

Microsoft Windows Embedded Standard 7 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 7 operating system:

- Wyse 3030 thin client
- Wyse 5020 thin client
- Wyse 7020 thin client
- Wyse 5010 thin client
- Wyse 7010 thin client
- Wyse 7010 Extended thin client

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

Topics:

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

Version

7092

Release date

April 2019

Priority and recommendations

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

New and enhanced features

- Updated Citrix Receiver to version 4.12.
- Updated Citrix HDX RealTime Media Engine to version 2.5.
- Updated Wyse Device Agent (WDA) to version 14.3.0.66.
- Updated VMware Horizon Client to version 4.10.
- Updated Microsoft Silverlight to version 5.1.30514.0.
- Updated Realtek Audio driver to version 6.0.1.8397.
- Updated Dell KM632 Wireless Keyboard Caps Lock Indicator to version 2.1.11.1 to address the unquoted service path vulnerability.
- Updated the wallpaper.
- Updated the File Based Write Filter tray utility (FBWFTTray.exe) to version 1.0.2.4.
- Updated Dell Thin Client Application to version 10.0.0.25.
- Updated Microsoft .NET framework to version 4.7.2.
- Integrated Sysprep UI version 1.0.0.12.
- Updated Intel Graphics driver to version 10.18.10.5059 for Wyse 3030 thin client.
- Updated Boot Agent to version 3.7.7.
- Updated the BIOS to version 2.0F for Wyse 5020 thin client and Wyse 7020 thin client.
- Updated the BIOS to version 3.0U for Wyse 5010 thin client, Wyse 7010 thin client, and Wyse 7010 Extended thin client.
- Updated the Intel Bluetooth driver to version 20.60.0.
- Updated the Intel Wireless driver to version 20.80.1.
- Installed Wyse Easy Setup version 1.1.0.4379 on Wyse 5020 thin client and Wyse 7020 thin client.
- Updated QFEs until December 2018.

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

You can use the Custom Sysprep option to pull an operating system image. It uses the Windows Sysprep tool and it helps in the installation of Dell Wyse applications and settings. The operating system can be configured either according to the requirement of a customer or OEM specifications. Custom Sysprep UI assists you to configure Dell Wyse thin clients. Your inputs on the UI are saved as configuration files (.xml) and is used for the Custom Sysprep process.

NOTE: You can use the SCCM option to pull an operating system image through System Center Configuration Manager (SCCM). It uses the Windows Sysprep tool to pull the image through SCCM. The operating system can be configured either according to the requirement of a customer or OEM specifications. Sysprep UI with SCCM configuration assists you to configure Dell Wyse thin clients that are required as prerequisites for the operating system capture process through SCCM. Your inputs on the UI are saved as configuration files (.xml) and is used for the configuration manager 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 16 GB.

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

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.

