Dell Wyse Windows 10 IoT Enterprise for Wyse 5060 Unified Build
Release Notes

Software releases are created to correct defects, make enhancements, or add new features. These releases are tested on all current, actively shipping platforms and operating systems as applicable. This release notes contain details on the supported platforms, any changes in the configuration settings and licensing details as well. The bug fixes along with the workarounds are documented in the release notes. Any changes in the feature functionality from an end-user perspective are listed with the description of each feature at a high level.

Release Date: 2017-05-31

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Release type and definition

This device is installed with Windows 10 IoT Enterprise —WIE10 v12.00 64–bit that supports Wyse 5060 thin client. This Windows version is based on Windows 10 Enterprise 2016 LTSB which is also called Redstone1—RS1 release.

This build can be pushed 64 GB flash and above, with 8 GB RAM.

This release supports WIE10 v12.00 unified build 0A52 for the Ransomware WannaCrypt susceptibility.

WannaCrypt, also known as WannaCry, targets out-of-date Windows systems. This release build contains valid WIE10 security updates— KB4016635 , to protect your system from the ransomware WannaCrypt susceptibility.

The WIE10 v12.00 unified build 0A52 supports English—en-US and the following 10 languages:

- German—de-DE
- French France—fr-FR

- French Canada—fr-CA
- Italian—it-IT
- Spanish—es-ES
- Japanese—ja-JP
- Korean—ko-KR
- Chinese Simplified—zh-CN
- Chinese traditional—zh-TW
- Brazilian Portuguese—pt-BR

New features

The following are the new features delivered in this release are:

Unified build

This build supports English (en-US), and 10 MUI languages—fr-FR, es-ES, de-DE, it-IT, fr-CA, ja-JP, ko-KR, zh-CN, zh-TW, pt-BR.

Threat Defense

Dell Data Protection | Threat Defense (powered by Cylance) detects and blocks malware before it can affect your computer. Cylance uses a mathematical approach for malware identification, using machine learning techniques instead of reactive signatures, trust-based systems, or sandboxes. Cylance's approach renders new malware, viruses, and future variants useless. Dell Data Protection | Threat Defense analyzes potential file executions for malware in the operating system. Threat Defense Agent version is 2.0.1422.6

Threat Defense is an add-on available for purchase.

General features

This section contains general features of Wyse 5060 thin client running WIE10 OS.

Hardware support information

- Rich 4K display capability.
- Option for 802.11 a/b/g/n/ac wireless.
- AMD Steppe Eagle Quad Core 2.4 GHz CPU.
- Support for video adapters (DP to DVI, DP to VGA).
- Dynamic Throttling for higher performance.

Menu driven custom/ConfigMgr sysprep

- Supports Menu driven custom/ConfigMgr sysprep where you can select the particular option.
- Shrinking of disk information available during sysprep that reduces the image pull or push time in larger disks and shrinking should be done from diskmgmt console.

New versions of connection brokers

- VMware Horizon client : v4.3.0.4209

- Citrix Receiver : v14.6.0.12010
- Ericom WebConnect : v7.5.1

Out-of-Box driver install

All the respective device drivers have been pre-installed in the OS as compared to the legacy approach wherein there are pre-staged drivers.

Newer Dell wallpapers

Wyse wallpapers and themes are replaced with the Dell wallpapers and themes.

XML driven PowerShell scripts

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

Logging support

Logging support added for customization scripts.

Flash.sys

Hostname calculation and preservation – This option allows you to enable and disable the Hostname calculation in flash.sys.

- You can disable or enable the Hostname calculation.
- You must ensure that altering the MAC ID for a client does not perform a Hostname calculation.
- Rest of the logic and flow remains the same as older flash.sys implementation.
- If you require a Hostname calculation to perform after a change in MAC ID (NIC card change), then you must use MINWITHNET.

Event Viewer log preservation

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

Dell Thin Client Application

- Dell Thin Client Application is a replacement for Client Information Application with a new User Interface (UI).
- This application contains additional fields for accessing and configuring Custom Fields, RAM Disk, Auto Logon, CAD Map, and System Shortcuts.
- By default, the RAM Disk size is set to 512 MB.

