



# WES7 Unified MUI Build 7064 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:** May 2017

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## Release type and definition

This release supports Windows Embedded Standard 7—WES7 Unified MUI Build 7064 for the Ransomware WannaCrypt susceptibility.

WannaCrypt, also known as WannaCry, targets out-of-date Windows systems. This release build contains valid WES7 security updates—KB4012212, to protect your system from the ransomware WannaCrypt susceptibility.

The WES7 Unified MUI Build 7064 is a 32-bit image. This build supports the following platforms:

- Wyse 3030 thin client
- Wyse 5010 thin client with WES7
- Wyse 5020 thin client with WES7
- Wyse 7010 thin client with WES7
- Wyse 7010 Extended Chassis thin client with WES7
- Wyse 7020 thin client with WES7

This build can be pushed on a flash with 16 GB and above with 4 GB RAM.

# New features

The following are the new features in this release:

- Boot Agent updated to 3.4.4 version
- Citrix HDX updated to 2.2
- Flash.sys updated to 1.0.7.6
- WDA is installed with updated version 2.1.4 version.
- Power term connect client to 7.6
- NetXclean updated to 3.0.0.8
- Bluetooth driver: 19.0.1603.0630
- Security patches until April 2017 and the WannaCrypt knowledge base articles are also included.

## 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 host name calculation to perform after a change in MAC ID (NIC card change), then you must use MINWITHNET.

## Dell thin client application

- This Dell thin client application is a replacement for client information application with new UI.
- Dell thin client application helps you to view the general information about the thin client device, system shortcuts, custom fields, RAM disk, auto logon, the C-A-D map tool, and support information.

**NOTE:** RAM disk size is set to 512 MB by default in the build.

## Unified WES7E build

- The WES7E devices are supported in the following 11 languages:
  - Chinese – zh-CN, zh-TW
  - English – en-US
  - French – fr-FR, fr-CA
  - German – de-DE
  - Italian – it-IT
  - Japanese – ja-JP
  - Korean – ko-KR
  - Portuguese – pt-BR
  - Spanish – es-ES
- Unified MUI images have one standard GAFP package with multiple SRV folders for each language. Each SRV configuration file refers to the same Merlin image under unified part number, which contains the language setting info.



# Imaging units from WDM environment

Imaging the units from WDM can be done in two scenarios, on top of which the Unified MUI build can be pushed. The scenarios are as follows:

## 1 Unified MUI build

As the unified MUI builds have the language metadata in Merlin partition. Imaging the unified MUI build brings up the unit in the same MUI language present in Merlin.

If the customer wants to change the language, they can use WDM add-on to write the language metadata to Merlin partition and re-image the unit with unified MUI build. This brings up the unit in desired language selected with the tool.

## 2 Non-Unified build

Updating unified MUI build on top of a non-unified build is a two step process.

You have to use the WDM add-on, to write the desired language metadata to Merlin partition of the non-unified build.

- a The WDM add-on with unified language selection tool can be pushed to the client to write the required language metadata in Merlin partition. This is done using the command line **LanguageConfig.exe**, with an option for different language. For example, French-Canada **LanguageConfig.exe fr-CA**.
- b Push the unified MUI image on top of non-unified build with language metadata in Merlin partition. Imaging brings up the unit in the same MUI language present in the Merlin.

# OS architecture

## WES7 image structure

- 1 All WES7 builds are delivered in WDM package supported format.
- 2 WES7 builds have two partitions:
  - 16 MB partition shows FAT32 without the drive letter in disk management.
  - 16 MB partition contains Merlin BA—Boot Agent Version 3.4.4.
- 3 WES7 builds are pulled and pushed using WSI.
- 4 WES7 images are supported with 4 GB RAM with flash 16 GB and above.
- 5 WES7 builds are in compressed format.

## WES7 unified MUI build 7064 behavior

- 1 Internet Explorer 11:
  - a Performance enhancements: Internet Explorer 11 is the quickest version of the browser yet. Microsoft has included support for web standards like CSS animations, the HTML5 spell checking, and improved JavaScript performance.
  - b Security enhancements: The main security addition to Internet Explorer 11 is **Enhanced Protected Mode** which locks down parts of the windows operating system, preventing the browser from accessing the OS.
- 2 Citrix Receiver:
  - a USB redirection always works for all users of the client machine with all published XenDesktop, irrespective of the setting "Simplify device connections for me" in the XenDesktop connection preferences UI.
- 3 Energy Star Specification  
Our product meets the Energy Star thin client requirement.

