

Windows 10 IoT Enterprise (WIE10) v11.03 unified build for Wyse 7040 thin client Release Notes

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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 type and definition

The Windows 10 IoT Enterprise (WIE10) v11.03 unified build 0A27 is a 64-bit image, which supports Wyse 7040 thin client platforms. This product is a variant of the OptiPlex 7040 Micro Chassis with the wireless module (expansion capability) replaced by a fiber module.

This build can be pushed on 128 GB and 256 GB SSD with 4 GB or 8 GB or 16 GB RAM.

 **NOTE: This build is not supported on 500 GB HDD.**

New features

The following are the new features in this release:

Hardware support information

This release supports the following hardware:

- Intel vPRO support—four different SKU support from Dell
- Intel i5 and i7 processor options
- M2 slot-based SSD options
- 4 GB, 8 GB, and 16 GB RAM options
- Copper or Fiber SFP module support
- Self Encrypting Drive (SED) support
- Intel RAPID storage support
- Intel HD Graphics support with HDMI and DP

vPRO corporate SKUs support by Dell

- vPRO
- MEDISABLE
- MELOCKOUT
- ISM

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 Dell wallpapers & themes.

New Dell BIOS

- New BIOS with the Wyse extension.
- Support for both **AHCI** and **RAID ON** SATA mode. The **RAID ON** mode for standard drives and **AHCI** mode for SED drives in factory configuration.

 **NOTE: For this hardware platform BIOS is not bundled with the image.**

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
Admin	DellCCCvdi

Table 2. User account

Account name	Password
User	DellCCCvdi

Table 3. TightVNC

Password
DELL

Table 4. BIOS

Admin Password
Fireport (This is configured in factory)

Table 5. ME BIOS Extension

Username	Password
admin	admin

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.
- 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 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 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.

WIE10 (64 bit) build behavior

WES7P upgrade capable

This build updates WES7P to WIE10 with separate WDM RSP files for handling Standard and Upgrade scenarios using Common Image structure. `CommandXML.XML` file is not a part of the WDM package for this build.

Before updating WES7P to WIE10, make sure that the BIOS password is set to default password, which is **Fireport** either manually or through WDM Addon package. This is mandatory in both WDM and USB imaging scenarios to upgrade successfully.

During WES7P to WIE10 update, the following tasks must be performed:

- Update WES7P security key to WIE10 security key.
- Activate WIE10 using ePKEA key, which is included as part of WES7P image, using LicMgrTool.
- Make sure Legacy Option ROM is disabled.

For more information, refer *How to update from Dell Wyse Enhanced Windows Embedded Standard 7 P (WES7P) to Dell Wyse Windows 10 IoT Enterprise* whitepaper.

Auto logon experience

At each reboot, you can automatically login to the user account. Auto logon to the user account is not allowed again when you sign off from the user account. It stops at logon screen.

Product name

This Windows build 10240 lists the product name as **Windows 10 Enterprise 2015 LTSC**.

Unified Write Filter

WIE10 has only Unified Write Filter (UWF). UWF cache size is 1024 MB.

Windows Defender

Windows Defender does not update automatically.

To update the Windows Defender to the latest signatures follow these steps:

1. Disable the Write Filter.
2. Start Windows Update services.
3. Manually update through the Windows defender console.

Internet Explorer

- Internet Explorer cache settings – 100 MB
- Temporary internet files, cache, and history locations are set to C: instead of Z:

Citrix receiver

- By default Citrix receiver icon will be present in system tray. You cannot set server URL by clicking the system tray icon directly, unless you launch PNA using Citrix receiver icon which is present in the desktop or start menu.
- 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.
- Citrix Flash redirection requires Adobe Flash plugin which should be downloaded from Citrix website (This download requires you to choose the option **Optimize** in the pop-up window).

Energy Star specification for Dell Wyse builds

Our product meets the Energy Star version 6.0 thin client requirement.

The following values are set by default in control panel applet of Power Options:

- Supports WOL Power off states.
- Supports Idle State wake.
- Screen off timer set to 10 minutes.
- Sleep timer set to 15 minutes.

