In Client Application, Programs and Features)
Ericom PowerTerm InterConnect for thin clients	12.0—version displayed in Programs and features and Client Application
SCCM client	5.00.8412.1307—version displayed in Configuration manager
Windows Media Player	12.0.7601.23930—version displayed in the application 12.0.7601.23517—version displayed in Installed Products
Internet Explorer	11.0.9600.18860—version displayed in the application 11.00.9600.16428—version displayed in Installed Products
Tight VNC	2.6.4.0—version displayed in Client Information .
Ericom Connect Client	7.6—version displayed in Programs and features and Client Application
.NET Framework	4.7.2
WDA	14.3.0.66
BitLocker with TPM	Version 1.2 and 2.0 are supported.
Microsoft Management Console	Management Console 3.0 Version 1607—Build 14393.2214
Microsoft Silverlight	5.1.50907.0
Build_Master.exe	1.0.0.12
DirectX	11
DellThinClientApplication.exe	10.0.0.25
File-based write filter manager - fbwfmgr.exe	1.0.1533.0
FBWF system tray UI - FBWFTray.exe	1.0.2.4
FBWF Service - FBWFSvc.exe	1.0.2.3
FBWF_On_Off.exe	1.0.0.3

Name	Driver Version and compatibility
NetXClean.exe	3.0.0.8
Disk_Size.exe	3.0.0.5
Dell Open printer driver	1.91.7882.0
Dell CAPS Lock indicator application	2.1.11.1
CAD MAP Application	2.3.0.4
DWKbFilter.sys	
DWKbFilterMon.exe	
DWKbFilterWatchdog.exe	2.2.0.4
Wyse Easy Setup	1.1.0.4379
Hagent.exe	14.3.0.66
HAgent_UI.exe	14.3.0.66
NetXClean.exe	3.0.0.8
NumLock_Toggle.exe	1.0.0.4
NumLockTrigger.exe	1.0.0.5
TimeZonePreservation.exe	1.0.0.4
OSActive.exe	1.0.0.4
PnPApp.exe	1.0.0.15
RAMDisk.exe	1.0.0.7
Wfacss.exe	2.0.0.11
Windows Multi touch	Supported
Background Intelligent Transfer Service (BITS)	Supported
MSXML	Supported
XML Paper Specification (XPS)	Supported
Credential Roaming	Supported
WPA2	Supported
CredSSP	Supported
Dell Wyse Wallpaper on All Users	Supported
Network Access Protection	Not Supported

Installed product details

Table 5. Installed product details

Product Name	Publisher	Version	Supported platforms
Citrix Receiver 4.12	Citrix Systems, Inc.	14.12.0.18020	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics

Product Name	Publisher	Version	Supported platforms
			thin client, Wyse 5060 thin client, and Wyse 7040 thin client
vWorkspace Connector for Windows	Dell, Inc.	8.6.309.4062	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Citrix HDX RealTime Media Engine 2.5	Citrix Systems, Inc.	2.5.0.1521	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Ericom Connect Client	Ericom Software	7.6	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Dell KM632 Wireless Keyboard Caps Lock Indicator	Dell	2.1.11.1	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Microsoft Visual C++ 2017 Redistributable (x86) - 14.12.25810	Microsoft Corporation	14.12.25810.0	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Microsoft Visual C++ 2013 Redistributable (x64) - 12.0.21005	Microsoft Corporation	12.0.21005.1	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Microsoft Visual C++ 2008 Redistributable (x86) 9.0.30729.6161	Microsoft Corporation	9.0.30729.6161	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Dell Open Print Driver	Dell Inc.	1.91.7882.0	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Microsoft Visual C++ 2013 Redistributable (x86) - 12.0.21005	Microsoft Corporation	12.0.21005.1	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Microsoft Visual C++ 2017 Redistributable (x64) - 14.12.25810	Microsoft Corporation	14.12.25810.0	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
VMware Horizon Client	VMware, Inc.	4.9.0.2862	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Ericom PowerTerm InterConnect for Thin Clients	Ericom Software	12	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client