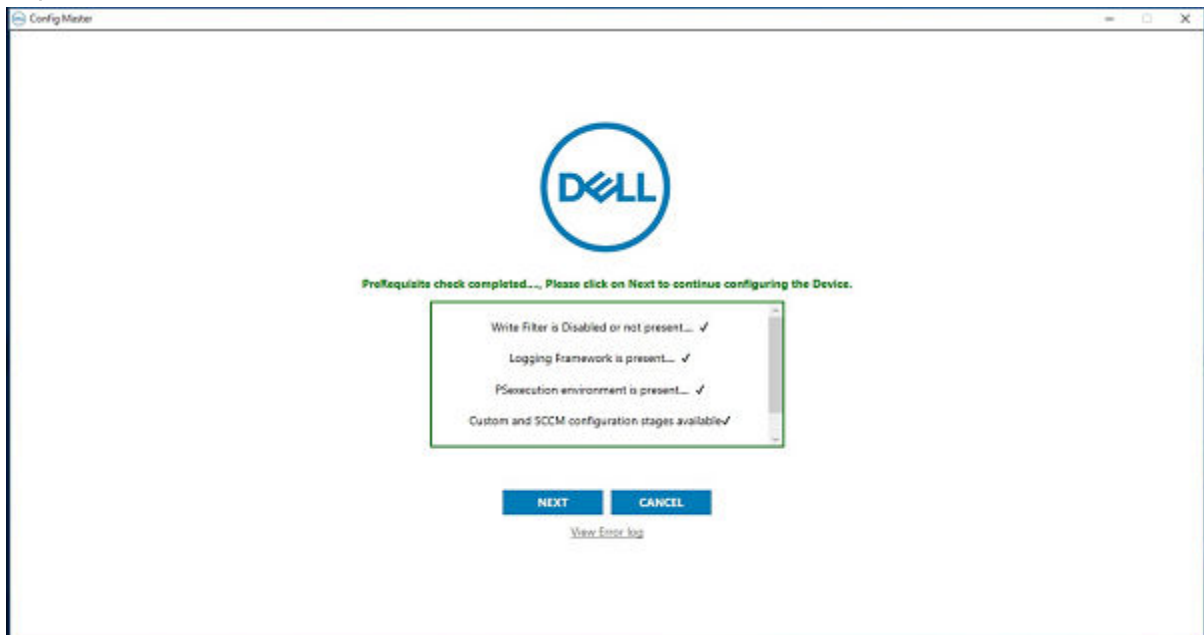


Figure 1. Config Master

- 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 credential 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 and Wyse 7020 thin client	BOB0_7092_16GB.exe	9.44 GB (10,137,304,277 bytes)	2.0F	4 GB	16 GB	- English (United States) - German (Germany) - French (France) - French (Canada) - Italian (Italy) - Spanish (Spain) - Japanese (Japan) - Korean (Korea) - Chinese (Simplified) - Chinese (Traditional) - Portuguese (Brazil)
Wyse 5010 thin client	BDB0_7092_16GB.exe	9.08 GB (9,760,655,268 bytes)	3.0U			
Wyse 3030 thin client	BEB0_7092_16GB.exe	9.99 GB (10,728,966,943 bytes)	1.0R			
Wyse 7010 thin client and Wyse 7010 Extended thin client	BZB0_7092_16GB.exe	9.75 GB (10,471,774,619 bytes)	3.0U			

Previous version

Table 2. Previous version

Build number	Platform
7064	Wyse 5020 thin client, Wyse 7020 thin client, Wyse 5010 thin client, Wyse 7010 thin client, and Wyse 7010 Extended thin client
7077	Wyse 3030 thin client

Device Manager components and driver versions

Table 3. Driver versions that support all platforms

Name	Driver version
Intel Wireless Bluetooth	20.60.0.4
Microsoft Bluetooth Enumerator	6.1.7601.17889
ACPI x86-based PC	6.1.7600.16385
Dell Wyse Ramdisk Driver	5.0.2183.5
16 GB SATA Flash Drive SATA Disk Device	6.1.7601.19133

Name	Driver version
USB Input Device	6.1.7601.24145
HID Keyboard Device	6.1.7601.17583
Dell Wyse Flash Driver	1.0.6.4
HID-compliant mouse	6.1.7600.16385
Generic PnP Monitor	6.1.7600.16385
Bluetooth Device (Personal Area Network)	6.1.7601.23863
Bluetooth Device (RFCOMM Protocol TDI)	6.1.7600.16385
Microsoft Virtual WiFi Miniport Adapter	6.1.7600.16385
Windows RAM Disk Controller	6.1.7600.16385
Realtek High Definition Audio	6.0.1.8397
ACPI Fixed Feature Button	6.1.7601.24056
ACPI Power Button	6.1.7601.24056
Composite Bus Enumerator	6.1.7601.17514
Generic Bus	6.1.7601.24056
High Definition Audio Controller	6.1.7601.17514
Microsoft ACPI-Compliant System	6.1.7601.24056
Microsoft System Management BIOS Driver	6.1.7601.24056
Microsoft Virtual Drive Enumerator Driver	6.1.7601.24056
Numeric data processor	6.1.7601.24056
Plug and Play Software Device Enumerator	6.1.7601.24056
Programmable interrupt controller	6.1.7601.24056
Remote Desktop Device Redirector Bus	6.1.7600.16385
System CMOS/real time clock	6.1.7601.24056
System speaker	6.1.7601.24056
System timer	6.1.7601.24056
UMBus Enumerator	6.1.7601.17514
UMBus Root Bus Enumerator	6.1.7601.17514
USB Composite Device	6.1.7601.24138
USB Root Hub	6.1.7601.24138
Intel Dual Band Wireless-AC 7260	18.33.13.4
Intel Dual Band Wireless-AC 8265	19.10.13.1

Table 4. Driver versions that support only Wyse 7010 thin client, Wyse 7010 Extended thin client, Wyse 5020 thin client, and Wyse 7020 thin client

Name	Driver version
Standard Enhanced PCI to USB Host Controller	6.1.7601.24138
Standard OpenHCD USB Host Controller	6.1.7601.24138

