Dell Wyse 5060 Thin Client with Windows Embedded Standard 7P

Release Notes

Contents

Release Type and Definition

This Dell Wyse Enhanced Windows Embedded Standard 7 Professional (WES7P) v9.07 unified build is a 64-bit image that supports Wyse 5060 thin client platform. This product is designed to deliver high performance and support dual 4K monitors (3840 X 2160 at 30 Hz).

This is a WES7P v9.07 Unified build 7025 which supports English (en-US) and the following three MUI languages:

- German (de-DE)
- French France (FR-Fr)
- Italian (it-IT)

Release Date

December 13, 2016

Client Software Licensing and Maintenance Options

Use of this software on more than one device requires you to first purchase the additional copies of, or licenses to, the software from Dell Wyse.

New Features

The following are the new features in this release:

Unified Build

This build supports English (en-US) and three MUI languages (fr-FR, it-IT, and de-DE)

Imaging support using WDM/USB

The unified MUI build has the language meta data in the Merlin partition. Imaging the Unified MUI build brings up the unit in the same MUI language present in Merlin.

If you want to change the language, then the Unified Language selection tool `LanguageConfig.exe` can be used to write the language meta data to the Merlin partition. Reimaging the unit with the Unified MUI build brings up the unit in the desired language option selected with the tool.

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 to malware identification, using machine learning techniques instead of reactive signatures, trust-based

systems or sandboxes. Cylance's approach renders new malware, viruses, bots, and future variants useless. Dell Data Protection | Threat Defense analyzes potential file executions for malware in the Operating System (OS). The Threat Defense agent version is 1.2.1372.27.

General Features

Hardware Support Information

This release supports the following hardware:

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

Menu Driven Custom/ConfigMgr Sysprep

- Supports Menu driven Custom / ConfigMgr Sysprep where you can select the desired option.

- Shrinking of disk information available during Sysprep reduces the image pull or push time in larger disks.

New Versions of Connection Brokers

The new versions of the connection brokers that are available are:

- VMware Horizon client: 4.1.0.1487

- Citrix Receiver

Out of Box Driver Install

- All the respective device drivers are preinstalled in the OS, as compared to the legacy approach wherein there were prestaged 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 are based on .XML file input.

Logging support

- Logging support is added for customization scripts.

User Credential Details

User Account
- Account name – **User**
- Password – **DellCCCvdi**

Administrator Account
- Account name – **Administrator**
- Password – **DellCCCvdi**

TightVNC

- Password – **DELL**

BIOS

- Admin Password – **Fireport** (Configured in factory)

Flash.sys

Hostname Calculation and Preservation – Option to enable and Disable Hostname Calculation in flash.sys

1. You get an option to disable or enable Host Name Calculation.
2. Ensure that altering the MAC ID for a client does not perform a Host Name Calculation.
3. Rest of the logic and flow remains the same as older flash.sys implementation.
4. If you require a host name calculation to be performed after a change in MAC ID (NIC card change), you should use MINWITHNET.

Event Viewer log preservation

(Option to enable and disable preservation of the Event Viewer logs).

This feature allows you with an option to enable or disable event log saving while Write Filter (FBWF) is on. This decision has been made to allow you to collect event logs, if necessary, for debugging or analysis purposes.

Dell Thin Client Application

- Dell Client Application allows you to view the general information about the thin clients.
- This application contains more fields for accessing and configuring Custom Fields, RAM Disk, auto Logon, C-A-D Map Tool, and System Shortcuts.
- By default, the RAM disk size is set to 512 MB.