The following values are set by default in the control panel applet of the power options:

- Supports WOL power off states.



- Supports Idle state wake.
  - Screen off timer set to 10 minutes.
  - Sleep timer set to 15 minutes
- 4 SCCM2016 information:
- a SCCM information is not present in programs and features and client information, because of the Microsoft design.
  - b Only Configuration Manager Control Panel Applet and SMS Agent Host Service are present.
  - c SMSCFG.ini, clientstate.dat, wedmtrace.log, Ccmstore.sdf, InventoryStore.sdf, StateMessageStore.sdf files, and Service Data folder is included in FBWF exclusion list.
- 5 vWorkspace:
- a After installation of vWorkspace, **install.txt** file is created in **C:\**
- 6 Following are the driver applications/files included as part of this build:
- a VGA full application
  - b Included Intel wireless to support Cisco LEAP, EAP, and EAP-FAST. Cisco files are present in **C:\Program Files\Cisco**. Cisco modules installed entry is not present in client information and Programs and Features.
  - c Included Intel bluetooth application to make the build compatible with Bluetooth Printer.
- 7 C-A-D Tool:
- By default, the build has the C-A-D tool however, it is in disabled state.

To enable the tool, follow these steps:

- a Log in to system using admin account
- b Disable the Write Filter.
- c Launch command prompt in elevated mode.
- d **c:\windows\system32**
- e Run **DWKBFilterMon.exe**— enable and restart.

## Known issues

The following table lists the known issues in this release:

Sl.no.	Description	Workaround
1	PAD imaging is not working.	Functionality is not affected
2	Bluetooth option is not available in <b>Send to</b> dropdown list when you right click on text document after pulled the image.	Functionality is not affected
3	After pushing the WCM configuration through profile manager, the VMware horizon client, and RDP desktop shortcut gets deleted from Desktop.	Functionality is not affected
4	WDA console pops up a message <b>Enter Valid Server IP</b> when registering the device to WDM server with FQDN address manually.	Functionality is not affected
5	RAM size mismatch while comparing with WDM server and thin client application.	Functionality is not affected
6	Tight NC service starts, but it gets displayed in the task bar instead of system tray.	Functionality is not affected
7	Windows defender is turned off, when turned on, a window message pops up in WES7E builds.	Functionality is not affected
8	<b>Low disk space</b> message occurs while playing audio in Youtube in the Jabra head phones with wireless module connected—Within 15 min.	Functionality is not affected



Sl.no.	Description	Workaround
9	Observed windows explorer crash, while connecting bluetooth devices to the client occasionally.	Functionality is not affected
10	Files received through bluetooth are not working from client B to client A.	Enabling windows search resolves the issue, but as per discussion if you use this workaround you may observe low memory issue and also windows search disabling is a part of the Wyse customization.
11	15 sec - 1 min black screen observed while log off and logon to client	Functionality is not affected
12	Black screen observed while booting the client	Functionality is not affected
13	Observed Low memory issue while playing Youtube videos through bluetooth speakers along with few apps opened	Functionality is not affected
14	SCCM image push fails to work for WES7E client	Solution is manually created, SCCM stand-alone media with the command line parameters
15	Wyse 3030 thin client reboots after waking the device from sleep mode	Functionality is not affected

## Tested platforms

Platform
Wyse 3030 thin client
Wyse 3030 thin client with SFP
Wyse 5010 thin client with WES7
Wyse 5010 thin client with WES7 with SFP
Wyse 5020 thin client with WES7
Wyse 5020 thin client with WES7 with SFP
Wyse 7010 thin client with WES7
Wyse 7010 Extended Chassis thin client with WES7
Wyse 7020 thin client with WES7
Wyse 7020 thin client with WES7 with SFP

- All the Servers are installed on VMware VCenter Server 5.1.0
- WDM Server Used: Windows 2K8 R2 Enterprise Server with WDM 5.7.1 installed
- WSI Server Used: Windows 2K3 R2 Enterprise Server with WSI 5.0.4 installed
- RDP: Windows 2K3 Server, Windows Server 2K8 R2 Enterprise & Windows Server 2K12
- Citrix XenDesktop: Windows 2K8 R2 Enterprise with Citrix XenDesktop Server 7.12 installed
- Citrix XenApp: Windows 2K8 R2 Enterprise with Citrix XenApp Server 7.12 installed
- VMView Server: Windows 2K8 R2 Enterprise with VM Horizon View Server 7.0.3 installed
- Eircom Power Term: Red Hat Linux Server with Eircom Server 9.2 installed