Name	Driver version
PCI Express standard Root Port	6.1.7601.24056
PCI standard host CPU bridge	6.1.7601.24056
PCI standard ISA bridge	6.1.7601.24056
Direct memory access controller	6.1.7601.24056
Realtek PCIe GBE Family Controller	7.101.714.2016
AMD SATA Controller	1.2.1.376

Table 5. Driver versions that support only Wyse 5020 thin client and 7020 thin client

Name	Driver version
AMD USB 3.0 host Controller	1.1.0.185
AMD USB 3.0 host Root Hub	1.1.0.185
Generic USB Hub	6.1.7601.24138
PCI bus	6.1.7601.24056
AMD SMBus	5.12.0.31
AMD High Definition Audio Device	7.12.0.7723

Table 6. Driver versions that support only Wyse 7010 thin client and Wyse 7010 Extended thin client

Name	Driver version
AMD Radeon HD 6320 Graphics	14.502.1001.1001
Qualcomm Atheros AR938x Wireless Network Adapter	10.0.0.326
AMD G-T56N Processor	6.1.7601.24260
ACPI Fan	6.1.7601.24056
ACPI Thermal Zone	6.1.7601.24056
ATI I/O Communications Processor PCI Bus Controller	6.1.7601.24056
ATI I/O Communications Processor SMBus Controller	6.1.7601.24056
Pci Bus	14.50.0.0
Renesas Electronics USB 3.0 Host Controller	2.1.39.0
AMD High Definition Audio Device	7.12.0.7719
Renesas Electronics USB 3.0 Root Hub	2.1.39.0

Table 7. Driver versions that support only Wyse 5010 thin client and Wyse 3030 thin client

Name	Driver version
HID-compliant consumer control device	6.1.7600.16385
HID-compliant device	6.1.7601.24145
ACPI Fan	6.1.7601.24056
ACPI Thermal Zone	6.1.7601.24056

Name	Driver version
Generic Bus	6.1.7601.24056

Table 8. Driver versions that support only the Wyse 5010 thin client

Name	Driver version
AMD Radeon HD 6250 Graphics	14.502.1001.1001
AMD SATA Controller	1.2.1.376
Qualcomm Atheros AR938x Wireless Network Adapter	10.0.0.326
Realtek PCIe GBE Family Controller	7.101.714.2016
AMD G-T48E Processors	6.1.7601.24260
AMD High Definition Audio Device	7.12.0.7719
ATI I/O Communications Processor PCI Bus Controller	6.1.7601.24056
ATI I/O Communications Processor SMBus Controller	6.1.7601.24056
Pci Bus	14.50.0.0
PCI Express standard Root Port	6.1.7601.24056
PCI standard host CPU bridge	6.1.7601.24056
PCI standard ISA bridge	6.1.7601.24056
Generic USB Hub	6.1.7601.24138
Standard Enhanced PCI to USB Host Controller	6.1.7601.24138
Standard OpenHCD USB Host Controller	6.1.7601.24138
Direct memory access controller	6.1.7601.24056

Table 9. Driver versions that support only the Wyse 3030 thin client

Name	Driver version
Intel HD Graphics	10.18.10.5059
ATA Channel 0	6.1.7601.18231
Standard AHCI 1.0 Serial ATA Controller	6.1.7601.18231
Intel Dual Band Wireless-AC 7260	18.33.13.4
Inventec PCIe GBE Family Controller	7.611.627.2014
Communications Port (COM1)	6.1.7600.16385
Intel Celeron CPU N2807 @ 1.58 GHz	6.1.7601.24231
Intel Celeron CPU N2807 @ 1.58 GHz	6.1.7601.24231
ACPI Sleep Button	6.1.7601.24056
High precision event timer	6.1.7601.24056
Intel 82802 Firmware Hub Device	6.1.7601.24056
PCI bus	4.0.6.60
Intel USB 3.0 eXtensible Host Controller	4.0.6.60
Intel USB 3.0 Root Hub	4.0.6.60

Name	Driver version
USB 2.0 Hub	4.0.6.60
USB Hub	4.0.6.60

Table 10. Driver versions that support only the Wyse 7010 thin client

Name	Driver version
Renesas Electronics USB 2.0 Hub	2.1.39.0
Renesas Electronics USB Hub	2.1.39.0

