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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
Versions:	6.9, 6.9.5
Subject:	Security Information
Date:	05 November 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.
- 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	19 July 2017	• Initial Release, includes June Roll-up
2.0	23 October 2017	• Includes October Roll-up
3.0	11 December 2017	• November Unqualified Patches
4.0	7 February 2018	• January 2018 Unqualified Patches
5.0	16 April 2018	• March Unqualified Patches
6.0	30 April 2018	• April Unqualified Patches
7.0	31 May 2018	• May Unqualified Patches
8.0	29 June 2018	• June Unqualified Patches
9.0	24 August 2018	• Qualified November 2017, December 2017, January 2018, February 2018, March 2018, April 2018, May 2018, June 2018, July 2018, August 2018 patches • Qualified Adobe 11 • Qualified IE8 patches • Qualified Microsoft .NET patches • Qualified HP Firmware and Driver update • SQL Server 2008 SP4
10.0	6 December 2018	• September Unqualified Patches • October Unqualified Patches
11.0	5 March 2019	• Added Unqualified November 2018, December 2018, January 2019 and February 2019 Patches • Added .NET unqualified patches
12.0	26 March 2019	• Added Unqualified March 2019 Patches
13.0	16 May 2019	• Added instructions to disable Remote Desktop Services per CVE-2019-0708

14.0	5 June 2019	• Added Unqualified May 2019 Patches
15.0	30 June 2019	• Added Unqualified June 2019 Patches
16.0	5 August 2019	• Added Unqualified July 2019 Patches
17.0	19 August 2019	• Updated CVE number to disable Remote Desktop Services section
18.0	30 August 2019	• Added Unqualified August 2019 patches
19.0	05 November 2019	For Windows 7 Software only Systems: • Added Monthly Rollup patches which span from Sept 2018 through May 2019. • Added .NET patches for versions 3.5.1, 4.5.2 • Added Microsoft Office 2007 Patches • Added Qualified Service Stack Update patches For Windows XP Systems: • Added May 2019 Security Update For Windows 2008 Server: • Added Monthly Rollup patches which span from Sept 2018 through May 2019. • Added .NET patches for versions 3.5.1, 4.5.2 • Added Qualified Service Stack Update 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.
- If any Mac-Lab IT/CardioLab IT system has a DMS, CCW, or Carddas client , use the Mac-Lab IT/XT/XTi, CardioLab IT/XT/XTi or SpecialsLab instructions.

How to Log On to Acquisition and Review Systems

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

> **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-2019-0708/1181/1182 | 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 Terminal Services on Windows XP

On Windows XP, do the following to disable Terminal Services:

1. Right-click on *My Computer* and select *Properties*
2. On the *System Properties* window, select the *Remote* tab
3. Uncheck the following option if it is checked:
   Allow Remote Assistance invitations to be sent from this computer
4. Uncheck the following option if it is checked:
   Allow users to connect remotely to this computer
5. Click *OK* to close the *System Properties* window
6. Click *Start* > *Settings* > *Control Panel* > *Administrative Tools* > *Services*
7. Double-click on the entry for **Terminal Services**
8. Set the *Startup type* to *Disabled*
9. Click *OK* to close the *Terminal Services Properties* window
10. Reboot the system

NOTE: If Windows Vista is the Operating System installed, then it is highly advised that Terminal Services is disabled to mitigate any security vulnerabilities.

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 Terminal Services on Windows 2003 R2

On Windows Server 2003 R2, do the following to disable Terminal Services:

1. Right-click on *My Computer* and select *Properties*
2. On the *System Properties* window, select the *Remote* tab
3. Uncheck the following option if it is checked:
    Turn on Remote Assistance and allow invitations to be sent from this computer
4. Uncheck the following option if it is checked:
    Enable Remote Desktop on this computer
5. Click *OK* to close the *System Properties* window
6. Click *Start* > *Settings* > *Control Panel* > *Administrative Tools* > *Services*
7. Double-click on the entry for **Terminal Services**
8. Set the *Startup type* to *Disabled*
9. Click *OK* to close the *Terminal 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 System Management Homepage Patch on the INW Server – HPSBMU03051

NOTE: HPSBMU03051 must be installed before HPSBMU03380.

1. Using a non-MLCL system, visit the URL and download **cp023716**.exe
2. Place cp023716.exe on removable media
3. Log on to the server as **administrator**.
4. In Windows Explorer, navigate to the to the location on the removable media where **cp023716.exe** was placed
5. Right-click **cp023716.exe**.
6. Select *Run as Administrator*.
7. Click *Install*.
8. Click *Next*.
9. On each screen, keep the default settings and click *Next* to advance through the install wizard.

10. Click **Finish**.
11. In Windows Explorer, navigate to **C:\HP\hpsmh\bin\hpsmhd.exe**.
12. Right-click and select **Properties**.
13. Select the **Details** tab.
14. Verify the **File Version** is **7.3.3.1**.
15. Close all windows.
16. Stop the **HP System Management Homepage** service.
17. Within Windows Explorer, navigate to **C:\HP\sslshare** and permanently delete **cert.pem** and **file.pem**.
18. Restart **HP System Management Homepage** service.
19. Verify that the certificates have been recreated. Within Windows Explorer navigate to **C:\HP\sslshare** and locate and verify that the **cert.pem** and **file.pem** files are there.
20. Close Windows Explorer.
21. At the INW Server desktop, delete the **HP System Management Homepage** icon from the desktop.
22. Restart the INW server to complete the installation

How to Install HP System Management Homepage Patch on the INW Server – HPSBMU03380

NOTE: HPSBMU03051 must be installed before HPSBMU03380.

1. Using a non-MLCL system, visit the URL and download **CP028035.exe**
2. Place **CP028035.exe** on removable media
3. Log on to the server as **administrator**.
4. In Windows Explorer, navigate to the to the location on the removable media where CP028035.exe was placed
5. Right-click **cp028035exe**.
6. Select **Run as Administrator**.
7. Click **Install**.
8. Click **Next**.
9. On each screen, keep the default settings and click **Next** to advance through the install wizard.
10. Click **Finish**.
11. In Windows Explorer, navigate to **C:\HP\hpsmh\bin\hpsmhd.exe**.

12. Right-click and select *Properties*.
13. Select the *Details* tab.
14. Verify the *File Version* is *7.5.4.3*.
15. Close all windows.
16. At the INW Server desktop, delete the *HP System Management Homepage* icon from the desktop.
17. Restart the INW server to complete the installation

Turn On Windows Update Service Configuration - Windows Server 2008 R2 SP1 (KB976932) Only

The below steps must be performed on Centricity Cardiology INW Servers before installing Windows Server 2008 R2 SP1 (KB976932).
1. On an INW Domain Controller, log on to Windows as **Administrator** or a member of that group. On an INW Member Server, log on to Windows as **mlcltechuser**.
2. Select *Start > Run*.
3. Type **services.msc** and press *Enter*.
4. Right-click the *Windows Update* service and select *Properties*.
5. Select *Automatic* from the *Startup type* drop-down.
6. Click *Start*.
7. Click *Apply* and then click *OK*.
8. Close the *Services Console* window.

Turn Off Windows Update Service Configuration - Windows Server 2008 R2 SP1 (KB976932) Only

These below must be performed on Centricity Cardiology INW Servers after installing Windows Server 2008 R2 SP1 (KB976932).
1. On an INW Domain Controller, log on to Windows as **Administrator** or a member of that group. On an INW Member Server, log on to Windows as **mlcltechuser**.
2. Select *Start > Run*.
3. Type *services.msc* and press **Enter**.
4. Right-click the *Windows Update* service and select *Properties*.

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5. Select **Manual** from the **Startup type** drop-down.
6. Click **Stop**.
7. Click **Apply** and then click **OK**.
8. Close the **Services Console** window.

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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. It 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

MLCL v6.9.5

	INW Server	GE Hardware Acq/Review	Software Only System (XP)	Software Only System (Win7)
Operating System Platform	Windows Server 2008 R2 SP1	Windows XP SP3	Windows XP SP3	Windows 7 SP1
Current Unqualified Vulnerability	KB4457145 (CVE-2018-5391) KB4462915 (CVE-2018-8320) KB4467106(CVE-2018-8256, CVE-2018-8476) KB4470600 | KB4470493 (CVE-2018-8517)			KB4467106(CVE-2018-8256, CVE-2018-8476) KB4470600 | KB4470493 (CVE-2018-8517) KB4486564 (CVE-2019-0626) KB4490425(ADV190006)

	INW Server	GE Hardware Acq/Review	Software Only System (XP)	Software Only System (Win7)
	KB4486564 (CVE-2019-0626) KB4490425(ADV190006) HPESBHF03904 rev.1 HPESBHF03874 rev.1 KB4489885(CVE-2019-0683) KB4474419(ADV190009) HPSBHF03572 rev. 4 KB4503292 KB4507456(CVE-2019-1082) KB4507411(CVE-2019-1083, CVE-2019-1006) KB4512486 (CVE-2019-0736, CVE-2019-1181, CVE-2019-1182)			KB4489885(CVE-2019-0683) KB4474419(ADV190009) KB4461619 KB4462178 KB4503292 KB4507456(CVE-2019-1082) KB4507411(CVE-2019-1083, CVE-2019-1006) KB4512486 (CVE-2019-0736, CVE-2019-1181, CVE-2019-1182)
Security Patch				
MS14-031 KB2957189	http://www.microsoft.com/en-us/download/details.aspx?id=43143	N/A	N/A	http://www.microsoft.com/en-us/download/details.aspx?id=43147
MS15-127 KB3100465 (Domain Controller only)	https://www.microsoft.com/en-us/download/details.aspx?id=50127	N/A	N/A	N/A
HP System Management Homepage HPSBMU03380 Version: 7.5.4.3(1 Apr 2016)	https://h20566.www2.hpe.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

