

DOCUMENT NUMBER:	MTN-0053A-25
ISSUE DATE:	2025-05

MOTOROLA SOLUTIONS TECHNICAL NOTIFICATION (MTN)

Title

New Windows 10 Workstations BIOS firmware, Intel Chipset Driver, Intel Dynamic Tuning Technology (DTT) Driver and NVIDIA Graphics Driver security updates are available.

Technology

ASTRO® 25

Severity Recommendation

High - Schedule to Implement

MTN Overview

These updates address potential vulnerabilities that could be exploited through compromised user credentials, underscoring the critical role of robust identity access and credential management. While strong mitigating controls are already in place to defend against external threats, these fixes reaffirm our alignment to a Zero Trust framework.

When To Apply

After (re)installation _X_

During maintenance _X_

Models / System Releases / Kits / Datecodes Affected

System releases: A2022.1, A2022.HS, AN 2024.1, AN 2024.HS

Machine type	BIOS Version	Intel Chipset Driver	Intel Dynamic Tuning Driver	NVIDIA Graphics Driver	Windows version
HP Z2 Mini G4	01.08.08 and prior, release date December 11, 2023 and prior	prior to 10.1.19444.8378	N/A	471.41 and prior	Windows 10 64-bit Enterprise LTSC 2019
HP Z2 Mini G5**	1.04.15 and prior, release date December 11, 2023 and prior	prior to 10.1.19444.8378	N/A	471.41 and prior	Windows 10 64-bit Enterprise LTSC 2019

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HP Z2 Mini G9	02.04.02 and prior, release date December 11, 2023 and prior	prior to 10.1.19444.8378	N/A	N/A	Windows 10 IoT Enterprise LTSC 2021 64bit
HP Zbook 15 G5	01.25.00 and prior, release date August 8, 2023 and prior	prior to 10.1.19444.8378	prior to 8.7.10400.1548 2	471.41 and prior	Windows 10 64-bit Enterprise LTSC 2019
HP Zbook 15 G6	01.26.00 and prior, release date December 11, 2023 and prior	prior to 10.1.19444.8378	prior to 8.7.10400.1548 2	471.41 and prior	Windows 10 64-bit Enterprise LTSC 2019
HP Zbook 15 G7*	01.15.00 and prior, release date December 11, 2023 and prior	prior to 10.1.19444.8378	prior to 8.7.10400.1548 2	471.41 and prior	Windows 10 64-bit Enterprise LTSC 2019
HP Zbook 16 G10	01.03.01 and prior, release date December 5, 2023 and prior	prior to 10.1.19444.8378	N/A	N/A	Windows 10 IoT Enterprise LTSC 2021 64bit

* Do not update any drivers for **HP ZBook 15 G7**, due to open issue with HP pending resolution

** If MTN-0053-25 was already applied for HP Z2 Mini G5, please refer to Appendix E.

MTN is applicable for the listed machines used in the following products:

NETWORK MANAGEMENT WORKSTATION				
NM Client Workstation	HP Z2 mini G4	HP Z2 mini G5	HP Z2 mini G9	
IP DISPATCH CONSOLE				
MCC 7500 Dispatch Position Workstation	HP Z2 mini G4	HP Z2 mini G5	HP Z2 mini G9	
MCC 7500 AIS Workstation (VPM Based)	HP Z2 mini G4	HP Z2 mini G5	HP Z2 mini G9	
CommandCentral AXS			HP Z2 mini G9	
MKM 7000 CONSOLE ALIAS MANAGER (CAM) - with CoHab				
MKM 7000 Console Alias Manager Server	HP Z2 mini	HP Z2 mini	HP Z2 mini G9	