Tested Peripherals

Device Name
Dell USB Soundbar AC511
Dell USB Wired Keyboard – KB216
Dell USB Wired Optical Mouse – MS116
Dell USB Wired Keyboard with the Smart Card reader – KB813
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 43 Monitor – P4317Q
Dell 24 Monitor – MR2416
Dell 24 Monitor – P2415Q 4K2K (UHD) monitor
Power adapter + 3 foot power cord
Dell Mono Unmanaged Printer – E515dn
DP to HDMI converter
DP to DVI converter
DP to VGA converter

Used and free space details

Platforms	Flash Size	Used Space (C: Drive)	Free space
Wyse 5060 thin client	64 GB	14.2 GB	44.6 GB

Fixed Issues

None

Known Issues

The following table lists the known issues in this release:

Sl No.	Issue Description	Workaround (if any)
1.	Wyse 5060 thin client (WES7P) – BSOD (Error Code - 0x000000B8) occurs when you log in to Admin Mode from User Mode (periodic).	Restart the system
2.	Multiple Bluetooth devices are displayed in the System Tray (Periodical issue).	Log off, and log in again.
3.	Citrix Receiver options are not localized for Italian.	Support not available at present.
4.	VMware Client options are not localized for Italian.	Support not available at present.
5.	Wyse 5060 thin client (WES7P) de-DE and fr-FR - Run Time Commands are not localized in their respective language.	NA
6.	Video BIOS information is not displayed in advanced graphics settings.	NA

7.	Send and Receive option is not available for Bluetooth while accessing from system tray.	NA
8.	Citrix receiver icon is not available in the system tray.	NA
9.	WDM pull fails for Wyse 5060 thin clients'.	Retry to pull image.
10.	The Scheduled packages are available in the scheduled packages section in the WDM console after the image deployment is successful (periodically).	NA
11.	Not able to play the saved YouTube videos.	NA
12.	Unwanted MAC IDs appear in client application.	NA
13.	Wyse 5060 thin client: IE crashes when you play the YouTube videos.	Close IE and reopen.
14.	Server Connection Retry attempts exceed 24 attempts during the discovery process.	NA
15.	Custom Sysprep script (Build Master) execution terminates abruptly while checking for TPM status in TPM and BitLocker enabled systems (Periodical issue).	NA

16.	All installed modules are not listed in the client info.	NA
17.	An error message is observed as the device fails to install the driver software for HP Office jet 100 printer.	NA
18.	Periodically "No boot device is found" Error message is observed after pulling the image from WDM.	Reschedule the pull.
19.	Occasionally after downloading the image from USB, client is showing a message "Remove the USB and press enter to reboot" After removing the USB Pen drive (While pushing the pulled image)	NA
20.	Bash command prompt "can't access tty: Job control turned off" is observed while pulling image through WDM merlin non-pxe.	NA

- While running `WES7P_CustomSysprep4man.bat`, **Low Disk space** message appears at system tray.

- Citrix Receiver USB redirection always works for all users of the client machine with all published XenDesktops, irrespective of the setting **Simplify device connections for me** in the XenDesktop connection preferences UI.

- Copyright Information for Flash.sys, Wyse RAM Disk are displayed as Wyse or Wyse technology.

- KB2880890 (Lync KB) is displayed twice in **View installed updates** section.

Microsoft SCCM 2012 R2 Information:

- SCCM Information is not present in **Programs and features** and **Client information** because of the Microsoft design.

- Only **Configuration Manager, Control Panel Applet,** and **SMS Agent Host Service** are present.

- `SMSCFG.ini`, `clientstate.dat`, `wedmtrace.log`, `Ccmstore.sdf`, `InventoryStore.sdf`, `StateMessageStore.sdf` files, and the **Service Data** folder are included in FBWF Exclusion list.

