



Dell Wyse WES7P for Latitude 3460 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 7037 is a 64-bit image that supports Dell Latitude 3460 mobile thin client. The product offered through the Dell Latitude 3460 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.

Client software licensing and maintenance options

Dell Wyse thin client software maintenance is required to be able to receive new versions of thin client software and subsequent releases of corresponding documentation and tools. Use of this software on more than one device requires that you first purchase from Dell Wyse more copies of, or licenses for the software.

New feature

Following is the new feature in this release:

- Intel Wireless driver 18.40.0.9

General features

Hardware support information

This release supports the following hardware:

- Celeron processor for Dell Latitude 3460 mobile thin client
- M2 slot based SSD and SATA based SSD options
- 8 GB RAM options
- Intel HD Graphics support with HDMI and VGA for Dell Latitude 3460 mobile thin client
- SD card support for Dell Latitude 3460 mobile thin client

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 7037 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 ManagementConfiguration 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 |
| Display | Dell 24" Monitor P2417H without stand |
| Input devices | Dell Wired Laser Mouse (Naruto) |



| Category | Product |
|----------------------------|---|
| 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 3460 mobile thin clients |
| Docks and Port Replicators | Dell Ultra HD USB 3.0 Docking Station - D3100 for Latitude 3460 mobile thin clients |
| Security devices | Dell privacy screen 12" |
| Security devices | Dell privacy screen 14" |

Fixed issue

The following section lists the fixed issue:

Table 6. Fixed issue

| Sl.no | Issue description |
|-------|---|
| 1 | WES7P: Same IP is observed in two clients in the WDM, after pushing the pulled image. |

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. |
| Black Screen appears in the Secondary monitor connected through USB Docking station D3100. | Updated driver is provided as an add-on to resolve this issue. For more information, see <i>WES7P Dell Latitude E7270 mobile thin client</i> |



| Issue description | Workaround |
|---|--|
| | <i>and Dell Latitude 3460 mobile thin client Docking Station Driver WDM Add-on Release notes</i> |
| While pushing the pulled image through WDM, Latitude 3460 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. | 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. | Functionality is not affected. |
| Copyright Information for Flash.sys, Wyse RAM Disk are showing as Wyse/Wyse technology. | Functionality is not affected. |
| KB2880890 (Lync KB) is displayed twice in View installed updates section. | 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 3460 mobile thin client |
| Product | WES7P Latitude platform – English Standard Build |
| Build version | 9.06 |
| Build number | 7037 |
| Localization | English US |
| WSI/ Wizard compatibility | 5.0.2 |
| WDM | 5.7.1 |
| BA version | 3.3.9 |
| USB Imaging Tool version | 2.1.1.2 |

Platform Specific Build Details — WDM Package

The following table lists the platform specific build details:

Table 9. Platform specific build details

| Dell Latitude 3460 mobile thin client | |
|---------------------------------------|----------------------------|
| Version | 9.06 |
| Build Number | 7037 |
| Build Package Name | 3460_7037_128GB.exe |



| Dell Latitude 3460 mobile thin client | |
|---------------------------------------|---------------------|
| Build Size (Bytes) | 9,481,466,721 bytes |
| Localization | English US |
| BIOS details | |
| Platform | Dell Latitude 3460 |
| Version | A03 |
| Build File Name | 3X60A03.exe |
| Size (Bytes) | 5,187,016 bytes |

Used and Free space details

Table 10. Used and Free space details

| Platform | Flash Size | Used Space(C: drive) | Free Space |
|----------|------------|----------------------|------------|
| 3460 | 128 GB | 10.7 GB | 108 GB |

Part numbers

Table 11. Image Part Numbers

| Number | Description |
|--------|--------------------------------|
| 8JDK9 | SWB,OS,W7P;V9.06,B7037,3460,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 3460 mobile thin client | Intel® HD Graphics Properties 20.19.15.4444 |
| Ethernet Adapter | Dell Latitude 3460 mobile thin client | Realtek PCIe GBE family controller properties 7.92.115.2015 |
| Audio | Dell Latitude 3460 mobile thin client | Realtek high definition audio properties 6.0.1.6102 |
| Wireless Adapter | Dell Latitude 3460 mobile thin client | Intel® Dual Band Wireless-AC 3165 properties 18.40.0.9 Dell Wireless 1802 802.11 a/b/g/n adapter properties 10.0.0.315 |



| Drivers/ Files | Platforms | Comments |
|--|---------------------------------------|--|
| Bluetooth | Dell Latitude 3460 mobile thin client | Intel® Wireless Bluetooth® properties 19.0.1603.630 Microsoft Bluetooth Enumerator Properties 6.1.7601.17889 |
| USB xHCI driver | Dell Latitude 3460 mobile thin client | Intel® USB 3.0 extensible host controller properties 4.0.5.55 Intel® USB 3.0 extensible host controller properties 3.0.5.69 |
| Dell Keyboard driver application | Dell Latitude 3460 mobile thin client | For KM632 and KB212-B |
| Wyseramdisk.sys (Wyse RAM Disk driver) | Dell Latitude 3460 mobile thin client | 5.0.2183.4. Default value would be 512 MB |
| Flash.sys | Dell Latitude 3460 mobile thin client | 1.0.6.9 Device Manager: 1.0.4.7 File version: 1.0.6.9 |
| Dell Open Print | Dell Latitude 3460 mobile thin client | 1.91 |
| Chipset | Dell Latitude 3460 mobile thin client | Intel 9 series: 13.2.4.1000 |
| Dell Touchpad | Dell Latitude 3460 mobile thin client | 18.1.44.0 (In control panel) |
| Card reader | Dell Latitude 3460 mobile thin client | Broadcom Usbccid Smartcard Reader (WUDF) properties 22.19.17.974 |

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) |



| Applications/Features/Files | Version (If applicable) |
|--|--|
| | 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 | 20.0.0267 |
| 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 |
| 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 |



| Applications/Features/Files | Version (If applicable) |
|---|--------------------------------|
| 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 |
| 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 |



| Applications/Features/Files | Version (If applicable) |
|-----------------------------|-------------------------|
| WDA | 12.0.0.115 |
| Winterm.dll | 2.0.0.9 |
| GetMacAddress.exe | 1.0.0.1 |
| Xwfile.exe | 1.0.0.5 |

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 |



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|-----------|-----------|-----------|-----------|
| 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 |