	INW Server	GE Hardware Acq/Review	Software Only System (XP)	Software Only System (Win7)
MS15-034 **KB3042553**	https://www.microsoft.com/en-us/download/details.aspx?id=46480	N/A	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=46501
MS14-068 **KB3011780**	https://www.microsoft.com/en-us/download/details.aspx?id=44966	N/A	N/A	N/A
MS14-066 **KB2992611**	https://www.microsoft.com/en-us/download/details.aspx?id=44618	MS14-066 KB2992611* - see note below table	MS14-066 KB2992611* - see note below table	https://www.microsoft.com/en-us/download/details.aspx?id=44633
HP System **Management** **Homepage** **HPSBMU03051** **Version:** **7.3.3.1(19 Jun** **2014)**	http://h20564.www2.hpe.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
MS14-016 **KB2923392** **(Domain** **Controller Only)**	http://www.microsoft.com/en-us/download/details.aspx?id=42099	N/A	N/A	N/A
MS13-081 **KB2884256**	http://www.microsoft.com/en-in/download/details.aspx?id=40379	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e82a6c5c-60a2-495d-befe-51e9c80522b6	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e82a6c5c-60a2-495d-befe-51e9c80522b6	http://www.microsoft.com/en-in/download/details.aspx?id=40407
MS13-081 **KB2868038**	http://www.microsoft.com/en-in/download/details.aspx?id=40526	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=a13ead5b-d2fe-482d-8bbd-a85fc2e19e99	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=a13ead5b-d2fe-482d-8bbd-a85fc2e19e99	http://www.microsoft.com/en-in/download/details.aspx?id=40395
MS13-081 **KB2864202**	http://www.microsoft.com/en-in/download/details.aspx?id=40404	N/A	N/A	http://www.microsoft.com/en-in/download/details.aspx?id=40601
MS13-081 **KB2862335**	http://www.microsoft.com/en-in/download/details.aspx?id=40590	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=afde3eb0-1773-4bbb-9f31-977dc19bcaca	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=afde3eb0-1773-4bbb-9f31-977dc19bcaca	http://www.microsoft.com/en-in/download/details.aspx?id=40409
MS13-081 **KB2862330**	http://www.microsoft.com/en-in/download/details.aspx?id=40372	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5	http://www.microsoft.com/en-in/download/details.aspx?id=40507

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	INW Server	GE Hardware Acq/Review	Software Only System (XP)	Software Only System (Win7)
		5040924-38b1-49fb-b93e-95293da6b2d5	5040924-38b1-49fb-b93e-95293da6b2d5	
MS13-079 **KB2853587** **(Domain Controller Only)**	http://www.microsoft.com/en-in/download/details.aspx?id=40025	N/A	N/A	N/A
MS13-065 **KB2868623**	http://www.microsoft.com/en-in/download/details.aspx?id=39885	N/A	N/A	http://www.microsoft.com/en-us/download/details.aspx?id=39809
MS13-062 **KB2849470**	http://www.microsoft.com/en-in/download/details.aspx?id=39899	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=0fd35735-82e1-4006-87b7-1a3e596d0f8d	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=0fd35735-82e1-4006-87b7-1a3e596d0f8d	http://www.microsoft.com/en-us/download/details.aspx?id=39890
MS13-049 **KB2845690**	http://www.microsoft.com/en-in/download/details.aspx?id=39221	N/A	N/A	http://www.microsoft.com/en-us/download/details.aspx?id=39217
MS13-018 **KB2790655**	http://www.microsoft.com/en-in/download/details.aspx?id=36651	N/A	N/A	http://www.microsoft.com/en-in/download/details.aspx?id=36694
MS13-001 **KB2769369**	http://www.microsoft.com/en-in/download/details.aspx?id=36336	N/A	N/A	http://www.microsoft.com/en-in/download/details.aspx?id=36274

* Microsoft XP SP3 Extended Support Patch – Only available to U.S. PSC contract or warranty customers. Contact GE Field Engineer for availability details.

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MLCL v6.9.5 Security Updates

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 6.9.5 and must be applied first.
2) It is expected that some patches listed will already be on the system.
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) 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).

	INW Server	GE Hardware Acq/Review	Software Only System (XP)	Software Only System (Win7)
Operating System Platform	Windows Server 2008 R2 SP1	Windows XP SP3	Windows XP SP3	Windows 7 SP1
Security Patch				
MS17-010 KB4012598	N/A	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9e189800-f354-4dc8-8170-7bd0ad7ca09a	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9e189800-f354-4dc8-8170-7bd0ad7ca09a	N/A
MS17-013 KB4012583	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=55460	https://www.microsoft.com/en-us/download/details.aspx?id=55460	N/A
CVE-2017-0176 KB4022747	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=55465	https://www.microsoft.com/en-us/download/details.aspx?id=55465	N/A
CVE-2017-0222 IE8 KB4018271	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=55474	https://www.microsoft.com/en-us/download/details.aspx?id=55474	N/A

	INW Server	GE Hardware Acq/Review	Software Only System (XP)	Software Only System (Win7)
CVE-2017-0267 to 0280 KB4018466	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=55437	https://www.microsoft.com/en-us/download/details.aspx?id=55437	N/A
CVE-2017-7269 KB3197835	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=55425	https://www.microsoft.com/en-us/download/details.aspx?id=55425	N/A
CVE-2017-8461 KB4024323	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=55429	https://www.microsoft.com/en-us/download/details.aspx?id=55429	N/A
CVE-2017-8487 KB4025218	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=55469	https://www.microsoft.com/en-us/download/details.aspx?id=55469	N/A
CVE-2017-8543 KB4024402	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=55439	https://www.microsoft.com/en-us/download/details.aspx?id=55439	N/A
CVE-2017-8552 KB4019204	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=55452	https://www.microsoft.com/en-us/download/details.aspx?id=55452	N/A
KB3020369	https://www.microsoft.com/en-us/download/details.aspx?id=46828	N/A	N/A	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f00e3c36-f5e3-465c-95d2-a84a22425868

	INW Server	GE Hardware Acq/Review	Software Only System (XP)	Software Only System (Win7)
KB3125574 Convenience Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6147e6c1-663b-41bc-9582-9579343857d9	N/A	N/A	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7ed4c8c3-0f06-4227-99e3-e9f143394687
Reboot following convenience rollup	**Reboot Required**	N/A	N/A	**Reboot Required**
KB4022719 June 2017 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4aa2ed70-7c26-4727-bd11-6a98b6dd622c	N/A	N/A	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b9815359-6aad-467e-8666-2351fadc3c45
Reboot	**Reboot Required**	**Reboot Required**	**Reboot Required**	**Reboot Required**
KB4041681 October 2017 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=cd0388fd-5aca-4a13-8417-c28e1d8b7dda Make the following Registry Change – Only on Domain Controller. Create this registry key if it doesn't exist: [HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\NTDS\Parameters] LdapEnforceChannelBinding=DWORD:1	N/A	N/A	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8a346e85-6ae3-46aa-a9e1-2e70e760f61c

MLCL v6.9.5 2018 Patch Update 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 6.9.5 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.

Follow these steps to make the following registry changes to remediate June and September 2017 monthly rollup vulnerabilities.
Reference: https://portal.msrc.microsoft.com/en-us/security-guidance/advisory/CVE-2017-8529

Windows 7 (Software Only Systems) & 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 Only):

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.
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 (Software Only Systems)		
KB	**Link**	**Notes**
KB2984938 MS16-054 Microsoft Office 2007 Suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b215df87-a3bb-4e32-8ee4-8c7402ec33e4	
KB3114900 Microsoft Office Compatibility Pack Service Pack 3	https://www.microsoft.com/en-us/download/details.aspx?id=51362	
KB3118301 Microsoft Office 2007 suites	https://www.microsoft.com/en-us/download/details.aspx?id=54004	
KB3191897 Microsoft Office Compatibility Pack Service Pack 3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3adf3988-7151-425d-af28-6eeead092c2a	
KB4018355 Microsoft Office Word 2007	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=117b0737-185c-48a6-a0f1-c2793a9d1841	
KB3178683 Microsoft Office Word 2007	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=48861a33-b96f-4101-b1aa-8bddcb993939	
KB3141529 Microsoft Office 2007 suites	https://www.microsoft.com/en-us/download/details.aspx?id=55071	

KB2881067 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=87d7d2fb-b4f0-4f7e-8a3a-b9ed4c4cd7a3	
KB3213640 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=41acdfc2-f8fd-428b-a5c0-b6fe1607c19d	
KB3118304 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=eeb6df50-3424-45e9-9ab7-0280809ed3df	
KB3191828 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=1d26cddd-003b-45cc-a794-df5abbfb2d55	
KB2596927 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=ce09a331-7e53-46d2-b826-61ff20c651b6	
KB4011265 Microsoft Office Compatibility Pack Service Pack 3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3f9d6485-6e86-4f9c-8d4b-dbc787698ff9	
KB4011205 Microsoft Office Compatibility Pack Service Pack 3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8923e620-06d0-444a-b476-2a40811613fdv	
KB4018308 Microsoft Office Viewers Microsoft Office Compatibility Pack	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c9f90e7b-5e69-49cc-b487-6c84f1f0be40	

KB4022150 Microsoft Office Compatibility Pack Service Pack 3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=eeae3a89-55f7-4a72-96b3-22ed0a676dc9	
KB4011656 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=749b494d-2879-4eb5-b00d-45661c0d92fc	
KB4032212 Microsoft Office Compatibility Pack Service Pack 3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=01822181-a2ad-428c-9133-83b3bd1b589f	
KB4011607 Microsoft Office Compatibility Pack Service Pack 3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6b9e3f30-4125-44cd-b84d-21ece30adcd0	
KB4018354 Microsoft Office Compatibility Pack Service Pack 3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6f83ae0a-b693-4ae2-a6fd-ab40d06efe99	
KB3213646 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8b04bc91-88c8-4229-86f0-b454e69a93f0	
KB3213641 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d0955758-bb02-4421-bd68-9c1819c98c29	
KB4011720 Microsoft Office Compatibility	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=490ec326-af4b-4b8f-921f-4a81a9c4645c	

Pack Service Pack 3		
KB4018354 Microsoft Office Compatibility Pack Service Pack 3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6f83ae0a-b693-4ae2-a6fd-ab40d06efe99	
KB2596904 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=158250e3-4ef3-47ef-acf3-908145be487a	
KB2984943 MS16-054 Microsoft Office 2007 SP3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=edcc1acb-520b-4b79-9cee-d4cb8be0a543	
KB2837610 MS15-081 Microsoft Office 2007 SP3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6fb8e843-7b66-4d04-9380-366e12d36a73	
KB2596744 MS12-046 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=862c13b8-72ca-477d-9d14-82c00831e5cd	
KB2596792 MS12-034 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f4695a25-0d22-4e3b-9ba9-9bbc62198c28	
KB2850022 MS13-106 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c1790872-1db0-452a-a5b5-29ac0e6528c1	

