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Invasive Cardiology Security Website

Interventional - Invasive Cardiology

Product Group:	Interventional Invasive Products
Products:	Mac-Lab IT/XT/XTi, CardioLab IT/XT/XTi, SpecialsLab and ComboLab IT/XT/XTi Recording Systems, Centricity Cardiology Data Management Systems
Version	6.9.6 Release 1
Subject:	Security Information
Date:	30 August 2019

Summary

The following information is provided to GE Healthcare Technologies customers in regards to known technical security vulnerabilities associated with Mac-Lab® Hemodynamic, CardioLab® Electrophysiology, SpecialsLab and ComboLab IT Recording Systems for Cath Lab, EP Lab and other interventional labs as well as the Centricity® Cardiology Data Management Systems.

Security Patch Base Configuration

The security patch base configuration of the Mac-Lab IT/XT/XTi and CardioLab IT/XT/XTi product at release is listed within the MLCL Base Configuration under the Hemodynamic, Electrophysiology and Cardiovascular Information Technologies section of the http://www3.gehealthcare.com/en/Support/Invasive_Cardiology_Product_Security website.

Process

The following actions are taken whenever Microsoft/OEMs releases new security patches:

- The Invasive Cardiology Engineering Team performs a security analysis process for supported Mac-Lab IT/XT/XTi, CardioLab IT/XT/XTi, GE Client Review and INW Server hardware/software.



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- If a vulnerability meets Mac-Lab IT/XT/XTi and CardioLab IT/XT/XTi validation criteria, the vulnerability is communicated through the GEHC Product Security Database and Invasive Cardiology Security Website within Three weeks of the patch release.
- Upon validation of the Mac-Lab IT/XT/XTi and CardioLab IT/XT/XTi vulnerability, the GEHC Product Security Database and Invasive Cardiology Security Website and affected Mac-Lab IT/XT/XTi and CardioLab IT/XT/XTi Security Patch Installation Instructions are updated.

The Mac-Lab IT/XT/XTi and CardioLab IT/XT/XTi vulnerability validation criteria are as follows: Any vulnerability that allows malware to alter or deny Mac-Lab IT/XT/XTi and CardioLab IT/XT/XTi functionality and/or infect and propagate through normal system use.

Customers are responsible to stay informed with Microsoft vulnerability notifications and to visit the Invasive Cardiology websites to understand the Mac-Lab IT/XT/XTi and CardioLab IT/XT/XTi impact. Once a security patch is validated, customers are responsible for the installation of security patches. All Mac-Lab IT/XT/XTi and CardioLab IT/XT/XTi Security Patch Installation Instructions are available on the Invasive Cardiology Security Website below the Validated Patches table.

Vulnerabilities exposed after the Mac-Lab IT/XT/XTi and CardioLab IT/XT/XTi product release which do not meet the criteria to be validated are not listed within the GEHC Product Security Database and Invasive Cardiology Security Website. These vulnerabilities are deemed to be non-critical and/or outside normal clinical workflow of the Mac-Lab IT/XT/XTi, CardioLab IT/XT/XTi and Centricity INW systems and will not be validated. Unlisted patches should not be installed on the products in order to eliminate malfunction and breakdown risks.



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Revision History

Revision	Date	Comments
1.0	25 September 2017	• 6.9.6 document separation (old and new procedures sections for patches update) • Qualified KB4034664 August Monthly Rollup • Added 6.9.6 Installation paths for simplifying patches installation • September Unqualified Patches
2.0	27 October 2017	• Updated document with October Unqualified Patches
3.0	20 November 2017	• Updated document with October qualified Patches
4.0	11 December 2017	• November Unqualified Patches
5.0	20 December 2017	• Updated document for Patch installation paths and statement included to uninstall previous monthly patches prior to installation of October monthly patch on the server
6.0	31 January 2018	• Qualified November and December monthly rollups with other patches. Also added January Unqualified patches
7.0	9 March 2018	• Added Unqualified February Patch • Added missing qualified patches • Qualified minimum password length changes • Changed verbiage from "Patch Refresh" to "Patch Updates" • Further MLCL System Security Recommendation
8.0	20 April 2018	• Added January, February, March and April Qualified Patches • Updated "Further MLCL Systems Security Recommendations" section and moved the section Optional Security Updates
9.0	30 April 2018	• Added "Optionally Remove Abode Reader on INW Server" section to the optional section • Added Unqualified April Patch
10.0	17 May 2018	• Added May Qualified Patches • Added .NET patches for versions 3.5 SP1, 4.5.2 • Added Microsoft Office Patches
11.0	29 June 2018	• Added Unqualified June Patch



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12.0	5 September 2018	Added Unqualified August Patch
13.0	12 September 2018	- Qualified June, July, August and September Patches - Qualified .Net Framework Patches - Qualified Microsoft Office 2010 Patches - Qualified Z600 BIOS update - Qualified ML350p Gen8 BIOS update - Qualified DL370 Gen6 BIOS update
14.0	5 December 2018	Added Unqualified October Patch
15.0	10 May 2019	- Qualified October 2018, November 2018, December 2018, January 2019, February 2019 and March 2019 - Qualified .Net Framework Patches - Qualified Microsoft Office 2010 Patches - Added instructions to disable 3DES to the optional section - Added instructions to disable SMBv2 Signing to the optional section - Added instructions to clean up C:\ Drive - Added instructions to remove Authenticated Users from INW server - Added Adobe Reader DC MUI Installation and Configuration
16.0	24 May 2019	- Qualified April 2019 and May 2019 security patches - Added instructions to optionally Disable Remote Desktop Services
17.0	20 Jun 2019	Updates as part of SPR HCSDM00555264 – Renamed section MLCL V6.9.6 2018 Patch Updates 7 to MLCL V6.9.6 2019 Patch Updates 7
18.0	27 Jun 2019	- Added Unqualified June 2019 patches - Removed instructions to disable 3DES protocol
19.0	5 August 2019	Added Unqualified July 2019 patches
20.0	19 August 2019	Added instructions to disable Remote Desktop Services per CVE-2019-1181/1182
21.0	30 August 2019	Added Unqualified August 2019 patches



Installation of the Security Patches on MLCL systems

Requirements:

- Updates may be applied at any time other than while the Mac-Lab IT/XT/XTi, CardioLab IT/XT/XTi or SpecialsLab application is open.
- Updates must be re-applied if the system is re-imaged.
- Updates apply to both networked and standalone systems.
- Best practice is to update all applicable MLCL systems at the site.

This document applies to 6.9.6R1 only. Please verify that you are running 6.9.6 using the following procedure before proceeding:

1. Launch the Mac-Lab CardioLab application.
2. Select **Help > About Mac-Lab** (or **CardioLab**, as applicable).
3. Verify the version number is **6.9.6 Release 1**.
4. Click **Close**.
5. Close the application.

Recommendation: Use Internet Explorer (IE) for Catalog download. If you are using the cart feature to download patches, to see the cart it requires opening another tab or new window for <http://catalog.update.microsoft.com>

REFER TO [6.9.6 R1 PATCH INSTALLATION PATHS](#) SECTION FOR INSTRUCTIONS ON HOW TO APPLY THE NECESSARY PATCHES ACCORDING TO YOUR SYSTEM. THE FOLLOWING INSTRUCTIONS ARE A HOW TO AND ARE OPTIONAL UP TO THE PATCH INSTALLATION SECTION.

How to Log On to Acquisition and Review Systems

When starting up an Mac-Lab, CardioLab or SpecialsLab Acquisition or Review system, an auto-logout sequence starts and automatically logs on to the operating system. To install a security patch, the user must be logged on as **mlcltechuser**.



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NOTE: Password information is contained within the Security Guide Manual. Otherwise, contact the system administrator or GE Technical Support for current password information.

1. Power on the Acquisition system.
2. The system boots up to the **Custom Shell** screen.
3. Press **Ctrl + Action + Del**.
4. Click **Logoff**. On Windows XP, click **Logoff** again.
5. Click **OK**.
6. Immediately hold down the **Shift** key until the login window is displayed.
7. Log on to the operating system locally as **mlcltechuser**.
8. Log on to the **Custom Shell** locally as **mlcltechuser**.

How to Log On to the Centricity Cardiology INW Server

Password information is contained within the Security Guide Manual. Otherwise, contact the system administrator or GE Technical Support for current password information. Logon to the INW Server as **administrator**

How to Log On to MLCL Software Only Systems

Since Software Only systems are supported by the customer, the system needs to be logged into with an **administrator** account.

CVE-2019-1181/1182 | Remote Desktop Services Remote Code Execution Vulnerability

We are in the process of qualifying the patch that addresses this vulnerability however, we recommend as a mitigation, that the RDS/Terminal Service is disabled on all ML/CL systems. Refer to the instructions below on disabling the service.

Disable Remote Desktop Services on Windows 7

On Windows 7, do the following to disable Remote Desktop Services:

1. Right-click on **Computer** and select **Properties**



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2. On the **System** window, click **Remote settings**
3. Uncheck the following option if it is checked:
Allow Remote Assistance connections to this computer
4. Select the following option if it is not already selected:
Don't allow connections to this computer
5. Click **OK** to close the **System Properties** window
6. Click **Start > Control Panel > Administrative Tools > Services**
7. Double-click on the entry for **Remote Desktop Services**
8. Set the **Startup type** to **Disabled**
9. Click **OK** to close the **Remote Desktop Services Properties** window
10. Reboot the system

Disable Remote Desktop Services on Windows 2008 R2

On Windows Server 2008 R2, do the following to disable Remote Desktop Services:

1. Right-click on **Computer** and select **Properties**
2. On the **System** window, click **Remote settings**
3. Uncheck the following option if it is checked:
Allow Remote Assistance connections to this computer
4. Select the following option if it is not already selected:
Don't allow connections to this computer
5. Click **OK** to close the **System Properties** window
6. Click **Start > Administrative Tools > Services**
7. Double-click on the entry for **Remote Desktop Services**
8. Set the **Startup type** to **Disabled**



9. Click **OK** to close the **Remote Desktop Services Properties** window
10. Reboot the system

How to Install Printer Firmware

The system which will apply the firmware to the printer should be provided by the customer.

NOTE: Mac-Lab CardioLab system should not be used to download and/or apply the Printer Firmware.

- Follow the download link in the table
- Select the appropriate printer
- Select English and the applicable MLCL operating system
- Select English and under the Firmware category select the applicable Firmware Update Utility and Click Download
- Launch the firmware installer and follow the instructions to complete the firmware update

How to Install HP NIC Driver on the INW Server (HP ProLiant ML350 G8)

1. Using a non-MLCL system, visit the URL and download **cp025039.exe**.
2. Place **cp025039.exe** on removable media.
3. Ensure the INW Server is the HP ProLiant ML350 G8, log on to the server as **administrator**.
4. Insert the removable media and launch the **cp025039.exe** application.
5. Follow the installation instructions to complete the installation.

How to Install HP NIC Driver on the INW Server (HP ProLiant DL370 G6)

1. Using a non-MLCL system, visit the URL and download **cp024564.exe**.
2. Place **cp024564.exe** on removable media.
3. Ensure the INW Server is the HP ProLiant DL370 G6, log on to the server as **administrator**.
4. Insert the removable media and launch the **cp024564.exe** application.
5. Follow the installation instructions to complete the installation.



ML350p Gen8 (P72) BIOS Update to v 2015.07.01 (B) Instructions:

1. Go to the HP Customer Support - Software and Driver Downloads website:
https://support.hpe.com/hpsc/swd/public/detail?swItemId=MTX_13ce4f3fc79b4433873342345b
2. Select **Download** for HP ML350p Gen8 Server BIOS 2015.07.01 (B)
3. Log on to the ML350p Gen8 Server as **administrator**.
4. Run the downloaded **cp031045.exe** file.
5. Click on **Run**
6. Click on **Install**
7. Follow the onscreen instructions, select **close** after installation is complete.
8. Select **Yes** to reboot.
9. The BIOS update will take a few minutes, do not remove power during update.
10. After the update, on boot screen before Windows launches, verify the **ProLiant System BIOS – P72 (01/07/2015)** on the top of the screen appears.

ML350p Gen8 (P72) BIOS Update to v2018.01.22 Instructions:

11. Go to the HP Customer Support - Software and Driver Downloads website:
https://support.hpe.com/hpsc/swd/public/detail?sp4ts.oid=5195931&swItemId=MTX_58f2f298203c4664a6e5c9402d&swEnvOid=4184#tab1
12. Click on **Download** for System ROMPaq Firmware Upgrade for HP ProLiant ML350p Gen8 (P72) Servers (For USB Key-Media)
13. Obtain a formatted USB Key media
14. Download the SoftPaq to a directory on a system running Microsoft Windows 2000, Microsoft Windows XP, Microsoft Windows Vista, Microsoft Windows 7, Microsoft Windows Server 2003, Microsoft Windows Server 2008, or Microsoft Windows Server 2008 R2 and change to that directory
15. From that drive and directory, execute the downloaded SoftPaq file: Simply double click on the SP99236.exe file and follow the installation wizard to complete the SoftPaq installation process. At the end of a successful installation of the SoftPaq a **web page** will automatically appear to provide you with the different methods for restoring and/or upgrading the firmware on the system
16. Click on **Create a bootable USB Key**
17. Click on **Launch HPE USB key Setup Creation Utility**
18. Click on **Run**
19. Click on **Start**
20. Click on **OK** when complete
21. Insert this USB Key into the USB Key port of the system to be updated and power the system on
22. Using your keyboard use **F11** to select **Boot Menu**
23. Using your keyboard select **#3 One Time Boot to USB DriveKey**



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24. **Ready To Flash** window will appear
25. Click on **Continue** or Use the Keyboard **Enter** Key to Continue
26. After successful installation another window will appear
27. Click on **Exit** or use the keyboard **Esc** key to exit
28. Use the Power button to restart the system.
29. After the update, on boot screen before Windows launches, verify the **ProLiant System BIOS – P72 (01/22/2018)** on the Top of the screen appears.

ML350p Gen8 BIOS Update to 5/21/2018 Instructions:

1. Go to the HP Customer Support - Software and Driver Downloads website:
https://support.hpe.com/hpsc/swd/public/detail?sp4ts.oid=5195931&swItemId=MTX_3a5fbdd653f94fac9e2a12e8dc&swEnvOid=4184
2. Select **Download** for HP ML350p Gen8 Server BIOS 5/21/2018
3. Log on to the ML350p Gen8 Server as **administrator**.
4. Run the downloaded **cp036431.exe** file.
5. Click on **Run**
6. Click on **Install**
7. Follow the onscreen instructions, select **close** after installation is complete.
8. Select **Yes** to reboot.
9. The BIOS update will take a few minutes, do not remove power during update.
10. After the update, on boot screen before Windows launches, verify the BIOS version 5/21/2018 on the top of the screen appears.

DL370 Gen6 (P63) BIOS Update to v2018.02.22 Instructions:

1. Go to the HP Customer Support - Software and Driver Downloads website:
https://support.hpe.com/hpsc/swd/public/detail?swItemId=MTX_df78827f61164b6f952314da7c
2. Select **Download** for HP DL370p Gen6 Server BIOS 2018.02.22
3. Log on to the DL370p Gen6 Server as **administrator**.
4. Run the downloaded **cp035397.exe** file.
5. Click on **Run**
6. Click on **Install**
7. Follow the onscreen instructions, select **close** after installation is complete.
8. Select **Yes** to reboot.



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9. The BIOS update will take a few minutes, do not remove power during update.
After the update, on boot screen before Windows launches, verify the **ProLiant System BIOS – P63 (02/22/2018)** on the top of the screen appears

DL370 Gen6 BIOS Update to 5/21/2018 Instructions:

1. Go to the HP Customer Support - Software and Driver Downloads website:
https://support.hpe.com/hpsc/swd/public/detail?sp4ts.oid=3890183&swItemId=MTX_37660617800b4f3db17cb11599&swEnvOid=4184
2. Select **Download** for HP DL370 Gen6 Server BIOS 5/21/2018
3. Log on to the DL370 Gen6 Server as **administrator**.
4. Run the downloaded **SP99324.exe** file.
5. Click on **Run**
6. Click on Next
7. Select **I accept the terms in the license agreement**
8. Click on Next to accept the default path
9. Web page opens
10. Click on **Create a bootable USB Key**
11. Click on **Launch HPE USB key Setup Creation Utility**
12. Click on **Run**
13. Click on **Start**
14. Click on **OK** when complete
15. Insert this USB Key into the USB Key port of the system to be updated and power the system on
16. Using your keyboard use **F11** to select **Boot Menu**
17. Using your keyboard select **#3 One Time Boot to USB DriveKey**
18. **Ready To Flash** window will appear
19. Click on **Continue** or Use the Keyboard **Enter** Key to Continue
20. After successful installation another window will appear
21. Click on **Exit** or use the keyboard **Esc** key to exit
22. Use the Power button to restart the system.
23. After the update, on boot screen before Windows launches, verify the **ProLiant System BIOS – P72 (05/21/2018)** on the Top of the screen appears.