Table 11. Driver versions that support only the Wyse 7010 Extended thin client

Name	Driver version
Generic USB Hub	6.1.7601.24138

Table 12. Driver versions that support only the Wyse 5020 thin client

Name	Driver version
AMD GX-415GA SOC with Radeon HD Graphics	6.1.7601.24231
AMD Radeon HD 8330E	15.201.2401.0

Table 13. Driver versions that support only the Wyse 7020 thin client

Name	Driver version
AMD Radeon HD 8400E	15.201.2401.0
HID-compliant consumer control device	6.1.7600.16385
HID-compliant device	6.1.7601.24145
AMD GX-420CA SOC with Radeon HD Graphics	6.1.7601.24231

Application, feature, and file details

Table 14. Application, feature, and file details

Name	Driver Version and compatibility
Remote Desktop Connection (RDC)	6.3.9600 Remote Desktop Protocol 8.1 is supported.
Ericom PowerTerm InterConnect for Thin Clients	12.0—version that is displayed in Client Application and Programs and Features .
SCCM client	5.00.8412.1307—version that is displayed in Configuration manager .
Windows Media Player	12.0.7601.23930—version that is displayed in the application. 12.0.7601.23517—version that is displayed in the Installed Products .

Name	Driver Version and compatibility
Internet Explorer	11.0.9600.19230—version that is displayed in the application. 11.00.9600.16428—version that is displayed in the Installed Products .
Tight VNC	2.6.4.0—version that is displayed in Client Information .
Ericom Connect Client	7.6—version that is displayed in Programs and features and Client Application .
Microsoft .NET Framework 4.7.2	4.7.03062
WDA	14.3.0.66
Microsoft Management Console	Management Console 3.0 Version 6.1—Build 7601
Microsoft Silverlight	5.1.30514.0
Master.exe	1.0.0.12
DirectX	11
DellThinClientApplication.exe	10.0.0.25—version that is displayed in C:\Programs Files \ClientInformation .
File-based write filter manager - fbwfmgr.exe	1.0.0299.0—product version 1.0.299.0—file version
File Based Write Filter tray utility- FBWFTray.exe	1.0.2.4
FBWF Service - FBWFSvc.exe	1.0.2.3
FBWF_On_Off.exe	1.0.0.3
NetXClean.exe	3.0.0.8
Disk_Size.exe	3.0.0.6—version that is displayed in C:\Windows\Setup\Tools .
Dell Open printer driver	1.91.7882.0
Dell KM632 Wireless Keyboard Caps Lock Indicator	2.1.11.1
DWKbFilter.sys	2.3.0.3
DWKbFilterMon.exe	2.2.0.4
DWKbFilterWatchdog.exe	2.2.0.4
Wyse Easy Setup	11.0.4379—supported only on Wyse 5020 and 7020 thin clients.
Hagent.exe	14.3.0.66
HAgent_UI.exe	14.3.0.66
NumLock_Toggle.exe	1.0.0.4
NumLockTrigger.exe	1.0.0.4
TimeZonePreservation.exe	1.0.0.4
OSActive.exe	1.0.0.4
PnPApp.exe	1.0.0.14
RAMDisk.exe	1.0.0.7
Wfacss.exe	1.0.1.3
Background Intelligent Transfer Service (BITS)	Supported

Name	Driver Version and compatibility
MSXML	Supported
XML Paper Specification (XPS)	Supported
Credential Roaming	Supported
WPA2	Supported
CredSSP	Supported
Dell Wyse Wallpaper on All Users	Supported
Network Access Protection	Supported
Windows Multi touch	Not Supported

Installed product details

Table 15. Installed products that are common on all platforms

Product Name	Publisher	Version
Citrix Receiver 4.12	Citrix Systems, Inc.	14.12.0.18020
Microsoft Lync Vdi 2013	Microsoft Corporation	15.0.4569.1506
vWorkspace Connector for Windows	Dell, Inc.	8.6.309.4062
Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.4148	Microsoft Corporation	9.0.30729.4148
Citrix HDX RealTime Media Engine 2.5	Citrix Systems, Inc.	2.5.0.1521
Ericom Connect Client	Ericom Software	7.6
Dell KM632 Wireless Keyboard Caps Lock Indicator	Dell	2.1.11.1
VMware Horizon Client	VMware, Inc.	4.10.0.4272—version that is displayed in Client Application and Programs and Features . 4.10.0—version that is displayed in the VMware Horizon Client window.
Microsoft Visual C++ 2005 Redistributable	Microsoft Corporation	8.0.61001
Microsoft Silverlight	Microsoft Corporation	5.1.30514.0
Microsoft .NET Framework 4.7.2	Microsoft Corporation	4.7.03062
Wyse Device Agent	Dell Inc.	14.3.0.66
Dell Open Print Driver	Dell Inc.	1.91.7882.0
Microsoft Visual C++ 2013 Redistributable (x86) - 12.0.21005	Microsoft Corporation	12.0.21005.1
Ericom PowerTerm InterConnect for Thin Clients	Ericom Software	12
Realtek High Definition Audio Driver	Realtek Semiconductor Corp.	6.0.1.8397
Microsoft Connection Manager Administration Kit	Microsoft Corporation	7.02.7600.16385
File-based write filter manager	Microsoft Corporation	1.0.0299.0