KB2920795 **MS15-013** **Microsoft Office** **2007 suites**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=89aa6f47-e537-4abd-a2f6-903a4ac5cba9	
KB2596825 **MS13-074**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9676c624-58cb-4a30-b7b3-1d013cf3dbbc	
KB3085549 **MS15-131**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e33ff4cb-81c9-4d28-a0cd-707d7d6fc227	
KB3000483 **MS15-011**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=dbd91e47-4238-4bbe-8c8b-87c2d02c57d2	**Install KB3004375 and KB3000483**
KB3159398 **MS16-072**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2329e2b7-4e31-42e3-86aa-2ebfaa2c6339	
	Reboot Required	
KB3155178 **MS16-056**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=66bf9ecd-a620-45be-a807-f8005ee1326d	
KB3156016 **MS16-055**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f21d3be8-dd35-4ac7-97b8-b4d06d4ed7f2	
KB2858302 **Microsoft .NET** **Framework 4**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f0f98c12-0e77-4ec7-a52d-b6f6fe0076e1	
KB2604121 **Microsoft .NET** **Framework 4**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=afdd5d5e-2cc2-4a6a-a44f-e45a275702f5	
	Reboot Required	
KB2972215 **Microsoft .NET** **Framework**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=73ed412e-0927-4416-bf83-5fa89f2b31a1	

KB2742595 Microsoft .NET Framework 4	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=97e091c7-35eb-4da0-9346-e6f33115c8ed	
KB3097994 Microsoft .NET Framework 4	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=89218326-341f-4723-9e1f-01890fcef45e	
KB3037578 Microsoft .NET Framework 4	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5a9996be-4894-4c2f-aaab-0a467ab12115	
KB3023221 Microsoft .NET Framework 4	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=87b6ea40-f80c-4611-8175-1d20d5f5c7f1	
KB2978125 Microsoft .NET Framework 4	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=ebcb8b15-112e-4ee0-9dd9-0efd1bc965cc	
KB2737019 Microsoft .NET Framework 4	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fc5608e4-a70d-4344-b358-2847f4a57434	
KB3188730 .NET Framework 3.5.1	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=31324b0e-2319-431a-bd57-9727c18fd35a	
KB2972106 Microsoft .NET Framework 4	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4825cb6b-8412-45a2-8595-ced595e9abc1	
KB3074547 Microsoft .NET Framework 4	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d6c8c747-dec3-4695-b5f1-d9edecd625fd	
KB2835393 Microsoft .NET Framework 4	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7f14a9ff-eae7-4c4d-8f90-2e140f89246e	
KB2840628	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=0dfade8f-54fe-412a-aea6-66cb712a2bf9	

Microsoft .NET Framework 4		
KB3032662 Microsoft .NET Framework 4	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2d89e422-cf53-4d3e-bc81-03e053208c16	
KB2736428 MS13-007 Microsoft .NET Framework 4	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=de4cbbf4-443f-4bb7-aebf-8da2fcc7b706	
KB2487367 MS11-066 Microsoft .NET Framework 4	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=79f342ab-66e7-42a7-8315-2677f99f20c5	
KB2834140 Microsoft .NET Framework 4	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3604fc71-9010-4acd-a2f5-b521d5c1dac1	
KB3124275 IE8	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=cb5c9d60-f931-413a-97a3-0a32434fbd55	
	Reboot Required	
MS13-002 KB2758694	https://www.microsoft.com/en-us/download/details.aspx?id=36292	
Adobe Reader 11.0 MUI	https://supportdownloads.adobe.com/thankyou.jsp?ftpID=5507&fileID=5519	
Adobe Reader 11.0.23 MUI	https://supportdownloads.adobe.com/thankyou.jsp?ftpID=6279&fileID=6314	
	Reboot Required	
KB2979596	https://www.microsoft.com/en-us/download/details.aspx?id=44278	**Run from cmd prompt with SQLServer2008SP4-KB2979596-**

SQL Server 2008 SP4		x86-ENU.exe /ACTION=Patch /INSTANCENAME=MSSQLSERVER /IGNORESERVICERESTARTSTATE
Reboot Required		
KB3045311 SQL Server 2008 SP4	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 example. Replace AMD64_X86-all-sqlserver2008-kb3045311-x86_30561aef89c6d174fee7b77bed6b3b8539542558.exe with the correct file name:** **AMD64_X86-all-sqlserver2008-kb3045311-x86_30561aef89c6d174fee7b77bed6b3b8539542558.exe /ACTION=Patch /INSTANCENAME=MSSQLSERVER /IGNORESERVICERESTARTSTATE**
KB2900986 ActiveX Killbits	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=82b62134-bafb-4fd3-815e-73534b9d1aa5	
KB3156019 MS16-055	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b5b7f2e4-bf3f-4974-ab23-f3a2ab886d31	
Reboot Required		
KB3161949 MS16-077	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=25c0fd19-d4e4-4af5-aad9-f308dde496d5	

	Reboot Required	
KB4025337 **July 2017 Security** **Only**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=794feee1-ea78-4c11-a683-a91335abb0e3	
	Reboot Required	
KB4034679 **August 2017** **Security Only**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=04eaa57c-5a16-484a-aefa-b9df268e1c07	
	Reboot Required	
KB4048957 **November 2017** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=224b07ab-de98-45f0-8b9c-83551cac66f6	
	Reboot Required	
KB4054518 **December 2017** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5b48d1cb-83f7-43e1-9308-18872ffe4dce	
	Reboot Required	
KB4056894 **January 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=63bb3909-e5fe-45a2-8d59-44f9df52317f	
	Reboot Required	
KB4074598 **February 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=651e95ab-6e7c-4ea6-9cd2-3cbabd9b76f0	

	Reboot Required	
KB4088875 **March 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3ed75c38-aa36-437e-bf4f-574789591e03	
	Reboot Required	
KB4093118 **April 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=647f49ef-0f0a-49dc-9766-dd255cded1af	
	Reboot Required	
KB4103718 **May 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3f4d0c73-a177-48cf-a3e7-97d1a94cba87	
	Reboot Required	
KB4284826 **June 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=326a9830-3983-402d-b48b-7a35f99c516a	
	Reboot Required	
KB4338818 **July 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=ea409dca-1368-48cf-94c1-d510b1690d74	
	Reboot Required	
KB4343900 **August 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d785f6dd-d90b-4cb9-838a-8faf5971165f	NOTE: Make the following Registry Change – Create these registry keys if it doesn't exist:

		[HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\Session Manager\Memory Management\] Value Name= [FeatureSettingsOverride] Type=[DWORD] Data=[0] Value Name= [FeatureSettingsOverrideMask] Type=[DWORD] Data=[3]
KB2269637	Create the following Registry Key Key=[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\] Value Name=[CWDIllegalInDllSearch] Type=[REG_DWORD] Data=[1]	
KB2719662	Create the following Registry Key Key=[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\Windows\Sidebar\] Value Name=[TurnOffSidebar] Type=[REG_DWORD] Data=[1]	
KB3125869	NOTE: Make the following Registry Change – Create these registry keys if it doesn't exist: [HKLM\SOFTWARE\Microsoft\Internet Explorer\MAIN\FeatureControl\FEATURE_ALLOW_USER32_EXCEPTION_HANDLER_HARDENING\] Value Name= [iexplore.exe] Type=[DWORD] Data=[1]	
	Reboot Required	

Windows 2008R2 (INW Server)

KB	Link	Notes
HPSBMU03593 Rev 2	https://support.hpe.com/hpsc/swd/public/detail?swItemId=MTX_b36fb879335a41d78ee5e99f7f	**Installation:** 1) Download the Smart Component (**cp034022.exe**) file to a local directory on the server where you want to install the software. 2) Change to the directory where you downloaded 3) Run the **cp034022.exe** file by double-clicking it. A dialog box will display. 4) Click the 'Install' button to install the SMH
	Reboot Required	
HPESBHF03805 Rev 23	**ML350p G8 (cp034981.exe)** https://www.hpe.com/global/swpublishing/MTX-13ba0628afe449eab067a56323 **DL370 G6 (cp035397.exe)** https://www.hpe.com/global/swpublishing/MTX-df78827f61164b6f952314da7c	**This only applies to ML350p G8 and DL370 G6** **NOTE: Intel/HP has not provided Firmware update for ML370 G5, G4 Servers** Installation: To update firmware from Windows operating system on target server: 1. Download **cp034981.exe/ cp035397.exe** file to a local directory on the server where you want to install the software 2. Run **cp034981.exe/ cp035397.exe** file from the same directory by double-clicking it.

		3. When the Component dialog window displays, click the "**Install**" button to initiate the firmware upgrade.
Reboot Required		
KB2834140 Microsoft .NET Framework 4	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5b73fcca-dde8-4542-a5fa-0b23ce19aaee	
KB3124275 IE8	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8bf1b674-47b0-435a-b263-00f434227cda	
MS12-056 KB2706045	https://www.microsoft.com/en-us/download/details.aspx?id=30554	
MS13-002 KB2758694	https://www.microsoft.com/en-us/download/details.aspx?id=36273	
Adobe Reader 11.0 MUI	https://supportdownloads.adobe.com/thankyou.jsp?ftpID=5507&fileID=5519	
Adobe Reader 11.0.23 MUI	https://supportdownloads.adobe.com/thankyou.jsp?ftpID=6279&fileID=6314	
Reboot Required		
KB3188730 .NET Framework 3.5.1	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=db79590e-38a6-4180-b6d2-900eeb061ac4	
KB2979596 SQL Server 2008 SP4	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**
Reboot Required		
KB3045311 SQL Server 2008 SP4	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 example.**

		Replace AMD64_X86-all-sqlserver2008-kb3045311-x86_30561aef89c6d174fee7b77bed6b3b8539542558.exe with the correct file name: AMD64_X86-all-sqlserver2008-kb3045311-x86_30561aef89c6d174fee7b77bed6b3b8539542558.exe /ACTION=Patch /INSTANCENAME=MSSQLSERVER /IGNORESERVICERESTARTSTATE
Reboot Required		
KB3104002 MS15-124 IE8	NOTE: Make the following Registry Change – Create these registry keys if it doesn't exist: [**HKLM\SOFTWARE\Microsoft\Internet Explorer\MAIN\FeatureControl\FEATURE_ALLOW_USER32_EXCEPTION_HANDLER_HARDENING**] Value Name= [**iexplore.exe**] Type=[**DWORD**] Data=[**1**] [**HKLM\SOFTWARE\Wow6432Node\Microsoft\Internet Explorer\MAIN\FeatureControl\FEATURE_ALLOW_USER32_EXCEPTION_HANDLER_HARDENING**] Value Name= [**iexplore.exe**] Type=[**DWORD**] Data=[**1**]	
KB2900986 ActiveX Killbits	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6fd1a18b-3dba-4dbc-820e-750a4e32f24c	
KB3156019 MS16-055	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=05cb4345-49ea-4eca-8ba3-f870466c46c7	
KB3159398 MS16-072	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=56a7a134-5ad6-43c2-aab1-e10d2fef8f7c	