Z600 BIOS Update to v3.61 Instructions:

1. Go to the HP Customer Support - Software and Driver Downloads website:



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2. <https://support.hp.com/us-en/drivers/selfservice/hp-z600-workstation/3718663>
3. Select **BIOS**.
4. Select **Download** for HP Z600 Windows Workstation System BIOS 3.61 Rev.A
5. Log on to the z600 computer as **administrator**.
6. Run the downloaded **sp84160.exe** file.
7. Select **Yes** to allow.
8. Click on Next
9. Select **I accept the terms in the license agreement**.
10. Click on Next
11. Select **View Contents of the HPQFlash folder**. This opens folder:

C:\swsetup\SP84160\HPQFlash
12. Run **HPQFlash.exe**.
13. Select **Yes** to allow.
14. Click on Next and Next again
15. Follow the onscreen instructions, select **Continue** to restart
16. The BIOS update will take a few minutes, do not remove power during update. The computer will Reboot during this update.
17. After the update, on the first boot screen before Windows launches, verify the BIOS version 3.61 on the bottom left of the screen appears.

OPTIONAL – How to Install INW Server Performance Enhancement

The following patches do not resolve security vulnerabilities and are optional. These patches may improve network performance. The installation procedure below must be followed and all listed patches deployed together. This deployment may take up to 12 hours, the large percentage within the KB2775511 installation.

1. Using a non-MLCL system, visit and download the following patches to removable media.
Visit <http://catalog.update.microsoft.com/> and enter the below KB numbers to access the patches.
KB2775511 - <http://support.microsoft.com/kb/2775511>
KB2732673 - <http://support.microsoft.com/kb/2732673>
KB2728738 - <http://support.microsoft.com/kb/2728738>
KB2878378 - <http://support.microsoft.com/kb/2878378>

The following patches are summarized at KB2473205 - <https://support.microsoft.com/en-us/kb/2473205>
KB2535094 - <http://support.microsoft.com/kb/2535094> Download at - <https://support.microsoft.com/en-us/hotfix/kbhotfix?kbnum=2535094&kbIn=en-us>



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KB2914677 – <http://support.microsoft.com/kb/2914677> Download at - <https://support.microsoft.com/en-us/hotfix/kbhotfix?kbnum=2914677&kbIn=en-us>
KB2831013 – <http://support.microsoft.com/kb/2831013> Download at - <https://support.microsoft.com/en-us/hotfix/kbhotfix?kbnum=2831013&kbIn=en-us>
KB3000483 – <http://support.microsoft.com/kb/3000483> Download at - <http://catalog.update.microsoft.com/>
KB3080140 – <http://support.microsoft.com/kb/3080140> Download at - <http://catalog.update.microsoft.com/>
KB3044428 – <http://support.microsoft.com/kb/3044428> Download at - <https://support.microsoft.com/en-us/hotfix/kbhotfix?kbnum=3044428&kbIn=en-us>

2. Log on to the INW Server as **Administrator**.
3. Insert the removable media and install the patches in the order listed above.
4. Follow the Microsoft installation instructions to complete the installation of the patches.
5. Select **Windows Start -> Run** and enter **Regedit** and Enter.
6. In **Regedit** window, navigate to **HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\services\Tcpip**
7. In the dialog Menu, select **File -> Export**. Name the file **MLCLRegSave.reg** and place in the **C:\Temp** directory.
8. In Regedit windows, from **Tcpip** navigate to **Parameters**.
9. In the dialog Menu, select **Edit -> New -> DWORD (32-bit) Value**. A new entry is created and name it '**MaxUserPort**'.
10. Right click on '**MaxUserPort**', select **Modify** and enter the value **65534** with a base of **Decimal**.
11. Follow the same procedure above and create a new entry named '**TcpTimedWaitDelay**'. Enter the value **60** with a base of **Decimal**.
12. Exit the **Regedit** dialog.
13. Reboot the INW Server.

OPTIONAL – How to Install Plugin 20007 – Disable SSL V2/V3 – KB187498

1. Log on to Windows as **Administrator** or a member of that group.
2. Open a command prompt and enter the following commands:
3. REG ADD "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\SSL 2.0" /f
4. REG ADD "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\SSL 2.0\Client" /v DisabledByDefault /t REG_DWORD /d 00000001 /f
5. REG ADD "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\SSL 2.0\Server" /v DisabledByDefault /t REG_DWORD /d 00000001 /f
6. REG ADD "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\SSL 2.0\Server" /v Enabled /t REG_DWORD /d 00000000 /f
7. REG ADD "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\SSL 3.0" /f



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8. REG ADD "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\SSL 3.0\Server" /f
9. REG ADD "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\SSL 3.0\Server" /v DisabledByDefault /t REG_DWORD /d 00000001 /f
10. REG ADD "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\SSL 3.0\Server" /v Enabled /t REG_DWORD /d 00000000 /f
11. Close the command prompt.

OPTIONAL – How to Install Plugin 35291 –Weak Hashing

- 1) Load your security certificate in SQL Server on each ML/CL system in the network (server, acquisitions, reviews and virtual reviews) or the ML/CL standalone acquisition.
- 2) Disable RDP on each member of the network.
 - a) My Computer>Properties>Remote settings>Remote
 - b) Check "Don't allow connections to this computer".
 - c) Click ok and reboot.

OPTIONAL – How to Install Plugin 65821 –SSL RC4 Cipher Suites Supported

1. Log on to Windows as **Administrator** or a member of that group.
2. Open a command prompt and enter the following commands:
3. REG ADD "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Ciphers\RC4 128/128" /f
4. REG ADD "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Ciphers\RC4 128/128" /v Enabled /t REG_DWORD /d 00000000 /f
5. REG ADD "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Ciphers\RC4 40/128" /f
6. REG ADD "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Ciphers\RC4 40/128" /v Enabled /t REG_DWORD /d 00000000 /f
7. REG ADD "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Ciphers\RC4 56/128" /f
8. REG ADD "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Ciphers\RC4 56/128" /v Enabled /t REG_DWORD /d 00000000 /f
9. Close the command prompt.

OPTIONAL – How Remove Vulnerability for Plugin 63155 – Microsoft Windows Unquoted Service Path Enumeration



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1. Log on to Windows as Administrator or a member of that group
2. Open Regedit do the following
 - a. On Windows 7
 - i. Navigate to HKLM\System\CurrentControlSet\Services\RtkAudioService
 - ii. Change the imagepath key value from:
C:\Program Files\Realtek\Audio\HDA\RtkAudioService.exe
To:
"C:\Program Files\Realtek\Audio\HDA\RtkAudioService.exe"
Note: The leading and trailing Quote marks are part of the key value. The quotes are what removes the vulnerability
 - b. On Windows 2008R2
 - i. Navigate to HKLM\System\CurrentControlSet\Services\Gems Task Scheduler
 - ii. Change the imagepath key value from:
C:\Program Files (x86)\GE Healthcare\MLCL\Bin\ArchiveUtility\GEMS_TaskSvc.exe
To:
"C:\Program Files (x86)\GE Healthcare\MLCL\Bin\ArchiveUtility\GEMS_TaskSvc.exe"
Note: The leading and trailing Quote marks are part of the key value. The quotes are what removes the vulnerability

OPTIONAL – How to Disable the SMB1 Protocol

NOTE: SMBV2 Signing might result in nonfunctional VIVID interface with Acquisition system

1. Log on to Windows as **Administrator** or a member of that group.
2. Open a command prompt and enter the following commands:
3. REG ADD "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanServer\Parameters" /f
4. REG ADD "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanServer\Parameters" /v SMB1 /t REG_DWORD /d 00000000 /f
5. sc.exe config lanmanworkstation depend= bowser/mrxsmb20/lsi
6. sc.exe config mrxsmb10 start= disabled

OPTIONAL – How to Configure Required SMBv2 Signing - SMBv2 signing not required

NOTE: SMBV2 Signing might result in nonfunctional VIVID interface with Acquisition system



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1. Log on to Windows as **Administrator** or a member of that group.
2. Open a command prompt and enter the following commands:
3. REG ADD "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanServer\Parameters" /f
4. REG ADD "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanServer\Parameters" /v RequireSecuritySignature /t REG_DWORD /d 1 /f
5. Close the command prompt.

OPTIONAL - CDrive Disk Space Cleanup

Follow the below instructions to cleanup CDrive disk space on 6.9.6 R1 Review workstations and Virtual Review systems only.

- 1) Note the following login requirements:
 - On Review workstations and Virtual Review systems, you must be logged in as member of **domain** administrator group to Windows and Custom Shell.
- 2) Open **Windows Explorer**.
- 3) Click **Organize > Folder and search options > View**.
- 4) Select **Show hidden files, folders, and drivers**.
- 5) Deselect **Hide protected operating system files (Recommended)**.
- 6) If prompted, click **Yes**.
- 7) Click **OK**.
- 8) If present, permanently delete the contents of the following folders, if prompted click **Continue**:
 - C:\Windows\SoftwareDistribution\Download
 - C:\Users\MLCLLogonUser\AppData\Local\Temp
 - C:\Users\MLCLLogonUser.<domainname>\AppData\Local\Temp
 - C:\Users\MLCLTechUser\AppData\Local\Temp
 - C:\Users\MLCLTechUser.<domainname>\AppData\Local\Temp
 - C:\Users\MLCLUser\AppData\Local\Temp
 - C:\Users\MLCLUser.<domainname>\AppData\Local\Temp
 - C:\Temp

Note: On Virtual Review system do not delete **C:\Temp\VirtualReviewBanner.reg** and **C:\Temp\Tools** folder.

 - C:\Windows\Temp
 - C:\Windows\Logs
 - C:\Windows\Installer\\$\PatchCache\$\Managed
- 9) Click **Organize > Folder and search options > View**.



- 10) Select **Don't show hidden files, folders, or drivers**.
- 11) Select **Hide protected operating system files (Recommended)**.
- 12) Click **OK**.
- 13) Right click **Computer** and select **Manage**.
- 14) Expand and click **Storage > Disk Management**.
- 15) Right click on the **C:** partition and select **Properties**.
- 16) Click **Tools > Defragment now**.
- 17) Select **C:** partition and click **Defragment disk**.
- 18) Allow the Defragmentation to complete.
- 19) Close Disk Defragmenter window.
- 20) Close C: Properties window.

OPTIONAL – Removal of Authenticated Users from Share on INW server

- 1) On the INW Server, run Windows Explorer.
- 2) Browse to D:\GEData.
- 3) Right-click on the Studies directory and select Properties.
- 4) Select the Sharing tab.
- 5) Click the Advanced Sharing button.
- 6) Click the Permissions button.
- 7) In the Group or user names list, select Authenticated Users and click Remove.
- 8) Click Add.
- 9) Enter the following group names and then click OK: MLCLAdmGrp; MLCLSystemGrp; MLCLUsrGrp.
- 10) Click Add.
- 11) Click Locations, select the name of the INW Server in the Location tree, and click OK.
- 12) Enter the name SYSTEM and then click OK.
- 13) Select the group MLCLAdmGrp and, in the Allow column, check the Change box.
- 14) Select the group MLCLSystemGrp and, in the Allow column, check the Change box.
- 15) Select the group MLCLUsrGrp and, in the Allow column, check the Change box.
- 16) Select the group SYSTEM and, in the Allow column, check the Change box.
- 17) Click OK to close the Permissions window.
- 18) Click OK to close the Advanced Sharing window.
- 19) Click Close to close the Properties window.



20) Reboot the server when there are no cases in progress.

OPTIONAL - Remote Desktop Services Remote Code Execution Vulnerability

We recommend that the RDS is disabled on all ML/CL systems if not in use. Refer to the instructions below on disabling the service.

Disable Remote Desktop Services on Windows 7

On Windows 7, do the following to disable Remote Desktop Services:

1. Right-click on **Computer** and select **Properties**
2. On the **System** window, click **Remote settings**
3. Uncheck the following option if it is checked:
Allow Remote Assistance connections to this computer
4. Select the following option if it is not already selected:
Don't allow connections to this computer
5. Click **OK** to close the **System Properties** window
6. Click **Start > Control Panel > Administrative Tools > Services**
7. Double-click on the entry for **Remote Desktop Services**
8. Set the **Startup type** to **Disabled**
9. Click **OK** to close the **Remote Desktop Services Properties** window
10. Reboot the system

Disable Remote Desktop Services on Windows 2008 R2

On Windows Server 2008 R2, do the following to disable Remote Desktop Services:



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1. Right-click on **Computer** and select **Properties**
2. On the **System** window, click **Remote settings**
3. Uncheck the following option if it is checked:
Allow Remote Assistance connections to this computer
4. Select the following option if it is not already selected:
Don't allow connections to this computer
5. Click **OK** to close the **System Properties** window
6. Click **Start > Administrative Tools > Services**
7. Double-click on the entry for **Remote Desktop Services**
8. Set the **Startup type** to **Disabled**
9. Click **OK** to close the **Remote Desktop Services Properties** window
10. Reboot the system



Patch Links

The patches displayed below are qualified on an independent basis and can be installed on a one-by-one basis, although it is recommended that all qualified patches are installed. There are dependencies within the qualified patch list. In the table below, it is recommended the patches are installed in order from top to bottom to ensure all pre-requisites are met for all patches. On occasion the patch dependencies require system reboots which are identified in the table below.

NOTE: Due to site configurations, system patch set, qualified patches which have been installed previously or patch dependencies, some patches could fail to install due to the functionality is already installed. The Microsoft patch installer will alert you to this issue. If this occurs, please continue with the next patch installation.

Alternate Patch locations: In early 2016 Microsoft announced that some patches would no longer be available on the Microsoft Download Center <https://blogs.technet.microsoft.com/msrc/2016/04/29/changes-to-security-update-links/>. Therefore, some of the links provided below may not work. Microsoft may move/remove these links at any time without notice. However, if the links do not work, there are two alternate methods for downloading patches. The first is the Microsoft Catalog <http://catalog.update.microsoft.com>. Most fixes not on Microsoft Download Center will be available from the Microsoft Catalog. If a fix is not available from the Microsoft Catalog, Microsoft has monthly ISO files of the security updates available at <https://support.microsoft.com/en-us/kb/913086>. To use the ISOs, determine the month of the patch, download the applicable ISO and extract the patch. If after exhausting all three methods, you are still unable to obtain a patch, please contact GE Technical Support for further assistance.

Recommendation: Use Internet Explorer (IE) for Catalog download. If you are using the cart feature to download patches, to see the cart it requires opening another tab or new window for <http://catalog.update.microsoft.com>



6.9.6 R1 Patch Installation Paths

There are two installation paths

- Old Procedure
- New Procedure

The New procedure was developed to remove patch redundancy and streamline the patch installation for 6.9.6R1. To provide a transition both the Old and the New procedures will be supported for patch releases. Either procedure can be used and the results will be the same. However, it is extremely important that you fully complete one of these procedures to ensure you are at a common baseline to apply any future patch updates. If you have been following the old procedure then most likely will want to continue to follow it for this patch refresh. But if you are applying patches for the first time or are reimaging the system from a disaster recovery, the use of the New Procedure will be your quicker and preferred path.

The following sample scenarios are provided for reference.

- (1) New Setup/Reimage a machine for disaster recovery.
 - (a) Apply the updates from the following sections
 - (i) MLCL v6.9.6 R1 only (New Procedure)
- (2) The machine was setup and patched. Need to patch recently qualified patches.
 - (a) Apply the updates from the following sections
 - (i) Verify that all patches from section **MLCL v6.9.6 R1 only (Old Procedure)** have been applied. Install any unapplied patches
 - (ii) MLCL V6.9.6 2017 Patch Updates 1 (if patches from this section were previously not applied)
 - (iii) MLCL V6.9.6 2017 Patch Updates 2 (if patches from this section were previously not applied)

Post installation of patches using the scenarios (old or new procedure) described above patches from following sections should be installed:

- (i) MLCL V6.9.6 2017 Patch Updates 3 (if patches from this section were previously not applied)

Note: The section MLCL Optional Security Updates applies to both scenarios. The optional updates provide additional security but are not required. You may apply some of the optional patches but choose to bypass others. For example, you may want to disable some of the vulnerable protocols but you may not want to address Weak Hashing due to cost and complexity of certificate management. This will not cause problems. However, **all other updates are strongly recommended.**



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Some updates are documented as **superseded**. These are left in the document for completeness but can be skipped.