Product Name	Publisher	Version
Internet Explorer	Microsoft Corporation	11.00.9600.16428
IIS Manager	Microsoft Corporation	7.5.7600.16385
IIS Admin Program	Microsoft Corporation	7.5.7600.16385
Windows Media Player	Microsoft Corporation	12.0.7601.23517
Remote Desktop Connection	Microsoft Corporation	6.3.9600.16415
TightVNC	GlavSoft LLC.	2.6.4.0
PrintTicket Translation Database	ThinPrint GmbH	11.0.229.1
ThinPrint Viewture	ThinPrint GmbH	11.26.1.1
Microsoft Contacts Import Tool	Microsoft Corporation	6.1.7600.16385

Table 16. Installed products on Wyse 7010 thin client, Wyse 7010 Extended thin client, Wyse 5020 thin client, Wyse 7020 thin client, and Wyse 5010 thin client

Product Name	Publisher	Version
Microsoft Visual C++ 2012 Redistributable (x86) - 11.0.50727	Microsoft Corporation	11.0.50727.1
AMD Catalyst Install Manager	Advanced Micro Devices, Inc.	8.0.916.0
Realtek Ethernet Controller Driver	Realtek	7.101.714.2016

Table 17. Installed products on Wyse 7010 thin client and Wyse 7010 Extended thin client

Product Name	Publisher	Version
Renesas Electronics USB 3.0 Host Controller Driver	Renesas Electronics Corporation	2.1.39.0
USB CCID Smartcard Reader - Version 1.2.1.2	USB CCID	3.0.0.1

Table 18. Installed products on the Wyse 3030 thin client

Product Name	Publisher	Version
Microsoft Visual C++ 2012 Redistributable (x86) - 11.0.61030	Microsoft Corporation	11.0.61030.0
Microsoft Visual C++ 2005 Redistributable	Microsoft Corporation	8.0.61001
Microsoft Visual C++ 2017 Redistributable (x86) - 14.15.26706	Microsoft Corporation	14.15.26706.0
Intel Processor Graphics	Intel Corporation	10.18.10.5059

Table 19. Installed products on the Wyse 5010 thin client

Product Name	Publisher	Version
Microsoft Lync Vdi 2013	Microsoft Corporation	15.0.4420.1017
Microsoft Visual C++ 2017 Redistributable (x86) - 14.12.25810	Microsoft Corporation	14.12.25810.0

Table 20. Installed products on the Wyse 7020 thin client

Product Name	Publisher	Version
Microsoft Visual C++ 2017 Redistributable (x86) - 14.14.26429	Microsoft Corporation	14.14.26429.4
Intel PROSet/Wireless Software	Intel Corporation	20.80.1
Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.6161	Microsoft Corporation	9.0.30729.6161

Table 21. Installed products on the Wyse 5020 thin client

Product Name	Publisher	Version
Microsoft Visual C++ 2017 Redistributable (x86) - 14.14.26429	Microsoft Corporation	14.14.26429.4
Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.6161	Microsoft Corporation	9.0.30729.6161

Table 22. Installed products on the Wyse 7010 thin client

Product Name	Publisher	Version
Microsoft Visual C++ 2017 Redistributable (x86) - 14.12.25810	Microsoft Corporation	14.12.25810.0

Table 23. Installed products on the Wyse 7010 Extended thin client

Product Name	Publisher	Version
Microsoft Visual C++ 2017 Redistributable (x86) - 14.14.26429	Microsoft Corporation	14.14.26429.4

Used and free space details

Table 24. Used and free space details

Platform	Flash size	Used space	Free space
Wyse 5010 Thin Client	16 GB	11.1 GB	3.70 GB
Wyse 7010 Thin Client			3.71 GB
Wyse 7010 Extended Thin Client		11.9 GB	2.98 GB
Wyse 3030 Thin Client		11.5 GB	3.37 GB
Wyse 5020 Thin Client		11.6 GB	3.23 GB
Wyse 7020 Thin Client			3.25 GB

Fixed issues

- WS-2399—Fixed the issue where a warning message is displayed when the file-based write filter is disabled.
- WS-2401—Fixed the issue where Wyse Management Suite does not report custom fields from thin clients.