# Build details

Table 1. General build details

<b>Platforms</b>	Wyse 7010 thin client with WES7, Wyse 7010 Extended Chassis thin client with WES7, Wyse 7020 thin client with WES7, Wyse 5020 thin client with WES7, Wyse 5010 thin client with WES7, and Wyse 3030 thin client
<b>Product</b>	WES7 Unified MUI Standard Build
<b>Build Version</b>	9.09
<b>Build Number</b>	7064
<b>Localization</b>	Unified MUI (en-US, ja-JP, ko-KR, it-IT, es-ES, zh-CN, zh-TW, de-DE, pt-BR, fr-FR, fr-CA)
<b>WSI/Wizard Compatibility</b>	5.0.4
<b>WDM</b>	5.7.2
<b>BA version</b>	3.4.4
<b>Merlin USB Imaging Tool</b>	v2.1.3

Table 2. Platform specific build details

<b>Platforms</b>	Wyse 7010 thin client with WES7 Wyse 7010 Extended Chassis thin client with WES7
<b>Version</b>	9.09
<b>Build Number</b>	7064
<b>Build WSI Package Name</b>	BZB0_7064_16GB.exe
<b>Build Size (Bytes)</b>	11,453,253,500 bytes

Table 3. BIOS details

<b>Platforms</b>	Wyse 7010 thin client with WES7 Wyse 7010 Extended Chassis thin client with WES7
<b>Version</b>	3.0S
<b>Build File Name</b>	30S.fd
<b>Size (Bytes)</b>	2,097,152 bytes



**Table 4. Platform specific build details**

<b>Platform</b>	Wyse 5010 thin client with WES7
<b>Version</b>	9.09
<b>Build Number</b>	7064
<b>Build WSI Package Name</b>	BDB0_7064_16GB.exe
<b>Build Size (Bytes)</b>	10,114,028,662 bytes

**Table 5. BIOS details**

<b>Platform</b>	Wyse 5010 thin client with WES7
<b>Version</b>	3.0S
<b>Build File Name</b>	30S.fd
<b>Size (Bytes)</b>	2,097,152 bytes

**Table 6. Platform specific build details**

<b>Platforms</b>	Wyse 7020 thin client with WES7 Wyse 5020 thin client with WES7
<b>Version</b>	9.09
<b>Build Number</b>	7064
<b>Build WSI Package Name</b>	BOB0_7064_16GB.exe
<b>Build Size (Bytes)</b>	101919,05,190 bytes

**Table 7. BIOS details**

<b>Platforms</b>	Wyse 7020 thin client with WES7 Wyse 5020 thin client with WES7
<b>Version</b>	2.0E
<b>Build File Name</b>	20E.fd
<b>Size (Bytes)</b>	8,388,608 Bytes



**Table 8. Platform specific build details**

<b>Platform</b>	Wyse 3030 thin client
<b>Version</b>	9.09
<b>Build Number</b>	7064
<b>Build WSI Package Name</b>	BEB0_7064_16GB.exe
<b>Size (Bytes)</b>	9,547,063,715 bytes

**Table 9. BIOS details**

<b>Platform</b>	Wyse 3030 thin client
<b>Version</b>	1.0P
<b>Build File Name</b>	10P.fd
<b>Size (Bytes)</b>	4,194,304 bytes

## Boot sequence

- 1 Dell Wyse 7020 thin client with WES7/ Dell Wyse 5020 thin client with WES7
  - 1st Boot: SATA 0
  - 2nd Boot: SATA 1
  - 3rd Boot: PXE LAN
  - 4th Boot: ATAPI CD
  - 5th Boot: USB HDD
  - 6th Boot: USB FDC
  - 7th Boot: USB CD-ROM
  - 8th Boot: CLOUD DESKTOP
- 2 Dell Wyse 7010 thin client with WES7/ Dell Wyse 7010 Extended Chassis thin client with WES7/ Dell Wyse 5010 thin client with WES7
  - 1st Boot: SATA 0
  - 2nd Boot: SATA 1
  - 3rd Boot: PXE LAN
  - 4th Boot: ATAPI CD
  - 5th Boot: USB HDD
  - 6th Boot: USB FDC
  - 7th Boot: USB CD-ROM
- 3 Dell Wyse 3030 thin client
  - 1st Boot: SATA 0
  - 2nd Boot: PXE LAN
  - 3rd Boot: USB HDD
  - 4th Boot: USB CD-ROM
  - 5th Boot: CLOUD DESKTOP