User accounts

- Admin – Administrators group
- User – Users Group
- No Built-in Administrator account is enabled

Latest client information

Dell Client Application is a replacement for the Client Information application with a new UI. This application contains additional fields for accessing and configuring Custom Fields, RAM Disk, Auto Logon and System Shortcuts.

The RAM disk size is set to 512 MB by default in the build. The model name of the client will be Wyse 7040 Thin Client.

Adobe Flash player

ActiveX is part of the build. NPAPI plugin is added.

Premium codecs

The premium codecs from Microsoft which are part of the build are as follows:

- H.265 – Only lights up if hardware support is available.
- H.263 – New software implementation (primarily used in phones)
- ALAC – Apple Lossless Audio Codec
- FLAC – Free Lossless Audio Codec
- AMR-NB – Adaptive Multi-Rate (AMR or AMR-NB or GSM-AMR) audio codec

The only 3rd party codec for which Microsoft covers the license is Dolby 2-Channel which is already included in WIE10.

Dell branding

The following changes are made with respect to branding:

- Dell Wallpapers, logos and themes are included.
- Manufacturer name in System Properties is changed to Dell Inc.
- User and admin account password is set as DellCCCvdi.
- The latest Dell copyright 2016 is added for all Dell Wyse Apps.
- The RAM disk and Flash.sys drivers are branded as Dell Wyse.

WDA

The WDA agent replaces the WCM and HAgent. The WDA agent is not supported in CCM.

License activation

- Internet access is necessary to activate license when the client is reimaged.
- When updating WES7P to WIE10 using WDM or USB imaging solution, you must use `License.txt` with the WIE10 ePKEA key in the Merlin partition of the WES7P image. LicMgrTool activates the client as part of the First Boot scripts.
- During the update process of WES7P to WIE10, the `License.txt` is deleted in the Merlin partition after the activation of WIE10.

Image pull using WDM

While pulling image using WDM, disk shrinking is necessary if the disk is not full, to save time during the process. As WDM uses disk-based imaging technique, pulling image from 256 GB drive might take longer time.

USB imaging

While updating WES7P to WIE10, you must disable UEFI network stack before starting the imaging to avoid delay with network stack during the process. This step is not necessary in WDM imaging as it is taken care by the RSP file. The First Boot Script in the build re-enables the network stack after the update.

NOTE:

- **To configure Bitlocker with TPM, use group policy Configure TPM platform validation profile for native UEFI firmware configurations.**
- **Refer Event Viewer Errors.docx for the Event Viewer errors/warnings.**
- **To update the Windows Defender definition, you may have to increase the Write Filter threshold value.**

Not supported

The following features and applications are not supported on this build:

- No Built in administrator account
- Windows 10 specific features which are removed by Microsoft in this build are as follows:
 - Measured Boot
 - Fast Boot
 - Refresh PC and Reset PC
 - Antimalware
 - Custom Branding
 - Wim boot
 - Bing sports
 - Xbox live
 - Skype
 - Zune videos

- Zune music
- People
- Windows communication software
- Office note
- Maps
- Bing news
- Store app
- Edge
- Cortana
- Boot from USB is not supported by default. You have to enable this option in BIOS for supporting the same
- Native PXE imaging support is not available in this image version, as the boot mode is set to UEFI
- Embedded Lockdown Manager
- Application Launcher

You can use Application Launcher to start a Windows 10 application immediately after a user signs in to a device. You can also use application launcher to restart the app when the app closes. You can configure Application Launcher to launch different apps for different users. However, Application launcher configuration requires modern app as no modern apps are part of WIE10.

Fixed issues

Table 6. Fixed issue

Sl.no.	Issue description
1	License activation issue - The License activation issue is fixed in this build.

Known Issues

The following table lists the known defects in this release.