	Reboot Required	
KB3156016 **MS16-055**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=de32fc3d-60a4-4fc9-9588-0c404765940a	
	Reboot Required	
KB3161949 **MS16-077**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5bc0e07b-33ca-4ea2-8253-4f0dcd26783a	
	Reboot Required	
KB4025337 **July 2017 Security** **Only**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=85fadee5-ed6f-4a22-964a-9b2991c4cff1	
	Reboot Required	
KB4034679 **August 2017** **Security Only**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=07571deb-76fc-463b-9282-db65963e6fe4	
	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	
KB4056894 **January 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fc887fd2-cd35-434b-b6e3-1fef99b2e7ce	
	Reboot Required	
KB4074598	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f3ab18cb-219e-4287-b14c-3a05c8d9479a	

February 2018 Monthly Rollup		
	Reboot Required	
KB4088875 March 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=03df6731-e0a6-4917-9da3-161a0b7f6b09	
	Reboot Required	
KB4093118 April 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d2c7363c-323f-4e92-892a-90b83027e4aa	
	Reboot Required	
KB4103718 May 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4fe75106-a2ba-4186-aecd-10424a19225e	
	Reboot Required	
KB4284826 June 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=999fa80e-c59d-4ff6-8268-c6a8c365f428	
	Reboot Required	
KB4338818 July 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=1c930eab-7b7e-4616-b5b5-d6e4a723bc71	
	Reboot Required	
KB4343900 August 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=71600c77-2a56-4ba2-991b-ad477cfc9eb9	NOTE: Make the following Registry Changes – Create these registry keys if it doesn't exist: Key=[**HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\Session Manager\Memory Management**] Value Name= [**FeatureSettingsOverride**] Type= [**DWORD**]

		Data= [0] Value Name =[**FeatureSettingsOverrideMask**] Type= [**DWORD**] Data= [**3**]
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>	

MLCL V6.9.5 2019 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 6.9.5 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 (Software Only Systems)		
KB	**Link**	**Notes**
	Make the following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00023c00	

KB3177467 Service Stack	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f59a369d-2cef-46f7-a3e1-f33d302c6abf
	Reboot Required
KB4457144 September 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f5c88de4-720e-4ed1-b95f-6ce4d4d06087
	Reboot Required
KB4462923 October 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d2f075cf-7563-40e7-9aa3-8d2562e60cf9
	Reboot Required
KB4467107 November 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=81c3ab78-c5a5-403b-b347-0d9421539574
	Reboot Required
KB4471318 December 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=345b59c2-a130-42aa-9b98-a66dd085451c
	Reboot Required
KB4480970 January 2019 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4972abbb-3924-406f-8612-4b6f3ad53442
	Reboot Required
KB4486563 February 2019 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b29b6d12-dbd3-4d44-b0cf-f6e5e298cab2

	Reboot Required	
KB4489878 March 2019 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=039eb986-8841-4931-88e9-7f429ed74fb4	
	Reboot Required	
KB4490628 Servicing Stack Update	https://www.catalog.update.microsoft.com/ScopedViewInline.aspx?updateid=71c7172c-f6ea-493d-ab74-65d2548e834b	
KB4493472 April 2019 Monthly Rollup	https://www.catalog.update.microsoft.com/ScopedViewInline.aspx?updateid=c263402a-d44d-4473-bff6-40e5cc468c82	
	Reboot Required	
KB4499164 May 2019 Monthly Rollup	https://www.catalog.update.microsoft.com/ScopedViewInline.aspx?updateid=94e0a99a-327b-4a75-a40a-b38f0a4e18cf	
	Reboot Required	
KB4470641 .NET Framework 3.5.1 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c3ef1b3d-4a92-45b1-b9b6-203d388abe1a	
	Reboot Required	
KB2901907	https://www.microsoft.com/en-us/download/details.aspx?id=42642	Right click and Run as Administrator

.NET Framework 4.5.2 Installer		
KB4470637 .NET Framework 4.5.2 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7b427c69-99db-4e3d-838f-3d9f5df18a6c	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=b8c1b025-fd0a-4c5c-9aa8-3549f8eef894	
Reboot Required		
MS13-029 KB2813347	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e31f669c-cc33-40a3-954c-47bd3c6fa68e	
Reboot Required		
MS15-037 KB3046269	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=76a2496e-5916-47d7-926b-c122d750d586	
MS15-118 KB3097996	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fb22dc3f-8af8-46a9-ad09-6663ba1a6d58	
MS14-057 KB2972107	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=96a281c5-06af-4741-9f4d-e9536142a4ff	

MS14-082 KB2596927	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=ce09a331-7e53-46d2-b826-61ff20c651b6	
MS16-019 KB3122656	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e10dd41d-f457-47c9-a46c-bdc3f8236834	
Reboot Required		
MS15-048 KB3023224	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6649b424-ba0f-42dc-b790-75bba4e5971b	
MS15-048 KB3035490	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=31ee5d41-d7d6-4ba5-8773-a08b9e464a43	
Reboot Required		
MS15-060 KB3059317	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9202ee09-24c9-4ae7-83bd-3b5d4b0e5c22	
Reboot Required		
KB4483455 Microsoft .NET Framework 4.5.2 February 2019	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c30b52ab-a752-489e-ae30-ad8aab786e6c	
KB4011656 Microsoft Office 2007 SP3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=749b494d-2879-4eb5-b00d-45661c0d92fc	
KB4011715 Microsoft Office	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=ee266d3e-aef7-4ace-be8e-29b1015b18e2	

KB4011604 Microsoft Office	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=881cd0b1-bdf0-4772-a25b-361ac6166dfa	
OPTIONAL – Disable Remote Desktop Services	Refer to section – OPTIONAL - Remote Desktop Services Remote Code Execution Vulnerability	Only disable services if RDS is not used.
	Make the Following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00010000	
	Reboot Required	

Windows XP SP3 (GE Acq/Review/Software Only)

KB	Link	Notes
KB4500331 May 2019 Security Update	https://www.catalog.update.microsoft.com/ScopedViewInline.aspx?updateid=733f4cf3-da72-4e1d-b4e4-ffe0b15ae3e6	
Reboot Required		

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	
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
KB4457144 September 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2986185e-cd31-4f1d-99a5-bea6bd1ef53c	
	Reboot Required	
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	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9ec6ce3a-e6b5-4741-a44b-01d76ce427d1	

GE Healthcare

February 2019 Monthly Rollup		
Reboot Required		
KB4489878 March 2019 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4f0792e3-3d80-41c3-bc5b-0440b0df9f20	
Reboot Required		
KB4490628 Servicing Stack Update	https://www.catalog.update.microsoft.com/ScopedViewInline.aspx?updateid=1d4f0343-a41a-4782-8aed-18a620431171	
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		
KB2901907 .NET Framework 4.5.2 Installer	https://www.microsoft.com/en-us/download/details.aspx?id=42642	Right click and Run as Administrator

	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	
MS14-057 KB2972107	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=151e15f7-fa7a-40c4-a58a-721cb88e8071	
MS14-057 KB2979578	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d44bd7d1-ec33-4a65-942c-093aec39b02b	
	Reboot Required	
MS13-029 KB2813347	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=dd7619dd-d6a6-4765-8406-612fd79583ba	
MS13-083 KB2864058	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=07b35f8b-3dc2-428c-8ea8-e407d69a2875	
	Reboot Required	
MS15-011 KB3000483	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=cd0139f5-252e-44e5-8b7c-2ce97a242af5	
	Reboot Required	
MS15-037 KB3046269	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8f30d731-2bc6-429e-817c-5827affa645d	

MS15-048 KB3023224	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=84baf93f-3645-4ef2-887a-d1e5e883adc7	
MS15-048 KB3035490	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=922de694-c7e6-42ac-8738-95f5a8e2390e	
Reboot Required		
MS15-060 KB3059317	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4dd3058e-6f32-4be6-ac74-abfa56da5d6b	
Reboot Required		
MS15-101 KB3074550	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2f7719fa-8a6d-4b16-9c69-66447f308ee7	
MS15-118 KB3097996	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=103a0bdd-e71c-4f33-8cf1-7b68198ad536	
Reboot Required		
KB4483455 Microsoft .NET Framework 4.5.2 February 2019	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=da6482c7-24a1-458f-b24e-08eda9398c79	
ADV180002 KB4057113	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=aabc5156-cae2-44bf-aa69-a904626118fa	**Install this patch**
Reboot Required		
KB4041083 .NET Framework	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=63d66f1b-d720-4eaf-b3aa-03f17de1f2dc	**Install the KB4040980 and KB4040977**
KB4049016 .NET Framework	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4ed9cae0-b1f4-42ab-aec2-e967f3e1d42a	**Install KB4040977**
KB4457918	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=47929065-3b21-4d22-bd3a-103cf3c7f38e	**Install KB4457044 and KB4457038**

.NET Framework		
KB4457914 .NET Framework	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c769c803-f9cc-45c6-9a37-b5abb2bd308d	**Install KB4457055 and KB4457030**
KB4467240 .NET Framework	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=43953fa1-253b-4b29-a6f2-d0afa381f091	**Install KB4459934 and KB4459945**
OPTIONAL – Disable Remote Desktop Services	Refer to section – OPTIONAL - Remote Desktop Services Remote Code Execution Vulnerability	Only disable services if RDS is not used.
	Make the Following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00010000	
Reboot Required		

MLCL v6.9.5 Firmware

HPSBPI02938 Pre-9/23/2013 Firmware •**HP CP2025N printer**	http://h20566.www2.hp.com/portal/site/hpsc/template.PAGE/public/kb/docDisplay/?spf_p.tpst=kbDocDisplay&spf_p.prp_kbDocDisplay=wsrp-navigationalState%3DdocId%253Demr_na-c04041432-2%257CdocLocale%253D%257CcalledBy%253D&javax.portlet.begCacheTok=com.vignette.cachetoken&javax.portlet.endCacheTok=com.vignette.cachetoken

GE Healthcare

HPSBPI02938 Pre-9/23/2013 Firmware •**HP LaserJet Pro 400 Printer M401**	http://h20566.www2.hp.com/portal/site/hpsc/template.PAGE/public/kb/docDisplay/?spf_p.tpst=kbDocDisplay&spf_p.prp_kbDocDisplay=wsrp-navigationalState%3DdocId%253Demr_na-c04041432-2%257CdocLocale%253D%257CcalledBy%253D&javax.portlet.begCacheTok=com.vignette.cachetoken&javax.portlet.endCacheTok=com.vignette.cachetoken
HPSBPI02938 Pre-9/23/2013 Firmware •**HP LaserJet Pro 400 color Printer M451**	http://h20566.www2.hp.com/portal/site/hpsc/template.PAGE/public/kb/docDisplay/?spf_p.tpst=kbDocDisplay&spf_p.prp_kbDocDisplay=wsrp-navigationalState%3DdocId%253Demr_na-c04041432-2%257CdocLocale%253D%257CcalledBy%253D&javax.portlet.begCacheTok=com.vignette.cachetoken&javax.portlet.endCacheTok=com.vignette.cachetoken
HPSBPI02938 Pre-9/23/2013 Firmware •**HP LaserJet P2035N**	N/A
HPSBPI02938 Pre-9/23/2013 Firmware •**HP LaserJet 2300**	N/A
RICOH SP4100N	N/A
RICOH AP410N	N/A
RICOH CL3500N	N/A
RICOH CL3000	N/A

