



Dell Wyse WES7P for Latitude E7270 Mobile Thin Client

Release Notes

New releases are created to support new hardware platforms, correct defects, make enhancements, or add new features. These releases are tested and supported on current, actively shipping hardware platforms, and those hardware platforms that are within their first year after their official End-of-Life date, as applicable. After the one year time period, new software releases are no longer certified for use with the earlier version of the hardware, even though it is possible that they may still work. This allows us to advance our product with features and functions that might not have been supported by the previous hardware, with previous generation CPUs and supporting components.

Release Date: 2016-12-13

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Release type and definition

This WES7P v9.06 English build 7049 is a 64-bit image that supports Dell Latitude E7270 mobile thin client. The product offered through the Dell Latitude E7270 development program provides a mobile thin client offer for Dell Wyse by delivering Windows Embedded 7P (64-bit) on selected enterprise-class Dell Latitude models.

This build can be pushed on 128 GB SSD with 8 GB RAM.

General features

Hardware support information

This release supports the following hardware:

- Intel i5 processor
- M2 slot based SSD and SATA based SSD options
- 8 GB RAM options
- Intel RAPID Storage support
- Intel HD Graphics support with HDMI and DP
- LTE and Smartcard support
- SD card support

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.

New versions of connection brokers

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

- VMware Horizon client: 4.0.1.781
- Citrix Receiver: 14.4.0.8014
- vWorkspace Connector: 8.6.309.4062

XML driven PowerShell scripts

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

Logging support

Logging support is added for customization scripts.



User credential details

The following tables list the credential details:

Table 1. Administrator account

Account name	Password
Administrator	DellCCCvdi

Table 2. User account

Account name	Password
User	DellCCCvdi

Table 3. TightVNC

Password
DELL

WES7P 7049 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 : .
- 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 XenDesktops, 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 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.
- **Power Options for Battery:**
 - Supports WOL Power off states.
 - Supports Idle State wake.
 - Screen off timer is set to two minutes.
 - Sleep timer is set to five minutes.

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 **ServiceData** folder are included in FBWF Exclusion list.
- For more details, see *Dell SCCM Administrators Guide*.

vWorkspace

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

CAD 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.

WDA

Dell Wyse Device Agent (WDA) is a unified agent for all thin client management solutions. Installing the WDA on a Windows thin client makes it manageable by Dell Wyse Device Manager (WDM).

WDA 2.0 release supports the following features on WDM for Windows Embedded Standard 7P 64-bit platform:

Table 4. Features

Feature	WDM 5.7 and higher versions
Discovery Methods (HTTPS)	Yes
Package Push	Yes
Image Push	Yes
OS Image Pull	Yes
BIOS Push—from Dell website	Yes
BIOS Pull	No
BIOS / OS Push as single Merlin package	No
Other functionality <ul style="list-style-type: none"> · Remote Management · Configuration Management 	Yes

NOTE:

- Device configuration (JSON Format) works only with WDM WEB UI.
- HAgent installation is not supported after WDA Agent is installed on the device.

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 Host name Calculation.
- Rest of the logic and flow remains the same as older flash.sys implementation.
- If you require a host name 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 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 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, C-A-D Map Tool, and System Shortcuts.
- By default, the RAM disk size is set to 512 MB.

Tested peripherals

The following table lists the tested peripheral devices:

Table 5. Tested peripherals

Category	Product
Audio and Multimedia	Dell Pro Stereo Headset - UC300 (Lync Certified)
Audio and Multimedia	Jabra Evolve 65 MS wireless headset (Stereo) - Office Centric
Audio and Multimedia	Dell USB SoundBar - AC511
Audio and Multimedia	Dell 2.0 Speaker System (Entry) - AX210
Audio and Multimedia	Dell 2.1 Multimedia Speaker AC411
Cables and Dongles	Dell Adapter - Mini DisplayPort to DisplayPort
Cables and Dongles	Dell DP to VGA Adapter
Cables and Dongles	Dell HDMI to DP Adapter
Cables and Dongles	Dell DVI to display port Adapter
Display	Dell 20" Monitor E2016H
Display	Dell 20" Monitor E2016HV (China only)
Display	Dell 22" Monitor E2216H
Display	Dell 22" Monitor E2216HV (China only)
Display	Dell 22" Monitor P2214H with stand
Display	Dell 22" Monitor P2214H without stand
Display	Dell 23" Monitor P2314H
Display	Dell 24" Monitor P2414H with stand
Display	Dell 24" Monitor P2414H without stand
Display	Dell UltraSharp 24" Monitors U2415 with stand
Display	Dell UltraSharp 24" Monitors U2415 without stand
Display	Dell 21.5" Medical Review Monitor MR2416
Display	Dell 24" Monitor - E2416H
Display	Dell 20" Monitor P2016
Display	Dell 22" Monitor P2217H without stand
Display	Dell 23" Monitor P2317H