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Workstation	G4	G5		
	HP ZBook 15 G5	HP ZBook 15 G6	HP ZBook 15 G7*	HP ZBook 16 G10
PRX 7000 - PROXY - with CoHab				
PRX 7000 Console Proxy Workstation	HP Z2 mini G4	HP Z2 mini G5	HP Z2 mini G9	
	HP ZBook 15 G5	HP ZBook 15 G6	HP ZBook 15 G7*	HP ZBook 16 G10
NICE - MCC 7500 LOGGING RECORDER				
MCC 7500 IP Logging Recorder Replay Workstation	HP Z2 mini G4	HP Z2 mini G5	HP Z2 mini G9	
MCC 7500E IP DISPATCH CONSOLE				
MCC 7500E Dispatch Position Workstation	HP Z2 mini G4	HP Z2 mini G5	HP Z2 mini G9	
	HP ZBook 15 G5	HP ZBook 15 G6	HP ZBook 15 G7*	HP ZBook 16 G10
KEY MANAGEMENT FACILITY (KMF) WORKSTATION				
KMF Client Workstation	HP Z2 mini G5	HP Z2 mini G9		
AuC Client				
AuC Client Workstation	HP Z2 mini G4	HP Z2 mini G5	HP Z2 mini G9	

* Do not update any drivers for **HP ZBook 15 G7**, due to open issue with HP pending resolution.

Symptoms

During security scans following CVE's might be observed on the scans results.

This MTN resolves the CVEs listed in the table below, if they exist. The list of CVEs depends on the machine type.

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Machine type	Applicable CVEs resolved
HP Z2 Mini G4	CVE-2022-44611, CVE-2022-26837, CVE-2023-25756, CVE-2023-28388, CVE-2024-21814, CVE-2021-1089, CVE-2021-1090, CVE-2021-1091, CVE-2013-5987, CVE-2019-5685, CVE-2021-1092, CVE-2021-1093, CVE-2021-1094, CVE-2021-1095, CVE-2021-1096
HP Z2 Mini G5	CVE-2022-44611, CVE-2023-25756, CVE-2023-28388, CVE-2024-21814, CVE-2021-1089, CVE-2021-1090, CVE-2021-1091, CVE-2013-5987, CVE-2019-5685, CVE-2021-1092, CVE-2021-1093, CVE-2021-1094, CVE-2021-1095, CVE-2021-1096
HP Z2 Mini G9	CVE-2022-44611, CVE-2022-26837, CVE-2023-25756, CVE-2023-28388, CVE-2024-21814, CVE-2019-5685, CVE-2021-1092, CVE-2021-1093, CVE-2021-1094, CVE-2021-1095, CVE-2021-1096
HP Zbook 15 G5	CVE-2022-44611, CVE-2023-25756, CVE-2023-28388, CVE-2024-21814, CVE-2022-29470, CVE-2021-1089, CVE-2021-1090, CVE-2021-1091, CVE-2013-5987, CVE-2019-5685, CVE-2021-1092, CVE-2021-1093, CVE-2021-1094, CVE-2021-1095, CVE-2021-1096
HP Zbook 15 G6	CVE-2022-44611, CVE-2023-25756, CVE-2023-28388, CVE-2024-21814, CVE-2022-29470, CVE-2021-1089, CVE-2021-1090, CVE-2021-1091, CVE-2013-5987, CVE-2019-5685, CVE-2021-1092, CVE-2021-1093, CVE-2021-1094, CVE-2021-1095, CVE-2021-1096
HP Zbook 15 G7*	CVE-2022-44611, CVE-2023-25756, CVE-2023-28388, CVE-2024-21814, CVE-2022-29470, CVE-2021-1089, CVE-2021-1090, CVE-2021-1091, CVE-2013-5987, CVE-2019-5685, CVE-2021-1092, CVE-2021-1093, CVE-2021-1094, CVE-2021-1095, CVE-2021-1096
HP Zbook 16 G10	CVE-2023-25756, CVE-2023-28388, CVE-2024-21814, CVE-2019-5685, CVE-2021-1092, CVE-2021-1093, CVE-2021-1094, CVE-2021-1095, CVE-2021-1096