Product Name	Publisher	Version	Supported platforms
Microsoft Visual C++ 2008 Redistributable (x64) 9.0.30729.6161	Microsoft Corporation	9.0.30729.6161	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Microsoft Silverlight	Microsoft Corporation	5.1.50907.0	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Microsoft .NET Framework 4.7.2	Microsoft Corporation	4.7.03062	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Microsoft Visual C++ 2005 Redistributable (x64)	Microsoft Corporation	8.0.61000	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Wyse Device Agent	Dell Inc.	14.3.0.66	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
TightVNC	GlavSoft LLC.	2.6.4.0	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
File-based write filter manager	Microsoft Corporation	1.0.1533.0	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Internet Explorer	Microsoft Corporation	11.00.9600.16428	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
IIS Manager	Microsoft Corporation	7.5.7600.16385	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
IIS Admin Program	Microsoft Corporation	7.5.7600.16385	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Windows Media Player	Microsoft Corporation	12.0.7601.23517	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Remote Desktop Connection	Microsoft Corporation	6.3.9600.16415	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Snipping Tool	Microsoft Corporation	6.1.7600.16385	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client

Product Name	Publisher	Version	Supported platforms
Tablet PC Input Panel Accessory	Microsoft Corporation	6.1.7601.23403	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
PrintTicket Translation Database	ThinPrint GmbH	11.0.229.2	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
ThinPrint Viewture	ThinPrint GmbH	11.22.2.3	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Microsoft (R) Contacts Import Tool	Microsoft Corporation	6.1.7600.16385	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Windows Media Center	Microsoft Corporation	6.1.7600.16385	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, Wyse 5060 thin client, and Wyse 7040 thin client
Microsoft Visual C++ 2012 Redistributable (x64) - 11.0.50727	Microsoft Corporation	11.0.50727.1	Wyse 5020 thin client, Wyse 7020 thin client, and Wyse 7020 accelerated graphics thin client
Microsoft Visual C++ 2012 Redistributable (x86) - 11.0.50727	Microsoft Corporation	11.0.50727.1	Wyse 5020 thin client, Wyse 7020 thin client, and Wyse 7020 accelerated graphics thin client
AMD Catalyst Install Manager	Advanced Micro Devices, Inc.	8.0.916.0	Wyse 5020 thin client, Wyse 7020 thin client, and Wyse 7020 accelerated graphics thin client
Intel® PROSet/Wireless Software	Intel Corporation	20.80.1	Wyse 5020 thin client, Wyse 7020 thin client, and Wyse 7020 accelerated graphics thin client
Microsoft Lync Vdi 2013	Microsoft Corporation	15.0.4420.1017	Wyse 5020 thin client, Wyse 7020 thin client, and Wyse 7020 accelerated graphics thin client
Realtek Ethernet Controller Driver	Realtek	7.101.714.2016	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, and Wyse 5060 thin client
Realtek High Definition Audio Driver	Realtek Semiconductor Corp.	6.0.1.8397	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, and Wyse 5060 thin client
Intel(R) Wireless Bluetooth(R)	Intel Corporation	20.60.0	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 7020 accelerated graphics thin client, and Wyse 5060 thin client
Intel® PROSet/Wireless Software	Intel Corporation	20.40.1	Wyse 5060 thin client
Microsoft Lync Vdi 2013	Microsoft Corporation	15.0.4569.1506	Wyse 5060 thin client and Wyse 7040 thin client

Used and free space details

Table 6. Used and free space details

Platform	Flash size	Used space	Free space
Wyse 5020 thin client	16 GB	11.8 GB	2.97 GB
Wyse 7020 thin client			2.99 GB
Wyse 7020 accelerated graphics thin client			2.97 GB
Wyse 5060 thin client	32 GB	15.8 GB	13.3 GB
Wyse 7040 thin client	128 GB SSD	15.5 GB	103 GB
	256 GB SED	15.6 GB	222 GB
	500 GB HDD	15.5 GB	449 GB