	INW Server	GE Hardware Acq/Review	Software Only System (XP)	Software Only System (Win7)
Operating System Platform	Windows Server 2008 R2 SP1	Windows XP SP3	Windows XP SP3	Windows 7 SP1
Current Unqualified Vulnerability	KB4457145 (CVE-2018-5391) KB4462915 (CVE-2018-8320) KB4467106(CVE-2018-8256, CVE-2018-8476) KB4470600	KB4470493 (CVE-2018-8517) KB4486564 (CVE-2019-0626) KB4490425(ADV190006) HPESBHF03904 rev.1 HPESBHF03874 rev.1 KB4489885(CVE-2019-0683) KB4474419(ADV190009) HPSBHF03572 rev. 4 KB4503292 KB4507456(CVE-2019-1082) KB4507411(CVE-2019-1083, CVE-2019-1006) KB4512486 (CVE-2019-0736, CVE-2019-1181, CVE-2019-1182)			KB4467106(CVE-2018-8256, CVE-2018-8476) KB4470600	KB4470493 (CVE-2018-8517) KB4486564 (CVE-2019-0626) KB4490425(ADV190006) KB4489885(CVE-2019-0683) KB4474419(ADV190009) KB4499164 (CVE-2019-0708) KB4461619 KB4462178 KB4503292 KB4507456(CVE-2019-1082) KB4507411(CVE-2019-1083, CVE-2019-1006) KB4512486 (CVE-2019-0736, CVE-2019-1181, CVE-2019-1182)
Security Patch				
MS15-127 KB3100465 (Domain Controller only)	https://www.microsoft.com/en-us/download/details.aspx?id=50127	N/A	N/A	N/A
HP System Management	https://h20566.www2.hpe.com/hpsc/swd/public/detail?idx=&action=driverDocu	N/A	N/A	N/A

	INW Server	GE Hardware Acq/Review	Software Only System (XP)	Software Only System (Win7)
Homepage HPSBMU03380 Version: 7.5.4.3(1 Apr 2016)	ment&itemLocale=&swItemId=MTX_544 617581c264c8eaafe6b273a&mode Please see section - How to Install HP System Management Homepage Patch on the INW Server – HPSBMU03380 **NOTE** HPSBMU03051 must be installed before HPSBMU03380.			
Windows Server 2008 R2 SP1 KB976932	**Pre-Installation Requirement - Turn On Windows Update Service Configuration instruction section.** http://www.microsoft.com/en-us/download/details.aspx?id=5842 **Post-Installation Requirement - Turn Off Windows Update Service Configuration instruction section.**	N/A	N/A	N/A
2007 Microsoft Office Suite SP3 KB2526086	N/A	http://www.microsoft.com/en-us/download/details.aspx?id=27838	http://www.microsoft.com/en-us/download/details.aspx?id=27838	N/A
Service Pack 3 for Office Language Pack 2007 KB2526086	N/A	http://www.microsoft.com/en-us/download/details.aspx?id=27829	http://www.microsoft.com/en-us/download/details.aspx?id=27829	N/A
MS15-034 KB3042553	https://www.microsoft.com/en-us/download/details.aspx?id=46480	N/A	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=46501
MS14-068 KB3011780	https://www.microsoft.com/en-us/download/details.aspx?id=44966	N/A	N/A	N/A

	INW Server	GE Hardware Acq/Review	Software Only System (XP)	Software Only System (Win7)
MS14-066 KB2992611	https://www.microsoft.com/en-us/download/details.aspx?id=44618	MS14-066 KB2992611* - see note below table	MS14-066 KB2992611* - see note below table	https://www.microsoft.com/en-us/download/details.aspx?id=44633
MS14-031 KB2957189	https://www.microsoft.com/en-us/download/details.aspx?id=43143	N/A	N/A	http://www.microsoft.com/en-us/download/details.aspx?id=43147
HP System Management Homepage HPSBMU03051 Version: 7.3.3.1(19 Jun 2014)	http://h20564.www2.hpe.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
MS14-016 KB2923392 (Domain Controller only)	http://www.microsoft.com/en-us/download/details.aspx?id=42099	N/A	N/A	N/A
MS13-081 KB2884256	http://www.microsoft.com/en-us/download/details.aspx?id=40379	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e82a6c5c-60a2-495d-befe-51e9c80522b6	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e82a6c5c-60a2-495d-befe-51e9c80522b6	http://www.microsoft.com/en-us/download/details.aspx?id=40407
MS13-081 KB2868038	http://www.microsoft.com/en-us/download/details.aspx?id=40526	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=a13ead5b-d2fe-482d-8bbd-a85fc2e19e99	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=a13ead5b-d2fe-482d-8bbd-a85fc2e19e99	http://www.microsoft.com/en-us/download/details.aspx?id=40395
MS13-081 KB2864202	http://www.microsoft.com/en-us/download/details.aspx?id=40404	N/A	N/A	http://www.microsoft.com/en-us/download/details.aspx?id=40601
MS13-081 KB2862335	http://www.microsoft.com/en-us/download/details.aspx?id=40590	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=afde3eb0-1773-4bbb-9f31-977dc19bcaca	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=afde3eb0-1773-4bbb-9f31-977dc19bcaca	http://www.microsoft.com/en-us/download/details.aspx?id=40409
MS13-081 KB2862330	http://www.microsoft.com/en-us/download/details.aspx?id=40372	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=55040924-38b1-49fb-b93e-	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=55040924-38b1-49fb-b93e-	http://www.microsoft.com/en-us/download/details.aspx?id=40507

	INW Server	GE Hardware Acq/Review	Software Only System (XP)	Software Only System (Win7)
		95293da6b2d5	95293da6b2d5	
MS13-079 KB2853587 (Domain Controller only)	http://www.microsoft.com/en-us/download/details.aspx?id=40025	N/A	N/A	N/A
MS13-065 KB2868623	http://www.microsoft.com/en-us/download/details.aspx?id=39885	N/A	N/A	http://www.microsoft.com/en-us/download/details.aspx?id=39809
MS13-062 KB2849470	http://www.microsoft.com/en-us/download/details.aspx?id=39899	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=0fd35735-82e1-4006-87b7-1a3e596d0f8d	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=0fd35735-82e1-4006-87b7-1a3e596d0f8d	http://www.microsoft.com/en-us/download/details.aspx?id=39890
MS13-049 KB2845690	http://www.microsoft.com/en-us/download/details.aspx?id=39221	N/A	N/A	http://www.microsoft.com/en-us/download/details.aspx?id=39217
MS13-018 KB2790655	http://www.microsoft.com/en-us/download/details.aspx?id=36651	N/A	N/A	http://www.microsoft.com/en-us/download/details.aspx?id=36694
MS13-001 KB2769369	http://www.microsoft.com/en-us/download/details.aspx?id=36336	N/A	N/A	http://www.microsoft.com/en-us/download/details.aspx?id=36274
MS12-054 KB2705219	http://www.microsoft.com/en-us/download/details.aspx?id=30492	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=aeb95635-30b8-4316-ac16-f4be037320a4	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=aeb95635-30b8-4316-ac16-f4be037320a4	http://www.microsoft.com/en-us/download/details.aspx?id=30547
MS12-054 KB2712808	http://www.microsoft.com/en-us/download/details.aspx?id=30555	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=a506f3f3-d548-4093-8870-e2cb364d02f6	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=a506f3f3-d548-4093-8870-e2cb364d02f6	http://www.microsoft.com/en-us/download/details.aspx?id=30535
MS12-053 KB2723135	N/A	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b3a7222c-310e-44b5-9242-c2b378e76f26	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b3a7222c-310e-44b5-9242-c2b378e76f26	N/A
MS12-036 KB2685939	http://www.microsoft.com/en-us/download/details.aspx?id=30021	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=78d6bd61-50c5-43d3-ace6-1cd82c8e4a6b	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=78d6bd61-50c5-43d3-ace6-1cd82c8e4a6b	http://www.microsoft.com/en-us/download/details.aspx?id=30087

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	INW Server	GE Hardware Acq/Review	Software Only System (XP)	Software Only System (Win7)
MS12-020 KB2621440	http://www.microsoft.com/en-us/download/details.aspx?displaylang=en&id=29116	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6616ac60-d0df-4e7e-afc8-99e7f201a638	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6616ac60-d0df-4e7e-afc8-99e7f201a638	http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=29132
MS12-020 KB2667402	http://www.microsoft.com/en-us/download/details.aspx?displaylang=en&id=29169	N/A	N/A	http://www.microsoft.com/en-us/download/details.aspx?displaylang=en&id=29145
MS12-017 KB2647170 (Domain Controller Only)	http://www.microsoft.com/en-us/download/details.aspx?displaylang=en&id=29164	N/A	N/A	N/A
MS12-005 KB2584146	http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=28620	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=56b2ce05-c7b8-4c02-8093-833ffb1166ea	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=56b2ce05-c7b8-4c02-8093-833ffb1166ea	http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=28597
MS12-004 KB2598479	N/A	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=13302bb8-e02d-4453-87dc-c2350c4a8a56	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=13302bb8-e02d-4453-87dc-c2350c4a8a56	N/A
MS12-004 KB2631813	http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=28617	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5ed104d6-bcbd-42df-bea3-9d79c1f67516	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5ed104d6-bcbd-42df-bea3-9d79c1f67516	http://www.microsoft.com/en-us/download/details.aspx?displaylang=en&id=28595
MS11-083 KB2588516	http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=27894	N/A	N/A	http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=27902
MS11-065 KB2570222	N/A	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=bc650c75-d11a-4b8e-9cb8-b505335a5d95	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=bc650c75-d11a-4b8e-9cb8-b505335a5d95	N/A
MS11-064 KB2563894	http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=27074	N/A	N/A	http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=27052
MS11-063 KB2567680	http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=27039	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=a	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=a	http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=27025

	INW Server	GE Hardware Acq/Review	Software Only System (XP)	Software Only System (Win7)
		65a95ea-8da5-4961-be35-ff11252f5430	65a95ea-8da5-4961-be35-ff11252f5430	
MS11-062 **KB2566454**	N/A	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5feaa407-3d5b-4bda-abc9-33cd58b5ac15	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5feaa407-3d5b-4bda-abc9-33cd58b5ac15	N/A
MS11-089 **KB2596785**	N/A	http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=28512	http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=28512	http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=28512
MS11-058 **KB2562485** **(Domain Controller only)**	http://www.microsoft.com/en-us/download/details.aspx?id=27027	N/A	N/A	N/A

* Microsoft XP SP3 Extended Support Patch – Only available to U.S. PSC contract or warranty customers. Contact GE Field Engineer for availability details.