* Do not update any drivers for **HP ZBook 15 G7**, due to open issue with HP pending resolution

Test to perform

To verify the current BIOS version:

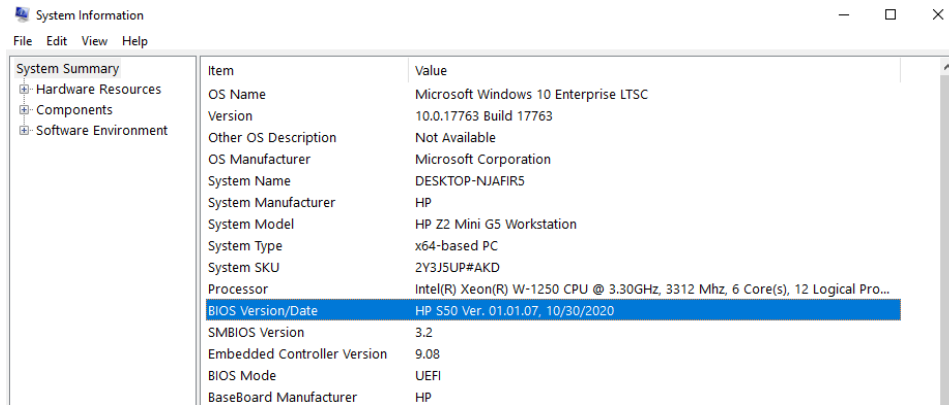
Option 1 (Windows System Information):

1. In the Windows Search Bar, type "System Information" and open it
2. Locate and write down the "System Model" and "BIOS Version/Date"
3. Compare the BIOS version. If the BIOS Version/Date matches the version listed in the section [Models / System Releases / Kits / Datecodes Affected](#), update is required. Otherwise, the system is not affected.

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Option 2 (f1 System Information):

1. Turn on the computer, and then press f1 repeatedly until “Entering System information...” is displayed or the System Information menu appears
2. Look for the system BIOS version.
3. Compare the BIOS version. If the BIOS Version/Date matches the version listed in the section [Models / System Releases / Kits / Datecodes Affected](#), update is required. Otherwise, the system is not affected.



Option 3 (f10 Setup application):

1. Turn on the computer, and then press f10 repeatedly until “Entering Setup Menu...” is displayed or the HP Computer Setup appears
2. In the Main tab, select “System Information”.
3. Look for the system BIOS version.
4. Compare the BIOS version. If the BIOS Version/Date matches the version listed in the section [Models / System Releases / Kits / Datecodes Affected](#), update is required. Otherwise, the system is not affected.

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To verify the current Intel Chipset software version:

Option 1:

1. In the Windows Search Bar type "Control Panel" and open it
2. Navigate to "Programs and Features" and open it
3. Look for Intel(R) Chipset Device Software (NOTE: In case Intel(R) Chipset Device Software is not available or version information is not displayed, follow the Option 2 below).
4. Check column Version - if it matches the version listed in the section [Models / System Releases / Kits / Datecodes Affected](#), update is required. Otherwise, the system is not affected.



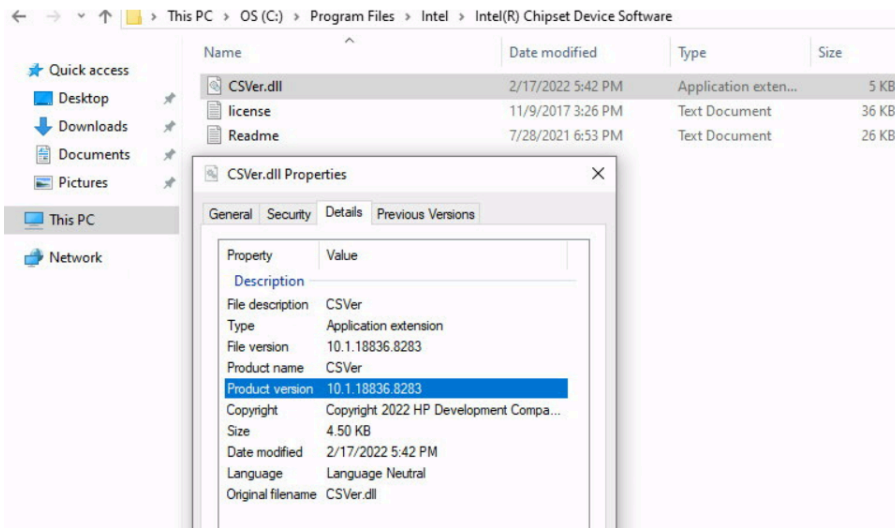
Option 2:

