Dell Wyse Windows

WES7P WFR3_02

Release Notes

Contents

Release Type and Definition

The WES7P WFR3 (Windows Embedded Standard 7) v9.03 Build 878 is 64bit image for Dell OptiPlex-9020M platform.

WES7P WFR3 v09.03 English Standard Build 878 for Dell OptiPlex-9020M with clonezilla imaging support instead WDM and WSI.

Version

V9.03, Build 878

Release Date

13TH October, 2015

Previous Version

None

Importance

Dell Wyse recommends applying this update during your next scheduled update cycle. The update contains major feature enhancements or changes that help keep your system software current and compatible with other system modules.

1.   New Features

The new features included in this release are:

Ericom Web Connect

The build now includes Ericom web connect client v5.8.0. This is a downloader application that downloads the working application files and executables from the Ericom web connect server.

For more information about server and client architecture, refer http://www.ericom.com/doc/TechnicalReferences/PTWC_Manual.pdf

Citrix Receiver

- USB redirection will work 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.

- To address **TIR75778,** we have added fbwf exclusions for the path \Users\Administrator\AppData\LocalLow and C: \Users\User\AppData\LocalLow under the volume C:\.

  For new users, this exclusions has to be added according to the username used to address the issue with TIR75778.

SCCM2012 SP1 R2 Information

- SCCM information is not available in Programs and Features and Client Information because of the Microsoft design.

- Only the 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 the FBWF Exclusion list.

vWorkspace

After installing vWorkspace, install.txt file is created in the C drive.

Driver Applications in the Build

The following driver applications are now included as part of the build:

- Intel display controller.
- Dell KM632 Wireless Keyboard caps lock indicator application.

C-A-D Tool

The C-A-D Tool is available in the disabled state. You can enable the same with the steps mentioned below:

1) Log into the system using the Admin Account.
2) Disable the Write Filter.
3) Open the command prompt in elevated mode and type the following commands:

    Cd c:\windows\system32

Run "DWKBFilterMon.exe –enable"

4) Restart the thin client.

Flash.sys Driver

A blue screen is displayed if the thin client is not a Dell device, or is not a Windows device, or is not identified based on the security key/BIOS description.

FBWF Cache size

Microsoft allows the FBWF Cache size to vary from a minimum value of 16MB to a maximum value of 1024MB. It is observed that when the cache size is reduced to 16MB, the OS becomes unstable since there is not enough FBWF overlay available to do basic operations. Hence when setting the FBWF cache size from Wyse System Tray it is ensured that the minimum value allowed is 64MB. Also to ensure there is enough RAM available for other OS requirements, the maximum FBWF cache size allowed is one third of available RAM.

Windows Defender

In DELL WYSE images, by default the "Autoupdate of virus definitions" will be disabled. This image will have definitions v1.199.1177.0 created on 5/29/2015.

Manual update of Windows Defender definition is possible through Windows Defender control panel applet and these updates are preserved even though the client is in FBWF enabled state.

Power Term Interconnect

Power Term Interconnect comprises of several robust terminal emulation applications supporting the host access needs of large and small organizations.

VMWare Horizon View Client

VMware Horizon Client for Windows is easy to access your Windows virtual desktop with the best possible user experience on the Local Area Network (LAN) or across a Wide Area Network (WAN).

- Support for Windows 8 and 8.1, Windows 7, Windows Vista, and Windows XP systems.
- Unmatched performance - The adaptive capabilities of the PCoIP display protocol are optimized to deliver the best user experience, even over low-bandwidth and high-latency connections. Your desktop is fast and responsive regardless of where you are.
- Simple connectivity - Horizon Client for Windows is tightly integrated with VMware Horizon for simple setup and connectivity.
- Secure from any location - At your desk or away from the office, your data is delivered securely to you wherever you are. SSL/TLS encryption is always used to protect user credentials, and enhanced certificate checking is performed on the client. Horizon Client for Windows also supports optional RADIUS and RSA Secure ID authentication.