Known issues

Table 25. Known issues

Issue ID	Description	Workaround
WS-2329	The error RDP has stopped working is displayed occasionally.	Click Close Program and restart Remote Desktop Connection .
WS-2367	PAD imaging does not initiate in the client until HAgent service is restarted.	Restart the HAgent service on the client to initiate PAD imaging on the peer thin client.
WS-854	Files are not received from Client B to Client A using Bluetooth.	Enable Windows Search service to resolve this issue.
WS-2460	When multiple VDI sections are launched and the thin client is idle, an FBWF Low memory message is displayed.	There is no workaround in this release.
WS-2476	BIOS version is not updated after USB imaging.	Use USB Imaging Tool 2.1.4 to resolve this issue.
WS-2466	Network may be disabled in the taskbar when a newly imaged client is idle for 20 minutes to 30 minutes.	Log off and log in to enable network.

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 drives

- 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

Printers

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

Webcam

- Logitech C930E

Smart card

- Microsoft Usbccid Smartcard Reader

Quick Fix Engineering—QFE details

Table 26. QFEs installed on all platforms

KB number		Description
KB2841134	KB2820331	Update for Microsoft Windows Embedded Standard 7
KB2841134	KB2834140	Update for Microsoft Windows Embedded Standard 7
KB2841134	KB2843630	Update for Microsoft Windows Embedded Standard 7
KB2841134	KB2852386	Update for Microsoft Windows Embedded Standard 7
KB2841134	KB2853952	Update for Microsoft Windows Embedded Standard 7
KB2841134	KB2857650	Update for Microsoft Windows Embedded Standard 7
KB2841134	KB2859502	Update for Microsoft Windows Embedded Standard 7
KB2841134	KB2891804	Update for Microsoft Windows Embedded Standard 7
KB2841134	KB2893519	Update for Microsoft Windows Embedded Standard 7
KB2841134	KB2908783	Update for Microsoft Windows Embedded Standard 7
KB2670838	KB2918077	Update for Microsoft Windows Embedded Standard 7
KB2830477	KB2919469	Update for Microsoft Windows Embedded Standard 7
KB2592687	KB2923545	Update for Microsoft Windows Embedded Standard 7
KB2819745	KB2970228	Update for Microsoft Windows Embedded Standard 7
KB2487305	KB2985461	Update for Microsoft Windows Embedded Standard 7
KB2515325	KB2999226	Update for Microsoft Windows Embedded Standard 7
KB2534366	KB3006121	Update for Microsoft Windows Embedded Standard 7
KB2545698	KB3020369	Update for Microsoft Windows Embedded Standard 7
KB2547666	KB3021917	Update for Microsoft Windows Embedded Standard 7
KB2552343	KB3054476	Update for Microsoft Windows Embedded Standard 7
KB2563227	KB3068708	Update for Microsoft Windows Embedded Standard 7
KB2574819	KB3075851	Update for Microsoft Windows Embedded Standard 7
KB2640148	KB3080149	Update for Microsoft Windows Embedded Standard 7
KB2660075	KB3083324	Update for Microsoft Windows Embedded Standard 7
KB2661254	KB3083710	Update for Microsoft Windows Embedded Standard 7
KB2685747	KB3102429	Update for Microsoft Windows Embedded Standard 7
KB2685811	KB3102810	Update for Microsoft Windows Embedded Standard 7
KB2685813	KB3107998	Update for Microsoft Windows Embedded Standard 7
KB2719857	KB3112343	Update for Microsoft Windows Embedded Standard 7
KB2726535	KB3118401	Update for Microsoft Windows Embedded Standard 7