Table 7. Known issues

Sl.no	Issue Description	Workaround
1	While running WEI10_CustomSysprep4man.bat, Low Disk space message appears in the system tray.	Functionality is not affected
2	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 UITime: Dell Wyse 7040 thin client WIN10 boot time is more when compared to WES7P.	Functionality is not affected
3	Copyright Information for Flash.sys, Wyse RAM Disk is showing as Wyse/Wyse technology.	Functionality is not affected
4	KB2880890 (Lync KB) is displayed twice in View installed updates section.	Functionality is not affected
5	Ericom Webconnect (AccessPad) shortcut icon is not created in system tray.	Functionality is not affected
6	WIE10_CustomSysprep4man.ps1 should stop execution or should decrypt the drive if BitLocker protection is on.	Functionality is not affected
7	TPM and BitLocker encryption script under C:\windows\Setup should also support BitLocker Locker Encryption alone.	Functionality is not affected
8	Unable to play saved YouTube videos on Dell Wyse 7040 thin client WIE10 build.	Functionality is not affected
9	Dell Wyse 7040 thin client WIE10 – French Canadian – Run Time commands not localized in respective language.	Functionality is not affected
10	Run Time commands failed to execute for Japanese OA20 MUI build.	Functionality is not affected
11	Unable to create a new user account in German after running the custom sysprep.	Command line option available for creating new user

Sl.no	Issue Description	Workaround
13	Run Time Commands not localized in respective language for Japanese 0A17MUI build.	Functionality is not affected
14	Common image cannot be pushed through WDM WEB UI.	MMC UI is working

Build details

Table 8. General build details

Platform	Wyse 7040 Thin Client
Product	WE110
Build version	11.03
Build number	0A27.128/256 GB
Localization	Unified MUI (en-US, fr-CA, de-DE, ja-JP)
WSI/Wizard Compatibility	5.0.4
WDM	5.7 .1
BA version	3.4.2
Merlin USB Imaging Tool	2.1.2.7

Table 9. Platform specific build details-WDM package

Wyse 7040 Thin Client	
Version	11.03
Build Number	0A27.128/256 GB
Build WSI Package Name	7040_0A27_32GB.exe
Build Size (Bytes)	12,676,062,894 bytes
Localization	Unified MUI (en-US, fr-CA, de-DE, ja-JP)
BIOS details	
Platform	Wyse 7040 Thin Client
Version	Wyse_7040_1.4.4
Build file name	Wyse_7040_1.4.4

Tested peripherals

Table 10. Tested peripherals

Dell USB Mouse(M/N: M-UAV-DEL8)
Dell Wireless Mouse(M/N: WM514)
Dell Wireless Mouse(M/N: WM324)
Dell Wireless Mouse(M/N: WM123)
Dell USB Laser 6 button mouse
Dell Wireless Mouse(M/N: WM326)
Dell Wireless Mouse(M/N: WM526)

Dell Optical mouse MS116
Dell Wireless KB and mouse KM714
Logitech Wireless Keyboard K350
Logitech Wireless KB and mouse mk520
Logitech Wireless KB and mouse mk710
Dell Wireless KB and mouse KM636
Dell Multimedia Keyboard K216
Dell USB Headset HSC011(Jabra UC VOICE 550a MS)
Dell 2.0 Speakers AX210
Dell USB Soundbar AC511
Plantronics C510-M
DP to HDMI converter
DP to DVI converter
DP to VGA converter
Dell MR 2217 Monitor
Dell UP2716D Monitor
Dell P2014H Monitor
Dell U2414H Monitor
Dell UP2715Kt Monitor
Dell P2414H Monitor
Dell P2415 Monitor
Dell U2715H Monitor
Dell P1914S Monitor
Dell P2214H Monitor
Dell P2314H Monitor
Dell P2415Q Monitor
Dell P2213 Monitor
Dell UP2516D Monitor
Dell UZ2315H Monitor
Dell E2414H Monitor

Logitech Web cam C525
Dell mono printer B5460dn
Dell mono multifunction printer B5465dnf
Dell multifunction printer E515dn

Used and free space details

Table 11. Used and free space details

Platform	Flash Size	Used Space (C: Drive)	Free Space
Dell Wyse 7040 Thin Client-i5	128 GB	11.5 GB	106 GB
Dell Wyse 7040 Thin Client-i5	256 GB	11.6 GB	226 GB
Dell Wyse 7040 Thin Client-i7	128 GB	11.5 GB	106 GB
Dell Wyse 7040 Thin Client-i7	256 GB	11.6 GB	226 GB