Fixed issues

Table 7. Fixed issues

Issue ID	Description
WS-2383	Fixed an issue where a warning message is displayed when the file-based write filter is disabled.
WS-2382	Fixed an issue where the WDA agent did not report Custom Fields to Wyse Management Suites from thin clients running Windows 10 IoT Enterprise operating system.
WS-2381	Enabled CTRL+ALT+DEL tool to allow Win+L to lock session such as Citrix and VMware sessions.
WS-2380	Fixed an issue where Microsoft recommended that updates were not included in version 9.08 of Wyse 7020 accelerated graphics thin client—Build number 7066.
WS-2379	Fixed an issue where an error was observed while uninstalling Citrix HDX Real Time Multimedia Engine version 2.2 on Wyse 5020 thin client—Build number 7066.

Known issues

Table 8. Known issues

Issue ID	Description	Workaround
WS-2417	Unable to connect to a network using Dell SFP module after you pull an image from the management server.	There is no workaround in this release.
WS-2415	Low Memory issue is observed when two or more RDP, ICA, or VMware Horizon View sessions are connected.	There is no workaround in this release.

Important notes

Tested peripherals

Monitors

- Dell P2317H
- Dell E2318H
- Dell P2417H
- Dell P2415Q
- Dell P2717H
- Dell U2419HC
- Dell U2719D
- Dell U2415
- Dell P2418HT
- Dell U3011
- Dell UP3017
- Dell P4317Q
- Dell P2219H
- Dell P2016
- Dell P2419H
- Dell E2216H
- Dell P1914SF
- Dell P2214H
- Dell 195FP
- Dell P2213
- Dell U2718Q

Keyboard and mouse

- Dell USB Keyboard
- Logitech K380 Bluetooth keyboard
- Dell KM 636 keyboard
- Dell USB mouse MS111P
- MS116P mouse
- WM 514 mouse
- WM636 mouse
- Logitech M337 Bluetooth mouse

Speakers

- Dell 2.0 Speaker (AE215)
- Dell AC511 USB Sound Bar
- Dell ENC060
- Dell AX 210

Pen Drive

- Kingston 16 GB USB 3.0
- SanDisk Ultra 32 GB USB 3.0
- SanDisk Ultra USB 3.0 128 GB
- SanDisk 32 GB USB 2.0

Headphones

- Microsoft LifeChat LX-6000
- Jabra Quade Headset
- Plantronics C420 Headset
- Plantronics DA60

Webcam

- Logitech C930E

Printer

- Dell C2660dn
- HP Officejet 150 Mobile All-in-One Bluetooth printer
- HP LaserJet Pro MFP M435nw

Smartcard

- Microsoft USB CCID Smartcard Reader

Quick Fix Engineering—QFE details

Table 9. Quick Fix Engineering

KB number	Description
KB2841134	Update for Windows Embedded Standard 7P
KB2670838	Update for Windows Embedded Standard 7P
KB2830477	Update for Windows Embedded Standard 7P
KB2592687	Update for Windows Embedded Standard 7P
KB2819745	Update for Windows Embedded Standard 7P
KB2534366	Update for Windows Embedded Standard 7P
KB2545698	Update for Windows Embedded Standard 7P
KB2547666	Update for Windows Embedded Standard 7P
KB2818604	Update for Windows Embedded Standard 7P
KB2919469	Update for Windows Embedded Standard 7P
KB2999226	Update for Windows Embedded Standard 7P
KB3050265	Update for Windows Embedded Standard 7P
KB3083324	Update for Windows Embedded Standard 7P
KB3102429	Update for Windows Embedded Standard 7P
KB3112343	Update for Windows Embedded Standard 7P
KB3125574	Update for Windows Embedded Standard 7P
KB3135445	Update for Windows Embedded Standard 7P
KB3138612	Update for Windows Embedded Standard 7P
KB3148851	Update for Windows Embedded Standard 7P
KB3179573	Update for Windows Embedded Standard 7P
KB4040980	Update for Windows Embedded Standard 7P
KB4468323	Update for Windows Embedded Standard 7P
KB2654644	Update for Windows Embedded Standard 7P
KB2496898	Hotfix for Windows Embedded Standard 7P
KB2679255	Hotfix for Windows Embedded Standard 7P
KB2639308	Hotfix for Windows Embedded Standard 7P
KB3006137	Hotfix for Windows Embedded Standard 7P
KB947821	Hotfix for Windows Embedded Standard 7P
KB2644615	Security Update for Windows Embedded Standard 7P
KB2698365	Security Update for Windows Embedded Standard 7P