1. In the Windows Search Bar type "File explorer" and open it.
2. Navigate to: "C:\program files\Intel\Intel(R) Chipset Device Software\" location. (NOTE: In case the above path is not available, follow the Option 3 below).
3. Right click on the "CSVer.dll" file and choose properties.
4. Navigate to the "Details" tab and check "Product Version" - if it matches the version listed in the section [Models / System Releases / Kits / Datecodes Affected](#), update is required. Otherwise, the system is not affected.

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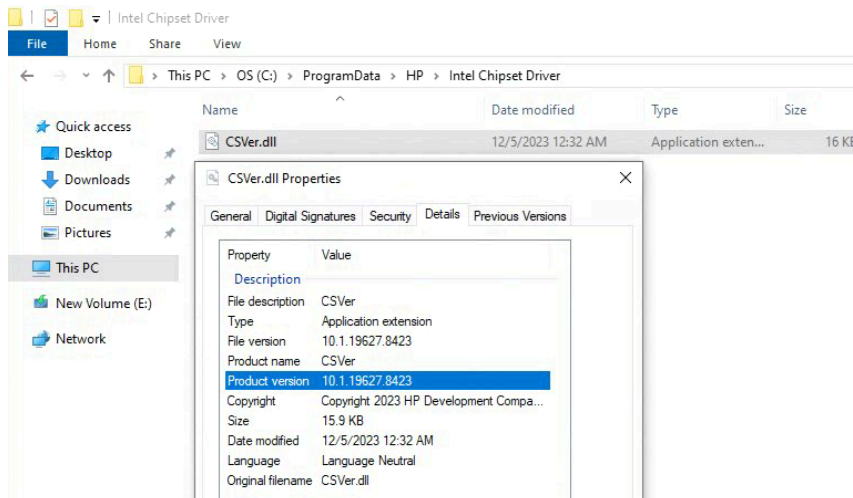
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Option 3:

1. In the Windows Search Bar type “File explorer” and open it
2. Navigate to: “C:\programdata\hp\Intel Chipset Driver” location.
3. Right click on “CSVer.dll” file and choose properties
4. Navigate to the “Details” tab and check “Product Version” - if it matches the version listed in the section [Models / System Releases / Kits / Datecodes Affected](#), update is required. Otherwise, the system is not affected.



To verify the current Intel Dynamic Tuning Driver software version:

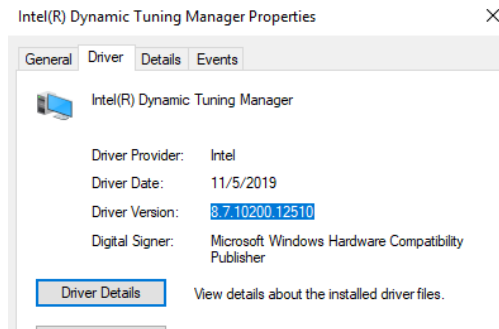
1. In the Windows Search Bar type “Device Manager” and open it
2. Right-click on **Intel(R) Dynamic Tuning Processor Participant** or **Intel(R) Dynamic Platform and Thermal Framework Processor Participant** device under **System devices**
3. Then select **Properties**