# Used and free space details

Platform	Flash size	Used space (C: drive)	Free space
Wyse 7010 thin client with WES7	16 GB	10.6 GB	4.29 GB
Wyse 7010 Extended Chassis thin client with WES7			
Wyse 5010 thin client with WES7	16 GB	9.71 GB	5.18 GB
Wyse 7020 thin client with WES7	16 GB	10.4 GB	4.41 GB
Wyse 5020 thin client with WES7			
Wyse 3030 thin client	16 GB	9.99 GB	4.81 GB

# Operating system components

Table 10. Operating system components

Drivers/Files	Platform	Version ( If applicable)
BIOS	Wyse 3030 thin client	1.0P
	Wyse 5010 thin client with WES7	3.0S
	Wyse 7010 thin client with WES7\Wyse 7010 Extended Chassis thin client with WES7	3.0S
	Wyse 7020 thin client with WES7\Wyse 5020 thin client with WES7	2.0E
Display Adapter	Wyse 3030 thin client	Intel(R) Atom(TM) Processor E3800 Series/Intel(R) Celeron(R) Processor N2920/J1900 36.15.0.1210
	Wyse 5010 thin client with WES7	AMD Radeon HD 6250 Graphics- 14.502.1001.1001
	Wyse 5020 thin client with WES7	AMD Radeon(TM) HD 8330E Graphics- 15.201.2401.0
	Wyse 7010 thin client with WES7	AMD Radeon HD 6250 Graphics- 14.502.1001.1001
	Wyse 7010 Extended Chassis thin client with WES7	AMD Radeon HD 6320 Graphics- 14.502.1001.1001
Wyse 7020 thin client with WES7	AMD Radeon(TM) HD 8400E Graphics- 15.201.2401.0	
Ethernet Adapter	Wyse 3030 thin client	Inventec PCIe GBE Family Controller-7.611.627.2014
	Wyse 5010 thin client with WES7	Realtek PCIe GBE Family Controller-7.101.714.2016
	Wyse 5020 thin client with WES7	Realtek PCIe GBE Family Controller-7.101.714.2016



Drivers/Files	Platform	Version ( If applicable)
	Wyse 7010 thin client with WES7 Wyse 7010 Extended Chassis thin client with WES7	Realtek PCIe GBE Family Controller-7.101.714.2016
	Wyse 7020 thin client with WES7	Realtek PCIe GBE Family Controller-7.101.714.2016
Audio	Wyse 3030 thin client	Realtek High Definition Audio- 6.0.1.7541
	Wyse 7010 thin client with WES7	Realtek High Definition Audio- 6.0.1.7898 AMD High Definition Audio Device- 7.12.0.7719
	Wyse 5010 thin client with WES7	Realtek High Definition Audio- 6.0.1.7898 AMD High Definition Audio Device- 7.12.0.7719
	Wyse 5010 thin client with WES7 Wyse 7010 Extended Chassis thin client with WES7	Realtek High Definition Audio- 6.0.1.7898 AMD High Definition Audio Device- 7.12.0.7723
	Wyse 7010 Extended Chassis thin client with WES7	Realtek High Definition Audio- 6.0.1.7898 AMD High Definition Audio Device- 7.12.0.7719
Wireless Adapter	Wyse 7020 thin client with WES7 Wyse 5020 thin client with WES7	Intel(R) Dual Band Wireless AC 7260 – 18.33.3.2 (Device Manager) Intel (R) PROSet/Wireless Software 19.10.0 (Program and features)
	Wyse 7010 thin client with WES7 Wyse 7010 Extended Chassis thin client with WES7	Qualcomm Atheros AR938x Wireless Network Adapter – 10.0 (Program and features) Intel(R) Dual Band Wireless AC 7260 -18.33.3.2 (Device Manager) Intel (R) PROSet/Wireless Software - 19.10.0 (Program and features)
	Wyse 3030 thin client	Intel(R) Dual Band Wireless AC 7260 -18.11.0.8(Device Manager) Intel (R) PROSet/Wireless Software 18.11.0(Program and features)
	Wyse 5010 thin client with WES7	Intel(R) Dual Band Wireless AC 7260 -18.11.0.8(Device Manager) Qualcomm Atheros AR938x Wireless Network Adapter – 10.0 (Program and features)
Bluetooth Adapter	Wyse 3030 thin client	Intel ( R ) Wireless Bluetooth ( R ) 4.0 Adapter 17.1.1510.0550(Program and features) 17.1.1510.544(Device Manager)