Category	Product
Display	Dell 24" Monitor P2417H without stand
Input devices	Dell Wired Laser Mouse (Naruto)
Input devices	Dell MS116 USB Wired Optical Mouse
Input devices	Dell Wireless Keyboard and Mouse Combo- KM636
Input devices	Dell KB216 USB Wired Keyboard
Input devices	Dell KB522 Multimedia Keyboard
Power	Belkin 8- outlet Surge Protector with 6 feet Power Cord and Telephone Protection
Power	Dell E4 65W AC Adapter
Power	Dell Portable Power Companion (18000 mAh) - PW7015L
Power	Dell Portable Power Companion (12000 mAh) - PW7015M
Power	Dell E5 65 W AC Adapter 7.5 mm, India
Smartcard Keyboard	Dell Smartcard Keyboard - KB813
Cables and Dongles	Dell Adapter - Mini DisplayPort to VGA
Docks and Port Replicators	Dell Entry USB 3.0 dock -D1000 for Latitude E7270 mobile thin clients
Docks and Port Replicators	Dell Ultra HD USB 3.0 Docking Station - D3100 for Latitude E7270 mobile thin clients
Security devices	Dell privacy screen 12"
Security devices	Dell privacy screen 14"

Fixed issues

The following section lists the fixed issues:

Table 6. Fixed issues

Sl.no	Issue description
1	WES7P: Same IP is observed in two clients in the WDM, after pushing the pulled image.
2	Black Screen appearing in the secondary monitor connected through USB Docking station D1000 and D3100 is resolved.



Known issues

The following table lists the known defects in this release:

Table 7. Known issues

Issue description	Workaround
Upon first boot, client does not enter the Sleep Mode automatically when WDA Service is running.	This is an expected WDA functionality. After first boot, the device should be powered on continuously for 24 hours to ensure that Sleep Mode later works correctly.
IE crash is observed when you are browsing Facebook or YouTube sites, and when you scroll up and down continuously.	Use software rendering instead of GPU rendering and update the Adobe flash ActiveX to 22.0.
While pushing the pulled image through WDM, Latitude E7270 mobile thin client is not listed in the package distribution wizard.	Refresh the device after volume shrink and then Pull the Image from the client.
While running WES7P_CustomSysprep4man.bat , the Low Disk space message is displayed in system tray.	The functionality is not affected.
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.	The functionality is not affected.
Copyright Information for Flash.sys, Wyse RAM Disk are showing as Wyse/Wyse technology.	The functionality is not affected.
KB2880890 (Lync KB) is displayed twice in View installed updates section.	The functionality is not affected.

Build information

General Build Details

The following table lists the general build details:

Table 8. General build details

Platform(s)	Dell Latitude E7270 mobile thin client
Product	WES7P Latitude platform – English Standard Build
Build version	9.06
Build number	7049
Localization	English US
WSI/ Wizard compatibility	5.0.2
WDM	5.7.1
BA version	3.3.9
USB Imaging Tool version	2.1.2.7



Platform Specific Build Details — WDM Package

The following table lists the platform specific build details:

Table 9. Platform specific build details

Dell Latitude E7270 mobile thin client	
Version	9.06
Build Number	7049
Build Package Name	E7270_7049_128GB.exe
Build Size (Bytes)	9.26 GB (99518,69,186 bytes)
Localization	English US
BIOS details	
Platform	Dell Latitude E7270 mobile thin client
Version	01.12.03
Build File Name	Latitude_E7x70_01.07.03.exe
Size (Bytes)	9.04 MB (94,88,592 bytes)

Used and Free space details

Table 10. Used and Free space details

Platform	Flash\SSD Size	Used Space(C: drive)	Free Space
E7270	128 GB	11.1 GB	107 GB