WIE10 0A52 build behavior

Internet Explorer 11

- **Performance enhancements:** IE 11 is the quickest version of the browser yet. Microsoft has included support for web standards like CSS animations, HTML5 spell checking, and improved JavaScript performance.
- **Security enhancements:** The main security addition to IE 11 is **Enhanced Protected Mode**, which locks down parts of the Windows operating system, preventing the browser from accessing the OS.

IE Customizations:

1 First run customizations are disabled.

2 IE 11 enhanced protection mode is enabled.

3 Start page and default page set to www.dell.com/wyse.

4 IE Cookies and Cache are redirected to `Z:` RAM Disk.

5 Cache content to 250 MB.

6 Clears browsing history on IE exit.

Citrix Receiver

USB redirection always works 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 UI.

ENERGY STAR specification

This product meets the ENERGY STAR version 6.0 of the thin client requirement.

The following are the values by default, set in the **Control Panel** applet of the Power options:

- Power option when plugged-in:
  - Supports WOL Power off states.
  - Supports Idle State wake.
  - Screen off timer is set to 10 minutes.
  - Sleep timer is set to 15 minutes.

Microsoft SCCM 2016 R2 information

SCCM is supported for standard deployment of images. SCCM is used to upgrade WES7P to WIE10 on Wyse 5060 thin client with custom procedure for pulling the WIE10 image and BIOS.

For more details, see *Dell Wyse Configuration Admin Guide*.

vWorkspace

After installation of vWorkspace, install.txt file is created in **C:**.

Ctrl+Alt+Del (CAD) mapping tool

By default the build contains CAD tool, but in a disabled state.

To enable the CAD tool, do the following:

1   Log in to the system using Admin account.

2   Disable the Write Filter.

3   Launch command prompt in elevated mode.

4   Run `cd c:\windows\system32`.

5   Run `DWKBFilterMon.exe —enable` and reboot.

Fixed issues

The following table lists the fixed issues in this release:

Sl.no	Issue description
1	WIE10: Windows may not respond for 1-2 minutes when accessing the file browser or any windows Applications/settings.
2	Sysprep tool not working.
3	BitLocker protection should suspend on executing `WIE10_CustomSysprep4man.ps1`
4	WIE10 clients are not discovered in SCCM server.

Known issues

The following table lists the known defects in this release:

Table 1. Known issues

Sl.no	Issue description	Work around—if any
1	Domain login configuration during Custom Sysprep will prompt four warning messages if you click on submit without entering the details.	The functionality is not affected.
2	Admin password change during sysprep needs confirmation option.	Enhancement
3	Build Master script terminates abruptly when alphabets or special characters are entered instead of numbers while selecting the type of sysprep	The functionality is not affected.
4	WIE10 RS (zh-TW) - Run Time Commands not localized in respective language	The functionality is not affected.
5	WIE10 RS (zh-CN) - Run Time Commands not localized in respective language	The functionality is not affected.
6	WIE10 RS (ko-KR) - Run Time Commands not localized in respective language	The functionality is not affected.
7	Web camera is not redirected inside vWorkspace session.	Vworkspace EOL
8	Reports Icon in WDM WebUI to be changed	The functionality is not affected.