Drivers/Files	Platform	Version ( If applicable)
	Wyse 7010 thin client with WES7 Wyse 7010 Extended Chassis thin client with WES7	Intel ( R ) Wireless Bluetooth ( R ) 19.0.1603.0630(Program and features) 19.0.1603.630(Device Manager)
	Wyse 5010 thin client with WES7	Intel ( R ) Wireless Bluetooth ( R ) 19.0.1603.0630(Program and features) 19.0.1603.630(Device Manager)
	Wyse 7020 thin client with WES7 Wyse 5020 thin client with WES7	Intel ( R ) Wireless Bluetooth ( R ) 17.1.1510.0550(Program and features) 17.1.1510.544(Device Manager)
USB3.0 Driver	Wyse 7010 thin client with WES7 Wyse 7010 Extended Chassis thin client with WES7	Renesas Electronics USB 3.0 Host Controller-2.1.39.0 Renesas Electronics USB 3.0 Root Hub-2.1.39.0
	Wyse 7020 thin client with WES7 Wyse 5020 thin client with WES7	AMD USB 3.0 Host Controller – 1.1.0.185 AMD USB 3.0 Root HUB – 1.1.0.185
	Wyse 3030 thin client	Intel(R) USB 3.0 Extensible Host Controller – 406.60
Wyseramdisk.sys (Wyse RAM Disk driver)	Wyse 3030 thin client Wyse 5010 thin client with WES7 Wyse 5020 thin client with WES7 Wyse 7010 thin client with WES7 Wyse 7010 Extended Chassis thin client with WES7 Wyse 7020 thin client with WES7	5.0.2183.5
Flash.sys	Wyse 3030 thin client Wyse 5010 thin client with WES7 Wyse 5020 thin client with WES7 Wyse 7010 thin client with WES7 Wyse 7010 Extended Chassis thin client with WES7 Wyse 7020 thin client with WES7	1.0.7.6

**Table 11. Common applications/features/file**

Applications/Features/Files	Version ( If applicable)
RDP	6.3.9600 (RDP 8.1 Supported)



Applications/Features/Files	Version ( If applicable)
	6.3.9600.16415 (In Client Information)
Citrix Receiver 4.6	14.6.0.12010 (In Programs and Features) 14.6.0.12010 (In client Information )
Citrix HDX Real Time Media Engine 2.2	2.2.0 in 5020 (D90Q7), 7020 (Z90Q7) and 3030 2.2.0.815 seen in Z/D platform
Windows Media Player	12.0.7601.23517 (in application) 12.0.7601.23517 (in Dell Thin Client Info)
Internet Explorer	11.0.9600.18499(in application) 11.00.9600.16428 (in Dell Thin Client Info)
Ericom Connect Client	7.6 (In Programs and Features) 7.6.0.12558 (in Application)
Ericom Power Term Interconnect for ThinClients	12.0 (In Programs and Features) 12.0 (In client Information) 12.0.0.0.20160904-_dev-_34574 (In Application)
VMware Horizon Client	4.3.0.4209 (In Programs and Features) 4.3.0 build-4710077 (In Application) 4.3.0.4209 (In client Information)
vWorkspace Connector for windows	8.6.309.4062 (In client Information) 8.6.309.4062 (In Programs and Features)
Adobe Flash player 23 ActiveX	23.0.0.205 (In Programs and Features) 23.0.0.205 (In client Information)
Adobe Flash player 23 NPAPI	23.0.0.205 (In Programs and Features) 23.0.0.205 (In client Information)
Tight VNC	Not Seen in Programs and features as it is not installer 2.6.4.0 (In client Information)
Microsoft Lync Vdi 2013	15.0.4569.1506 (In Programs and Features) 15.0.4569.1506 (In client Information)
.NET Framework 4.6.2	4.6.01590 (In Programs and Features) 4.6.01590 (In client Information)
WSUS	Supported