For more information, refer https://www.vmware.com/support/viewclients/doc/horizon-client-windows-release-notes.html

Client Information

For more information on client information, the support site website has been updated to www.dell.com from www.wyse.com

Microsoft Branch Cache Service

Default listening port of Branch Cache service is changed to port 8080. In the Microsoft build, default listening port of Branch Cache service will be 80.This was done to address the TIR77077.

WES7P CloneZilla Imaging onto Optiplex 9020 disk using CloneZilla utility

To carry out the imaging, you must follow the instructions mentioned here:

1. You must need two pen drives; one must be FAT32 formatted and other can be NTFS formatted. We recommend you use 16 GB pen drives.

2. Extract the files from **clonezilla-live-20141208-utopic-amd64.zip**, and then copy all the files and folders enclosed in the zip file to the FAT32 pen drive.

3. Extract the 878_Stoney_River.exe using 7-zip, and then copy the folder 878_Stoney_River to the root of the NTFS pen drive. This is considered as the image source.

4. In the clonezilla fat32 pen drive, go to utils\win64 folder, and then run makeboot64.bat. This will make the pen drive as clonezilla bootable.

5. Connect the bootable pen drive to the Optiplex 9020 device, and then boot the client with the USB option.

6. Press **Enter** to select the first option Clonezilla live (Default settings, VGA 800*600)

   Note: Select means to "Press Enter" in the clonezilla wizard and follow the same in options mentioned here.

7. Select **English** in the Choose Language window.

8. Select **Don't touch keymap** in the configuring console-data window.

9. Select Start Clonezilla.

10. Select device-image option in the **Clonezilla-Opensource Clone System (OCS)** window.

11. Select **local_dev** option in the **Mount Clonezilla image directory** window to assign a pen drive as the image home.

12. Connect the NTFS pen drive which has the image source, and then click **Enter**.

13. In the **Clonezilla-Opensource Clone System (OCS)| Mode:** window, select the NTFS pen drive has the image.

14. Select **/Top_directory_in_the_local_device** in the **Clonezilla-Opensource Clone System (OCS)** window.

15. The Clonezilla displays the disk usage report.

16. Press **Enter** to continue.

17. Select **Beginner** in the **Clonezilla-Opensource Clone System (OCS)** window.

18. Now, you must select **restoredisk** option in the **Clonezilla-Opensource Clone System (OCS): Select mode** window.

19. Select the Clonezilla live image as source image. In this case, it is 878_Stoney_river.

20.	Select the target disk, that is, the hard disk of the client to which you want to restore the image.

21.	Press **Enter** in the **Clonezilla-Opnesource Clone System (OCS)| Mode: restoredisk** window.

22.	Type **y**, and then press **Enter** to continue.

23.	Again, type **y**, and then press **Enter** to continue.

24.	The imaging process is started.

25.	After imaging process is completed, select either **Poweroff** or **Reboot** based on your requirement.

2. OS Architecture

WES7P (64-bit) Image structure

- Image is provided in Clonezilla image file format.
- WES7P build will have 3 partitions – 16 MB Merlin partition, 100MB System partition and the remaining as OS partition.
- The C: drive and its existing contents (except system reserved) are in compressed state. Hence any future files or folders will be compressed.

WES7P 10 (64-bit) Build behavior

IE11

IE11 advances the state of the art in real world performance for applications and sites with enhanced runtime capabilities enabling the next generation of web apps, gaming, and media consumption.

http://technet.microsoft.com/en-in/ie/dn269977.aspx

http://msdn.microsoft.com/en-us/library/ie/bg182636(v=vs.85).aspx

Customizations

1) First run customizations are disabled
2) IE 11 enhanced protection mode is enabled
3) Start page & default page set to www.wyse.com
4) IE Cookies & Cache are redirected to **Z:/** drive.
5) Cache content to 250 MB
6) Clears browsing history on IE exit

IE11 search provider updates

There is a onetime update for the search providers of IE11 when thin clients are connected to internet and users start using the IE11 browser. Icons, search suggestions and other features of IE11 search provider will be updated.