Unqualified Patches MLCL v6.9.6 R1

	INW Server	Acquisition - Mac-Lab IT/XT/XTi , CardioLab IT/XT/XTi and SpecialsLab	GE Client Review Workstation	Virtual Review
Operating System Platform	Windows Server 2008 R2 SP1	Windows 7 SP1	Windows 7 SP1	Windows 7 SP1
Current Unqualified Vulnerability	KB4503292 (ADV190013) KB4507456(CVE-2019-1082) KB4507411(CVE-2019-1083, CVE-2019-1006) KB4512486 (CVE-2019-0736, CVE-2019-1181, CVE-2019-1182)	KB4461619 (CVE-2019-1034) KB4462178 (CVE-2019-1034) KB4503292 (ADV190013) KB4507456(CVE-2019-1082) KB4507411(CVE-2019-1083, CVE-2019-1006) KB4512486 (CVE-2019-0736, CVE-2019-1181, CVE-2019-1182)	KB4461619 (CVE-2019-1034) KB4462178 (CVE-2019-1034) KB4503292 (ADV190013) KB4507456(CVE-2019-1082) KB4507411(CVE-2019-1083, CVE-2019-1006) KB4512486 (CVE-2019-0736, CVE-2019-1181, CVE-2019-1182)	KB4461619 (CVE-2019-1034) KB4462178 (CVE-2019-1034) KB4503292 (ADV190013) KB4507456(CVE-2019-1082) KB4507411(CVE-2019-1083, CVE-2019-1006) KB4512486 (CVE-2019-0736, CVE-2019-1181, CVE-2019-1182)

MLCL v6.9.6 R1 (New Procedure)

The following patches bring the MLCL system to a more recent patch level and address several security vulnerabilities. The following guidelines apply:

- 1) It is expected that some patches listed will already be on the system.
- 2) Pay attention to the Notes section for special handling instructions
- 3) Patches must be applied in order except where indicated.
- 4) Reboots are only required where indicated. If a Patch requests a reboot at another point, the system can be rebooted but it is not required.



Windows 7 (Acquisition, Review and Virtual Review)		
KB	Link	Notes
	Make the following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00023c00	
KB2901907	https://www.microsoft.com/en-us/download/details.aspx?id=42642	Right click and Run as Administrator; Verify that .Net 4.5.2 shows in Control Panel\Programs and Features
Subsequent patches depend on installation of KB2901907		
KB2639308	https://www.microsoft.com/en-us/download/details.aspx?id=28929	Install only .MSU file
IE11	http://download.microsoft.com/download/9/2/F/92FC119C-3BCD-476C-B425-038A39625558/IE11-Windows6.1-x86-en-us.exe	
	<u>Reboot Required</u>	
KB2979596	https://www.microsoft.com/en-us/download/details.aspx?id=44278	Run from cmd prompt with SQLServer2008SP4-KB2979596-x86-ENU.exe /ACTION=Patch /INSTANCENAME=MSSQLSERVER /IGNORESERVICERESTARTSTATE
KB3020369	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f00e3c36-f5e3-465c-95d2-a84a22425868	
KB3138612	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=0bae11c4-626f-4b7e-b539-06c95cb014d5	



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KB3125574	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7ed4c8c3-0f06-4227-99e3-e9f143394687	
	Reboot Required	
Adobe 11.0.19	http://support.adobe.com/detail.jsp?ftpID=6123	
KB4022719	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b9815359-6aad-467e-8666-2351fadc3c45	
KB3205402	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f8938e57-3bdd-411e-8bdd-38ebbac1db50	Right Click and Run as Administrator; Apply KB3210139 and KB3210131 Only
KB4025341 July Rollup 2017	https://www.catalog.update.microsoft.com/ScopedViewInline.aspx?updateid=12c93ad9-ef0e-4ce6-8a1d-84713223d24a	This patch is required to be installed for the August rollup to successfully install.
KB4019112	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=1daeb6d1-b103-4baa-bbde-5326e17e89e4	Run KB4014514 and KB4014504 only. For KB4014514, right click and Run as Administrator,
	Reboot Required	
MS09-043 KB947318	https://www.microsoft.com/en-us/download/details.aspx?id=22505	Acquisition Only
MS11-049 KB2251487	https://www.microsoft.com/en-us/download/details.aspx?id=26419	
MS12-034: KB2596672	https://www.microsoft.com/en-us/download/details.aspx?id=29730	Acquisition Only
MS13-075 KB2687413	https://www.microsoft.com/en-us/download/details.aspx?id=40196	GECW Client Review Only



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MS13-081 KB2862330	https://www.microsoft.com/en-us/download/details.aspx?id=40507	
KB3138612	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=0bae11c4-626f-4b7e-b539-06c95cb014d5	
KB3172605	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8382aa41-9de1-4bb2-b8b0-4ab89451be64	
KB3179573	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fb159d73-16f1-4c8a-bc3a-c768f6e2a7ce	
	<u>Reboot Required</u>	
Patches below can be applied in any order		
kb947318	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=ceff8ca0-08db-41d0-b825-fcc2ceba8b4	Do not run on Review Systems
KB3192391	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=bc4fc430-38b5-4ef5-ba85-fb8254ac9be9	
KB2538242	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=bb49cc19-8847-4986-aa93-5e905421e55a	Select file title starts with x86
KB2538243	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=729a0dcb-df9e-4d02-b603-ed1aee074428	Install 2 files with x86 in title; Select Repair option if required
KB2565063	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=719584bc-2208-4bc9-a650-d3d6347eb32e	Install 2 files with x86 in title; Select Repair option if required
KB2863902	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=73ab9cea-fa20-4d92-9719-f01f13f613c1	
KB2863926	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=df24deb-f341b-403b-9e0a-6cd01a025d8d	



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KB2920748	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7ac78292-3a54-4100-837e-140fa85bb0bc	
KB2863817	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d0ab24c4-9edf-4faa-a69b-078470f6fd40	Use all-convintl-en-us_.....cab
KB3085528	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d7ba6a6e-7884-4042-a2ce-f236c43a0989	
KB2881029	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3b158fbc-892b-4d1b-8c02-91682088ad72	
kb2553432	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9badf612-4854-4023-9867-76e3677311af	
kb3118390	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4ecc22c5-46d4-40b2-a640-60e9da447657	
kb3118378	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=ae54ce3d-e321-4831-a1ba-fcae8eb430a0	
kb3127953	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=95499009-678d-4bc4-96d9-384781a18627	
KB3161949	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=25c0fd19-d4e4-4af5-aad9-f308dde496d5	
KB2900986	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=82b62134-bafb-4fd3-815e-73534b9d1aa5	
kb2850016	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3188a7d3-91d0-4780-897f-1990c4b3e952	
KB3031432	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2ca8e6e8-fc4a-4974-a208-18cdf1d01d86	Apply kb3004375 and KB3031432
KB3059317	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9202ee09-24c9-4ae7-83bd-3b5d4b0e5c22	
kb3101521	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=52d30a1b-2f14-4463-9034-92f46b76576d	



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kb2965313	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=a4474e45-3c37-4708-9a5a-31e3538ddd44	Use all-wordintl-en-us_.....cab
KB3156016	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f21d3be8-dd35-4ac7-97b8-b4d06d4ed7f2	
KB3156019	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b5b7f2e4-bf3f-4974-ab23-f3a2ab886d31	
KB3156017	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3f6acb0e-47be-458e-8559-ab9f1179dfba	
KB3159398	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2329e2b7-4e31-42e3-86aa-2ebfaa2c6339	
KB3161958	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=0fda0cfc-7ca1-4f78-ae19-90977c948ed3	
KB3170455	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=65b4f1cb-3cd4-4546-8896-dc462d484282	
KB3125869	https://support.microsoft.com/en-us/help/3125869/ms15-124-vulnerability-in-internet-explorer-could-lead-to-aslr-bypass-december-16,-2015	Download and install only the "Enable the User32 exception handler hardening feature in Internet Explorer"
KB2880971	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fe594d9e-9828-451f-aa56-2c2cf431ade3	
KB2810073	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=20c03f3c-cf50-4469-9e6a-c4f74622a160	Only Run .MSP file
KB3000483	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=dbd91e47-4238-4bbe-8c8b-87c2d02c57d2	Only Run 2 .MSU files
KB3054845	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=cd3cb1c0-dd41-45d0-a60d-794470b83761	
kb3054848	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=79ebf15b-3343-41fb-bf88-9bd6b4253fc0	



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kb3054835	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=bd726abf-fa50-489d-ab30-fa13ee3e0ba0	
kb3054842	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fc804f6e-c557-47e0-9f5e-4373b286677d	
KB3055044	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=58454b4a-dd6b-4902-865b-c57ce21d3b91	
KB2553313	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f26e1911-9cf6-4082-8349-456230bc04ec	
KB2598244	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=aaa34820-0955-45db-b5a6-3048bb56843f	
KB3055033	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=ef6e2e39-225f-4cad-97bb-200d1fab3e53	
KB2965310	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fbe46296-974f-4eaf-ba1f-3f57787e932b	
KB3055039	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d5db1fcb-f98a-4b2d-abbc-003327425628	
kb3085560	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6f15ec3c-4e27-483d-baed-6e17fba8ffc7	Use all-convintl-en-us_.....cab
kb3085526	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=1c9e7d92-d1df-4cc4-8906-ff2429479d19	
kb3101544	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5dddb0e6-6f66-4ae0-86e3-6a8d3d23a201	
kb3101543	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=396a0e18-01af-4f19-a5ea-c5c9e352321f	
kb3085594	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=74ccaa37-b9c6-4c4c-a65b-da83e3e6341a	
kb2817478	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b1bbd02b-d4c3-48c3-b648-1852de5d2c8e	



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kb3101520	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=1e5f0476-1148-43b8-bfc4-10a1a29ddc32	
kb3054984	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=35c6b5dc-c065-4d9a-a71f-9d0a6beb4df9	
kb3115123	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e8bd0027-368c-4ecf-bc9b-5c64195e2c53	
kb3114400	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=98015a12-b9cd-48ab-bd7f-7dea92bb8f67	Use all-convintl-en-us_.....cab
kb3114869	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7efaa3ba-dee4-45ba-84b0-50c7aa10437b	
kb3114885	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4ca07bc3-8c95-4644-be17-040a3964a02a	use all-onenoteintl-en-us_....cab
kb3115474	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8bc2bfec-84bb-488e-ae91-f4814d409dba	use all-outlookintl-en-us_.....cab
kb3115471	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fd8a17d9-dad0-4f8d-95c4-0677ca0fbb08	
kb3118309	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fb00cc28-9cb3-437e-bac5-069bc32f8aeb	
kb3128037	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=46311afb-a6ab-4fad-b6aa-4ec97507beba	
kb3118380	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=84ea23ce-49d8-4684-ac3b-45f0396053cf	
kb3114395	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=df66c1c1-7fab-4a43-886c-5203d1495bd8	
kb2889841	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=bb220b30-6d01-4e57-8db6-3e492d6b65d3	
kb3128034	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9cd72446-5c11-433a-9589-fd85afcc4eb0	



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KB3178687	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=726adfc6-4ac9-4409-bdab-2892b7058e78	
	Reboot Required	
KB3045311	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2fd51fbf-3f70-4c85-986b-5653b0fb7f11	Only run x86 file; Run from a cmd prompt as Administrator using the following command: AMD64_X86-all-sqlserver2008-kb3045311-x86_30561aef89c6d174fee7b77bed6b3b8539542558.exe /ACTION=Patch /INSTANCENAME=MSSQLSERVER /IGNORESERVICERESTARTSTATE
Adobe 11.0.20	http://supportdownloads.adobe.com/thankyou.jsp?ftpID=6157&fileID=6191	
KB3178688	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=322c28f5-349c-468a-ac94-901616f52372	
KB3191847	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4b4bbe2b-a25d-4509-a069-f5efc227b4ad	
KB3191907	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c8533f11-51f9-4f84-96d8-c619947cc7c0	
KB3118310	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c59a1bb2-ff1f-427a-a8d7-2cab1cb3e7d1	Use en-us file all-convintl-en-us_....cab
KB3191843	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f715a81d-102d-416a-9a89-e9ebdace0a6d	
KB3191899	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7698c63a-b85f-4647-bcb1-1be0256c3f43	
KB3203468	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7a599998-ca41-4840-90ea-8143724e5c6a	Use all-proof-en-us_.....cab



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KB3213624	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3658f96e-a521-429d-a9a9-e70e30f5d830	
KB3178690	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=06e2c9fb-65b7-48f5-b6e2-58071f17f9bd	
	<u>Reboot Required</u>	
KB4034664 August Rollup 2017 Superseded	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e0a94bad-5b2c-4611-9066-24491ce9bb4f	
	Make the Following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00010000	

Windows 7 (6.9.6 R1 GECW Review)

	Link	Notes
	https://downloadcenter.intel.com/download/22165/Intel-Graphics-Media-Accelerator-Driver-Windows-7-Windows-Vista-exe-	Display adapter driver update Win7Vista_151719.exe

Windows 2008 R2 (INW Server)

KB	Link	Notes
	Make the following Registry Change	



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	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00023c00	
KB2979596	https://www.microsoft.com/en-us/download/details.aspx?id=44278	Run from cmd prompt with SQLServer2008SP4- KB2979596- x64-ENU.exe /ACTION=Patch /INSTANCENAME=MSSQLSERVER /IGNORESERVICERESTARTSTATE
KB3020369	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=076f5c31-ea9c-41db-8640-081a79c79602	
KB3138612	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5ae1092c-f211-4873-aabd-9ee1a142acbb	
KB2639308	http://www.microsoft.com/en-ph/download/details.aspx?id=28933	
IE11	http://download.microsoft.com/download/7/1/7/7179A150-F2D2-4502-9D70-4B59EA148EAA/IE11-Windows6.1-x64-en-us.exe	Install only .MSU file Right click and Run as Administrator. If installation fail with a message requesting to connect to Internet, then install from the command line with these parameter /quiet /closeprograms e.g. "IE11-Windows6.1-x64-en-us.exe /quiet /closeprograms" Note: It could take few retry attempts to install.
	<u>Reboot Required</u>	



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kb3125574	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6147e6c1-663b-41bc-9582-9579343857d9	
	<u>Reboot Required</u>	
KB3172605	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3363f98b-78a3-44a7-93df-d770b2dd150a	
KB3179573	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=366304fa-105b-4f48-a07e-d2e6bb274533	
KB4022719	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4aa2ed70-7c26-4727-bd11-6a98b6dd622c	
KB4025341 July Rollup 2017	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b2423c5b-0254-4747-88bb-ec1a785549cb	This patch is required to be installed for the August rollup to successfully install.
	<u>Reboot Required</u>	
OPTIONAL – INW Server Performance Enhancement	Please see section – OPTIONAL - How to Install INW Server Performance Enhancement	
HP INW Server NIC Driver (HP ProLiant ML350 G8)	http://h20566.www2.hp.com/hpsc/swd/public/detail?swItemId=MTX_de344f22b2c245ec859d7821e3 Please see section - How to Install HP NIC Driver on the INW Server (HP ProLiant ML350 G8)	
HP INW Server NIC Driver (HP ProLiant DL370 G6)	http://h20566.www2.hp.com/hpsc/swd/public/detail?swItemId=MTX_109438fbecd6411388820b630c Please see section - How to Install HP NIC Driver on the INW Server (HP ProLiant DL370 G6)	
MS09-043 KB947318	https://www.microsoft.com/en-us/download/details.aspx?id=22505	



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MS11-025 KB2538242	https://www.microsoft.com/en-us/download/details.aspx?id=26347	Select file title starts with x86
MS11-049 KB2251487	https://www.microsoft.com/en-us/download/details.aspx?id=26419	
KB2539530	https://www.microsoft.com/en-us/download/details.aspx?id=26416	
MS12-034: KB2596672	https://www.microsoft.com/en-us/download/details.aspx?id=29730	
MS13-081 KB2862330	https://www.microsoft.com/en-us/download/details.aspx?id=40372	
KB967642	https://www.microsoft.com/en-us/download/details.aspx?id=21751	
MS13-090 KB2900986	https://www.microsoft.com/en-us/download/details.aspx?id=40921	
KB2919469	https://www.microsoft.com/en-us/download/details.aspx?id=41785	
KB2830477	https://www.microsoft.com/en-us/download/details.aspx?id=41730	
KB2871997	https://www.microsoft.com/en-us/download/details.aspx?id=42765	
MS14-024 KB2817330	https://www.microsoft.com/en-us/download/details.aspx?id=42862	
MS14-036 KB2878233	https://www.microsoft.com/en-US/download/details.aspx?id=43330	
KB3006137	https://www.microsoft.com/en-us/download/details.aspx?id=45889	
MS15-037 KB3046269	https://www.microsoft.com/en-us/download/details.aspx?id=46499	
	<u>Reboot Required</u>	