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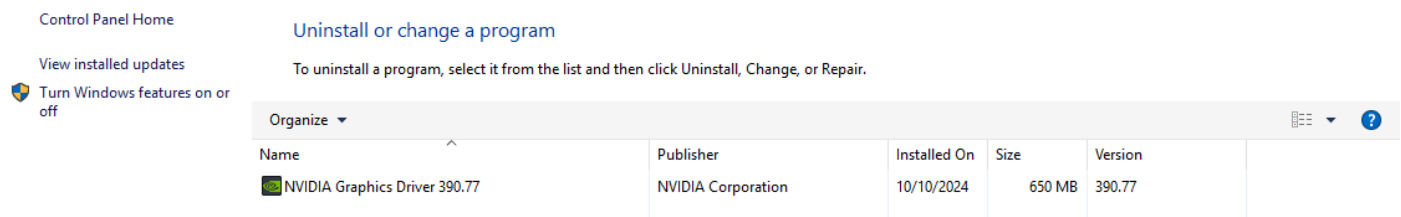
- Select the “Driver” tab and read the “Driver version”. If it matches the version listed in the section [Models / System Releases / Kits / Datecodes Affected](#), update is required. Otherwise, the system is not affected.



To verify the current NVIDIA Graphics Driver version:

Option 1 (Windows Control Panel, Not available on HP Zbook 15 G5):

- In the Windows Search Bar type “Control Panel” and open it
- Navigate to “Programs” and “Programs and Features” and open it
- Look for NVIDIA Graphics Driver XXX.XX (version)
- If the displayed driver version matches the version listed in the section [Models / System Releases / Kits / Datecodes Affected](#), update is required. Otherwise, the system is not affected.



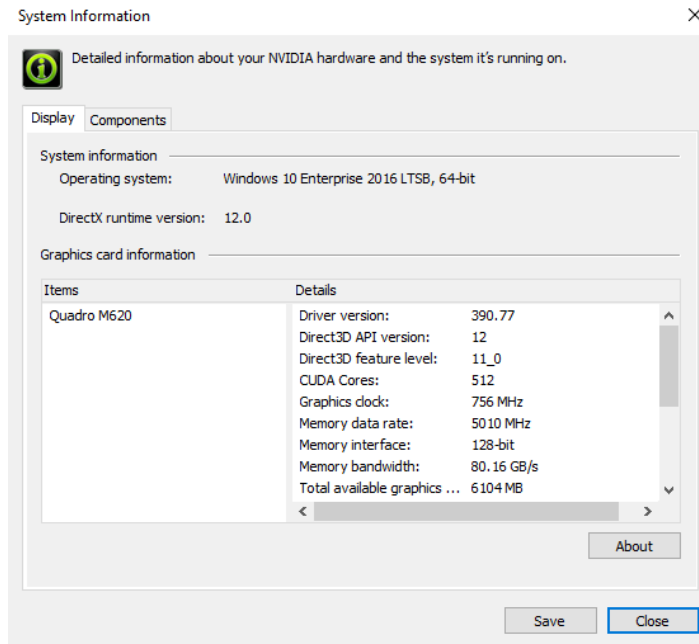
Option 2 (NVIDIA Control Panel, Not available on HP Z2 G5 Mini):

- Right-click on your desktop and select *NVIDIA Control Panel*. From the NVIDIA Control Panel menu
- You might be asked to agree to the NVIDIA software license agreement for the first time
- Select *Help > System Information*. The driver version is listed at the top of the Details window.

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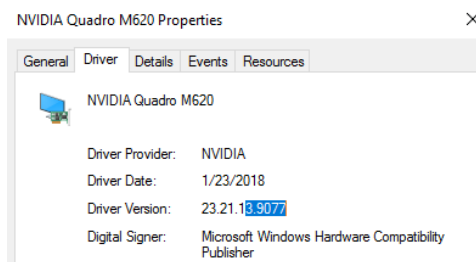
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4. If the displayed driver version matches the version listed in the section [Models / System Releases / Kits / Datecodes Affected](#), update is required. Otherwise, the system is not affected.