These updates are User specific. This update involves adding the suggested links under favorite bar and Domain suggestions for the

address bar of IE11. This update is very minimal in data size and will not be persisted across reboots in FBWF enabled state.

IE11 Add-ons

- As the enhanced protected mode is ON in this build, pop up will come for add-ons which are not enabled/disabled in IE11.This is applicable only for users who are not part of Administrators group.

    A message box with the message given below is displayed on the IE 11 Browser: "The 'Office Document Cache Handler' add-on from 'Microsoft Corporation' is ready for use."

- As the enhanced protected mode is ON in this build, messages are displayed for add-ons that are not compatible for the users. These messages stay for some seconds and go off. The Lync Browser Helper and Quest URL Redirection add-ons are incompatible. This is applicable only for users who are not part of Administrators group.

    A message box with the message given below is displayed on the IE 11 Browser: "Several add-on's are not compatible with IE enhanced security feature and have been disabled"

- As the enhanced protected mode is ON in this build, messages are displayed for add-ons that are not enabled. This is applicable only for users who are part of Administrators group. The 'Office Document Cache Handler' add-on and 'Quest URL redirection' add-on will come under this category.

    A message box with the message given below is displayed on the IE 11 Browser: "Several add-ons are ready for use".

3. Test Environment

Platforms:

Platform	Part Number	Description
Dell OptiPlex- 9020M	157000-02	PGM,9020,128/500G,V9.03,B878,US

- All the Servers are installed on VMware VCenter Server 5.1.0
- VMView Server: Windows 2K8 R2 Enterprise Server with VM Horizon View Server 5.2/6.0 installed.
- RDP: Windows 2K3 Server, Windows Server 2K8 R2 Enterprise, Windows Server 2K12 and Windows server 2K12 R2.
- Citrix XenDesktop: Windows 2K8 R2 Enterprise with Citrix XenDesktop Server7.5/7.6 installed.
- Citrix XenApp: Windows 2K8 R2 Enterprise with Citrix XenApp Server 6.5/7.6 installed.
- Ericom Power Term: Red Hat Linux Server with Ericom Server 9.2 installed.
- Ericom Web Connect: Windows 2K8 R2 Enterprise with Web Connect 6.0 installed.

4.   Manufacturing Notes

Imaging details for manufacturing

Details for Manufacturing	
Product Name	Dell OptiPlex-9020M
Version	9.03
CPU Type / CPU Speed	Intel(R) Core™i5-4590T CPU @ 2.00 GHz
Security Key information	FF FF FF FF

Details for Manufacturing	
Product Name	Dell OptiPlex-9020M
Version	9.03
CPU Type / CPU Speed	Intel(R) Core™i7-4785T CPU @ 2.20 GHz
Security Key information	FF FF FF FF

Part Numbers:

Part Number	Description
157000-02	**PGM,9020,128/500G,V9.03,B878,US**

5. Tested Peripherals

Category: Smart Card Readers	Model (P/N)	
ActivCard Smart Card Reader	Actividentity USB Reader	
Cherry Smart Card Keyboard	RS 6700 USB	
Omnikey Smart Card Reader	Omnikey 3121	
Category: Converters	**Model (P/N)**	
MCT USB to Parallel Converter Cable	920207-02L	
USB to serial converter (U232-P9)	U232-P9 (Win7)	
Category: Headphones	**Model (P/N)**	
Plantronics- Blackwire C435(Ear phone)	Blackwire C435	
Plantronics- Blackwire C420(Head set)	Blackwire C420	
Plantronics Amplifier DA60 USB Adapter	DA 60	
Jabra Quaded headset UC VOICE 150MS	Jabra 150 MS	
Jabra Quaded headset UC VOICE 550MS	Jabra 550 MS	
Plantronics Blackwire C-320M	C320M	
Plantronics Blackwire C-710	C710	
PLANTRONICS SAVI 440	Savi 440	
PLANTRONICS Blackwire 310	Blackwire 310	
PLANTRONICS savi 740	Savi 740	
Category: Headset	**Model (P/N)**	**Order Code**
Dell Professional Stereo Headset UC300		520-AAGT
Category: Speakers	**Model (P/N)**	
PLANTRONICS Calisto P420 USB Speaker Phone	P420	
PLANTRONICS Calisto 820	820	
PLANTRONICS Calisto P620 Bluetooth Speaker	620	
PLANTRONICS Calisto 540	540	
Category: Printers	**Model (P/N)**	
HP Deskjet Printer Mobile 100	Mobile 100	
HP wireless Inkjet all in one 6525	6525	
HP Laserjet 1320	1320	