MLCL v6.9 Security Updates

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 and must be applied first.
2) It is expected that some patches listed will already be on the system.
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) 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).

	INW Server	GE Hardware Acq/Review	Software Only System (XP)	Software Only System (Win7)
Operating System Platform	Windows Server 2008 R2 SP1	Windows XP SP3	Windows XP SP3	Windows 7 SP1
Security Patch				
MS17-010 KB4012598	N/A	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9e189800-f354-4dc8-8170-7bd0ad7ca09a	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9e189800-f354-4dc8-8170-7bd0ad7ca09a	N/A
MS17-013 KB4012583	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=55460	https://www.microsoft.com/en-us/download/details.aspx?id=55460	N/A
CVE-2017-0176 KB4022747	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=55465	https://www.microsoft.com/en-us/download/details.aspx?id=55465	N/A
CVE-2017-0222 IE8 KB4018271	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=55474	https://www.microsoft.com/en-us/download/details.aspx?id=55474	N/A

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	INW Server	GE Hardware Acq/Review	Software Only System (XP)	Software Only System (Win7)
CVE-2017-0267 to 0280 KB4018466	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=55437	https://www.microsoft.com/en-us/download/details.aspx?id=55437	N/A
CVE-2017-7269 KB3197835	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=55425	https://www.microsoft.com/en-us/download/details.aspx?id=55425	N/A
CVE-2017-8461 KB4024323	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=55429	https://www.microsoft.com/en-us/download/details.aspx?id=55429	N/A
CVE-2017-8487 KB4025218	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=55469	https://www.microsoft.com/en-us/download/details.aspx?id=55469	N/A
CVE-2017-8543 KB4024402	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=55439	https://www.microsoft.com/en-us/download/details.aspx?id=55439	N/A
CVE-2017-8552 KB4019204	N/A	https://www.microsoft.com/en-us/download/details.aspx?id=55452	https://www.microsoft.com/en-us/download/details.aspx?id=55452	N/A
KB3020369	https://www.microsoft.com/en-us/download/details.aspx?id=46828	N/A	N/A	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f00e3c36-f5e3-465c-95d2-a84a22425868

	INW Server	GE Hardware Acq/Review	Software Only System (XP)	Software Only System (Win7)
KB3125574 Convenience Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6147e6c1-663b-41bc-9582-9579343857d9	N/A	N/A	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7ed4c8c3-0f06-4227-99e3-e9f143394687
Reboot following convenience rollup	**Reboot Required**	N/A	N/A	**Reboot Required**
KB4022719 June 2017 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4aa2ed70-7c26-4727-bd11-6a98b6dd622c	N/A	N/A	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b9815359-6aad-467e-8666-2351fadc3c45
Reboot	**Reboot Required**	**Reboot Required**	**Reboot Required**	**Reboot Required**
KB4041681 October 2017 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=cd0388fd-5aca-4a13-8417-c28e1d8b7dda Make the following Registry Change – Only on Domain Controller. Create this registry key if it doesn't exist: [HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\NTDS\Parameters] LdapEnforceChannelBinding=DWORD:1	N/A	N/A	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8a346e85-6ae3-46aa-a9e1-2e70e760f61c

MLCL v6.9 2018 Patch Update 1

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

5) The above patches are required patches for 6.9 and must be applied first.
6) Pay attention to the Notes section for special handling instructions
7) Patches must be applied in order except where indicated.
8) 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.

Follow these steps to make the following registry changes to remediate June and September 2017 monthly rollup vulnerabilities.
Reference: https://portal.msrc.microsoft.com/en-us/security-guidance/advisory/CVE-2017-8529

Windows 7 (Software Only Systems) & Windows 2008R2 (INW Server):

9. Click **Start**, click **Run**, type **regedt32** or type **regedit**, and then click **OK**.
10. In Registry Editor, locate the following registry folder: **HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Internet Explorer\Main\FeatureControl**
11. Right-click **FeatureControl**, point to **New**, and then click **Key**.
12. Type **FEATURE_ENABLE_PRINT_INFO_DISCLOSURE_FIX**, and then press Enter to name the new subkey.
13. Right-click **FEATURE_ENABLE_PRINT_INFO_DISCLOSURE_FIX**, point to **New**, and then click **DWORD Value**.
14. Type "iexplore.exe" for the new DWORD value.
15. Double-click the new DWORD value named iexplore.exe and change the **Value** data field to **1**.
16. Click **OK** to close.

Windows 2008R2 (INW Server Only):

9. Click **Start**, click **Run**, type **regedt32** or type **regedit**, and then click **OK**.
10. In Registry Editor, locate the following registry folder: **HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\Microsoft\Internet Explorer\Main\FeatureControl**
11. Right-click **FeatureControl**, point to **New**, and then click **Key**.
12. Type **FEATURE_ENABLE_PRINT_INFO_DISCLOSURE_FIX**, and then press Enter to name the new subkey.
13. Right-click **FEATURE_ENABLE_PRINT_INFO_DISCLOSURE_FIX**, point to **New**, and then click **DWORD Value**.
14. Type "iexplore.exe" for the new DWORD value.
15. Double-click the new DWORD value named iexplore.exe and change the **Value** data field to **1**.

16. Click **OK** to close.

Windows 7 (Software Only Systems)		
KB	**Link**	**Notes**
KB2984938 MS16-054 Microsoft Office 2007 Suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b215df87-a3bb-4e32-8ee4-8c7402ec33e4	
KB3114900 Microsoft Office Compatibility Pack Service Pack 3	https://www.microsoft.com/en-us/download/details.aspx?id=51362	
KB3118301 Microsoft Office 2007 suites	https://www.microsoft.com/en-us/download/details.aspx?id=54004	
KB3191897 Microsoft Office Compatibility Pack Service Pack 3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3adf3988-7151-425d-af28-6eeead092c2a	
KB4018355 Microsoft Office Word 2007	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=117b0737-185c-48a6-a0f1-c2793a9d1841	
KB3178683 Microsoft Office Word 2007	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=48861a33-b96f-4101-b1aa-8bddcb993939	
KB3141529 Microsoft Office 2007 suites	https://www.microsoft.com/en-us/download/details.aspx?id=55071	

KB2881067 **Microsoft Office** **2007 suites**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=87d7d2fb-b4f0-4f7e-8a3a-b9ed4c4cd7a3	
KB3213640 **Microsoft Office** **2007 suites**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=41acdfc2-f8fd-428b-a5c0-b6fe1607c19d	
KB3118304 **Microsoft Office** **2007 suites**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=eeb6df50-3424-45e9-9ab7-0280809ed3df	
KB3191828 **Microsoft Office** **2007 suites**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=1d26cddd-003b-45cc-a794-df5abbfb2d55	
KB2596927 **Microsoft Office** **2007 suites**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=ce09a331-7e53-46d2-b826-61ff20c651b6	
KB4011265 **Microsoft Office** **Compatibility** **Pack Service Pack** **3**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3f9d6485-6e86-4f9c-8d4b-dbc787698ff9	
KB4011205 **Microsoft Office** **Compatibility** **Pack Service Pack** **3**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8923e620-06d0-444a-b476-2a40811613fdv	
KB4018308 **Microsoft Office** **Viewers** **Microsoft Office** **Compatibility** **Pack**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c9f90e7b-5e69-49cc-b487-6c84f1f0be40	

KB4022150 Microsoft Office Compatibility Pack Service Pack 3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=eeae3a89-55f7-4a72-96b3-22ed0a676dc9	
KB4011656 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=749b494d-2879-4eb5-b00d-45661c0d92fc	
KB4032212 Microsoft Office Compatibility Pack Service Pack 3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=01822181-a2ad-428c-9133-83b3bd1b589f	
KB4011607 Microsoft Office Compatibility Pack Service Pack 3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6b9e3f30-4125-44cd-b84d-21ece30adcd0	
KB4018354 Microsoft Office Compatibility Pack Service Pack 3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6f83ae0a-b693-4ae2-a6fd-ab40d06efe99	
KB3213646 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8b04bc91-88c8-4229-86f0-b454e69a93f0	
KB3213641 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d0955758-bb02-4421-bd68-9c1819c98c29	
KB4011720 Microsoft Office Compatibility	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=490ec326-af4b-4b8f-921f-4a81a9c4645c	

Pack Service Pack 3		
KB4018354 Microsoft Office Compatibility Pack Service Pack 3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6f83ae0a-b693-4ae2-a6fd-ab40d06efe99	
KB2596904 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=158250e3-4ef3-47ef-acf3-908145be487a	
KB2984943 MS16-054 Microsoft Office 2007 SP3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=edcc1acb-520b-4b79-9cee-d4cb8be0a543	
KB2837610 MS15-081 Microsoft Office 2007 SP3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6fb8e843-7b66-4d04-9380-366e12d36a73	
KB2596744 MS12-046 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=862c13b8-72ca-477d-9d14-82c00831e5cd	
KB2596792 MS12-034 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f4695a25-0d22-4e3b-9ba9-9bbc62198c28	
KB2850022 MS13-106 Microsoft Office 2007 suites	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c1790872-1db0-452a-a5b5-29ac0e6528c1	

KB2920795 **MS15-013** **Microsoft Office** **2007 suites**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=89aa6f47-e537-4abd-a2f6-903a4ac5cba9	
KB2596825 **MS13-074**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9676c624-58cb-4a30-b7b3-1d013cf3dbbc	
KB3085549 **MS15-131**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e33ff4cb-81c9-4d28-a0cd-707d7d6fc227	
KB3000483 **MS15-011**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=dbd91e47-4238-4bbe-8c8b-87c2d02c57d2	**Install KB3004375 and KB3000483**
KB3159398 **MS16-072**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2329e2b7-4e31-42e3-86aa-2ebfaa2c6339	
	Reboot Required	
KB3155178 **MS16-056**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=66bf9ecd-a620-45be-a807-f8005ee1326d	
KB3156016 **MS16-055**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f21d3be8-dd35-4ac7-97b8-b4d06d4ed7f2	
KB2858302 **Microsoft .NET** **Framework 4**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f0f98c12-0e77-4ec7-a52d-b6f6fe0076e1	
KB2604121 **Microsoft .NET** **Framework 4**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=afdd5d5e-2cc2-4a6a-a44f-e45a275702f5	
	Reboot Required	
KB2972215 **Microsoft .NET** **Framework**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=73ed412e-0927-4416-bf83-5fa89f2b31a1	