Part numbers

Table 11. Image Part Numbers

Number	Description
K1VV6	SWB,OS,W7P,V9.06,B7049,E7270,EN

OS components

Following are the list of drivers, applications, features and files present in this build:

Drivers/ Files	Platforms	Comments
Display Adapter	Dell Latitude E7270 mobile thin client	Intel® HD Graphics 520, 20.19.15.4444
Ethernet Adapter	Dell Latitude E7270 mobile thin client	Intel® Ethernet connection I2I9-LM Properties 12.13.17.4
Audio	Dell Latitude E7270 mobile thin client	Intel® Display audio properties 6.16.0.3191



Drivers/ Files	Platforms	Comments
		Realtek audio properties6.0.1.6105
Wireless Adapter	Dell Latitude E7270 mobile thin client	Intel® Dual band wireless-AC 8260 #2 18.40.0.9
Bluetooth	Dell Latitude E7270 mobile thin client	Intel® Wireless Bluetooth® Properties19.0.1601.584 Microsoft Bluetooth Enumerator Properties 6.1.7601.17889
USB xHCI driver	Dell Latitude E7270 mobile thin client	Intel® USB 3.0 extensible host controller properties4.0.5.55 Intel® USB 3.0 extensible host controller properties3.0.5.69
Dell Keyboard driver application	Dell Latitude E7270 mobile thin client	For KM632 & KB212-B
Wyseramdisk.sys (Wyse RAM Disk driver)	Dell Latitude E7270 mobile thin client	5.0.2183.4. Default value would be 512MB
Flash.sys	Dell Latitude E7270 mobile thin client	1.0.6.9 Device manager:1.0.4.7 File version: 1.0.6.9
Dell Open Print	Dell Latitude E7270 mobile thin client	1.91
Chipset	Dell Latitude E7270 mobile thin client	Intel® 100 Series Chipset Family LPC Controller/eSPI Controller-9D48 10.1.1.9
Intel Rapid Storage	Dell Latitude E7270 mobile thin client	Intel 6 th Generation : core processor family platform I/O SATA AHCI controller 14.5.2.1088
Dell Touchpad	Dell Latitude E7270 mobile thin client	10.1207.101.109 - (In control panel)
Card reader	Dell Latitude E7270 mobile thin client	Broadcom Usbccid Smartcard Reader(WUDF) Properties 22.19.17.974
Docking Station	Dell Latitude E7270 mobile thin client	Docking station driver 8.0.778.0



Common applications/Features/Files

The following is the list of common applications/features and files:

Table 12. Common applications/Features/Files

Applications/Features/Files	Version (If applicable)
RDC	6.3.9600 (RDP 8.1 supported)
Citrix Receiver (Standard)	14.4.0.8014 (displayed in Programs and features)
Citrix HDX Real Time Media Engine	2.0.0.417
Windows Media Player	12.0.7601.18741 (Application) 12.0.7600.16385 (Dell Thin Client Application)
Internet Explorer	11.0.9600.16476 (Application) 11.00.9600.16428 (Dell Thin Client Application)
Power Term Web Connect Start	5.8.0
Power Term Interconnect	10.2.0.0.20140813.1
VMware Horizon Client	4.0.1.781 (In Dell Thin Client Application, Programs and Features)
Workspace Connector for Windows	8.6.309.4062
Adobe Flash Player 20 ActiveX	20.0.0.270
Adobe Flash Player 20 NPAPI	20.0.0.267
TightVNC	2.6.4.0
Microsoft Lync VDI 2013	15.0.4420.1017
.NET Framework	4.6.01055
WSUS	Supported
WDA	12.0.0.115
Microsoft Management Console	Management Console 3.0 Version 6.1 (Build 7601: Service Pack 1)
Microsoft Silverlight	5.1.30514.0
Background Intelligent Transfer Service (BITS)	Supported
Windows Multi touch	Supported
Background Intelligent Transfer Service (BITS)	Supported