DELL B1260dn Printer	B1260dn	
DELL B1265dnf Printer	B1265dnf	
HP Mobile printer 100	100	
Webcams	**Model (P/N)**	**Order Code**
Logitech pro webcam C920	C920	
Microsoft webcam HD 3000	HD 3000	
Logitech C615 Webcam		A5215897
Category: Biometric Readers	**Model (P/N)**	
Lumidigm	V311-00-01	
Lumidigm	M301-00	
Lumidigm	V302-02-S	
Category: Pendrives	**Model (P/N)**	
Lexar JumpDrive 512MB	JDSP512-00-540E	
Transcend JetFlash 700, 32 GB (USB 3.0)	JetFlash 700	
Transcend JetFlash 500, 16 GB (USB 2.0)	JetFlash 500	
kingston Data Traveler G3, 16 GB (USB 2.0)	Data Traveler G3, 16 GB	
kingston Data Traveler G3, 8 GB (USB 2.0)	Data Traveler G3, 8 GB	
Sandisk Cruzer Blade 16 GB (USB 2.0)	Cruzer Blade 16 GB	
Sandisk Cruzer Blade 8 GB (USB 2.0)	Cruzer Blade 8 GB	
Kingston Data Traveler 111, 32 GB (USB 3.0)	Data Traveler 111, 32 GB	
Transcend 16 GB (USB 2.0)	JetFlash 500	
Belkin Ultra mini USB Hub	4 Port USB 2.0	
Category: Keyboard and Mouse	**Model (P/N)**	**Order Code**
DELL Wireless Mouse	KM632/0X3KRC	
DELL Wireless Keyboard	KM632/0X3KRC	
Dell USB mouse	MS111-P	
Dell USB Keyboard	KB212-B	
Dell Wireless Keyboard KM113	KM0113	
Dell Wireless Mouse KM113	KM0113	

Wyse Keyboard (PS2 and USB)	Various	
Wyse Keyboard	P/N: 770506-12L	
Dell USB Keyboard	MS-111p	
Dell USB Optical Mouse		MS111
US English Quietkey KB212-B USB Keyboard		8KUS
US English Dell Smart keyboard KBB813		813US
Category: USB HDD / DVD Drive	**Model (P/N)**	**Comments**
Buffalo Ministation 500 GB USB HDD	Buffalo Ministation	Drive letter should be assigned Manually from Disk Management
Asus Ext DVDRW 3.0	Asus 3.0	
Transcend USB 2.0 card reader	TS-RDP8K	
Category: Signature Pad	**Model (P/N)**	
Epad for signature	P/N: 54-65885	
Category: Device	**Order Code**	**Priority**
2nd DP Adapter Card	IODP	
HDMI Adapter Card	IOHDMI	
PS2 Serial Adapter For Micro	IOPS2	
Dell adapter - DisplayPort to DVI Single-link	470-AANH	
Category: Monitors	**Model (P/N)**	**Priority**
Dell 1905FP Monitor	1905FP	
Dell- E1912H Monitor	E1912H	
Dell- P2210 Monitor	P2210	
Dell-E2014 Tt Monitor	E2014 Tt	
Dell-E2011H Monitor	E2011H	
Dell-P2212H Monitor	P2212H	
Dell-P19133 Monitor	P19133	
Dell- P2412H Monitor	P2412H	
Dell- E1912H Monitor	E1912H	
Dell-S2240 LC Monitor	S2240 LC	