Sl.no	Issue description	Work around—if any
9	No capital letters are supported in Image name field (WDM 5.7.2 WebUI)	The functionality is not affected.
10	WIE10 RS (pt-BR) - Run Time Commands not localized in respective language	The functionality is not affected.
11	WIE10 RS (fr-FR) - Run Time Commands not localized in respective language	The functionality is not affected.
12	WIE10 RS (es-ES) - Run Time Commands not localized in respective language	The functionality is not affected.
13	WIE10 RS (ja-JP) - Run Time Commands not localized in respective language	The functionality is not affected.
14	WIE10 RS (it-IT) - Run Time Commands not localized in respective languages	The functionality is not affected.
15	WIE10 RS (fr-CA) - Run Time Commands not localized in respective language	The functionality is not affected.
16	WIE10 RS (de-DE) - Run Time Commands not localized in respective language	The functionality is not affected.
17	Wyse 5060 RS - In UWF, after second warning without any time delay system gets reboot	The functionality is not affected.
18	Client reboots two times without any notification on screen when clear TPM is initiated from BIOS, and TPM status remains initialized.	The functionality is not affected.
19	Item specific help does not describe about **Roll Back** option in BIOS.	The functionality is not affected.
20	Unable to configure common image in USB imaging tool.	USB Solution is under testing
21	Data wipe information is not appearing on screen when disk wipe is selected in BIOS.	The functionality is not affected.
22	PAD imaging is not working on Solano 5060–WIE10_RS.	Add-on Fix will be released
23	AMD installer update dialog appears while executing first boot scripts.	The functionality is not affected.
24	Domain join fails in first boot script when domain user password in set to `dellwyse`.	Do not use the password during custom sysprep with any character ending with d, e, l, w, y, and s
25	Auto login fails while executing first boot script if password is set to `password`.	Do not use the password during custom sysprep with any character ending with p, a, s, w ,o, r, and d

Test environment

Table 2. SFP modules details

Platform	SFP module
Dell Wyse 5060 thin client	• DELL 09DN5J –100 MBPS • DELL-0GF76J –1.0 GBPS • DELL-0J6FGD –1.0 GBPS

Build details

Table 3. General build details

Platform	Dell Wyse 5060 thin client
Product	WIE10
Build version	12.0
Build number	0A52
Localization	English, French France, German, Italian, French Canada, Spanish, Japanese, Chinese Simplified, Chinese traditional, Korean, Portuguese Brazil
WSI/Wizard compatibility	5.0.4 (build 259)
WDM	5.7.2
BA version	3.4.7
USB Imaging tool	2.1.4 (under testing)

Table 4. Platform specific build details—WDM package

Version	12.0
Build number	0A52.32GB
Build WSI Package Name	5060_0A52_32GB.exe
Build size (Bytes)	12,903,030,114
Localization	English, French France, German, Italian, French Canada, Spanish, Japanese, Chinese Simplified, Chinese traditional, Korean, Portuguese Brazil

Table 5. BIOS details

Platform	Wyse 5060 thin client
Version	1.0F
Build File Name	1.0F

Tested peripherals

Table 6. Tested peripherals

Product
Dell Pro Stereo Headset UC300
Dell USB Sound bar AC511
Dell 2.0 Speaker System AE215
Jabra Pro 935 MS Wireless headset (Mono)
Jabra Pro 930 MS Wireless headset

Product
Logitech B525HD webcam
Dell Tray Load CD/DVD player(DW316)
Dell USB Wired Keyboard - KB216
Dell USB Wired Optical Mouse - MS116
Dell USB Wired Keyboard with Smart Card reader - KB813
Dell Wireless Mouse - WM326
Dell 24 Monitor - E2417H
Dell 23 Monitor- E2316H
Dell 22 Monitor - E2216H
Dell 20 Monitor - E2016H
Dell 20 Monitor - E2016
Dell 19 Monitor - E1916H
Dell 19 Monitor - E1916HV
Dell 27 Monitor - P2717H
Dell 24 Monitor - P2417H with stand
Dell 24 Monitor - P2417H without stand
Dell 23 Monitor - P2317H
Dell 22 Monitor - P2217H with stand
Dell 22 Monitor - P2217H without stand
Dell 22 Monitor - P2217
Dell 22 Monitor - P2217 without stand
Dell 20 Monitor - P2016
Dell 19 Monitor - P1917S
Dell 24 Monitor - U2415
Dell 25 Monitor- U2515H
Dell 27 Monitor - U2717D
Dell 27 Monitor - U2717DA
Dell 43 Monitor - P4317Q
Dell 24 Monitor - MR2416
Dell 27 monitor - P2715Q 4K2K (UHD) monitor
Dell 24 Monitor - P2415Q 4K2K (UHD) monitor
Dell 30 Monitor – UP3017
Power adapter + 3 foot power cord
Dell Mono Unmanaged Printer - E515dn