KB2742595 **Microsoft .NET** **Framework 4**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=97e091c7-35eb-4da0-9346-e6f33115c8ed
KB3097994 **Microsoft .NET** **Framework 4**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=89218326-341f-4723-9e1f-01890fcef45e
KB3037578 **Microsoft .NET** **Framework 4**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5a9996be-4894-4c2f-aaab-0a467ab12115
KB3023221 **Microsoft .NET** **Framework 4**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=87b6ea40-f80c-4611-8175-1d20d5f5c7f1
KB2978125 **Microsoft .NET** **Framework 4**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=ebcb8b15-112e-4ee0-9dd9-0efd1bc965cc
KB2737019 **Microsoft .NET** **Framework 4**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fc5608e4-a70d-4344-b358-2847f4a57434
KB3188730 **.NET Framework** **3.5.1**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=31324b0e-2319-431a-bd57-9727c18fd35a
KB2972106 **Microsoft .NET** **Framework 4**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4825cb6b-8412-45a2-8595-ced595e9abc1
KB3074547 **Microsoft .NET** **Framework 4**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d6c8c747-dec3-4695-b5f1-d9edecd625fd
KB2835393 **Microsoft .NET** **Framework 4**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7f14a9ff-eae7-4c4d-8f90-2e140f89246e
KB2840628	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=0dfade8f-54fe-412a-aea6-66cb712a2bf9

Microsoft .NET Framework 4		
KB3032662 Microsoft .NET Framework 4	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2d89e422-cf53-4d3e-bc81-03e053208c16	
KB2736428 MS13-007 Microsoft .NET Framework 4	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=de4cbbf4-443f-4bb7-aebf-8da2fcc7b706	
KB2487367 MS11-066 Microsoft .NET Framework 4	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=79f342ab-66e7-42a7-8315-2677f99f20c5	
KB2834140	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3604fc71-9010-4acd-a2f5-b521d5c1dac1	
KB3124275 IE8	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=cb5c9d60-f931-413a-97a3-0a32434fbd55	
	Reboot Required	
MS13-002 KB2758694	https://www.microsoft.com/en-us/download/details.aspx?id=36292	
Adobe Reader 11.0 MUI	https://supportdownloads.adobe.com/thankyou.jsp?ftpID=5507&fileID=5519	
Adobe Reader 11.0.23 MUI	https://supportdownloads.adobe.com/thankyou.jsp?ftpID=6279&fileID=6314	
	Reboot Required	
KB2979596 SQL Server 2008 SP4	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
	Reboot Required	
KB3045311 SQL Server 2008 SP4	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**
	Reboot Required	
KB2900986 ActiveX Killbits	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=82b62134-bafb-4fd3-815e-73534b9d1aa5	
KB3156019 MS16-055	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b5b7f2e4-bf3f-4974-ab23-f3a2ab886d31	
	Reboot Required	
KB3161949 MS16-077	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=25c0fd19-d4e4-4af5-aad9-f308dde496d5	
	Reboot Required	
KB4025337 July 2017 Security Only	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=794feee1-ea78-4c11-a683-a91335abb0e3	
	Reboot Required	

KB4034679 **August 2017** **Security Only**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=04eaa57c-5a16-484a-aefa-b9df268e1c07	
Reboot Required		
KB4048957 **November 2017** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=224b07ab-de98-45f0-8b9c-83551cac66f6	
Reboot Required		
KB4054518 **December 2017** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5b48d1cb-83f7-43e1-9308-18872ffe4dce	
Reboot Required		
KB4056894 **January 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=63bb3909-e5fe-45a2-8d59-44f9df52317f	
Reboot Required		
KB4074598 **February 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=651e95ab-6e7c-4ea6-9cd2-3cbabd9b76f0	
Reboot Required		
KB4088875 **March 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3ed75c38-aa36-437e-bf4f-574789591e03	
Reboot Required		

KB4093118 **April 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=647f49ef-0f0a-49dc-9766-dd255cded1af	
	Reboot Required	
KB4103718 **May 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3f4d0c73-a177-48cf-a3e7-97d1a94cba87	
	Reboot Required	
KB4284826 **June 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=326a9830-3983-402d-b48b-7a35f99c516a	
	Reboot Required	
KB4338818 **July 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=ea409dca-1368-48cf-94c1-d510b1690d74	
	Reboot Required	
KB4343900 **August 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d785f6dd-d90b-4cb9-838a-8faf5971165f	NOTE: Make the following Registry Change – Create these registry keys if it doesn't exist: [**HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\Session Manager\Memory Management**] Value Name= [**FeatureSettingsOverride**] Type=[**DWORD**] Data=[**0**]

		Value Name= [**FeatureSettingsOverrideMask**] Type=[**DWORD**] Data=[**3**]
KB2269637	Create the following Registry Key Key=[**HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager**] Value Name=[**CWDIllegalInDllSearch**] Type=[**REG_DWORD**] Data=[**1**]	
KB2719662	Create the following Registry Key Key=[**HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\Windows\Sidebar**] Value Name=[**TurnOffSidebar**] Type=[**REG_DWORD**] Data=[**1**]	
KB3125869	NOTE: Make the following Registry Change – Create these registry keys if it doesn't exist: [**HKLM\SOFTWARE\Microsoft\Internet Explorer\MAIN\FeatureControl\FEATURE_ALLOW_USER32_EXCEPTION_HANDLER_HARDENING**] Value Name= [**iexplore.exe**] Type=[**DWORD**] Data=[**1**]	
	Reboot Required	

Windows 2008R2 (INW Server)

KB	Link	Notes
HPSBMU03593 Rev 2	https://support.hpe.com/hpsc/swd/public/detail?swItemId=MTX_b36fb879335a41d78ee5e99f7f	**Installation:** 5) Download the Smart Component (**cp034022.exe**) file to a local directory on

		the server where you want to install the software. 6) Change to the directory where you downloaded 7) Run the **cp034022.exe** file by double-clicking it. A dialog box will display. 8) Click the 'Install' button to install the SMH
Reboot Required		
HPESBHF03805 Rev 23	DL370 G6 (cp035397.exe) https://www.hpe.com/global/swpublishing/MTX-df78827f61164b6f952314da7c	**NOTE: Intel/HP has not provided Firmware update for ML370 G5 and ML370 G4 Servers. This only applies to DL370 G6 Servers** Installation: To update firmware from Windows operating system on target server: 1. Download **cp035397.exe** file to a local directory on the server where you want to install the software 2. Run **cp035397.exe** file from the same directory by double-clicking it. 3. When the Component dialog window displays, click the "**Install**" button to initiate the firmware upgrade.
Reboot Required		
KB2834140	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5b73fcca-dde8-4542-a5fa-0b23ce19aaee	
KB3124275 IE8	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8bf1b674-47b0-435a-b263-00f434227cda	

MS12-056 **KB2706045**	https://www.microsoft.com/en-us/download/details.aspx?id=30554	
MS13-002 **KB2758694**	https://www.microsoft.com/en-us/download/details.aspx?id=36273	
Adobe Reader **11.0 MUI**	https://supportdownloads.adobe.com/thankyou.jsp?ftpID=5507&fileID=5519	
Adobe Reader **11.0.23 MUI**	https://supportdownloads.adobe.com/thankyou.jsp?ftpID=6279&fileID=6314	
	Reboot Required	
KB3188730 **.NET Framework** **3.5.1**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=db79590e-38a6-4180-b6d2-900eeb061ac4	
	Reboot Required	
KB2979596 **SQL Server 2008** **SP4**	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**
	Reboot Required	
KB3045311 **SQL Server 2008** **SP4**	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_30561aef89c6d174fee7b77bed** **6b3b8539542558.exe** **/ACTION=Patch** **/INSTANCENAME=MSSQLSERVER** **/IGNORESERVICERESTARTSTATE**
	Reboot Required	
KB3104002 **MS15-124**	NOTE: Make the following Registry Change – Create these registry keys if it doesn't exist:	

IE8	**[HKLM\SOFTWARE\Microsoft\Internet Explorer\MAIN\FeatureControl\FEATURE_ALLOW_USER32_EXCEPTION_HANDLER_HARDENING\]** Value Name= [**iexplore.exe**] Type=[**DWORD**] Data=[**1**] **[HKLM\SOFTWARE\Wow6432Node\Microsoft\Internet Explorer\MAIN\FeatureControl\FEATURE_ALLOW_USER32_EXCEPTION_HANDLER_HARDENING** Value Name= [**iexplore.exe**] Type=[**DWORD**] Data=[**1**]	
KB2900986 ActiveX Killbits	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6fd1a18b-3dba-4dbc-820e-750a4e32f24c	
KB3156019 MS16-055	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=05cb4345-49ea-4eca-8ba3-f870466c46c7	
KB3159398 MS16-072	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=56a7a134-5ad6-43c2-aab1-e10d2fef8f7c	
	Reboot Required	
KB3156016 MS16-055	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=de32fc3d-60a4-4fc9-9588-0c404765940a	
	Reboot Required	
KB3161949 MS16-077	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=5bc0e07b-33ca-4ea2-8253-4f0dcd26783a	
	Reboot Required	
KB4025337 July 2017 Security Only	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=85fadee5-ed6f-4a22-964a-9b2991c4cff1	
	Reboot Required	
KB4034679	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=07571deb-76fc-463b-9282-db65963e6fe4	

August 2017 Security Only		
	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	
KB4056894 January 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fc887fd2-cd35-434b-b6e3-1fef99b2e7ce	
	Reboot Required	
KB4074598 February 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f3ab18cb-219e-4287-b14c-3a05c8d9479a	
	Reboot Required	
KB4088875 March 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=03df6731-e0a6-4917-9da3-161a0b7f6b09	
	Reboot Required	
KB4093118 April 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d2c7363c-323f-4e92-892a-90b83027e4aa	
	Reboot Required	
KB4103718 May 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4fe75106-a2ba-4186-aecd-10424a19225e	