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KB2901983	https://www.microsoft.com/en-in/download/details.aspx?id=42642	
MS14-072 KB2978128	https://www.microsoft.com/en-us/download/details.aspx?id=44686	
KB2923545	https://www.microsoft.com/en-us/download/details.aspx?id=41984	
KB2970228	https://www.microsoft.com/en-us/download/details.aspx?id=44060	
KB2984981	https://www.microsoft.com/en-us/download/details.aspx?id=44482	
	<u>Reboot Required</u>	
MS14-057 KB2972107	https://www.microsoft.com/en-us/download/details.aspx?id=44320	
MS14-053 KB2972216	https://www.microsoft.com/en-us/download/details.aspx?id=44181	
MS14-057 KB2979578	https://www.microsoft.com/en-us/download/details.aspx?id=44322	
MS15-041 KB3037581	https://www.microsoft.com/en-us/download/details.aspx?id=46529	
	<u>Reboot Required</u>	
KB2994023	https://www.microsoft.com/en-us/download/details.aspx?id=44451	
	<u>Reboot Required</u>	



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Patches below can be applied in any order		
kb2894844	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=00e0ded8-dc85-4017-8b54-a1456c63a61b	
KB3074230	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d0baf87d-e8ec-4ddc-b8b0-89f668ee6504	
KB3074550	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2f7719fa-8a6d-4b16-9c69-66447f308ee7	
KB3097996	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=103a0bdd-e71c-4f33-8cf1-7b68198ad536	
KB3098781	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4ed6e065-7e37-44bb-8798-245649851dec	
KB3122656	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=428c2fef-afe5-46a7-a454-da2fa0e3af27	
KB3127229	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8f49f137-0741-498e-9f7c-754862054221	
KB3135996	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=24aeb988-b368-435b-923b-c09b8a2d3fa5	
KB3142033	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=eac1599f-2887-40ce-9cf4-0f364dc37343	
KB3159398	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=56a7a134-5ad6-43c2-aab1-e10d2fef8f7c	
KB3161949	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5bc0e07b-33ca-4ea2-8253-4f0dcd26783a	
KB3170455	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=45460055-be25-47ad-ad0a-2a4711fcca74	



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KB3163251	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7b053e5b-04a5-4f47-92c5-74f6caba0de7	
KB3125869	https://support.microsoft.com/en-us/help/3125869/ms15-124-vulnerability-in-internet-explorer-could-lead-to-aslr-bypass-december-16,-2015	Download and install only the "Enable the User32 exception handler hardening feature in Internet Explorer"
KB2538243	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=729a0dc8-df9e-4d02-b603-ed1aee074428	Only run X86-all-vcredist_x86....
KB3156016	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=de32fc3d-60a4-4fc9-9588-0c404765940a	
KB3156019	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=05cb4345-49ea-4eca-8ba3-f870466c46c7	
KB3161958	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=795571cf-bd8d-4602-bb28-11080e614333	
Adobe 11.0.20	http://supportdownloads.adobe.com/thankyou.jsp?ftplD=6157&fileID=6191	
KB890830	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3ac4f294-f247-4771-813b-8f02b6f33526	
HPSBMU03653 rev.1	https://h20566.www2.hp.com/hpsc/swd/public/detail?swItemId=MTX_083799d6dad34195bb47cb43c1	
	<u>Reboot Required</u>	
KB3070738	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=12e7d9ba-d1e3-4631-b83e-6bafd96d5421	
KB4019112	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=dedea6da-e039-487b-8ec6-2729551f7165	Run KB4014514 and KB4014504 only. For KB4014514, right click and Run as Administrator .
KB3045311	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2fd51fbf-3f70-4c85-986b-5653b0fb7f11	Only run x64 file; Run from a cmd prompt as Administrator using the following command: AMD64-all-



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		sqlserver2008-kb3045311-x64_37a197c60990d2e83e98d1090109a4ab3f2abe4b.exe /ACTION=Patch /INSTANCENAME=MSSQLSERVER /IGNORESERVICERESTARTSTATE
	<u>Reboot Required</u>	
	Make the following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing] State=dword:00010000	Apply only on Domain Controller
KB4034664 August Rollup 2017 Superseded	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=80f7899d-451d-4e3f-b54e-d488a06a3c58	To successfully install this Rollup, you must uninstall July Rollup KB4025341 and reboot before installing KB4034664
	[HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\NTDS\Parameters] LdapEnforceChannelBinding=DWORD:1	Apply only on Domain Controller. Need starting July Rollup- KB4025341 (CVE-2017-8563)
	<u>Reboot Required</u>	

MLCL v6.9.6 R1 only (Old Procedure)

The following patches bring the MLCL system to a more recent patch level and address several security vulnerabilities. The following guidelines apply:

- 1) It is expected that some patches listed will already be on the system.
- 2) Pay attention to the Notes section for special handling instructions
- 3) Patches must be applied in order except where indicated.
- 4) Reboots are only required where indicated. If a Patch requests a reboot at another point, the system can be rebooted but it is not required.



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	INW Server	Acquisition - Mac-Lab IT/XT/XTi , CardioLab IT/XT/XTi and SpecialsLab	GE Client Review Workstation	Virtual Review
Operating System Platform	Windows Server 2008 R2 SP1	Windows 7 SP1	Windows 7 SP1	Windows 7 SP1
Patch	Download URL	Download URL	Download URL	Download URL
MS15-127 KB3100465 (Domain Controller only)	https://www.microsoft.com/en-us/download/details.aspx?id=50127	N/A	N/A	N/A
MS15-067 KB3069762	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=47833	https://www.microsoft.com/en-us/download/details.aspx?id=47833	https://www.microsoft.com/en-us/download/details.aspx?id=47833
HP System Management Homepage HPSBMU03380 Version: 7.5.4.3(1 Apr 2016) Superseded	https://h20566.www2.hp.com/hpsc/swd/public/detail?idx=&action=driverDocument&itemLocale=&swItemId=MTX_544617581c264c8eaafe6b273a&mode Please see section - How to Install HP System Management Homepage Patch on the INW Server – HPSBMU03380 NOTE: HPSBMU03051 must be installed before HPSBMU03380.	N/A	N/A	N/A
OPTIONAL – INW Server Performance Enhancement	Please see section – OPTIONAL - How to Install INW Server Performance Enhancement	N/A	N/A	N/A



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	INW Server	Acquisition - Mac-Lab IT/XT/XTi , CardioLab IT/XT/XTi and SpecialsLab	GE Client Review Workstation	Virtual Review
Adobe Reader APSB15-15 Superseded	ftp://ftp.adobe.com/pub/adobe/reader/win/11.x/11.0.12/misc/ Download file - AdbeRdrUpd11012_MUI.msp Please see section – How to Install Adobe Reader APSB15-15	ftp://ftp.adobe.com/pub/adobe/reader/win/11.x/11.0.12/misc/ Download file - AdbeRdrUpd11012_MUI.msp Please see section – How to Install Adobe Reader APSB15-15	ftp://ftp.adobe.com/pub/adobe/reader/win/11.x/11.0.12/misc/ Download file - AdbeRdrUpd11012_MUI.msp Please see section – How to Install Adobe Reader APSB15-15	ftp://ftp.adobe.com/pub/adobe/reader/win/11.x/11.0.12/misc/ Download file - AdbeRdrUpd11012_MUI.msp Please see section – How to Install Adobe Reader APSB15-15
HP INW Server NIC Driver (HP ProLiant ML350 G8)	http://h20566.www2.hp.com/hpsc/swd/public/detail?swItemId=MTX_de344f22b2c245ec859d7821e3 Please see section - How to Install HP NIC Driver on the INW Server (HP ProLiant ML350 G8)	N/A	N/A	N/A
HP INW Server NIC Driver (HP ProLiant DL370 G6)	http://h20566.www2.hp.com/hpsc/swd/public/detail?swItemId=MTX_109438fbecd6411388820b630c Please see section - How to Install HP NIC Driver on the INW Server (HP ProLiant DL370 G6)	N/A	N/A	N/A
MS14-049 KB2918614	https://www.microsoft.com/en-us/download/details.aspx?id=43764			
MS09-043 KB947318	https://www.microsoft.com/en-us/download/details.aspx?id=22505	https://www.microsoft.com/en-us/download/details.aspx?id=22505		
MS11-025 KB2538242	https://www.microsoft.com/en-us/download/details.aspx?id=26347			Select file title starts with x86



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	INW Server	Acquisition - Mac-Lab IT/XT/XTi , CardioLab IT/XT/XTi and SpecialsLab	GE Client Review Workstation	Virtual Review
MS11-049 KB2251487	https://www.microsoft.com/en-us/download/details.aspx?id=26419	https://www.microsoft.com/en-us/download/details.aspx?id=26419	https://www.microsoft.com/en-us/download/details.aspx?id=26419	https://www.microsoft.com/en-us/download/details.aspx?id=26419
KB2539530	https://www.microsoft.com/en-us/download/details.aspx?id=26416			
MS12-034: KB2596672	https://www.microsoft.com/en-us/download/details.aspx?id=29730	https://www.microsoft.com/en-us/download/details.aspx?id=29730	N/A	N/A
MS13-075 KB2687413	N/A	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=40196	N/A
KB2852386	https://www.microsoft.com/en-us/download/details.aspx?id=42739			
MS13-081 KB2862330	https://www.microsoft.com/en-us/download/details.aspx?id=40372	https://www.microsoft.com/en-us/download/details.aspx?id=40507	https://www.microsoft.com/en-us/download/details.aspx?id=40507	https://www.microsoft.com/en-us/download/details.aspx?id=40507
KB967642	https://www.microsoft.com/en-us/download/details.aspx?id=21751			
KB2862152	https://www.microsoft.com/en-us/download/details.aspx?id=41018			
KB2893519	https://www.microsoft.com/en-us/download/details.aspx?id=41017			
MS13-090 KB2900986	https://www.microsoft.com/en-us/download/details.aspx?id=40921			
MS13-095 KB2868626	https://www.microsoft.com/en-us/download/details.aspx?id=40930			
KB2891804	https://www.microsoft.com/en-us/download/details.aspx?id=41268			
MS13-101 KB2887069	https://www.microsoft.com/en-us/download/details.aspx?id=41276			



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	INW Server	Acquisition - Mac-Lab IT/XT/XTi , CardioLab IT/XT/XTi and SpecialsLab	GE Client Review Workstation	Virtual Review
MS13-099 KB2892074	https://www.microsoft.com/en-us/download/details.aspx?id=41226			
MS13-098 KB2893294	https://www.microsoft.com/en-us/download/details.aspx?id=41217			
MS14-009 KB2911501	https://www.microsoft.com/en-us/download/details.aspx?id=41835			
KB2919469	https://www.microsoft.com/en-us/download/details.aspx?id=41785			
MS14-007 KB2912390	https://www.microsoft.com/en-us/download/details.aspx?id=41758			
KB2830477	https://www.microsoft.com/en-us/download/details.aspx?id=41730			
KB2929733	https://www.microsoft.com/en-us/download/details.aspx?id=42175			
KB2908783	https://www.microsoft.com/en-us/download/details.aspx?id=42340			
KB2928562	https://www.microsoft.com/en-us/download/details.aspx?id=42331			
KB2843630	https://www.microsoft.com/en-us/download/details.aspx?id=41706			
KB2871997	https://www.microsoft.com/en-us/download/details.aspx?id=42765			
MS14-026 KB2931356	https://www.microsoft.com/en-us/download/details.aspx?id=42768			
MS14-024 KB2817330	https://www.microsoft.com/en-us/download/details.aspx?id=42862			
MS14-036 KB2957509	https://www.microsoft.com/en-us/download/details.aspx?id=43180			



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	INW Server	Acquisition - Mac-Lab IT/XT/XTi , CardioLab IT/XT/XTi and SpecialsLab	GE Client Review Workstation	Virtual Review
MS14-036 KB2878233	https://www.microsoft.com/en-US/download/details.aspx?id=43330			
MS14-033 KB2939576	https://www.microsoft.com/en-us/download/details.aspx?id=43162			
MS14-031 KB2957189	https://www.microsoft.com/en-us/download/details.aspx?id=43143	https://www.microsoft.com/en-us/download/details.aspx?id=43147	https://www.microsoft.com/en-us/download/details.aspx?id=43147	https://www.microsoft.com/en-us/download/details.aspx?id=43147
HP System Management Homepage HPSBMU03051 Version: 7.3.3.1(19 Jun 2014) Superseded	http://h20564.www2.hp.com/hpsc/swd/public/detail?swItemId=MTX_e8076c2a35804685ad65b2b1ba Please see section - How to Install HP System Management Homepage Patch on the INW Server - HPSBMU03051	N/A	N/A	N/A
MS14-036 KB2957503	https://www.microsoft.com/en-us/download/details.aspx?id=43194			
KB2800095	https://www.microsoft.com/en-us/download/details.aspx?id=42363			
MS14-040 KB2961072	https://www.microsoft.com/en-us/download/details.aspx?id=43459			
MS14-039 KB2973201	https://www.microsoft.com/en-us/download/details.aspx?id=43475			
KB2973351	https://www.microsoft.com/en-us/download/details.aspx?id=43471			
MS14-046 KB2937610	https://www.microsoft.com/en-us/download/details.aspx?id=43954			
MS14-046 KB2943357	https://www.microsoft.com/en-us/download/details.aspx?id=43930			



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	INW Server	Acquisition - Mac-Lab IT/XT/XTi , CardioLab IT/XT/XTi and SpecialsLab	GE Client Review Workstation	Virtual Review
MS14-045 KB2976897	https://www.microsoft.com/en-us/download/details.aspx?id=43885			
MS14-047 KB2978668	https://www.microsoft.com/en-us/download/details.aspx?id=43842			
KB2966583	https://www.microsoft.com/en-us/download/details.aspx?id=43470			
MS14-045 KB2993651	https://www.microsoft.com/en-us/download/details.aspx?id=44040			
MS14-053 KB2973112	https://www.microsoft.com/en-us/download/details.aspx?id=44184			
KB2977728	https://www.microsoft.com/en-us/download/details.aspx?id=44086			
KB2978092	https://www.microsoft.com/en-us/download/details.aspx?id=44131			
KB2985461	https://www.microsoft.com/en-us/download/details.aspx?id=44100			
KB2984972	https://www.microsoft.com/en-us/download/details.aspx?id=44336			
MS14-057 KB2972100	https://www.microsoft.com/en-us/download/details.aspx?id=44312			
MS14-057 KB2979570	https://www.microsoft.com/en-us/download/details.aspx?id=44327			
KB2977292	https://www.microsoft.com/en-us/download/details.aspx?id=44335			
MS14-072 KB2978120	https://www.microsoft.com/en-us/download/details.aspx?id=44603			
MS14-078 KB2991963	https://www.microsoft.com/en-us/download/details.aspx?id=44708			



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	INW Server	Acquisition - Mac-Lab IT/XT/XTi , CardioLab IT/XT/XTi and SpecialsLab	GE Client Review Workstation	Virtual Review
MS14-066 KB2992611	https://www.microsoft.com/en-us/download/details.aspx?id=44618	https://www.microsoft.com/en-us/download/details.aspx?id=44633	https://www.microsoft.com/en-us/download/details.aspx?id=44633	https://www.microsoft.com/en-us/download/details.aspx?id=44633
MS14-071 KB3005607	https://www.microsoft.com/en-us/download/details.aspx?id=44778			
MS14-064 KB3006226	https://www.microsoft.com/en-us/download/details.aspx?id=44770			
MS14-064 KB3010788	https://www.microsoft.com/en-us/download/details.aspx?id=44861			
MS14-074 KB3003743	https://www.microsoft.com/en-us/download/details.aspx?id=44852			
MS14-068 KB3011780	https://www.microsoft.com/en-us/download/details.aspx?id=44966			
KB3006625	https://www.microsoft.com/en-us/download/details.aspx?id=45043			
KB3013410	https://www.microsoft.com/en-us/download/details.aspx?id=45160			
KB3014406	https://www.microsoft.com/en-us/download/details.aspx?id=45191			
MS15-007 KB3014029	https://www.microsoft.com/en-us/download/details.aspx?id=45351			
MS15-003 KB3021674	https://www.microsoft.com/en-us/download/details.aspx?id=45417			
MS15-005 KB3022777	https://www.microsoft.com/en-us/download/details.aspx?id=45479			
KB3020338	https://www.microsoft.com/en-us/download/details.aspx?id=45714			
MS15-014 KB3004361	https://www.microsoft.com/en-us/download/details.aspx?id=45565			