Applications/Features/Files	Version (If applicable)
Windows Defender Definition	1.223.1443.0 dated 6/13/2016
MSXML	Supported
ConfigMgr 2012 R2 Client	5.00.7958.1000
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
BAAActive.exe	1.0.0.8
Dell Thin Client Application	10.0.0.9
CustomFields.exe	2.0.0.8
Disk_Size.exe	3.0.0.5
Drvmgmt.exe	1.0.2.16
C-A-D MAP Tool	2.2.0.0
DWKbFilter.sys	2.2.0.4
DWKbFilterMon.exe	2.2.0.4
DWKbFilterWatchdog.exe	2.2.0.4
FBWF_On_Off.exe	1.0.0.3
FBWF Service – FBWFSvc.exe	1.0.2.2
FBWF System Tray UI - FBWFTray.exe	1.0.2.3



Applications/Features/Files	Version (If applicable)
NetXClean.exe	3.0.0.7
NumLock_Toggle.exe	1.0.0.4
NumLockTrigger.exe	1.0.0.5
OS_HardDiskVolume.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
WDA	12.0.0.115
Winterm.dll	2.0.0.9
GetMacAddress.exe	1.0.0.1
Xwfile.exe	1.0.0.5
DisplayLink Core Software	8.0.778.0
Dell USB Graphics Software	8.0.820.0

QFEs added in the release

Table 13.

KB2841134	KB2719033	KB2894844	KB3035132
KB2670838	KB2719857	KB2898785	KB3037574
KB2830477	KB2724197	KB2900986	KB3040272
KB2592687	KB2726535	KB2908783	KB3042553
KB2819745	KB2727528	KB2911501	KB3045685
KB2479943	KB2729094	KB2913431	KB3046017
KB2487305	KB2732487	KB2913751	KB3046269
KB2492386	KB2736422	KB2918077	KB3054476
KB2496898	KB2742599	KB2919469	KB3055642



KB2502664	KB2750841	KB2928562	KB3057154
KB2506212	KB2761217	KB2929733	KB3059317
KB2509553	KB2763523	KB2931356	KB3061518
KB2511455	KB2770660	KB2937610	KB3063858
KB2515325	KB2786081	KB2943357	KB3067903
KB2526967	KB2791765	KB2957189	KB3072305
KB2534366	KB2799494	KB2965788	KB3072630
KB2536275	KB2799926	KB2968294	KB3072633
KB2544893	KB2800095	KB2970228	KB3074543
KB2545698	KB2803821	KB2972100	KB3075249
KB2547666	KB2807986	KB2972211	KB3075851
KB2552343	KB2808679	KB2973112	KB3076949
KB2556532	KB2813170	KB2973201	KB3077715
KB2560656	KB2813347	KB2973351	KB3078601
KB2563227	KB2813430	KB2976897	KB3078667
KB2564958	KB2818604	KB2977292	KB3083324
KB2570814	KB2834140	KB2978120	KB3083710
KB2574819	KB2839894	KB2978742	KB3084135
KB2579686	KB2840631	KB2980245	KB3086255
KB2585542	KB2843630	KB2984972	KB3087039
KB2598845	KB2847927	KB2985461	KB3092601
KB2604115	KB2852386	KB2992611	KB3092627
KB2619339	KB2853952	KB2999226	KB3093513
KB2620704	KB2857650	KB3000483	KB3097989
KB2621440	KB2859502	KB3003743	KB3100213
KB2631813	KB2861698	KB3006121	KB3101722
KB2639308	KB2862152	KB3010788	KB3102810
KB2640148	KB2862335	KB3011780	KB3107998



KB2644615	KB2862973	KB3019215	KB3108371
KB2647753	KB2864202	KB3020338	KB3108381
KB2654428	KB2868038	KB3021674	KB3108664
KB2660075	KB2868116	KB3021917	KB3108669
KB2661254	KB2871997	KB3022777	KB3108670
KB2667402	KB2872035	KB3023215	KB3109094
KB2676562	KB2882822	KB3030377	KB3109103
KB2679255	KB2884256	KB3032655	KB3109560
KB2685747	KB2887069	KB3033889	KB3112343
KB2685811	KB2888049	KB3033929	KB3121918
KB2685813	KB2891804	KB3035126	KB3123479
KB2690533	KB2892074	KB3124001	KB3124000
KB2698365	KB2893294	KB947821	KB2712808
KB2705219	KB2893519	KB976902	KB2716513
KB2706045	KB2709715	KB976932	KB2718704
KB2654644	KB2528614	KB3035131	KB3009736
KB3006625	KB3006137	KB3005607	KB3004361
KB2847077	KB2809215	KB2709981	KB2612905