Dell-S2340 LC Monitor	S2340 LC	
Dell-U2711b Monitor	U2711b	
Dell-U3011t LC Monitor	U3011t LC	
Dell-P2314 t Monitor (Touch)	P2314 t	
Dell-P2714 TC Monitor (Touch)	P2714 TC	
Dell U2312 HM Monitor	U2312 HM	
Dell 1505 FP Monitor	1505 FP	
	U2412M	1
	P2314H	2
	P2414H	3
	P1914S	4
	P2214H	5
	E2014H	6
	E2214H	7
	P1913	8
	P2014H	9
	E1916H	10
	S2240T	11
	P2213	12
	E2216H	13

6. Fixed Issues

None

7. Known Issues

The following table lists the known issues in the release:

TIR/CIR	Issue Description
TIR84348	System Defense status in Intel Management and security status showing Not activated.
TIR84406	No display (black screen) is observed with View sonic Monitor.
TIR84481	CAD-MAP Tool is not working when VMWare Horizon client Windows is opened.
TIR84506	WES7P-WFR3:"Realtek HD Audio Manager" icon is not available in control panel applet
TIR84510	"www.wyse.com" site is missing from Restricted sites in Internet options
TIR84537	PCI IDE, ATA Channel 0 and ATA Channel 1 are detected after Activating TPM from BIOS.
TIR84547	Hard Disk is not getting reflected under MY computer (Not assigning a drive letter).
TIR84555	Client does not wake through mouse from Sleep Mode.
TIR84570	WES7P-WFR3: Not able to capture Image when TPM is enabled on the device.
TIR85845	Stoney River: Warning icon seen in system tray for Intel smart connect.
TIR84667	WES7P-WFR3: USB Wake support from standby is not working when the client connected with Cherry (Model: RS 6700 USB) KB.

Dependencies

- BIOS is not part of the build, hence BIOS version A04 for OptiPlex -9020 has to be updated before starting imaging process.
- Clonezilla tools have to be downloaded from the Internet as it is not a part of the Image.

8. Build Information

General build details:

Platform(s)	Dell OptiPlex-9020M
Product	WES7P WFR3
Build Version	9.03
Build Number	878.466GB
Localization	English

Platform Specific Build Details

- Dell OptiPlex-9020MM Platform

Version	9.03
Build Number	878
Build Package Name	878_Stoney_River.exe
Build Size (Bytes)	8,154,361,108 bytes
MD5 Checksum	B8096E97B47619EB744577CDEBFDFEB3
Checksum32	6E1FDE0D
Localization	English
Security Key (Client Information)	K: FF FF FF FF

Note:

- The WES7P WFR3 builds Version 9.03 software will be released in ".exe" format only.

Boot Sequence

Boot sequence is not applicable as BIOS is not part of the build.

Energy Star Test

This product meets the ENERGY STAR version 6.0 thin client requirement. Below are the values displayed 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

Display Resolution Supported by OS

Horizontal	Vertical
640	480
720	480
800	480
800	600
1024	480
1024	600
1024	768
1152	864
1280	600
1280	720
1280	768
1280	1024
1360	768
1368	768
1400	1050
1600	1200

1792	1344
1800	1440
1920	1080
1920	1200
1920	1440
2048	1152
2048	1536
2560	160 0
	2160

Note: This is the resolution listed in OS and the same may not supported for all monitors.

Used and Free Space details

Platforms	Flash Size	Used Space	Free Space
Dell OptiPlex-9020M	500 GB	10.1 GB	455 GB
Dell OptiPlex-9020M	128 GB	10.1 GB	109 GB

Note: Used space and free space details are approximate. It varies depending on the Drivers or Applications installed based on hardware configuration.