	Reboot Required	
KB4284826 **June 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=999fa80e-c59d-4ff6-8268-c6a8c365f428	
	Reboot Required	
KB4338818 **July 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=1c930eab-7b7e-4616-b5b5-d6e4a723bc71	
	Reboot Required	
KB4343900 **August 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=71600c77-2a56-4ba2-991b-ad477cfc9eb9	NOTE: Make the following Registry Changes – Create these registry keys if it doesn't exist: Key=[**HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\Session Manager\Memory Management**] Value Name= [**FeatureSettingsOverride**] Type= [**DWORD**] Data= [**0**] Value Name =[**FeatureSettingsOverrideMask**] Type= [**DWORD**] Data= [**3**]
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	

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MLCL V6.9 2019 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 6.9.5 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 (Software Only Systems)		
KB	**Link**	**Notes**
	Make the following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00023c00	
KB3177467 Service Stack	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f59a369d-2cef-46f7-a3e1-f33d302c6abf	
	Reboot Required	
KB4457144 September 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=f5c88de4-720e-4ed1-b95f-6ce4d4d06087	
	Reboot Required	
KB4462923 October 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d2f075cf-7563-40e7-9aa3-8d2562e60cf9	
	Reboot Required	

KB4467107 **November 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=81c3ab78-c5a5-403b-b347-0d9421539574
	Reboot Required
KB4471318 **December 2018** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=345b59c2-a130-42aa-9b98-a66dd085451c
	Reboot Required
KB4480970 **January 2019** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4972abbb-3924-406f-8612-4b6f3ad53442
	Reboot Required
KB4486563 **February 2019** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=b29b6d12-dbd3-4d44-b0cf-f6e5e298cab2
	Reboot Required
KB4489878 **March 2019** **Monthly Rollup**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=039eb986-8841-4931-88e9-7f429ed74fb4
	Reboot Required
KB4490628 **Servicing Stack** **Update**	https://www.catalog.update.microsoft.com/ScopedViewInline.aspx?updateid=71c7172c-f6ea-493d-ab74-65d2548e834b

KB4493472 April 2019 Monthly Rollup	https://www.catalog.update.microsoft.com/ScopedViewInline.aspx?updateid=c263402a-d44d-4473-bff6-40e5cc468c82	
	Reboot Required	
KB4499164 May 2019 Monthly Rollup	https://www.catalog.update.microsoft.com/ScopedViewInline.aspx?updateid=94e0a99a-327b-4a75-a40a-b38f0a4e18cf	
	Reboot Required	
KB4470641 .NET Framework 3.5.1 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c3ef1b3d-4a92-45b1-b9b6-203d388abe1a	
	Reboot Required	
KB2901907 .NET Framework 4.5.2 Installer	https://www.microsoft.com/en-us/download/details.aspx?id=42642	Right click and Run as Administrator
KB4470637 .NET Framework 4.5.2 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=7b427c69-99db-4e3d-838f-3d9f5df18a6c	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=b8c1b025-fd0a-4c5c-9aa8-3549f8eef894	
Reboot Required		
MS13-029 KB2813347	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e31f669c-cc33-40a3-954c-47bd3c6fa68e	
Reboot Required		
http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=3462da1c-dcd7-4637-943b-12abdd768b4c		
Reboot Required		
MS15-037 KB3046269	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=76a2496e-5916-47d7-926b-c122d750d586	
MS15-118 KB3097996	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=fb22dc3f-8af8-46a9-ad09-6663ba1a6d58	
MS14-057 KB2972107	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=96a281c5-06af-4741-9f4d-e9536142a4ff	
MS14-082 KB2596927	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=ce09a331-7e53-46d2-b826-61ff20c651b6	
MS16-019 KB3122656	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=e10dd41d-f457-47c9-a46c-bdc3f8236834	

	Reboot Required	
MS15-048 KB3023224	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=6649b424-ba0f-42dc-b790-75bba4e5971b	
MS15-048 KB3035490	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=31ee5d41-d7d6-4ba5-8773-a08b9e464a43	
	Reboot Required	
MS15-060 KB3059317	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=9202ee09-24c9-4ae7-83bd-3b5d4b0e5c22	
	Reboot Required	
KB4483455 Microsoft .NET Framework 4.5.2 February 2019	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c30b52ab-a752-489e-ae30-ad8aab786e6c	
KB3203427 Microsoft Word Viewer	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=38f5b446-248e-4675-874c-3020f3bb8dcb	
KB4011656 Microsoft Office 2007 SP3	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=749b494d-2879-4eb5-b00d-45661c0d92fc	
KB4011715 Microsoft Office	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=ee266d3e-aef7-4ace-be8e-29b1015b18e2	
KB4011604 Microsoft Office	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=881cd0b1-bdf0-4772-a25b-361ac6166dfa	

OPTIONAL – Disable Remote Desktop Services	Refer to section – OPTIONAL - Remote Desktop Services Remote Code Execution Vulnerability	Only disable services if RDS is not used.
	Make the Following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00010000	
	Reboot Required	

Windows XP (GE Acq/Review/Software Only)

KB	Link	Notes
KB4500331 May 2019 Security Update	https://www.catalog.update.microsoft.com/ScopedViewInline.aspx?updateid=733f4cf3-da72-4e1d-b4e4-ffe0b15ae3e6	
Reboot Required		

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	

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**
KB4457144 September 2018 Monthly Rollup	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2986185e-cd31-4f1d-99a5-bea6bd1ef53c	
	Reboot Required	
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	
	Reboot Required	
KB4490628 Servicing Stack Update	https://www.catalog.update.microsoft.com/ScopedViewInline.aspx?updateid=1d4f0343-a41a-4782-8aed-18a620431171	
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	
KB2901907 .NET Framework 4.5.2 Installer	https://www.microsoft.com/en-us/download/details.aspx?id=42642	Right click and Run as Administrator
	Reboot Required	
KB4470637 .NET Framework	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=0fe7139a-9081-4151-9b83-c499dcdb852b	Right Click on the file and Run as Administrator.

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.
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	
MS14-057 KB2972107	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=151e15f7-fa7a-40c4-a58a-721cb88e8071	
MS14-057 KB2979578	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=d44bd7d1-ec33-4a65-942c-093aec39b02b	
Reboot Required		
MS13-029 KB2813347	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=dd7619dd-d6a6-4765-8406-612fd79583ba	
MS13-083 KB2864058	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=07b35f8b-3dc2-428c-8ea8-e407d69a2875	
Reboot Required		
MS15-011 KB3000483	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=cd0139f5-252e-44e5-8b7c-2ce97a242af5	
Reboot Required		
MS15-037 KB3046269	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=8f30d731-2bc6-429e-817c-5827affa645d	
MS15-048 KB3023224	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=84baf93f-3645-4ef2-887a-d1e5e883adc7	

MS15-048 **KB3035490**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=922de694-c7e6-42ac-8738-95f5a8e2390e	
Reboot Required		
MS15-060 **KB3059317**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4dd3058e-6f32-4be6-ac74-abfa56da5d6b	
Reboot Required		
MS15-101 **KB3074550**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=2f7719fa-8a6d-4b16-9c69-66447f308ee7	
MS15-118 **KB3097996**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=103a0bdd-e71c-4f33-8cf1-7b68198ad536	
Reboot Required		
KB4483455 **Microsoft .NET** **Framework** **4.5.2 February** **2019**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=da6482c7-24a1-458f-b24e-08eda9398c79	
ADV180002 **KB4057113**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=aabc5156-cae2-44bf-aa69-a904626118fa	**Install this patch**
Reboot Required		
KB4041083 **.NET** **Framework**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=63d66f1b-d720-4eaf-b3aa-03f17de1f2dc	**Install the KB4040980 and KB4040977**
KB4049016 **.NET** **Framework**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=4ed9cae0-b1f4-42ab-aec2-e967f3e1d42a	**Install KB4040977**
KB4457918 **.NET** **Framework**	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=47929065-3b21-4d22-bd3a-103cf3c7f38e	**Install KB4457044 and KB4457038**

KB4457914 .NET Framework	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=c769c803-f9cc-45c6-9a37-b5abb2bd308d	**Install KB4457055 and KB4457030**
KB4467240 .NET Framework	http://catalog.update.microsoft.com/v7/site/ScopedViewInline.aspx?updateid=43953fa1-253b-4b29-a6f2-d0afa381f091	**Install KB4459934 and KB4459945**
	Make the Following Registry Change	
	[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing]	
	State=dword:00010000	
	<u>**Reboot Required**</u>	

MLCL v6.9 Firmware

HPSBPI02938 Pre-9/23/2013 Firmware •**HP CP2025N printer**	http://h20566.www2.hp.com/portal/site/hpsc/template.PAGE/public/kb/docDisplay/?spf_p.tpst=kbDocDisplay&spf_p.prp_kbDocDisplay=wsrp-navigationalState%3DdocId%253Demr_na-c04041432-2%257CdocLocale%253D%257CcalledBy%253D&javax.portlet.begCacheTok=com.vignette.cachetoken&javax.portlet.endCacheTok=com.vignette.cachetoken
HPSBPI02938 Pre-9/23/2013 Firmware •**HP LaserJet Pro 400 Printer M401**	http://h20566.www2.hp.com/portal/site/hpsc/template.PAGE/public/kb/docDisplay/?spf_p.tpst=kbDocDisplay&spf_p.prp_kbDocDisplay=wsrp-navigationalState%3DdocId%253Demr_na-c04041432-2%257CdocLocale%253D%257CcalledBy%253D&javax.portlet.begCacheTok=com.vignette.cachetoken&javax.portlet.endCacheTok=com.vignette.cachetoken
HPSBPI02938 Pre-9/23/2013 Firmware •**HP LaserJet Pro 400 color Printer M451**	http://h20566.www2.hp.com/portal/site/hpsc/template.PAGE/public/kb/docDisplay/?spf_p.tpst=kbDocDisplay&spf_p.prp_kbDocDisplay=wsrp-navigationalState%3DdocId%253Demr_na-c04041432-2%257CdocLocale%253D%257CcalledBy%253D&javax.portlet.begCacheTok=com.vignette.cachetoken&javax.portlet.endCacheTok=com.vignette.cachetoken
HPSBPI02938 Pre-9/23/2013 Firmware •**HP LaserJet P2035N**	N/A

HPSBPI02938 Pre-9/23/2013 Firmware **•HP LaserJet 2300**	N/A
RICOH SP4100N	N/A
RICOH AP410N	N/A
RICOH CL3500N	N/A
RICOH CL3000	N/A

Contact Information

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

Notes:

Microsoft Windows Server 2008 R2 SP1 Security Patch Support
For MLCL v6.9, since Windows Server 2008 R2 security patch support ended April 2013, Microsoft Windows Server 2008 R2 Service Pack 1 - KB976932, 2007 Microsoft Office Suite SP3 - KB2526086, Microsoft Office 2007 Language Pack SP3 - KB2526086 is a prerequisite for installation of security patches past MS12-054 KB2712808.