<b>Applications/Features/Files</b>	<b>Version ( If applicable)</b>
WDA	2.1.4
Microsoft Management Console	Management Console 3.0 Version 6.2 (Build 9200)
Configuration Manager	5.00.8412.1307
Microsoft Silverlight	5.1.30514.0 (In programs and features) 5.1.30514.0 (In Client information)
Background Intelligent Transfer Service (BITS)	Supported
MSXML	Supported
XML Paper Specification (XPS)	Supported
Network Access Protection	Supported
Credential Roaming	Supported
WPA2	Supported
CredSSP	Supported
ConfigMgr 2016 Client	Supported
Wyse Wallpaper on All Users	Supported
Registry Filter	Supported
Windows Time Service	Supported
DirectX	11
File-based write filter manager – <b>fbwfmgr.exe</b>	File version 1.0.299.0
<b>Ntoskrnl.exe</b>	File version 6.1.7601.19045
<b>ArchiveInfo.exe</b>	File Version 1.0.0.4
<b>BAAActive.exe</b>	File Version 1.0.0.8
<b>ClientInformation.exe</b>	10.0.0.10
<b>CustomFields.exe</b>	Not Applicable
<b>Disk_Size.exe</b>	3.0.0.6
<b>Drvmgmt.exe</b>	Not Applicable
CAD MAP Tool	File Version 2.3.0.3
<b>DWKbFilter.sysDWKbFilterMon.exeDWKbFilterWatchdog.exe</b>	File Version 2.2.0.4



Applications/Features/Files	Version ( If applicable)
	File Version 2.2.0.4
FBWF Service – FBWFSvc.exe	File Version 1.0.2.2
FBWF System Tray UI - FBWFTray.exe	File Version 1.0.2.3
Hagent.exe	12.1.4.2
HAgent_UI.exe	12.1.4.2
NetXClean.exe	File Version 3.0.0.8
NumLock_Toggle.exe	1.0.0.4
NumLockTrigger.exe	1.0.0.4
OS_HardDiskVolume.exe	1.0.0.4
OSActive.exe	1.0.0.4
PnPApp.exe	1.0.0.14
RAMDisk.exe	1.0.0.7
TimeZonePreservation.exe	1.0.0.4
Wfacss.exe	File Version 1.0.1
WindowsEmbeddedTest.exe(equivalent to WES7Test.exe )	2.0.0.11
WinPing.exe	1.0.0.5
Winterm.dll	2.0.0.9
Xwfile.exe	1.0.0.5
Sysprep4man scripts	ConfigMgr2016 Client (part of build)

## QFEs present in this build

Table 12. QFEs

KB2841134	KB2843630	KB3075851
KB2841134	KB2852386	KB3078071
KB2841134	KB2853952	KB3078601
KB2841134	KB2857650	KB3080079
KB2841134	KB2859502	KB3080149



KB2841134	KB2861698	KB3080446
KB2841134	KB2862152	KB3083324
KB2841134	KB2862335	KB3083710
KB2841134	KB2862973	KB3084135
KB2841134	KB2864202	KB3086255
KB2670838	KB2868038	KB3092601
KB2830477	KB2868116	KB3092627
KB2592687	KB2871997	KB3097989
KB2819745	KB2872035	KB3101722
KB2487305	KB2884256	KB3102429
KB2496898	KB2891804	KB3102810
KB2502664	KB2892074	KB3107998
KB2506212	KB2893294	KB3108371
KB2509553	KB2893519	KB3108381
KB2511455	KB2894844	KB3108664
KB2515325	KB2908783	KB3108670
KB2526967	KB2909210	KB3109103
KB2534366	KB2911501	KB3109560
KB2545698	KB2912390	KB3110329
KB2547666	KB2913751	KB3112343
KB2552343	KB2918077	KB3118401
KB2556532	KB2919469	KB3121255
KB2560656	KB2929437	KB3122648
KB2563227	KB2929733	KB3123479
KB2564958	KB2931356	KB3124275
KB2570814	KB2937610	KB3127220
KB2574819	KB2943357	KB3135445
KB2604115	KB2961851	KB3135983



KB2620704	KB2963950	KB3137061
KB2621440	KB2963952	KB3138612
KB2633171	KB2965788	KB3138901
KB2639308	KB2968294	KB3138910
KB2640148	KB2970228	KB3139914
KB2644615	KB2972100	KB3139923
KB2645895	KB2972211	KB3139940
KB2647753	KB2973112	KB3140245
KB2654269	KB2973201	KB3142024
KB2654428	KB2973351	KB3142042
KB2660075	KB2977292	KB3145739
KB2661254	KB2978120	KB3146706
KB2667402	KB2984972	KB3146963
KB2676562	KB2985461	KB3147071
KB2679255	KB2992611	KB3148851
KB2685747	KB2999226	KB3149090
KB2685811	KB3000483	KB3156016
KB2685813	KB3003743	KB3156017
KB2690533	KB3004361	KB3156019
KB2698365	KB3006121	KB3159398
KB2705219	KB3006137	KB3161949
KB2716513	KB3010788	KB3161958
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