OS components

Table 12. Driver details

Drivers/Files	Version (If applicable)
Display Adapter	Intel(R) HD Graphics 530 -Ver 20.19.15.4390
Ethernet Adapter	Intel ® Ethernet Connection I219-LM - Ver 12.15.22.6
SFP	Realtek PCIe GBE Family Controller - Ver 10.10.630.2016
Audio	Intel® Display Audio-8.20.0.865 Realtek High Definition Audio – 6.0.1.6098
TPM(1.2)	10.0.10240.16384
Wyseramdisk.sys (Wyse RAM Disk driver)	5.0.2183.5
USB 3.0	Intel® USB 3. 0 eXtensible Host Controller – 1.0 (Microsoft) – Ver 10.0.10240.16461
Flash.sys	1.0.6.6
Dell CAPS Lock indicator application Driver	2.1.10.0604
Dell Open printer driver	1.91.7882.0
Keyboard Device Driver	10.0.10240.16384

Common applications/Features/Files

Table 13. Common applications/Features/Files

Applications/Features/Files	Version (If applicable)
RDC	10.0.10240 (RDP 10.0 Supported)(In RDP) 10.0.10240.16384 (In Dell Thin Client App)
Citrix Receiver (Standard)	4.4.1000.16 (in about window) Citrix Online Plugin -14.4.1000.16 (In Client)
Citrix HDX Real Time Media Engine	2.0.0.417
VMware Horizon Client	4.0.1.781 (In Client Application, Programs) 4.0.1 in (VMware Horizon Client about)
vWorkspace client	8.6.309.4062
Ericom Power Term Interconnect for Thin Clients	11.0(in programs and features, In Client A
SCCM client	5.00.8239.1000(in control panel -> Confi
Windows Media Player	12.0.10240.16384 (In client Info)
Internet Explorer	11.0.10240.16766 (About Internet Explore
Adobe Flash player 21 NPAPI	21.0.0.213(programs and features)
Tight VNC	2.6.4.0(In client Info, About)
Dell Command Configure	3.1.1.58
Ericom connect web connect	7.5.1(in programs and features, In Client
.NET Framework	4.6
WDA	12.1.3.2
Bit locker with TPM	Supported
Windows Multi touch	Supported
Windows Defender with latest definition	Virus & Spyware definition updates 1.221
Microsoft Management Console	Management Console 3.0 Version 10.0 (Build 10240)
Microsoft Silverlight	5.1.40416.0
Background Intelligent Transfer Service (BITS)	Supported
MSXML	Supported
XML Paper Specification (XPS)	Supported
Network Access Protection	Not Supported

Applications/Features/Files	Version (If applicable)
Credential Roaming	Supported
WPA2	Supported
CredSSP	Supported
Dell Wyse Wallpaper on All Users	Supported
DirectX	12
DellThinClientApplication.exe (New Client Application)	10.0.0.9
Unified Write Filter manager -Uwfmgr.exe (File Version)	10.0.10240.16384
UWF system tray UI – UWFTray.exe	1.0.4.6
UWF Service – UWFSvc.exe	1.0.4.6
NetXClean.exe	3.0.0.6
Drvmgmt.exe	1.0.2.15
BAAActive.exe	1.0.0.8
Disk_Size.exe	3.0.0.5 (in setup)
LicMgrTool.exe	1.0.0.4
DeleteFreeSpace.exe	1.2.1.0 (in setup)
Sysprep4man scripts	TPM and sysprep Supported (part of build)
LicenseStore.exe	1.0.0.10
Windows Time Service	Supported
FI Core changes	Scripts changes are part of the build
WinPing	1.0.0.5

QFEs in this build

Table 14. QFEs

KB3081424	KB3081455	KB3116097	KB3081444
KB3081431	KB3093266	KB3116869	KB3081448
KB3081436	KB3095020	KB3135174	KB3081452
KB3081438	KB3097617	KB3140745	KB3105514
KB3081441	KB3105210	KB3141032	KB3106932
KB3147461	KB3105213	KB3154132	

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 **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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