Build Information
General Build Details

Platforms	Dell Wyse 5060 thin client
Product	WES7P English Standard Build 7025
Localization	English, French France, German and Italian
WDM	5.7.1
USB Imaging Tool	2.1.2.5

Platform Specific Build Details-WDM Package

Wyse 5060 Thin Client	
Version	9.07
Build WSI Package Name	5060_7025_32GB.exe
Build Size (Bytes)	13,254,998,603 bytes
Localization	English, French France, German and Italian
BIOS Details	
Platform	Wyse 5060 thin client
Version	1.0A
Build File Name	1.0A

Used and Free space details

Platform	Flash Size	Used Space(C: drive)	Free Space
5060	64 GB	14.2 GB	44.6 GB

Part Numbers
Image Part Numbers

Number	Description
6NN16	SWB,OS,WES7P,V9.07,B7025,UB

OS Components
Driver Details

VGA	15.201.2401.0
Ethernet/ SFP Adapter	7.101.714.2016
Realtek HD Audio	6.0.1.7541
AMD Hi Def Audio Device	7.12.0.7723
USB xHCI driver	1.1.0.185
Wyse RAMDisk Driver	5.0.2183.4
flash.sys	1.0.7.0
Dell Open Print Drivers	1.91.7882.0
Bluetooth(as seen under add/remove programs)	19.0.1601.0594
Wi-Fi	18.11.0.8

Common Applications/Features/Files

Applications/Features/Files	Version (If applicable)
RDC	6.3.9600 (RDP 8.1 Supported)
Citrix Receiver (Standard)	4.4.0.8014 (In Citrix About)
Citrix Online Plugin	14.4.0.8014 (In Client Information, Programs and Features)
Citrix HDX Real Time Media Engine	2.0.0.417
Windows Media Player	12.0.7601.18741
Internet Explorer	11.0.9600.18376
Power Term Interconnect	10.2.0.0.20140813.1
Ericom PowerTerm WebConnect	5.8.0.0
VMware Horizon View Client	4.1.0.1487
vWorkspace Connector for windows	8.6.309.4062
Configuration Manager Client	5.00.7958.1000
Adobe Flash player - ActiveX Adobe Flash player – Plugin	20.0.0.270 20.0.0.267
Tight VNC	2.6.4.0
Microsoft Lync Vdi 2013	15.0.4420.1017
.NET Framework	4.6.01055
WSUS	Supported
WDA	12.1.1.25
Microsoft Management Console	Management Console 3.0 Version 6.1(Build 7601 :SP1)
Microsoft Silverlight	5.1.30514.0
Bit locker with TPM	Supported

Windows Multi-touch	Supported
Background Intelligent Transfer Service (BITS)	Supported
Windows Defender Definition	1.227.441.0 Dated 8/23/2016
MSXML	Supported
XML Paper Specification (XPS)	Supported
Network Access Protection	Supported
Credential Roaming	Supported
WPA2	Supported
CredSSP	Supported
ConfigMgr 2012 SP1 Client	Supported
Wyse Wallpaper on All Users	Supported
Registry Filter	Supported
Windows Time Service	Supported
DirectX	11
File-based write filter manager – fbwfmgr.exe	1.0.299.0
Ntoskrnl.exe	6.1.7601.18741
ArchiveInfo.exe	1.0.0.4
ClientInformation.exe	10.0.0.9
Disk_Size.exe	3.0.0.5
CAD MAP Tool DWKbFilter.sys DWKbFilterMon.exe DWKbFilterWatchdog.exe	2.2.0.0 2.2.0.4 2.2.0.4

FBWF Service – FBWFSvc.exe	1.0.2.2
FBWF System Tray UI - FBWFTray.exe	1.0.2.2
Hagent.exe	12.1.1.25
HAgent_UI.exe	12.1.1.25
Wyse Device Agent	12.1.1.25
NetXClean.exe	3.0.0.7
NumLock_Toggle.exe	1.0.0.4
NumLockTrigger.exe	1.0.0.5
TimeZonePreservation.exe	1.0.0.4
Wfacss.exe	1.0.1.3
WindowsEmbeddedTest.exe (equivalent to WES7Test.exe)	Not Applicable
Winlog.exe	Part of Client Info
WinPing.exe	Not Applicable
Winterm.dll	2.0.0.9
Xwfile.exe	1.0.0.5
Sysprep4man scripts	Build_Master.cmd