Option 3 (Windows Device Manager):

1. In the Windows Search Bar type "Device Manager" and open it
2. Right-click on your graphics device under *Display adapters*
3. Then select *Properties*
4. Select the *Driver* tab and read the Driver Version.
5. The last 5 digits are the NVIDIA driver version number. In the example below, the image shows version 390.77



5. If the displayed driver version matches the version listed in the section [Models / System Releases / Kits / Datecodes Affected](#), update is required. Otherwise, the system is not affected.

Resolution And Repair Procedure

To update BIOS version, follow [Appendix A - BIOS update](#)

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To update Intel Chipset Driver, follow [Appendix B - Intel Chipset Software update](#)
 To update Intel Dynamic Tuning Driver, follow [Appendix C - Intel Dynamic Tuning Driver update](#)
 To update NVIDIA drivers, follow [Appendix D - NVIDIA drivers update](#)

To obtain software:

1. Initiate a software request case through Motorola Solutions, Inc. Centralized Managed Support Operations (CMSO) - see contact numbers at <https://motorolasolutions.com/support> (for NA call directly: 800-MSI-HELP (800-674-4357) or 302-444-9800)
2. Await confirmation email from Motorola Solutions Software Factory (MSSF) with instructions
3. Complete the Motorola Solutions Software Factory Software Order Form:
 - Reference MTN-0053A-25 in the 'Reason for Software/Hardware Change' section of the software order form.
 - List the part number (KC # as listed under "Software Parts Required" below) in the 'Part # or Version #' section of the software order form.
4. Email completed Software Order Form to MSSF for processing.

In the event of disaster recovery or reinstallation this MTN needs to be reapplied.

Time To Implement/System Impact

BIOS update:

High - up to 20 minutes per machine. Operator position/machine will not be available during reboot

Intel Chipset Driver:

High - up to 10 minutes per machine. Operator position/machine will not be available during reboot

Intel Dynamic Tuning Driver:

High - up to 10 minutes per machine. Operator position/machine will not be available during reboot

NVIDIA Graphics Driver:

High - up to 10 minutes per machine. Operator position/machine will not be available during reboot

Software Parts Required

System Release	Name / SW version	Details / Part Number
A2022.1, A2022.HS, A2024.1, A2024.HS	Astro Windows One-Time BIOS and Driver Updates.iso	KC877V093000240101

Hardware Parts Required

Name	Part Number
N/A	N/A

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Additional Information

None

Reference The Following Documents/Processes For Installation Procedures

HP Business Desktop PCs - [Updating the BIOS \(Basic Input Output System\)](#).

Labor Allowance

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Appendix A - BIOS update

Perform operation on all affected machines:

1. Turn on the computer, and then press F1 repeatedly until "Entering System information..." is displayed or the System Information menu appears
2. Go to the "Advanced" tab and Enable "Intel Management Engine (ME)"
3. After saving and exiting the BIOS wait for the computer to boot.

Note: If any errors like these appear after exiting the BIOS, they are expected and should be ignored:



HP Sure Start detected corruption in the Intel Management Engine firmware.

Select Continue to complete the full recovery process of the Intel Management Engine firmware.

Continue

10

Full Recovery of the Intel Management Engine Firmware failed, because the system was unable to find a valid firmware image file.

Intel Management Engine related functionality will be unavailable. Please install the latest version of Intel Management Engine firmware to complete full recovery.

Continue

4. Mount the "Astro Windows One-Time BIOS and Driver Updates" media.
5. Choose from the table your model of the affected machine.