KB number		Description
KB2729094	KB3135445	Update for Microsoft Windows Embedded Standard 7
KB2732487	KB3137061	Update for Microsoft Windows Embedded Standard 7
KB2750841	KB3138612	Update for Microsoft Windows Embedded Standard 7
KB2761217	KB3140245	Update for Microsoft Windows Embedded Standard 7
KB2763523	KB3147071	Update for Microsoft Windows Embedded Standard 7
KB2786081	KB3148851	Update for Microsoft Windows Embedded Standard 7
KB2800095	KB3179573	Update for Microsoft Windows Embedded Standard 7
KB2808679	KB4019990	Update for Microsoft Windows Embedded Standard 7
KB2818604	KB976902	Update for Microsoft Windows Embedded Standard 7
KB976932		Service Pack for Microsoft Windows Embedded Standard 7
KB2506212	KB3023215	Security Update for Microsoft Windows Embedded Standard 7
KB2556532	KB3030377	Security Update for Microsoft Windows Embedded Standard 7
KB2560656	KB3032655	Security Update for Microsoft Windows Embedded Standard 7
KB2564958	KB3035126	Security Update for Microsoft Windows Embedded Standard 7
KB2604115	KB3037574	Security Update for Microsoft Windows Embedded Standard 7
KB2620704	KB3045685	Security Update for Microsoft Windows Embedded Standard 7
KB2621440	KB3046017	Security Update for Microsoft Windows Embedded Standard 7
KB2633171	KB3046269	Security Update for Microsoft Windows Embedded Standard 7
KB2644615	KB3055642	Security Update for Microsoft Windows Embedded Standard 7
KB2654428	KB3059317	Security Update for Microsoft Windows Embedded Standard 7
KB2667402	KB3060716	Security Update for Microsoft Windows Embedded Standard 7
KB2676562	KB3061518	Security Update for Microsoft Windows Embedded Standard 7
KB2690533	KB3067903	Security Update for Microsoft Windows Embedded Standard 7
KB2698365	KB3071756	Security Update for Microsoft Windows Embedded Standard 7
KB2705219	KB3072305	Security Update for Microsoft Windows Embedded Standard 7
KB2716513	KB3074543	Security Update for Microsoft Windows Embedded Standard 7
KB2719033	KB3075226	Security Update for Microsoft Windows Embedded Standard 7
KB2724197	KB3075516	Security Update for Microsoft Windows Embedded Standard 7
KB2736422	KB3078071	Security Update for Microsoft Windows Embedded Standard 7
KB2742599	KB3078601	Security Update for Microsoft Windows Embedded Standard 7
KB2770660	KB3086255	Security Update for Microsoft Windows Embedded Standard 7
KB2799494	KB3097989	Security Update for Microsoft Windows Embedded Standard 7
KB2807986	KB3108371	Security Update for Microsoft Windows Embedded Standard 7
KB2813170	KB3108664	Security Update for Microsoft Windows Embedded Standard 7
KB2813347	KB3109103	Security Update for Microsoft Windows Embedded Standard 7
KB2813430	KB3109560	Security Update for Microsoft Windows Embedded Standard 7
KB2840631	KB3110329	Security Update for Microsoft Windows Embedded Standard 7

KB number		Description
KB2861698	KB3122648	Security Update for Microsoft Windows Embedded Standard 7
KB2862152	KB3123479	Security Update for Microsoft Windows Embedded Standard 7
KB2862335	KB3124275	Security Update for Microsoft Windows Embedded Standard 7
KB2862973	KB3127220	Security Update for Microsoft Windows Embedded Standard 7
KB2864202	KB3138910	Security Update for Microsoft Windows Embedded Standard 7
KB2868038	KB3139914	Security Update for Microsoft Windows Embedded Standard 7
KB2871997	KB3142024	Security Update for Microsoft Windows Embedded Standard 7
KB2884256	KB3142042	Security Update for Microsoft Windows Embedded Standard 7
KB2892074	KB3145739	Security Update for Microsoft Windows Embedded Standard 7
KB2893294	KB3146706	Security Update for Microsoft Windows Embedded Standard 7
KB2894844	KB3146963	Security Update for Microsoft Windows Embedded Standard 7
KB2909210	KB3149090	Security Update for Microsoft Windows Embedded Standard 7
KB2911501	KB3156016	Security Update for Microsoft Windows Embedded Standard 7
KB2912390	KB3159398	Security Update for Microsoft Windows Embedded Standard 7
KB2929437	KB3161949	Security Update for Microsoft Windows Embedded Standard 7
KB2931356	KB3163245	Security Update for Microsoft Windows Embedded Standard 7
KB2937610	KB3192391	Security Update for Microsoft Windows Embedded Standard 7
KB2943357	KB4012204	Security Update for Microsoft Windows Embedded Standard 7
KB2961851	KB4012212	Security Update for Microsoft Windows Embedded Standard 7
KB2963950	KB4014661	Security Update for Microsoft Windows Embedded Standard 7
KB2963952	KB4015546	Security Update for Microsoft Windows Embedded Standard 7
KB2968294	KB4019263	Security Update for Microsoft Windows Embedded Standard 7
KB2972100	KB4025337	Security Update for Microsoft Windows Embedded Standard 7
KB2972211	KB4034679	Security Update for Microsoft Windows Embedded Standard 7
KB2973112	KB4038779	Security Update for Microsoft Windows Embedded Standard 7
KB2973201	KB4054521	Security Update for Microsoft Windows Embedded Standard 7
KB2977292	KB4074587	Security Update for Microsoft Windows Embedded Standard 7
KB2978120	KB4093108	Security Update for Microsoft Windows Embedded Standard 7
KB2984972	KB4103712	Security Update for Microsoft Windows Embedded Standard 7
KB2991963	KB4284867	Security Update for Microsoft Windows Embedded Standard 7
KB2992611	KB4338823	Security Update for Microsoft Windows Embedded Standard 7
KB3000483	KB4343205	Security Update for Microsoft Windows Embedded Standard 7
KB3010788	KB4343899	Security Update for Microsoft Windows Embedded Standard 7
KB3011780	KB4457145	Security Update for Microsoft Windows Embedded Standard 7
KB3020388	KB4457426	Security Update for Microsoft Windows Embedded Standard 7
KB3021674	KB4483187	Security Update for Microsoft Windows Embedded Standard 7
KB3022777		Security Update for Microsoft Windows Embedded Standard 7