QFEs Added in the Release

Security Updates

Updates		Security Update		
KB2841134	KB3040272	KB2479943	KB2972211	KB3138962
KB2670838	KB3054476	KB2506212	KB2973112	KB3139914
KB2830477	KB3075851	KB2509553	KB2973201	KB3139929
KB2592687	KB3078667	KB2511455	KB2973351	KB3139940
KB2819745	KB3083324	KB2544893	KB2977292	KB3142024
KB2487305	KB3083710	KB2556532	KB2978120	KB3142042
KB2492386	KB3092627	KB2560656	KB2978742	KB3145739
KB2515325	KB3102429	KB2564958	KB2984972	KB3146706
KB2534366	KB3102810	KB2579686	KB2992611	KB3146963
KB2545698	KB3107998	KB2585542	KB3000483	KB3148198
KB2547666	KB3112343	KB2604115	KB3003743	KB3149090
KB2552343	KB3118401	KB2620704	KB3004361	KB3150220
KB2563227	KB3121255	KB2621440	KB3010788	KB3153171
KB2574819	KB3133977	KB2631813	KB3011780	KB3153199
KB2598845	KB3135445	KB2644615	KB3021674	KB3154070
KB2640148	KB3137061	KB2654428	KB3022777	KB3155178
KB2660075	KB3138378	KB2667402	KB3023215	KB3156013
KB2661254	KB3138612	KB2676562	KB3030377	KB3156016
KB2685747	KB3138901	KB2690533	KB3033889	KB3156017
KB2685811	KB3139923	KB2698365	KB3033929	KB3156019
KB2685813	KB3141092	KB2705219	KB3035126	KB3159398

KB2718704	KB3147071	KB2706045	KB3037574	KB3160005
KB2719857	KB3148851	KB2709715	KB3042553	KB3161561
KB2726535	KB3153731	KB2716513	KB3045685	KB3161664
KB2729094	KB3156417	KB2719033	KB3046017	KB3161949
KB2732487	KB3162835	KB2724197	KB3046269	KB3161958
KB2750841	KB3170735	KB2727528	KB3055642	KB3163245
KB2761217	KB976902	KB2736422	KB3059317	KB3164033
KB2763523	**Hotfixes**	KB2742599	KB3067903	KB3164035
KB2786081	KB2496898	KB2770660	KB3072305	KB3168965
KB2791765	KB2502664	KB2799494	KB3074543	KB3170106
KB2799926	KB2526967	KB2807986	KB3076949	KB3170455
KB2800095	KB2570814	KB2813170	KB3078601	KB3139398
KB2808679	KB2639308	KB2813347	KB3084135	
KB2818604	KB2647753	KB2813430	KB3086255	
KB2834140	KB2679255	KB2840631	KB3092601	
KB2843630	KB2872035	KB2847927	KB3093513	
KB2852386	KB3006137	KB2861698	KB3097989	
KB2853952	KB947821	KB2862152	KB3101722	
KB2857650		KB2862335	KB3108371	
KB2859502		KB2862973	KB3108381	
KB2868116		KB2864202	KB3108664	
KB2882822		KB2868038	KB3108670	
KB2891804		KB2871997	KB3109094	
KB2893519		KB2884256	KB3109103	
KB2908783		KB2892074	KB3109560	

KB2913431		KB2893294	KB3110329	
KB2913751		KB2894844	KB3121461	
KB2918077		KB2898785	KB3122648	
KB2919469		KB2900986	KB3123479	
KB2929733		KB2911501	KB3124275	
KB2970228		KB2931356	KB3124280	
KB2980245		KB2937610	KB3126587	
KB2985461		KB2943357	KB3127220	
KB2999226		KB2957189	KB3134814	
KB3006121		KB2965788	KB3135983	
KB3021917		KB2968294	KB3138910	