Machine type	Patched BIOS Version to install	Bios Update file path
HP Z2 Mini G4	01.08.10 Rev. A	<iso_drive_letter>:/Bios Update/sp154208.exe
HP Z2 Mini G5	1.04.17 Rev. A	<iso_drive_letter>:/Bios Update/sp154234.exe
HP Z2 Mini G9	02.04.02 Rev. A	<iso_drive_letter>:/Bios Update/sp150345.exe
HP Zbook 15 G5	01.29.01 Rev. A	<iso_drive_letter>:/Bios Update/sp155311.exe
HP Zbook 15 G6	01.29.01 Rev. A	<iso_drive_letter>:/Bios Update/sp154775.exe
HP Zbook 15 G7*	01.18.01 Rev. A	<iso_drive_letter>:/Bios Update/sp154771.exe
HP Zbook 16 G10	01.04.00 Rev. A	<iso_drive_letter>:/Bios Update/sp151263.exe

* Do not update any drivers for **HP ZBook 15 G7**, due to open issue with HP pending resolution

6. Start the chosen .exe file and follow the on-screen instructions if any appear.

Note: Points 7 and 8 do not apply to HP Z2 mini G9, HP Zbook 15 G5, HP Zbook 15 G6, HP Zbook 15 G7 and HP Zbook 16 G10. In these models, the installation will start automatically after running the .exe file. In that case skip to step 9.

7. The files will be extracted to the folder specified during the installation process. Typically it is "c:\SWSetup\SPXXXXXX". Go to that location and open the "HPFWUPDREC" folder.

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8. Right-click on the "HpFirmwareUpdRec64.exe" file and run as an administrator.
 9. Select "Update the firmware on this device (restart required) and follow on-screen instructions. This utility may reboot the system a few times during the installation process.
 10. Verify if software has been updated, by checking the currently installed version again following the steps listed in the section [To verify the current BIOS version](#).
 11. Restart the computer, and then press F1 repeatedly until "Entering System information..." is displayed or the System Information menu appears.
 12. Go to the "Advanced" tab and Disable "Intel Management Engine (ME)".
 13. Exit the BIOS saving changes.

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Appendix B - Intel Chipset Software update

Perform operation on all affected machines:

1. Mount the "Astro Windows One-Time BIOS and Driver Updates" media.
2. Close all unnecessary applications.
3. Disable antivirus protection, depending on antivirus installed use following procedure:
 - Trellix/McAfee - Use procedure "Disabling or Enabling Protection on Clients from ePolicy Orchestrator" form [Core Security Management Server Feature Guide](#) (MN011044A01)
 - CortexXDR - Open a case with the SOC to disable antivirus protection. To do so, send an email to: Support@soc.activeeye.com
4. Choose from the table your model of the affected machine.

Machine type	Operating System Version	Firmware path
HP Z2 Mini G4	Windows 10 64-bit Enterprise LTSC 2019	<iso_drive_letter>:/Intel Chipset Software update/sp153365.exe
HP Z2 Mini G5	Windows 10 64-bit Enterprise LTSC 2019	<iso_drive_letter>:/Intel Chipset Software update/sp153363.exe
HP Z2 Mini G9	Windows 10 64-bit Enterprise LTSC 21H2	<iso_drive_letter>:/Intel Chipset Software update/sp153316.exe
HP Zbook 15 G5	Windows 10 64-bit Enterprise LTSC 2019	<iso_drive_letter>:/Intel Chipset Software update/sp148947.exe
HP Zbook 15 G6	Windows 10 64-bit Enterprise LTSC 2019	<iso_drive_letter>:/Intel Chipset Software update/sp148947.exe
HP Zbook 15 G7*	Windows 10 64-bit Enterprise LTSC 2019	<iso_drive_letter>:/Intel Chipset Software update/sp151647.exe
HP Zbook 16 G10	Windows 10 64-bit Enterprise LTSC 21H2	<iso_drive_letter>:/Intel Chipset Software update/sp150891.exe

* Do not update any drivers for **HP ZBook 15 G7**, due to open issue with HP pending resolution