Product
Dell Color Unmanaged Printer - E525w
Dell Color Managed Printer - S5840cdn
DP to HDMI converter
DP to DVI converter
DP to VGA converter

Used and free space details

Table 7. Used and free space details

Platform	Flash size	Used Space (C: Drive)	Free space
Dell Wyse 5060 thin client	64 GB	15.7 GB	43.1 GB

OS components

Table 8. Driver details

BIOS	1.0F
Display Adapter	AMD Radeon (TM) R5E Graphics —16.300.2501.0
Ethernet Adapter	Realtek PCIe GBE Family Controller - 10.16.323.2017
Audio	• AMD High Definition Audio Device — 10.0.1.0 • Realtek High Definition Audio — 6.0.1.7898
Wireless Adapter	Intel® Dual Band Wireless AC 7265 - 19.10.0.9
Bluetooth	19.1.1627.3533
USB xHCI driver	AMD USB 3.0 eXtensible Host Controller -1.0 (Microsoft) -10.0.14393.0
Dell Keyboard driver application	For KM632 and KB212-B
Wyse RAM Disk driver	5.0.2183.5 Default value is 512 MB.
Flash.sys	1.0.7.1
Dell Open Print Driver	1.91.7882.0

Common application/features/files

Table 9. Common application/features/files

Application/features/files	Version—if applicable
RDC	10.0.14393—RDP 10.2 Supported

Application/features/files	Version—if applicable
	10.0.14393.0—In Dell Thin Client Application
Citrix Receiver—Standard	4.6.0.12010—In Citrix About
	Citrix Online Plugin -14.6.0.12010—In Client Application , Programs, and Features
Citrix HDX Real Time Media Engine	2.1.200
VMware Horizon Client	4.3.0.4209—In Client Application, Programs, and Features
	4.3.0—In VMware Horizon Client about
vWorkspace client	8.6.309.4062
Ericom PowerTerm Interconnect for Thin Clients	12.0—In Client Application, Programs, and Features
SCCM client	SCCM 2016 client-5.00.8412.1307—In **control panel** > **Configuration manager**
Windows Media Player	12.0.14393—In Client Info
Internet Explorer	11.00.14393—About Internet Explorer
Adobe Flash player 21 NPAPI	21.0.0.213—programs and features
Tight VNC	2.6.4—In Client Info, About
Ericom connect web connect	7.5.1—In programs and features, and Client Application
.NET Framework	4.6.2
WDA	12.1.5.6
Bit locker with TPM	Supported
Windows Multi touch	Supported
Windows Defender with latest definition	1.239.1256.0
Microsoft Management Console	Management Console 3.0 Version 1607—OS Build 14393.5
Microsoft Silverlight	5.1.50905.0
Background Intelligent Transfer Service (BITS)	Supported
MSXML	Supported
XML Paper Specification (XPS)	Supported
Network Access Protection	Not Supported

Application/features/files	Version—if applicable
Credential Roaming	Supported
WPA2	Supported
CredSSP	Supported
Dell Wyse Wallpaper on All Users	Supported
DirectX	12
DellThinClientApplication.exe—NewClient Application	10.0.0.11
Unified Write Filter manager -Uwfmgr.exe—File Version	10.0.14393.0
UWF system tray UI – UWFTray.exe	1.0.4.6
UWF Service – UWFSvc.exe	1.0.4.6
NetXClean.exe	3.0.0.8
Disk_Size.exe	3.0.0.5—in setup
DeleteFreeSpace.exe	1.2.1.0—in setup
Custom Sysprep support in scripts	Supported
Windows Time Service	Supported
FI Core changes	Scripts changes are part of the build but not validated as per the scope of this build.
WinPing	1.0.0.5
Dell Open printer driver	1.91.7882.0
Dell CAPS Lock indicator application	2.1.10.0604
CAD MAP Application	2.3.0.1
DWKbFilter.sys	2.2.0.4
DWKbFilterMon.exe	2.2.0.4
DWKbFilterWatchdog.exe	

QFEs added in the release

Security Update
KB4016635
KB3202790