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	INW Server	Acquisition - Mac-Lab IT/XT/XTi , CardioLab IT/XT/XTi and SpecialsLab	GE Client Review Workstation	Virtual Review
KB3006137	https://www.microsoft.com/en-us/download/details.aspx?id=45889			
MS15-027 KB3002657	https://www.microsoft.com/en-us/download/details.aspx?id=46200			
MS15-028 KB3030377	https://www.microsoft.com/en-us/download/details.aspx?id=46126			
MS15-021 KB3032323	https://www.microsoft.com/en-us/download/details.aspx?id=45969			
MS15-020 KB3033889	https://www.microsoft.com/en-us/download/details.aspx?id=46153			
KB3033929	https://www.microsoft.com/en-us/download/details.aspx?id=46083			
MS15-023 KB3034344	https://www.microsoft.com/en-us/download/details.aspx?id=45982			
MS15-029 KB3035126	https://www.microsoft.com/en-us/download/details.aspx?id=45962			
MS15-024 KB3035132	https://www.microsoft.com/en-us/download/details.aspx?id=46133			
MS15-020 KB3039066	https://www.microsoft.com/en-us/download/details.aspx?id=46275			
MS15-041 KB3037574	https://www.microsoft.com/en-us/download/details.aspx?id=46528			
MS15-038 KB3045685	https://www.microsoft.com/en-us/download/details.aspx?id=46461			
MS15-035 KB3046306	https://www.microsoft.com/en-us/download/details.aspx?id=46495			
MS15-034 KB3042553	https://www.microsoft.com/en-us/download/details.aspx?id=46480	https://www.microsoft.com/en-us/download/details.aspx?id=46501 <u>1</u>	https://www.microsoft.com/en-us/download/details.aspx?id=46501	https://www.microsoft.com/en-us/download/details.aspx?id=46501



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	INW Server	Acquisition - Mac-Lab IT/XT/XTi , CardioLab IT/XT/XTi and SpecialsLab	GE Client Review Workstation	Virtual Review
MS15-037 KB3046269	https://www.microsoft.com/en-us/download/details.aspx?id=46499			
MS15-039 KB3046482	https://www.microsoft.com/en-us/download/details.aspx?id=46479			
MS15-038 KB3045999	https://www.microsoft.com/en-us/download/details.aspx?id=46556			
KB3020370	https://www.microsoft.com/en-us/download/details.aspx?id=46737			
KB3048761	https://www.microsoft.com/en-us/download/details.aspx?id=46795			
	Reboot Required			
	Make the following Registry Change [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing] State=dword:00023c00			
KB2901907	https://www.microsoft.com/en-in/download/details.aspx?id=42642 Right click and Run as Administrator			
	Make the following Registry Change [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]			



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	INW Server	Acquisition - Mac-Lab IT/XT/XTi , CardioLab IT/XT/XTi and SpecialsLab	GE Client Review Workstation	Virtual Review
	State=dword:00010000			
MS14-072 KB2978128	https://www.microsoft.com/en-us/download/details.aspx?id=44686			
KB2923545	https://www.microsoft.com/en-us/download/details.aspx?id=41984			
KB2970228	https://www.microsoft.com/en-us/download/details.aspx?id=44060			
KB2984981	https://www.microsoft.com/en-us/download/details.aspx?id=44482			
	<u>Reboot Required</u>			
MS14-057 KB2972107	https://www.microsoft.com/en-us/download/details.aspx?id=44320			
MS14-053 KB2972216	https://www.microsoft.com/en-us/download/details.aspx?id=44181			
MS14-057 KB2979578	https://www.microsoft.com/en-us/download/details.aspx?id=44322			
MS15-041 KB3037581	https://www.microsoft.com/en-us/download/details.aspx?id=46529			
	<u>Reboot Required</u>			
KB2994023	https://www.microsoft.com/en-us/download/details.aspx?id=44451			
KB3008627	https://www.microsoft.com/en-us/download/details.aspx?id=44850			
KB3020369	https://www.microsoft.com/en-us/download/details.aspx?id=46828			



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	INW Server	Acquisition - Mac-Lab IT/XT/XTi , CardioLab IT/XT/XTi and SpecialsLab	GE Client Review Workstation	Virtual Review
KB3045645	https://www.microsoft.com/en-us/download/details.aspx?id=46806			
MS14-025 KB2928120 Domain Controller Only	https://www.microsoft.com/en-us/download/details.aspx?id=42683			
	<u>Reboot Required</u>			
KB2577795	https://support.microsoft.com/en-us/kb/2577795			

MLCL V6.9.6 2017 Patch Updates 1

The following patches bring the MLCL system to a more recent patch level and address several security vulnerabilities. The following guidelines apply:

1. The above patches are required patches for 6.9.6 and must be applied first.
2. It is expected that some patches listed will already be on the system.
3. Pay attention to the Notes section for special handling instructions
4. Patches must be applied in order except where indicated.
5. Reboots are only required where indicated. If a Patch requests a reboot at another point, the system can be rebooted but it is not required.
6. Patches will not install if the software component to be patched is not present (such as an IE8 patch on a system that does not have IE8 installed).

Note: KB4022719 replaces KB4012215 and KB4019263 for both Windows 7 and Windows Server 2008 R2 to address CVE-2017-8543, CVE-2017-8544, CVE-2017-0277, CVE-2017-0276, CVE-2017-0275, CVE-2017-0274, CVE-2017-0272, CVE-2017-0271, CVE-2017-0270, CVE-2017-0269, CVE-2017-0268, CVE-2017-0171, CVE-2017-0280, CVE-2017-0279 and CVE-2017-0278.



Windows 7 (Acquisition, Review and Virtual Review)		
KB	Link	Notes
	Make the following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00023c00	
KB2901907	https://www.microsoft.com/en-us/download/details.aspx?id=42642	Right click and Run as Administrator; Verify that .Net 4.5.2 shows in Control Panel\Programs and Features
Subsequent patches depend on installation of KB2901907 .		
KB2979596	https://www.microsoft.com/en-us/download/details.aspx?id=44278	Run from cmd prompt with SQLServer2008SP4-KB2979596-x86-ENU.exe /ACTION=Patch /INSTANCENAME=MSSQLSERVER /IGNORESERVICERESTARTSTATE
KB3020369	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f00e3c36-f5e3-465c-95d2-a84a22425868	
KB3138612	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=0bae11c4-626f-4b7e-b539-06c95cb014d5	
KB2639308	https://www.microsoft.com/en-us/download/details.aspx?id=28929	Install only .MSU file



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IE11	http://download.microsoft.com/download/9/2/F/92FC119C-3BCD-476C-B425-038A39625558/IE11-Windows6.1-x86-en-us.exe	Right click and Run as Administrator. If installation fail with a message requesting to connect to Internet, then install from the command line with these parameter /quiet /closeprogra ms e.g. "IE11-Windows6.1-x86-en-us.exe /quiet /closeprograms" Note: It could take few retry attempts to install.
	Reboot Required	
KB3125574	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7ed4c8c3-0f06-4227-99e3-e9f143394687	
	Reboot Required	
KB3172605	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8382aa41-9de1-4bb2-b8b0-4ab89451be64	
Adobe 11.0.19 Superseded	http://supportdownloads.adobe.com/detail.jsp?ftpID=6123	
KB3179573	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fb159d73-16f1-4c8a-bc3a-c768f6e2a7ce	
KB4022719 Superseded	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b9815359-6aad-467e-8666-2351fadc3c45	
KB3205402 Superseded	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f8938e57-3bdd-411e-8bdd-38ebbac1db50	Right Click and Run as Administrator; Apply KB3210139 and KB3210131 Only



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	Reboot Required	
Patches below can be applied in any order		
kb947318	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=ceff8ca0-08db-41d0-b825-fcc2ceba8b4	Do not run on Review Systems
KB3192391	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=bc4fc430-38b5-4ef5-ba85-fb8254ac9be9	
KB2538242	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=bb49cc19-8847-4986-aa93-5e905421e55a	Select file title starts with x86
KB2538243	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=729a0dcb-df9e-4d02-b603-ed1aee074428	Install files with x86 in title; Select Repair option if required
KB2565063	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=719584bc-2208-4bc9-a650-d3d6347eb32e	Install files with x86 in title; Select Repair option if required
KB2863902	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=73ab9cea-fa20-4d92-9719-f01f13f613c1	
KB2863926	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=df24debf-341b-403b-9e0a-6cd01a025d8d	
KB2920748	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7ac78292-3a54-4100-837e-140fa85bb0bc	
KB2863817	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d0ab24c4-9edf-4faa-a69b-078470f6fd40	Use all-convintl-en-us_.....cab
KB3104002 Superseded	https://www.microsoft.com/en-us/download/details.aspx?id=50346	



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KB3085528	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d7ba6a6e-7884-4042-a2ce-f236c43a0989	
KB2881029	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3b158fbc-892b-4d1b-8c02-91682088ad72	
kb2553432	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9badf612-4854-4023-9867-76e3677311af	
kb3118390	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4ecc22c5-46d4-40b2-a640-60e9da447657	
kb3118378	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=ae54ce3d-e321-4831-a1ba-fcae8eb430a0	
kb3127953	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=95499009-678d-4bc4-96d9-384781a18627	
KB3161949	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=25c0fd19-d4e4-4af5-aad9-f308dde496d5	
KB2900986	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=82b62134-bafb-4fd3-815e-73534b9d1aa5	
kb2850016	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3188a7d3-91d0-4780-897f-1990c4b3e952	
KB3031432	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2ca8e6e8-fc4a-4974-a208-18cdf1d01d86	Apply kb3004375 and KB3031432
KB3059317	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9202ee09-24c9-4ae7-83bd-3b5d4b0e5c22	
kb3101521	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=52d30a1b-2f14-4463-9034-92f46b76576d	
kb2965313	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=a4474e45-3c37-4708-9a5a-31e3538ddd44	Use all-wordintl-en-us_.....cab
KB3156016	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f21d3be8-dd35-4ac7-97b8-b4d06d4ed7f2	



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KB3156019	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b5b7f2e4-bf3f-4974-ab23-f3a2ab886d31	
KB3156017	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3f6acb0e-47be-458e-8559-ab9f1179dfba	
KB3159398	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2329e2b7-4e31-42e3-86aa-2ebfaa2c6339	
KB3161958	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=0fda0cfc-7ca1-4f78-ae19-90977c948ed3	
KB3170455	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=65b4f1cb-3cd4-4546-8896-dc462d484282	
KB3177186	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=88aaa062-4a7b-4690-ac06-8527d3db830d	
KB3125869	https://support.microsoft.com/en-us/help/3125869/ms15-124-vulnerability-in-internet-explorer-could-lead-to-aslr-bypass-december-16,-2015	Download and install only the “Enable the User32 exception handler hardening feature in Internet Explorer”
KB2880971	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fe594d9e-9828-451f-aa56-2c2cf431ade3	
KB2810073	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=20c03f3c-cf50-4469-9e6a-c4f74622a160	Only Run .MSP file
KB3000483	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=dbd91e47-4238-4bbe-8c8b-87c2d02c57d2	Only Run 2 .MSU files
KB3054845	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=cd3cb1c0-dd41-45d0-a60d-794470b83761	
kb3054848	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=79ebf15b-3343-41fb-bf88-9bd6b4253fc0	
kb3054835	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=bd726abf-fa50-489d-ab30-fa13ee3e0ba0	



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kb3054842	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fc804f6e-c557-47e0-9f5e-4373b286677d	
KB3055044	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=58454b4a-dd6b-4902-865b-c57ce21d3b91	
KB2553313	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f26e1911-9cf6-4082-8349-456230bc04ec	
KB2598244	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=aaa34820-0955-45db-b5a6-3048bb56843f	
KB3055033	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=ef6e2e39-225f-4cad-97bb-200d1fab3e53	
KB2965310	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fbe46296-974f-4eaf-ba1f-3f57787e932b	
KB3055039	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d5db1fcb-f98a-4b2d-abbcb-003327425628	
kb3085560	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6f15ec3c-4e27-483d-baed-6e17fba8ffc7	Use all-convintl-en-us_.....cab
kb3085526	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=1c9e7d92-d1df-4cc4-8906-ff2429479d19	
kb3101544	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5dddb0e6-6f66-4ae0-86e3-6a8d3d23a201	
kb3101543	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=396a0e18-01af-4f19-a5ea-c5c9e352321f	
kb3085594	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=74ccaa37-b9c6-4c4c-a65b-da83e3e6341a	
kb2817478	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b1bbd02b-d4c3-48c3-b648-1852de5d2c8e	
kb3101520	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=1e5f0476-1148-43b8-bfc4-10a1a29ddc32	



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kb3054984	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=35c6b5dc-c065-4d9a-a71f-9d0a6beb4df9	
kb3115123	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e8bd0027-368c-4ecf-bc9b-5c64195e2c53	
kb3114400	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=98015a12-b9cd-48ab-bd7f-7dea92bb8f67	Use all-convintl-en-us_.....cab
kb3114869	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7efaa3ba-dee4-45ba-84b0-50c7aa10437b	
kb3114885	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4ca07bc3-8c95-4644-be17-040a3964a02a	use all-onenoteint-en-us_....cab
kb3115474	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8bc2bfec-84bb-488e-ae91-f4814d409dba	use all-outlookintl-en-us_.....cab
kb3115471	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fd8a17d9-dad0-4f8d-95c4-0677ca0fbb08	
kb3118309	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fb00cc28-9cb3-437e-bac5-069bc32f8aeb	
kb3128037	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=46311afb-a6ab-4fad-b6aa-4ec97507beba	
kb3118380	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=84ea23ce-49d8-4684-ac3b-45f0396053cf	
kb3114395	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=df66c1c1-7fab-4a43-886c-5203d1495bd8	
kb2889841	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=bb220b30-6d01-4e57-8db6-3e492d6b65d3	
kb3128034	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9cd72446-5c11-433a-9589-fd85afcc4eb0	
KB3178687	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=726adfc6-4ac9-4409-bdab-2892b7058e78	



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	<u>Reboot Required</u>	
KB3045311	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2fd51bf-3f70-4c85-986b-5653b0fb7f11	Only run x86 file; Run from a cmd prompt as Administrator using the following command: AMD64_X86-all-sqlserver2008-kb3045311-x86_30561aef89c6d174fee7b77bed6b3b8539542558.exe /ACTION=Patch /INSTANCENAME=MSSQLSERVER /IGNORESERVICERESTARTSTATE
	<u>Reboot Required</u>	
	Make the Following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00010000	

Windows 7 (6.9.6 R1 GECW Review)

	Link	Notes
	https://downloadcenter.intel.com/download/22165/Intel-Graphics-Media-Accelerator-Driver-Windows-7-Windows-Vista-exe-	Display adapter driver update Win7Vista_151719.exe

Windows 2008R2 (INW Server)

KB	Link	Notes
	Make the following Registry Change	



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	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00023c00	
KB2979596	https://www.microsoft.com/en-us/download/details.aspx?id=44278	Run from cmd prompt with SQLServer2008SP4-KB2979596- x64-ENU.exe /ACTION=Patch /INSTANCENAME=MSSQLSERVER /IGNORESERVICERESTARTSTATE
KB3020369	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=076f5c31-ea9c-41db-8640-081a79c79602	
KB3138612	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5ae1092c-f211-4873-aabd-9ee1a142acbb	
KB2639308	http://www.microsoft.com/en-ph/download/details.aspx?id=28933	Install only .MSU file
IE11	http://download.microsoft.com/download/7/1/7/7179A150-F2D2-4502-9D70-4B59EA148EAA/IE11-Windows6.1-x64-en-us.exe	Right click and Run as Administrator. If installation fail with a message requesting to connect to Internet, then install from the command line with these parameter /quiet /closeprograms e.g. "IE11-Windows6.1-x64-en-us.exe /quiet /closeprograms" Note: It could take few retry attempts to install.
	<u>Reboot Required</u>	
kb3125574	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6147e6c1-663b-41bc-9582-9579343857d9	



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	<u>Reboot Required</u>	
Adobe 11.0.19 Superseded	http://supportdownloads.adobe.com/detail.jsp?ftpID=6123	
KB3172605	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3363f98b-78a3-44a7-93df-d770b2dd150a	
KB3179573	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=366304fa-105b-4f48-a07e-d2e6bb274533	
KB4022719	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4aa2ed70-7c26-4727-bd11-6a98b6dd622c	
	<u>Reboot Required</u>	
Patches below can be applied in any order		
kb2894844	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=00e0ded8-dc85-4017-8b54-a1456c63a61b	
KB3205402 Superseded	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5036bd76-3251-49ba-ad86-a99b00853ad4	Only apply KB3210139 (Right click and run as Administrator) & KB3210131
KB2972216	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e63b4eca-27a1-4fd0-b311-e468da0cd02e	
KB2972107	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=151e15f7-fa7a-40c4-a58a-721cb88e8071	