9.   Operating Systems (OS) Details

Driver Details

Drivers/Files	Platform	Version (If applicable)
BIOS	OptiPlex 9020	A04
Display Adapter	OptiPlex 9020	Intel(R) HD Graphics 4600 : 10.18.10.3412
Ethernet Adapter	OptiPlex 9020	Intel® Ethernet Connection l217-LM : 12.12.50.4
Audio	OptiPlex 9020	Realtek High Definition Audio- 6.0.1.6032 Intel® Display Audio – 6.16.0.3131

Wyseramdisk.sys (Wyse RAM Disk driver)	OptiPlex 9020	5.0.2183.4
Flash.sys	OptiPlex 9020	1.0.6.2

Applications Details

Applications/Features/Files	Version (If applicable)
RDC	6.3.9600 (RDP 8.1 Supported)
Citrix Receiver (Standard)	4.2.0.10 (In Citrix About)
Citrix Online Plugin	14.2.0.10 (In client Information , Programs and Features)
Citrix HDX Real Time Media Engine	1.6
Windows Media Player	12.0.7601.18150
Internet Explorer	11.0.9600.17420
Power Term Web Connect Start	5.8.0
Power Term Interconnect	10.2.0.0.20140813.1
VMware Horizon View Client	3.3.0.25749 (In Client Application , Programs and Features) 3.3.0.2507564 (In About VMware Horizon Client)

vworkspace Connector for windows	8.5.307.1955
Adobe Flash player - ActiveX	15.0.0.239
Adobe Flash player - Plugin	15.0.0.239
Tight VNC	2.6.4.0
Microsoft Lync Vdi 2013	15.0.4420.1017
.NET Framework	4.5.50709 (4.5.1)
WSUS	Supported
WCM	(Not supported on WFR3 build)
Bit locker with TPM	Supported
Windows Multi touch	Supported
Windows Defender definition	1.199.1177.0 dated 5/29/2015
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
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
Dell Wyse Wallpaper on All Users	Supported
Registry Filter	Supported
DirectX	11
File-based write filter manager – fbwfmgr.exe	1.0.299.0
Ntoskrnl.exe	6.1.7601.18738
ArchiveInfo.exe	1.0.0.3
BAActive.exe	1.0.0.7 (Not supported on WFR3 build)
ClientInformation.exe	3.0.0.32
CustomFields.exe	2.0.0.7 (Not supported on WFR3 build)
Hagent.exe	6.3.4.9 (Not supported on WFR3 build)

HAgent_UI.exe	1.0.2.25 (Not supported on WFR3 build)
NumLock_Toggle.exe	1.0.0.3
NumLockTrigger.exe	1.0.0.3
OS_HardDiskVolume.exe	1.0.0.3
TimeZonePreservation.exe	1.0.0.3
OSActive.exe	1.0.0.3 (Not supported on WFR3 build)
PnPApp.exe	1.0.0.13(Not supported on WFR3 build)
RAMDisk.exe	1.0.0.6
WDM.exe	1.0.3.6(Not supported on WFR3 build)
Wfacss.exe	1.0.1.2 (Not supported on WFR3 build)
Winlog.exe	2.0.0.3
WinPing.exe	1.0.0.4 (Not supported on WFR3 build)
Winterm.dll	2.0.0.8 (Not supported on WFR3 build)
Xwfile.exe	1.0.0.1
Sysprep4man scripts	ConfigMgr2012SP1 Client (part of build)

WindowsEmbeddedTest.exe (equivalent to WES7Test.exe)	2.0.0.9 (Not supported on WFR3 build)
Drvmgmt.exe	1.0.2.15
CAD MAP Tool - DWKbFilter.sys 　　　DWKbFilterMon.exe DWKbFilterWatchdog.exe	2.3.0.2 2.2.0.3 2.2.0.3
Disk_Size.exe	3.0.0.4
Diagnostic Utility for Internet Explorer	11.0.9600.16428
Intel® Network Connections	19.2.104.00
Intel® Smart Connect Technology	5.0.10.2848
Intel® Management engine components	10.0.2.1000
Intel® Rapid Storage technology	13.0.0.1098
Office XML Handler	15.0.4420.1017
GKUPRO2D	2.0.0
Dell KM632 wireless Keyboard Caps Lock Initiator	2.1.10.0604
Dell Open Print Driver	1.91.7882
Realtek Audio COM Components	1.0.2
Print Ticket Translation Database	9.2.198.1