KB number	Description
KB2724197	Security Update for Windows Embedded Standard 7P
KB2813170	Security Update for Windows Embedded Standard 7P
KB2862973	Security Update for Windows Embedded Standard 7P
KB2894844	Security Update for Windows Embedded Standard 7P
KB2556532	Security Update for Windows Embedded Standard 7P
KB2984972	Security Update for Windows Embedded Standard 7P
KB3059317	Security Update for Windows Embedded Standard 7P
KB3123479	Security Update for Windows Embedded Standard 7P
KB3142042	Security Update for Windows Embedded Standard 7P
KB3146706	Security Update for Windows Embedded Standard 7P
KB3149090	Security Update for Windows Embedded Standard 7P
KB3156016	Security Update for Windows Embedded Standard 7P
KB3161949	Security Update for Windows Embedded Standard 7P
KB4457145	Security Update for Windows Embedded Standard 7P
KB4462915	Security Update for Windows Embedded Standard 7P
KB4463376	Security Update for Windows Embedded Standard 7P
KB4467107	Security Update for Windows Embedded Standard 7P
KB976932	Security Update for Windows Embedded Standard 7P
KB2685747	Security Update for Windows Embedded Standard 7P
KB2685811	Security Update for Windows Embedded Standard 7P
KB2685813	Security Update for Windows Embedded Standard 7P
KB2729094	Security Update for Windows Embedded Standard 7P
KB2750841	Security Update for Windows Embedded Standard 7P
KB2574819	Security Update for Windows Embedded Standard 7P
KB2598845	Security Update for Windows Embedded Standard 7P
KB2661254	Security Update for Windows Embedded Standard 7P
KB2834140	Security Update for Windows Embedded Standard 7P
KB2970228	Security Update for Windows Embedded Standard 7P
KB3021917	Security Update for Windows Embedded Standard 7P
KB3075851	Security Update for Windows Embedded Standard 7P
KB3083710	Security Update for Windows Embedded Standard 7P
KB3102810	Security Update for Windows Embedded Standard 7P
KB3118401	Security Update for Windows Embedded Standard 7P
KB3133977	Security Update for Windows Embedded Standard 7P
KB3138378	Security Update for Windows Embedded Standard 7P
KB3140245	Security Update for Windows Embedded Standard 7P
KB3161102	Security Update for Windows Embedded Standard 7P

KB number	Description
KB4019990	Security Update for Windows Embedded Standard 7P
KB4344152	Security Update for Windows Embedded Standard 7P
KB976902	Security Update for Windows Embedded Standard 7P
KB2761217	Security Update for Windows Embedded Standard 7P
KB2502664	Security Update for Windows Embedded Standard 7P
KB2570814	Security Update for Windows Embedded Standard 7P
KB3020369	Security Update for Windows Embedded Standard 7P
KB2676562	Security Update for Windows Embedded Standard 7P
KB2709715	Security Update for Windows Embedded Standard 7P
KB2799494	Security Update for Windows Embedded Standard 7P
KB2813347	Security Update for Windows Embedded Standard 7P
KB2884256	Security Update for Windows Embedded Standard 7P
KB2900986	Security Update for Windows Embedded Standard 7P
KB2667402	Security Update for Windows Embedded Standard 7P
KB3046269	Service Pack for Windows Embedded Standard 7P
KB3163245	Security Update for Windows Embedded Standard 7P—for Wyse 5060 and Wyse 7040 thin client
KB4466536	Security Update for Windows Embedded Standard 7P—for Wyse 5020, Wyse 7020, Wyse 7020 accelerated graphics, and Wyse 7040 thin client

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.