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KB2979578	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d44bd7d1-ec33-4a65-942c-093aec39b02b	
KB2978128	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e257d135-40b9-4361-9e7d-8537d256d54b	
KB3074230	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d0baf87d-e8ec-4ddc-b8b0-89f668ee6504	
KB3074550	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2f7719fa-8a6d-4b16-9c69-66447f308ee7	
KB3097996	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=103a0bdd-e71c-4f33-8cf1-7b68198ad536	
KB3098781	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4ed6e065-7e37-44bb-8798-245649851dec	
KB3122656	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=428c2fef-afe5-46a7-a454-da2fa0e3af27	
KB3127229	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8f49f137-0741-498e-9f7c-754862054221	
KB3135996	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=24aeb988-b368-435b-923b-c09b8a2d3fa5	
KB3156017	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7a300bcb-8e8a-4e38-a04d-9da62feda917	
KB3142033	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=eac1599f-2887-40ce-9cf4-0f364dc37343	
KB3159398	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=56a7a134-5ad6-43c2-aab1-e10d2fef8f7c	
KB3161949	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5bc0e07b-33ca-4ea2-8253-4f0dcd26783a	
KB3170455	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=45460055-be25-47ad-ad0a-2a4711fcc74	



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KB3163251	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7b053e5b-04a5-4f47-92c5-74f6caba0de7	
KB3184471	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8b314103-7382-4c65-8679-135d24dc8966	
KB3177186	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=04c3010d-9989-495c-ab1c-dbc011015822	
KB3125869	https://support.microsoft.com/en-us/help/3125869/ms15-124-vulnerability-in-internet-explorer-could-lead-to-aslr-bypass-december-16,-2015	
KB2538243	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=729a0dcb-df9e-4d02-b603-ed1aee074428	Only run X86-all-vc redistributable_x86....
KB3156016	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=de32fc3d-60a4-4fc9-9588-0c404765940a	
KB3156019	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=05cb4345-49ea-4eca-8ba3-f870466c46c7	
KB3161958	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=795571cf-bd8d-4602-bb28-11080e614333	
HPSBMU03653 rev.1	https://h20566.www2.hp.com/hpsc/swd/public/detail?swItemId=MTX_083799d6dad34195bb47cb43c1	
	<u>Reboot Required</u>	
KB3045311	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2fd51fbf-3f70-4c85-986b-5653b0fb7f11	Only run x64 file; Run from a cmd prompt as Administrator using the following command: AMD64-all-sqlserver2008-kb3045311-x64_37a197c60990d2e83e98d1090109a4ab3f2abe4b.exe /ACTION=Patch



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		/INSTANCENAME=MSSQLSERVER /IGNORESERVICERESTARTSTATE
	Make the following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	Apply only on Domain Controller
	State=dword:00010000	
	Reboot Required	

MLCL V6.9.6 2017 Patch Updates 2

The following patches bring the MLCL system to a more recent patch level and address several security vulnerabilities. The following guidelines apply:

- 1) The above patches are required patches for 6.9.6 and must be applied first.
- 2) It is expected that some patches listed will already be on the system.
- 3) Pay attention to the Notes section for special handling instructions
- 4) Patches must be applied in order except where indicated.
- 5) Reboots are only required where indicated. If a Patch requests a reboot at another point, the system can be rebooted but it is not required.
- 6) Patches will not install if the software component to be patched is not present (such as an IE8 patch on a system that does not have IE8 installed).

Note: KB4022719 replaces KB4012215 and KB4019263 for both Windows 7 and Windows Server 2008 R2 to address CVE-2017-8543, CVE-2017-8544, CVE-2017-0277, CVE-2017-0276, CVE-2017-0275, CVE-2017-0274, CVE-2017-0272, CVE-2017-0271, CVE-2017-0270, CVE-2017-0269, CVE-2017-0268, CVE-2017-0171, CVE-2017-0280, CVE-2017-0279 and CVE-2017-0278.

Windows 7 (Acquisition, Review and Virtual Review)		
KB	Link	Notes
	Make the following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00023c00	



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Adobe 11.0.20	http://supportdownloads.adobe.com/thankyou.jsp?ftpID=6157&fileID=6191	
KB4025341 July Rollup 2017	https://www.catalog.update.microsoft.com/ScopedViewInline.aspx?updateid=12c93ad9-ef0e-4ce6-8a1d-84713223d24a	This patch is required to be installed for the August rollup to successfully install.
KB4019112	https://www.catalog.update.microsoft.com/ScopedViewInline.aspx?updateid=1daeb6d1-b103-4baa-bbde-5326e17e89e4	Run KB4014514 and KB4014504 only. For KB4014514, right click and Run as Administrator,
KB3191847	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4b4bbe2b-a25d-4509-a069-f5efc227b4ad	
KB3191907	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c8533f11-51f9-4f84-96d8-c619947cc7c0	
KB3118310	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c59a1bb2-ff1f-427a-a8d7-2cab1cb3e7d1	Use en-us file all-convintl-en-us_....cab
KB3191843	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f715a81d-102d-416a-9a89-e9ebdace0a6d	
KB3191899	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7698c63a-b85f-4647-bcb1-1be0256c3f43	
KB3203468	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7a599998-ca41-4840-90ea-8143724e5c6a	Use all-proof-en-us_.....cab
KB3213624	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3658f96e-a521-429d-a9a9-e70e30f5d830	
	Reboot Required	
KB3178688	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=322c28f5-349c-468a-ac94-901616f52372	
KB3178690	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=06e2c9fb-65b7-48f5-b6e2-58071f17f9bd	



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	<u>Reboot Required</u>	
KB4034664 August Rollup 2017 Superseded	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e0a94bad-5b2c-4611-9066-24491ce9bb4f	To successfully install this Rollup, you must uninstall July Rollup KB4025341 and reboot before installing KB4034664
	Make the Following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00010000	
	<u>Reboot Required</u>	

Windows 2008R2 (INW Server)

KB	Link	Notes
Adobe 11.0.20	http://supportdownloads.adobe.com/thankyou.jsp?ftpID=6157&fileID=6191	
KB4025341 July Rollup 2017	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b2423c5b-0254-4747-88bb-ec1a785549cb	This patch is required to be installed for the August rollup to successfully install.
KB4019112	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=dedea6da-e039-487b-8ec6-2729551f7165	Run KB4014514 and KB4014504 only. For KB4014514, right click and Run as Administrator,
KB890830	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c860821d-5eef-4d0c-9e9d-ee4638f34dca	Run on Domain Controller only.



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	<u>Reboot Required</u>	
KB4034664 August Rollup 2017 Superseded	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=80f7899d-451d-4e3f-b54e-d488a06a3c58	To successfully install this Rollup, you must uninstall July Rollup KB4025341 and reboot before applying KB4034664
	[HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\NTDS\Parameters] LdapEnforceChannelBinding=DWORD:1	Apply only on Domain Controller. Need starting July Rollup- KB4025341 (CVE-2017-8563)
	<u>Reboot Required</u>	



Patches post Old and New procedure

MLCL V6.9.6 2017 Patch Updates 3

The following patches bring the MLCL system to a more recent patch level and address several security vulnerabilities. The following guidelines apply:

- 1) The above patches are required patches for 6.9.6 and must be applied first.
- 2) It is expected that some patches listed will already be on the system.
- 3) Pay attention to the Notes section for special handling instructions
- 4) Patches must be applied in order except where indicated.
- 5) Reboots are only required where indicated. If a Patch requests a reboot at another point, the system can be rebooted but it is not required.
- 6) Patches will not install if the software component to be patched is not present (such as an IE8 patch on a system that does not have IE8 installed).

Note: KB4041681 replaces KB4041678 for both Windows 7 and Windows Server 2008 R2 to address CVE-2017-11771, CVE-2017-11772, CVE-2017-11780, CVE-2017-11781

Windows 7 (Acquisition, Review and Virtual Review)		
KB	Link	Notes
Adobe 11.0.23	http://supportdownloads.adobe.com/thankyou.jsp?ftpID=6279&fileID=6314	
KB4041681 October 2017 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8a346e85-6ae3-46aa-a9e1-2e70e760f61c	
	<u>Reboot Required</u>	



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Windows 2008R2 (INW Server)

KB	Link	Notes
Adobe 11.0.23	http://supportdownloads.adobe.com/thankyou.jsp?ftplD=6279&fileID=6314	
KB4041681 October 2017 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=cd0388fd-5aca-4a13-8417-c28e1d8b7dda	To successfully install this Rollup, you must uninstall July Rollup KB4025341, August Rollup KB4034664 and reboot before applying KB4041681 Make the following Registry Change – Only on Domain Controller if it does not exist: [HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\NTDS\Parameters] LdapEnforceChannelBinding=DWORD:1 This registry key is needed on Domain controller starting July Rollup- KB4025341 (CVE-2017-8563)
	Reboot Required	



MLCL V6.9.6 2018 Patch Updates 4

The following patches bring the MLCL system to a more recent patch level and address several security vulnerabilities. The following guidelines apply:

- 1) The above patches are required patches for 6.9.6 and must be applied first.
- 2) Pay attention to the Notes section for special handling instructions
- 3) Patches must be applied in order except where indicated.
- 4) Reboots are only required where indicated. If a Patch requests a reboot at another point, the system can be rebooted but it is not required.
- 5) Refer to the above links for the following previously qualified patches KB4019112. These patches were previously qualified but not listed. Please apply these patch to the to virtual review system other systems do not require these patches to be installed separately. In case you receive a message like "Not applicable to the computer", ignore that is an indication that the patch already exist on the system.

Follow these steps to make the following registry changes to remediate June and September monthly rollup vulnerabilities.

Reference: <https://portal.msrc.microsoft.com/en-us/security-guidance/advisory/CVE-2017-8529>

Windows 7 (Acquisition, Review and Virtual Review) & Windows 2008R2 (INW Server):

1. Click **Start**, click **Run**, type **regedt32** or type **regedit**, and then click **OK**.
2. In Registry Editor, locate the following registry folder: **HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Internet Explorer\Main\FeatureControl**
3. Right-click **FeatureControl**, point to **New**, and then click **Key**.
4. Type **FEATURE_ENABLE_PRINT_INFO_DISCLOSURE_FIX**, and then press Enter to name the new subkey.
5. Right-click **FEATURE_ENABLE_PRINT_INFO_DISCLOSURE_FIX**, point to **New**, and then click **DWORD Value**.
6. Type "iexplore.exe" for the new DWORD value.
7. Double-click the new DWORD value named iexplore.exe and change the **Value** data field to **1**.
8. Click **OK** to close.

Windows 2008R2 (INW Server):

1. Click **Start**, click **Run**, type **regedt32** or type **regedit**, and then click **OK**.
2. In Registry Editor, locate the following registry folder: **HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\Microsoft\Internet Explorer\Main\FeatureControl**
3. Right-click **FeatureControl**, point to **New**, and then click **Key**.
4. Type **FEATURE_ENABLE_PRINT_INFO_DISCLOSURE_FIX**, and then press Enter to name the new subkey.



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5. Right-click **FEATURE_ENABLE_PRINT_INFO_DISCLOSURE_FIX**, point to **New**, and then click **DWORD Value**.
6. Type "iexplore.exe" for the new DWORD value.
7. Double-click the new DWORD value named iexplore.exe and change the **Value** data field to **1**.
8. Click **OK** to close.

Windows 7 (Acquisition, Review and Virtual Review)		
KB	Link	Notes
KB4048957 November 2017 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=224b07ab-de98-45f0-8b9c-83551cac66f6	
	<u>Reboot Required</u>	
KB4054518 December 2017 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5b48d1cb-83f7-43e1-9308-18872ffe4dce	
	<u>Reboot Required</u>	
KB3203468 July 2017 Microsoft Office 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7a599998-ca41-4840-90ea-8143724e5c6a	
KB3213626 September 2017 Microsoft Office 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2bb1487f-b287-41a9-b0ec-01b42aa4759e	
KB3128027 September 2017 Microsoft PowerPoint 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=474aa90a-7767-4f4f-b3f5-2ffa12fea4e6	



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KB3141537 September 2017 Microsoft Publisher 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=0c646d3e-697d-4463-a6ea-afb3493c5cea	
KB2553338 October 2017 Microsoft Office 2010 SP2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=14e73852-cbd2-456a-a9a8-7f0c10f1fa40	Might get error message (The upgrade path cannot be installed...) This error message can be ignored.
KB2837599 October 2017 Microsoft Office 2010 SP2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=54ccbc02-879e-4aa1-b817-12418ce8dfcd	
KB4011612 December 2017 Microsoft Office 2010 SP2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8230d598-8ab1-4efc-89b6-d3507a6dfd20	Might get error message (The upgrade path cannot be installed...) This error message can be ignored.
KB4011660 January 2018 Microsoft Excel 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d7594745-04d5-4631-b2d7-289816f4dd43	
KB4011659 January 2018 Microsoft Word 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=0b5a1bf0-3043-47fd-afc3-d2fb55a46a96	
KB4011611 January 2018 Microsoft Office 2010 SP2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3b2c376c-ea57-4925-b81d-3b765d456f2b	Extract to a location and run the extraction to install. Check installed updates for a successful install.
KB4011610	https://www.microsoft.com/en-us/download/details.aspx?id=56447	



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January 2018 Microsoft Office 2010		
KB4054172 January 2018 .NET Framework	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=537fc3ba-4248-40b8-9498-8a671abebfe9	Install the following KB4054172, KB4019990 and KB4054176
KB2719662	Create the following Registry Keys	
	Key=[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\Windows\Sidebar\ Value Name=[TurnOffSidebar] Type=[REG_DWORD] Data=[1]	
KB2269637	Create the following Registry Keys	
	Key=[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\ Value Name=[CWDIllegalInDllSearch] Type=[REG_DWORD] Data=[1]	
	<u>Reboot Required</u>	

Windows 2008R2 (INW Server)

KB	Link	Notes
KB3177467 Service Stack	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f1b99598-a22d-4fbe-9b63-09724833acc3	Required for successful Monthly rollup installation without uninstalling previous monthly rollup



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	Reboot Required	
KB4048957 November 2017 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=435d3006-04ae-4c27-a5f9-3c36f09e58ed	
	Reboot Required	
KB4054518 December 2017 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=09064e30-6f3e-4c99-8d09-fbc2ba06b436	
	Reboot Required	
KB4054172 January 2018 .NET Framework	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fdecaf44-50a3-4667-a935-f9e7af0bb317	
KB2269637	Create the following Registry Keys	
	Key=[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\ Value Name=[CWDIllegalInDllSearch] Type=[REG_DWORD] Data=[1]	
	Reboot Required	

MLCL V6.9.6 2018 Patch Updates 5

The following patches bring the MLCL system to a more recent patch level and address several security vulnerabilities. The following guidelines apply:

- 1) The above patches are required patches for 6.9.6 and must be applied first.
- 2) Pay attention to the Notes section for special handling instructions
- 3) Patches must be applied in order except where indicated.
- 4) Reboots are only required where indicated. If a Patch requests a reboot at another point, the system can be rebooted but it is not required.