Thin Print Viewture	9.4.1006.1
Windows media Center	6.1.7600.16385
MicrosoftVisualC++2010x64 Redistributable	1.0.40219
MicrosoftVisualC++ 2005 Redistributable X64	8.0.61000
MicrosoftVisualC++ 2008 Redistributable X86	9.0.30729.4148
Microsoft Visual C++ 2010 x86 Redistributable	10.0.10219

10. QFE's Added in the Release

Updates

Total QFE's Present in this build (Updated till April, 2015)

KB2592687	KB2819745	KB2487305	KB2492386	KB2515325
KB2552343	KB2563227	KB2574819	KB2598845	KB2640148
KB2685811	KB2685813	KB2709981	KB2718704	KB2719857
KB2750841	KB2761217	KB2786081	KB2791765	KB2799926
KB2809215	KB2818604	KB2820331	KB2834140	KB2843630
KB2857650	KB2859502	KB2868116	KB2882822	KB2888049
KB2913431	KB2918077	KB2919469	KB2928562	KB2929733
KB3004394	KB3006121	KB3006625	KB3008627	KB3013410
KB2970228	KB2841134	KB2670838	KB3014406	KB3020338

KB2534366	KB2545698	KB2547666	KB3021917	KB976902
KB2660075	KB2661254	KB2685747	KB2654644	KB3000988
KB2726535	KB2729094	KB2732487	KB2985461	KB2980245
KB2763523	KB2800095	KB2808679	KB2908783	KB2891804
KB2846960	KB2852386	KB2853952	KB2893519	

Security Updates

KB2511455	KB2536275	KB2544893	KB2556532	KB2560656
KB2604115	KB2619339	KB2620704	KB2621440	KB2631813
KB2676562	KB2690533	KB2698365	KB2705219	KB2706045
KB2719033	KB2724197	KB2727528	KB2736422	KB2742599
KB2807986	KB2813170	KB2813347	KB2813430	KB2832414
KB2847927	KB2861191	KB2861698	KB2862152	KB2862335
KB2864202	KB2868038	KB2868626	KB2871997	KB2872339
KB2893294	KB2894844	KB2898785	KB2900986	KB2909210
KB2922229	KB2925418	KB2929437	KB2931356	KB2936068
KB2953522	KB2957189	KB2957503	KB2957509	KB2957689
KB2963950	KB2963952	KB2965788	KB2968294	KB2971850
KB2973112	KB2973201	KB2973351	KB2976627	KB2976897
KB2978668	KB2978742	KB2979570	KB2984972	KB2987107
KB3003743	KB3004361	KB3005607	KB3010788	KB3011780
KB3025390	KB3030377	KB3032323	KB3033889	KB3034196
KB3035132	KB3037574	KB3042553	KB3045685	KB3046049
KB2479943	KB2506212	KB2509553	KB976932	KB2962872

KB2564958	KB2579686	KB2585542	KB3035126	KB3035131
KB2644615	KB2654428	KB2667402	KB3046306	KB3046482
KB2709715	KB2712808	KB2716513	KB3034344	KB2992611
KB2770660	KB2799494	KB2803821	KB3046269	KB3019215
KB2835361	KB2839894	KB2840631	KB3000483	KB3003057
KB2862966	KB2862973	KB2864058	KB3021674	KB3022777
KB2884256	KB2887069	KB2892074	KB2972211	KB2972280
KB2909921	KB2911501	KB2918614	KB2977629	KB2978120
KB2937610	KB2939576	KB2943357	KB2972100	KB2977292
KB2961072	KB2961851			

Total Hotfixes Present in this Build

KB2570814	KB2612905	KB2639308	KB2647753	KB2679255
KB3009736	KB3014793	KB947821	KB2496898	KB2502664
KB2526967				