KB number		Description
KB2496898	KB2654269	Hotfix for Microsoft Windows Embedded Standard 7
KB2502664	KB2679255	Hotfix for Microsoft Windows Embedded Standard 7
KB2526967	KB3006137	Hotfix for Microsoft Windows Embedded Standard 7
KB2570814	KB947821	Hotfix for Microsoft Windows Embedded Standard 7
KB2639308		Hotfix for Microsoft Windows Embedded Standard 7

Table 27. QFEs installed only on Wyse 3030 thin client, Wyse 5020 thin client, and Wyse 7020 thin client

KB Number	Description
KB3003743	Security Update for Microsoft Windows Embedded Standard 7
KB3135983	Security Update for Microsoft Windows Embedded Standard 7
KB3188740	Update for Microsoft Windows Embedded Standard 7
KB4457144	Security Update for Microsoft Windows Embedded Standard 7
KB3139398	Security Update for Microsoft Windows Embedded Standard 7

Table 28. QFEs installed only on Wyse 7010 thin client and Wyse 7010 Extended thin client

KB Number	Description
KB4462915	Security Update for Microsoft Windows Embedded Standard 7
KB4462949	Security Update for Microsoft Windows Embedded Standard 7
KB4483187	Security Update for Microsoft Windows Embedded Standard 7
KB4344177	Security Update for Microsoft Windows Embedded Standard 7
KB4457044	Update for Microsoft Windows Embedded Standard 7
KB4457055	Security Update for Microsoft Windows Embedded Standard 7
KB4040966	Security Update for Microsoft Windows Embedded Standard 7
KB4040980	Update for Microsoft Windows Embedded Standard 7
KB4041678	Security Update for Microsoft Windows Embedded Standard 7
KB4048960	Security Update for Microsoft Windows Embedded Standard 7
KB4022722	Security Update for Microsoft Windows Embedded Standard 7
KB4014579	Security Update for Microsoft Windows Embedded Standard 7
KB3177467	Security Update for Microsoft Windows Embedded Standard 7

Table 29. QFEs installed only on Wyse 5010 thin client

KB Number	Description
KB4344177	Security Update for Microsoft Windows Embedded Standard 7
KB4457044	Update for Microsoft Windows Embedded Standard 7
KB4457055	Security Update for Microsoft Windows Embedded Standard 7
KB4040966	Security Update for Microsoft Windows Embedded Standard 7
KB4040980	Update for Microsoft Windows Embedded Standard 7

KB Number	Description
KB4041678	Security Update for Microsoft Windows Embedded Standard 7
KB4048960	Security Update for Microsoft Windows Embedded Standard 7
KB4022722	Security Update for Microsoft Windows Embedded Standard 7
KB4014579	Security Update for Microsoft Windows Embedded Standard 7
KB3177467	Security Update for Microsoft Windows Embedded Standard 7

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**.

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