Windows 7 (Acquisition, Review and Virtual Review)		
KB	Link	Notes
	Make the following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00023c00	
KB4056894 January 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=63bb3909-e5fe-45a2-8d59-44f9df52317f	
	<u>Reboot Required</u>	
KB4091290	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c70372c5-bd6c-48f7-b562-c326bc1327a4	
KB4074598 February Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=651e95ab-6e7c-4ea6-9cd2-3cbabd9b76f0	
	<u>Reboot Required</u>	
KB4099950	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=0872a60d-385a-4486-8322-9e759802017a	CAUTION: This patch has to be applied before March Monthly rollup KB4088875. Not applying this before March rollup can affect NIC settings.
KB4088875 March Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3ed75c38-aa36-437e-bf4f-574789591e03	
	<u>Reboot Required</u>	
KB4096040	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=be3cdb55-862c-4362-b015-894e381e07f9	



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KB4099467	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f325deb3-28fc-45a3-ab7b-5264f801daf6	
	Reboot Required	
KB4093118 April Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=647f49ef-0f0a-49dc-9766-dd255cded1af	
KB4011707	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=969c78ec-cd6a-4295-ade3-a57ca7f8b3b2	
KB3114874	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9fae99be-ddc3-4e37-b3ee-9b631fd50eca	
KB3114416	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=da77f81d-187b-4cae-a75a-d64766a7713d	
KB4057114	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=0aa653a1-1459-44cd-be0b-0fcb77e4ef85	Install AMD64_X86-en-sqlserver2008-kb4057114-x86_a9295f99a2ee7c714f540f3697be0fd4aee7a7bf.exe Run from a cmd prompt as Administrator using the following command: AMD64_X86-en-sqlserver2008-kb4057114-x86_a9295f99a2ee7c714f540f3697be0fd4aee7a7bf.exe /ACTION=Patch /INSTANCENAME=MSSQLSERVER /IGNORESERVICERESTARTSTATE
	Reboot Required	
KB4103718 May 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3f4d0c73-a177-48cf-a3e7-97d1a94cba87	
	Reboot Required	



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KB4095874 .NET 3.5 SP1 and KB4096495 .NET 4.5.2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d000d6a2-3321-4381-9a24-3345b2cd0435	KB4099633 is the KB number to use to download and install the patch for KB4095874 and KB4096495. Inside your downloaded file has multiple KBs. Follow these order of installation: 1) Install KB4019990(You may see already installed message for this KB, ignore and continue) 2) KB4095874 3) KB4096495
	Reboot Required	
KB4022146 Microsoft Excel 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5795d737-4091-4784-a707-007b99d3daef	KB4022146 Microsoft Excel 2010
KB2899590 Microsoft Office 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d8acdbaf-7f56-4c65-a898-9fdcf7a2d83a	KB2899590 Microsoft Office 2010
	Make the Following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00010000	
	Reboot Required	



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Windows 2008R2 (INW Server)

KB	Link	Notes
	Make the following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00023c00	
CP031045 Firmware Update for ML350p Gen 8 Server	https://support.hpe.com/hpsc/swd/public/detail?swItemId=MTX_13ce4f3fc79b4433873342345b	Refer to “ML350p Gen8 (P72) BIOS Update to v 2015.07.01 (B) Instructions” section above for installation instructions. This should be installed before installing “ML350p Gen8 (P72) BIOS Update to v2018.01.22 Instructions”. This should only be installed on ML350p G8 Servers.
CP034981 Firmware Update for ML350p Gen 8 Server	https://support.hpe.com/hpsc/swd/public/detail?sp4ts.oid=5195931&swItemId=MTX_58f2f298203c4664a6e5c9402d&swEnvOid=4184#tab1	Refer to “ML350p Gen8 (P72) BIOS Update to v2018.01.22 Instructions” section above for installation instructions. Install “ML350p Gen8 (P63) BIOS Update to v 2015.07.01 (B) Instructions” before installing this update. This should only be installed on ML350p G8 Servers.
CP035397 Firmware Update for DL370 Gen 6 Server	https://support.hpe.com/hpsc/swd/public/detail?swItemId=MTX_df78827f61164b6f952314da7c	Refer to “DL370 Gen6 BIOS Update to v2018.02.22 Instructions” section above for installation instructions. This should only be installed on DL370 G6 Servers.



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	Reboot Required	
KB4056894 January 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fc887fd2-cd35-434b-b6e3-1fef99b2e7ce	
	Reboot Required	
KB4091290	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c96d43ea-477f-47a1-919f-6936c8d628a3	
KB4074598 February Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f3ab18cb-219e-4287-b14c-3a05c8d9479a	
	Reboot Required	
KB4099950	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=38b41383-c716-488c-a937-163bf04f6956	CAUTION: This patch has to be applied before March Monthly rollup KB4088875. Not applying this before March rollup can affect NIC settings.
KB4096040	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3af42ab1-13ed-42b5-9e4e-a841a71e7f2c	
KB4088875 March Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=03df6731-e0a6-4917-9da3-161a0b7f6b09	
KB4099467	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=38800bcc-c954-4822-b864-6ae91cc19bb2	
	Reboot Required	
KB4093118 April Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d2c7363c-323f-4e92-892a-90b83027e4aa	
	Reboot Required	
KB4057114	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=0aa653a1-1459-44cd-be0b-0fcb77e4ef85	Install AMD64-en-sqlserver2008-kb4057114-



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		x64_9ce0b7c5909d8fcc5b9a12d17f29b7864a9df33a.exe file. Run from a cmd prompt as Administrator using the following command: AMD64-en-sqlserver2008-kb4057114-x64_9ce0b7c5909d8fcc5b9a12d17f29b7864a9df33a.exe /ACTION=Patch /INSTANCENAME=MSSQLSERVER /IGNORESERVICERESTARTSTATE
	Reboot Required	
KB4103718 May 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4fe75106-a2ba-4186-aecd-10424a19225e	
	Reboot Required	
KB4095874 .NET 3.5 SP1 and KB4096495 .NET 4.5.2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=62ccd808-b5a5-4be9-8a38-8e2a829e29d1	KB4099633 is the KB number to use to download and install the patch for KB4095874 and KB4096495. The downloaded file has multiple KBs. Follow these order of installation: 1) Install KB4019990(You may see already installed message for this KB, ignore and continue) 2) KB4095874 3) KB4096495
	Make the Following Registry Change	



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	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00010000	
	Reboot Required	

MLCL V6.9.6 2018 Patch Updates 6

The following patches bring the MLCL system to a more recent patch level and address several security vulnerabilities. The following guidelines apply:

- 1) The above patches are required patches for 6.9.6 and must be applied first.
- 2) Pay attention to the Notes section for special handling instructions
- 3) Patches must be applied in order except where indicated.
- 4) Reboots are only required where indicated. If a Patch requests a reboot at another point, the system can be rebooted but it is not required.

Windows 7 (Acquisition, Review and Virtual Review)		
KB	Link	Notes
	Make the following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00023c00	
Z600 BIOS Update to v3.61	https://support.hp.com/us-en/drivers/selfservice/hp-z600-workstation/3718663	Refer to Z600 BIOS Update to v3.61 Instructions above WARNING: After installing this BIOS version onto the system, prior BIOS versions cannot be installed onto the system.
	Reboot Required	



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KB4284826 June 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=326a9830-3983-402d-b48b-7a35f99c516a	
	<u>Reboot Required</u>	
KB4338818 July 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=ea409dca-1368-48cf-94c1-d510b1690d74	
	<u>Reboot Required</u>	
KB4338821	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=dafd8f28-09a9-4d17-8a6c-93341a8379ec	
	<u>Reboot Required</u>	
KB4343900 August 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d785f6dd-d90b-4cb9-838a-8faf5971165f	
	<u>Reboot Required</u>	
KB4343894 IE 11	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3fc3f78a-19c5-45bc-9f06-6a14cec0f007	
	<u>Reboot Required</u>	
KB4457144 September 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f5c88de4-720e-4ed1-b95f-6ce4d4d06087	
	<u>Reboot Required</u>	



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KB4345590 .NET Framework	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=08968031-142d-4dcb-9fd8-29fbd6ae9960	Install KB4344149 first (restart if prompted) followed by KB4344152
	Reboot Required	
KB3203468 Microsoft Office Proof 2010 SP2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7a599998-ca41-4840-90ea-8143724e5c6a	
KB4032223 Microsoft Excel 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=cd28cd6b-b3c2-4266-b417-d26d53f7d75f	
KB4227175 Microsoft Excel 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=bba3a281-f10f-45bc-adf8-9e4436d4c39b	
KB4018311 Microsoft Office 2010 SP2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f96028c5-b20a-41a6-9963-83261d690a62	
KB3213636 Microsoft Office 2010 SP2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7e7049e7-b870-4c87-af60-bc5a0bace002	
KB4022198 Microsoft Office 2010 SP2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=cc4958f4-308d-474c-a655-567e41cf9b1d	
KB3115197 Microsoft Office 2010 SP2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=393d97f5-b447-43c5-9e0c-b6707c8d29ce	
KB3115248	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4cc02a6f-9551-4909-bce1-4a45d41404ec	



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Microsoft Office 2010 SP2		
KB4022199 Microsoft Office 2010 SP2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3f3c71ef-c743-4824-8951-deb8cdabf2eb	
KB4022137 Microsoft Office 2010 SP2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9d64be86-d3f2-47a4-a9a3-f8ae05842ed3	
KB4018310 Microsoft PowerPoint 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4cc49d2c-fe7e-4a55-987e-4b1d4ccb8e1c	
KB4011186 Microsoft Publisher 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4564150c-2ab1-42e4-a135-105b924dc45d	
KB4022202 Microsoft Word 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=59253783-a245-4897-993e-57a2ed30c0e0	
KB4011674 Microsoft Word 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b13107b6-02b9-4f00-a6d9-3bf44a3c1247	
KB4022141 Microsoft Word 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d2f428f2-7c02-4a49-8680-4407404cb7a2	
	Make the Following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	



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	State=dword:00010000	
	<u>Reboot Required</u>	

Windows 2008R2 (INW Server)

KB	Link	Notes
	Make the following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00023c00	
HPESBHF03874 rev.1 ML350p Gen8 (CP036431)	https://support.hpe.com/hpsc/swd/public/detail?sp4ts.oid=5195931&swItemId=MTX_3a5fbdd653f94fac9e2a12e8dc&swEnvOid=4184	Refer to ML350p Gen8 BIOS Update to 5/21/2018 Instructions above
	<u>Reboot Required</u>	
HPESBHF03874 rev.1 DL370 Gen6 (SP99324)	https://support.hpe.com/hpsc/swd/public/detail?sp4ts.oid=3890183&swItemId=MTX_37660617800b4f3db17cb11599&swEnvOid=4184	Refer to DL370 Gen6 BIOS Update to 5/21/2018 Instructions above
	<u>Reboot Required</u>	
KB4284826 June 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=999fa80e-c59d-4ff6-8268-c6a8c365f428	
	<u>Reboot Required</u>	
KB4338818 July 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=1c930eab-7b7e-4616-b5b5-d6e4a723bc71	



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	Reboot Required	
KB4338821	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8e951203-5d8e-4f69-9560-ce698c4f7a77	
	Reboot Required	
KB4343900 August 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=71600c77-2a56-4ba2-991b-ad477cfc9eb9	Create the following registry settings if they do not exist Key=[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\Memory Management] Value Name=[FeatureSettingsOverride] Type=[REG_DWORD] Data=[0] Key=[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\Memory Management] Value Name=[FeatureSettingsOverrideMask] Type=[REG_DWORD] Data=[3]
	Reboot Required	
KB4343894 IE 11	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6525d333-fafc-4345-ad06-6edc8db84aaf	
	Reboot Required	
KB4457144 September 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2986185e-cd31-4f1d-99a5-bea6bd1ef53c	



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	Reboot Required	
KB4345590 .NET Framework	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=14afae30-094f-4dca-ba5f-e22347edb98f	Install KB4344149 first (restart if prompted) followed by KB4344152
	Make the Following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00010000	
	Reboot Required	

MLCL V6.9.6 2019 Patch Updates 7

The following patches bring the MLCL system to a more recent patch level and address several security vulnerabilities. The following guidelines apply:

- 1) The above patches are required patches for 6.9.6 and must be applied first.
NOTE: If the system was reimaged with the new Patched Image then apply only Patch Updates 7
- 2) Pay attention to the Notes section for special handling instructions
- 3) Patches must be applied in order except where indicated.
- 4) Reboots are only required where indicated. If a Patch requests a reboot at another point, the system can be rebooted but it is not required.

Adobe Reader DC MUI Installation and Configuration

Follow the below instructions to install and configure the Adobe Reader DC MUI on 6.9.6 R1 Acquisition system, Review workstation and INW server.

Adobe Reader DC MUI Installer and Patch Download Locations:

- MUI Installer:
 - o Location: <ftp://ftp.adobe.com/pub/adobe/reader/win/AcrobatDC/1500720033/>
 - o File Name: AcroRdrDC1500720033_MUI.exe
- Patch (**Adobe Acrobat Reader MUI DC (Continuous Track) update - All languages**):



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- Location: <https://supportdownloads.adobe.com/detail.jsp?ftpID=6523>

Note: v2019.008.20081 is the adobe reader DC patch version tested and qualified for installation.

Adobe Reader DC MUI Installer and Patch Installation Instructions:

Note: The Adobe Reader DC automatically uninstalls the previous version of Adobe Reader XI during installation.

- 1) Note the following login requirements:
 - On standalone Acquisition systems, you must be logged in as member of **local** administrator group to Windows and Custom Shell.
 - On networked Acquisition systems, Review workstations, you must be logged in as member of **domain** administrator group to Windows and Custom Shell.
 - On INW server, you must be logged in as member of **domain** administrator group to Windows.
- 2) Navigate to the adobe installer location, right click **AcroRdrDC1500720033_MUI.exe** and select **Run as Administrator**.
- 3) Wait for the file extraction to complete.
- 4) Keep the default folder location and click **Install**.
- 5) Wait for the installation to complete.
- 6) Click **Finish**.
- 7) Navigate to the adobe patch location, double click **AcroRdrDCUpd1900820081_MUI.msp**.
- 8) Click **Update**.
- 9) Wait for the patch installation to complete.
- 10) Click **Finish**.
- 11) Restart the system.

Adobe Reader DC MUI Configuration:

Adobe Reader DC must be configured under the following windows users in order:

- Workstations:
 - MLCLLogonUser
 - MLCLTechUser
- Server:
 - Administrator
 - MLCLTechUser



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MLCLLogonUser:

- 1) Note the following login requirements:
 - On standalone Acquisition systems, you must be logged in as **local MLCLLogonUser** to Windows and **local MLCLUser** to Custom Shell.
 - On networked Acquisition systems, Review workstations, you must be logged in as **domain MLCLLogonUser** to Windows and **domain MLCLUser** to Custom Shell.
- 2) Click **Start > All Programs > Acrobat Reader DC**.
- 3) At license agreement window, click **Accept**.
- 4) Close Welcome window.
- 5) Click **Edit > Preferences > General**.
- 6) Deselect **Show me messages when I launch Adobe Acrobat Reader**.
- 7) Click **Internet**.
- 8) Deselect **Allow Speculative downloading in the background**.
- 9) Click **Reviewing**.
- 10) Click **Tracker**.
- 11) Deselect **Show notification icon in system tray**.
- 12) Click **OK**.
- 13) Click **Edit > Preferences > Reviewing**.
- 14) Deselect **Show Welcome dialog when opening file**.
- 15) Deselect **Show server connection warning dialog when opening file**.
- 16) Click **OK**.
- 17) Close **Adobe Reader DC**.
- 18) Navigate to **C:\Program Files\GE Healthcare\MLCL\Doc** folder.
- 19) Open **Mac-Lab Operator's Manual.pdf**.
- 20) Click **Edit > Preferences > Documents**.
- 21) Select **Remember current state of the Tools pane**.
- 22) Click **OK**.
- 23) Click **View > Show/Hide** and deselect **Tools Pane**.
- 24) Close **Adobe Reader DC**.
- 25) If present, delete the Acrobat Reader DC shortcut from the desktop.
- 26) Click **Continue**.
- 27) Enter administrator Username and Password and Click Yes.

MLCLTechUser:



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- 1) Note the following login requirements:
 - On standalone Acquisition systems, you must be logged in as **local MLCLTechUser** to Windows and Custom Shell.
 - On networked Acquisition systems, Review workstations, you must be logged in as **domain MLCLTechUser** to Windows and Custom Shell.
 - On INW server, you must be logged in as **domain MLCLTechUser** to Windows.
- 2) Click **Start > All Programs > Acrobat Reader DC**.
- 3) Close Welcome window.
- 4) Click **Edit > Preferences > General**.
- 5) Deselect **Show me messages when I launch Adobe Acrobat Reader**.
- 6) Click **Internet**.
- 7) Deselect **Allow Speculative downloading in the background**.
- 8) Click **Reviewing**.
- 9) Click **Tracker**.
- 10) Deselect **Show notification icon in system tray**.
- 11) Click **OK**.
- 12) Click **Edit > Preferences > Reviewing**.
- 13) Deselect **Show Welcome dialog when opening file**.
- 14) Deselect **Show server connection warning dialog when opening file**.
- 15) Click **OK**.
- 16) Close **Adobe Reader DC**.
- 17) Navigate to **C:\Program Files\GE Healthcare\MLCL\Doc** folder on workstations and **C:\Program Files (x86)\GE Healthcare\MLCL\Doc** folder on server.
- 18) Open **Mac-Lab Operator's Manual.pdf**.
- 19) Click **Edit > Preferences > Documents**.
- 20) Select **Remember current state of the Tools pane**.
- 21) Click **OK**.
- 22) Click **View > Show/Hide** and deselect **Tools Pane**.
- 23) Close **Adobe Reader DC**.
- 24) If present, delete the Acrobat Reader DC shortcut from the desktop.

Administrator:

- 1) Note the following login requirements:
 - On INW server, you must be logged in as **domain Administrator** to Windows.
- 2) Click **Start > All Programs > Acrobat Reader DC**.



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- 3) Close Welcome window.
- 4) Click **Edit > Preferences > General**.
- 5) Deselect **Show me messages when I launch Adobe Acrobat Reader**.
- 6) Click **Internet**.
- 7) Deselect **Allow Speculative downloading in the background**.
- 8) Click **Reviewing**.
- 9) Click **Tracker**.
- 10) Deselect **Show notification icon in system tray**.
- 11) Click **OK**.
- 12) Click **Edit > Preferences > Reviewing**.
- 13) Deselect **Show Welcome dialog when opening file**.
- 14) Deselect **Show server connection warning dialog when opening file**.
- 15) Click **OK**.
- 16) Close **Adobe Reader DC**.
- 17) Navigate to **C:\Program Files\GE Healthcare\MLCL\Doc** folder on workstations and **C:\Program Files (x86)\GE Healthcare\MLCL\Doc** folder on server.
- 18) Open **Mac-Lab Operator's Manual.pdf**.
- 19) Click **Edit > Preferences > Documents**.
- 20) Select **Remember current state of the Tools pane**.
- 21) Click **OK**.
- 22) Click **View > Show/Hide** and deselect **Tools Pane**.
- 23) Close **Adobe Reader DC**.
- 24) If present, delete the Acrobat Reader DC shortcut from the desktop.

Disable Adobe Reader Update Service:

- 1) Note the following login requirements:
 - On standalone Acquisition systems, you must be logged in as member of **local** administrator group to Windows and Custom Shell.
 - On networked Acquisition systems, Review workstations, you must be logged in as member of **domain** administrator group to Windows and Custom Shell.
 - On INW server, you must be logged in as member of **domain** administrator group to Windows.
- 2) Launch **Services.msc**.
- 3) Stop and Disable **Adobe Acrobat Update Service**.



Windows 7 (Acquisition, Review and Virtual Review)		
KB	Link	Notes
	Make the following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00023c00	
KB4490628 Servicing Stack Update	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=71c7172c-f6ea-493d-ab74-65d2548e834b	
KB4462923 October 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d2f075cf-7563-40e7-9aa3-8d2562e60cf9	
	<u>Reboot Required</u>	
KB4467107 November 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=81c3ab78-c5a5-403b-b347-0d9421539574	
	<u>Reboot Required</u>	
KB4471318 December 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=345b59c2-a130-42aa-9b98-a66dd085451c	
	<u>Reboot Required</u>	
KB4480970 January 2019 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4972abbb-3924-406f-8612-4b6f3ad53442	
	<u>Reboot Required</u>	



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KB4486563 February 2019 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b29b6d12-dbd3-4d44-b0cf-f6e5e298cab2	
	<u>Reboot Required</u>	
KB4489878 March 2019 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=039eb986-8841-4931-88e9-7f429ed74fb4	
	<u>Reboot Required</u>	
KB4493472 April 2019 Monthly Rollup	https://www.catalog.update.microsoft.com/ScopedViewInline.aspx?updateid=c263402a-d44d-4473-bff6-40e5cc468c82	
	<u>Reboot Required</u>	
KB4499164 May 2019 Monthly Rollup	https://www.catalog.update.microsoft.com/ScopedViewInline.aspx?updateid=94e0a99a-327b-4a75-a40a-b38f0a4e18cf	
	<u>Reboot Required</u>	
KB4470641 .NET Framework 3.5.1 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c3ef1b3d-4a92-45b1-b9b6-203d388abe1a	
	<u>Reboot Required</u>	
KB4470637	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7b427c69-99db-4e3d-838f-3d9f5df18a6c	Right Click on the file and Run as Administrator.



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.NET Framework 4.5.2 Monthly Rollup		Note: This will be extracted to a temporary location and the update will run. Wait till .Net Update window display and follow onscreen instructions
	<u>Reboot Required</u>	
KB4480059 .NET Framework 4.5.2 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b8c1b025-fd0a-4c5c-9aa8-3549f8eef894	
	<u>Reboot Required</u>	
KB3114565 November 2018 Office 2010 SP2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f8597b0b-75c8-49e9-b352-2c036324dcac	
KB4461570 December 2018 Office 2010 SP2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=67f17a1d-98a3-4554-8d26-21e0e32454d8	
KB2553332 January 2019 Office 2010 SP2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c23a7e38-0ae6-4565-ac68-fcbc0ba37194	
KB4461614 January 2019 Office 2010 SP2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e21643f5-d332-490b-94f6-666fbcf37a48	
KB4461466 October 2018 Excel 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=1914e637-8c9a-49fa-8361-2f621e2cb1cf	



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KB4461577 December 2018 Excel 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d7419ea5-4069-4e51-bd42-d6d0f89b0000	
KB4092439 October 2018 Word 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2dc153d4-a8a6-461d-bcee-96d16d168ec3	
KB4461625 January 2019 Word 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=ce188561-f88e-4130-b478-c71e737af957	Install both the language version e.g. all-wordintl-en-us_.... and All-word-x-none_.....
KB4461521 December 2018 PowerPoint 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e1eedb8e-0c58-4b7d-9da5-b34066d06ad8	
KB4462230 Microsoft Excel 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2728f82a-4baf-438c-93bb-0c6ef3ab2628	
KB3115120 Microsoft Office 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=57460e64-0e98-46c3-9fdd-5a6b410b9e2e	
KB3191908 Microsoft Office 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3d5594e2-20dc-4714-8b1f-521061557021	
KB3213631 Microsoft Office 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9c1e1b48-fc01-4698-824c-4a3767377eae	
KB4022206 Microsoft Office 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=bac66ae6-b816-4718-89c2-0e3af0f223a2	Ignore Windows installer message if they appear



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KB4022208 Microsoft Office 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2ff1653c-e6e9-41a7-8df7-6ee81ec2dd2c	Ignore Windows installer message if they appear
KB4462177 Microsoft Office 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=80edffc4-eab0-475b-a4f3-8b1d531db0dd	
KB4462223 Microsoft Office 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=334be4e6-18ce-4d4c-a133-3c720d8c1262	
KB4461623 Microsoft Outlook 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=cefe4cf0-ac44-44cd-872b-fb6e5c292754	Install both the language version e.g. all-wordintl-en-us_.... and All-word-x-none_....
KB3128031 Microsoft Office 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=efdfb48c-174b-4b88-9dbe-18431473ece3	
KB4092436 Microsoft Office 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b8df3741-3ae0-40de-9857-52ef03468f16	
KB4022136 Microsoft PowerPoint 2010	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d2e3b299-dd41-4d04-be48-c53abc9705bf	Install both the language version e.g. all-wordintl-en-us_.... and All-word-x-none_....
KB4487078 .NET Framework 3.5.1, 4.5.2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=30526e5c-503a-4300-8d4c-c215d1a30349	Install KB4483455 and KB4483458
KB4340004 .NET Framework 3.5.1, 4.5.2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c52c0560-8129-4649-812d-08473bb26801	Install KB4338602



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KB4345679 .NET Framework 3.5.1, 4.5.2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=1b11fddd-9a22-472e-a412-ef225a5de41a	Install KB4344173
KB4487121 .NET Framework 3.5.1, 4.5.2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5b16b18c-5d7c-4ab0-a6cd-366b2553e1b2	Install KB4483474 and KB4483483
KB4493435 Internet Explorer 11	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4a2f0647-ecd1-4e6c-9c83-c19f37e7b3e0	
	<u>Reboot Required</u>	
KB3064209 CPU Microcode update	https://www.microsoft.com/en-us/download/details.aspx?id=47656	Ignore if you receive already installed on the computer message
	Make the Following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00010000	
	<u>Reboot Required</u>	

Windows 2008R2 (INW Server)

KB	Link	Notes
	Make the following Registry Change	



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	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00023c00	
KB4490628 Servicing Stack Update	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=1d4f0343-a41a-4782-8aed-18a620431171	
KB4462923 October 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c3e23546-1642-4edc-bdd4-932f941f97a1	
	Reboot Required	
KB4467107 November 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=1f74c5cc-0f12-40e5-a947-81516a1cce12	
	Reboot Required	
KB4471318 December 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3df43753-6cbf-40d1-9249-db8009bbbc7a	
	Reboot Required	
KB4480970 January 2019 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=baf43ca5-a997-48e2-bb96-375193004bb8	
	Reboot Required	
KB4486563 February 2019 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9ec6ce3a-e6b5-4741-a44b-01d76ce427d1	
	Reboot Required	
KB4489878 March 2019 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4f0792e3-3d80-41c3-bc5b-0440b0df9f20	



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	Reboot Required	
KB4493472 April 2019 Monthly Rollup	https://www.catalog.update.microsoft.com/ScopedViewInline.aspx?updateid=c8630c56-66ba-4f5f-8564-30d73f25beb8	
	Reboot Required	
KB4499164 May 2019 Monthly Rollup	https://www.catalog.update.microsoft.com/ScopedViewInline.aspx?updateid=c832b037-3ac5-4dfb-b43b-cd70c004a803	
	Reboot Required	
KB4470641 .NET Framework 3.5.1 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=437d0478-b891-4d79-b5fb-4b7290d77334	
	Reboot Required	
KB4470637 .NET Framework 4.5.2 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=0fe7139a-9081-4151-9b83-c499dcdb852b	Right Click on the file and Run as Administrator. Note: This will be extracted to a temporary location and the update will run. Wait till .Net Update window display and follow onscreen instructions.
	Reboot Required	
KB4480059 .NET Framework 4.5.2 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=eab83cf8-4e43-40cc-be52-caaf0fb1381c	



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KB4487078 .NET Framework 3.5.1, 4.5.2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e220e2c6-d8a8-4a77-b509-a4db5c3e7736	Install KB4483455 and KB4483458
KB4487121 .NET Framework 3.5.1, 4.5.2	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8f601e2c-ed42-409a-b754-3c5f402f4f9a	Install KB4483474 and KB4483483
KB4493435 Internet Explorer 11	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=23f66904-5d8d-4e14-b06b-48157e4d9327	
	Reboot Required	
KB3064209 CPU Microcode update	https://www.microsoft.com/en-us/download/details.aspx?id=47673	Ignore if you receive already installed on the computer message
	Make the Following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00010000	
	Reboot Required	

MLCL v6.9.6 Optional Security Updates

The following optional updates may be applied to further enhance the security profile of the MLCL systems. These updates should be evaluated on a site-by-site basis in accordance with local IT policy. The configuration changes in this section are compatible with MLCL product functionality but may introduce site specific IT impact as a result of disabling of legacy SSL protocols, prohibiting remote desktop usage and requiring certificate generation and maintenance.

Additional Security Setting and Patches



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	INW Server	Acquisition - Mac-Lab IT/XT/XTi , CardioLab IT/XT/XTi and SpecialsLab	GE Client Review Workstation	Virtual Review
Patch	Download URL	Download URL	Download URL	Download URL
MS16-047 KB3149090 Superseded	https://technet.microsoft.com/library/security/MS16-047	https://technet.microsoft.com/library/security/MS16-047	https://technet.microsoft.com/library/security/MS16-047	https://technet.microsoft.com/library/security/MS16-047
Plugin 20007 – Disable SSL V2/V3 – KB187498	Please see section - How to Install Plugin 20007 – Disable SSL V2/V3 – KB187498	Please see section - How to Install Plugin 20007 – Disable SSL V2/V3 – KB187498	Please see section - How to Install Plugin 20007 – Disable SSL V2/V3 – KB187498	Please see section - How to Install Plugin 20007 – Disable SSL V2/V3 – KB187498
Plugin 78479 - Poodle	No change needed. Step above fixes this.	No change needed. Step above fixes this.	No change needed. Step above fixes this.	No change needed. Step above fixes this.
Plugin 35291 – Weak Hashing	Please see section - How to Install Plugin 35291 – Weak Hashing (Refer to https://technet.microsoft.com/en-us/library/ms191192(v=sql.105).aspx for more information)	Please see section - How to Install Plugin 35291 – Weak Hashing (Refer to https://technet.microsoft.com/en-us/library/ms191192(v=sql.105).aspx for more information)	Please see section - How to Install Plugin 35291 – Weak Hashing (Refer to https://technet.microsoft.com/en-us/library/ms191192(v=sql.105).aspx for more information)	Please see section - How to Install Plugin 35291 – Weak Hashing (Refer to https://technet.microsoft.com/en-us/library/ms191192(v=sql.105).aspx for more information)
Plugin 45411	No change needed. Step above fixes this.	No change needed. Step above fixes this.	No change needed. Step above fixes this.	No change needed. Step above fixes this.
Plugin 65821 – SSL RC4 Cipher Suites Supported (Bar Mitzvah)	Please see section - How to Install Plugin 65821 – SSL RC4 Cipher Suites Supported (Bar Mitzvah)	Please see section - How to Install Plugin 65821 – SSL RC4 Cipher Suites Supported (Bar Mitzvah)	Please see section - How to Install Plugin 65821 – SSL RC4 Cipher Suites Supported (Bar Mitzvah)	Please see section - How to Install Plugin 65821 – SSL RC4 Cipher Suites Supported (Bar Mitzvah)
Plugin 63155 - Microsoft Windows Unquoted Service Path Enumeration	Please see section - How Remove Vulnerability for Plugin 63155 – Microsoft Windows Unquoted Service Path Enumeration	Please see section - How Remove Vulnerability for Plugin 63155 – Microsoft Windows Unquoted Service Path Enumeration	Please see section - How Remove Vulnerability for Plugin 63155 – Microsoft Windows Unquoted Service Path Enumeration	Please see section - How Remove Vulnerability for Plugin 63155 – Microsoft Windows Unquoted Service Path Enumeration



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	INW Server	Acquisition - Mac-Lab IT/XT/XTi , CardioLab IT/XT/XTi and SpecialsLab	GE Client Review Workstation	Virtual Review
Plugin 59915 – Vulnerabilities in Gadgets Could Allow Remote Code Execution	N/A	Please follow the section titled “Disable the Sidebar in the system Registry” in the following Article: https://technet.microsoft.com/library/security/2719662	Please follow the section titled “Disable the Sidebar in the system Registry” in the following Article: https://technet.microsoft.com/library/security/2719662	Please follow the section titled “Disable the Sidebar in the system Registry” in the following Article: https://technet.microsoft.com/library/security/2719662
Disable SMB1 Protocol	Please see section How to Disable the SMB1 Protocol	Please see section How to Disable the SMB1 Protocol	Please see section How to Disable the SMB1 Protocol	Please see section How to Disable the SMB1 Protocol
Configure Required SMBv2 Signing	Please see section OPTIONAL – How to Configure Required SMBv2 Signing - SMBv2 signing not required	Please see section OPTIONAL – How to Configure Required SMBv2 Signing - SMBv2 signing not required	Please see section OPTIONAL – How to Configure Required SMBv2 Signing - SMBv2 signing not required	Please see section OPTIONAL – How to Configure Required SMBv2 Signing - SMBv2 signing not required
CDrive Disk Space Cleanup	N/A	N/A	Please see section OPTIONAL - CDrive Disk Space Cleanup	Please see section OPTIONAL - CDrive Disk Space Cleanup
Removal of Authenticated Users from Share on INW server	Please see section OPTIONAL – Removal of Authenticated Users from Share on INW server	N/A	N/A	N/A
Disable Remote Desktop Services	Please see section OPTIONAL – Remote Desktop Services Remote Code Execution Vulnerability	Please see section OPTIONAL – Remote Desktop Services Remote Code Execution Vulnerability	Please see section OPTIONAL – Remote Desktop Services Remote Code Execution Vulnerability	Please see section OPTIONAL – Remote Desktop Services Remote Code Execution Vulnerability

Password Policy

Password Policy: Minimum Password Length may be changed above the 14 characters limit to meet security requirements. Refer to **Password** section of the Security Guide for further details about changing passwords.

Optionally Remove Abode Reader on INW Server

We recommend that abode reader be uninstalled on the INW Server. On the server Adobe reader is only used to review INW operator manual. The manual is available in printed format and through online manual portal.



Further MLCL Systems Security Recommendations

We strongly recommend following these recommendations:

- Change default password to stronger, more secure and unique for each user account
- Disable RDP in for each system using the following steps:
 - My Computer>Properties>Remote settings>Remote
 - Check “Don’t allow connections to this computer”.
 - Click ok and reboot.
- If Insite functionality is not used on the system then turn off the VNC service using the following steps:
 - Click on Start button
 - Click on Control Panel
 - Click on Administrative Tools
 - Double click Services
 - Right Click TightVNC Server and select Properties
 - Under Startup type select Disabled from the dropdown
 - Click on Apply and Ok

We also recommend following these general recommendations and the recommendations listed in MLCL Security guide

- Enhanced physical security
- Network firewalls
- Demilitarized Zones and perimeter defenses for site network
- Intrusion detection systems - network intrusion protection system
- Virtual Private Networks
- Network traffic analysis
- Log analysis



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Contact Information

If you have any additional questions, please contact our Technical Support Department.