5. Start the chosen .exe file and follow the on-screen instructions
6. **NOTE: During this update Touchpad can stop responding. Installation will continue in silent mode.** Wait 3 minutes and reboot operating system.
7. Verify if software has been updated, checking the currently installed version again following the steps listed in the section [To verify the current Intel Chipset software version](#).
8. Enable antivirus protection, depending on antivirus installed use following procedure:
 - Trellix/McAfee - Use procedure "Disabling or Enabling Protection on Clients from ePolicy Orchestrator" form [Core Security Management Server Feature Guide](#) (MN011044A01)
 - CortexXDR - Open a case with the SOC to enable antivirus protection. To do so, send an email to: Support@soc.activeeye.com

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Appendix C - Intel Dynamic Tuning Driver update

Perform operation on all affected machines:

1. Mount the "Astro Windows One-Time BIOS and Driver Updates" media.
2. Close all unnecessary applications.
3. Choose from the table your model of the affected machine.

Machine type	Professional	Firmware path
HP Zbook 15 G5	Windows 10 64-bit Enterprise LTSC 2019	<iso_drive_letter>:/Intel Dynamic Driver update/sp149502.exe
HP Zbook 15 G6	Windows 10 64-bit Enterprise LTSC 2019	<iso_drive_letter>:/Intel Dynamic Driver update/sp149502.exe
HP Zbook 15 G7*	Windows 10 64-bit Enterprise LTSC 2019	<iso_drive_letter>:/Intel Dynamic Driver update/sp149547.exe

* Do not update any drivers for **HP ZBook 15 G7**, due to open issue with HP pending resolution

4. Start the chosen .exe file and follow the on-screen instructions.
5. Reboot operating system.
6. Verify if software has been updated, checking the currently installed version again following the steps listed in the section [To verify the current Intel Dynamic Tuning Driver software version](#).

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Appendix D - NVIDIA Drivers update

Perform operation on all affected machines.

1. Mount the “Astro Windows One-Time BIOS and Driver Updates” media.
2. Choose from the table your model of the affected machine.

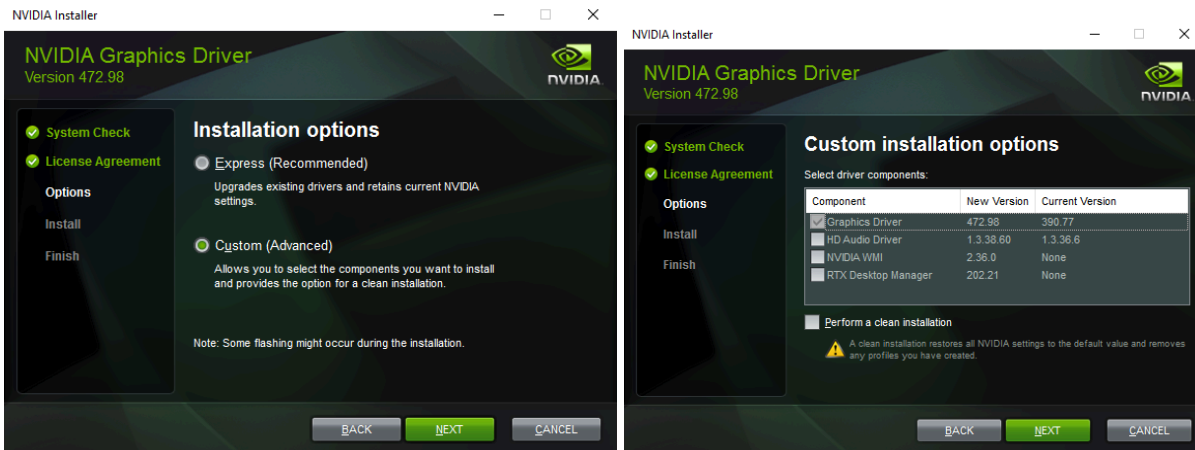
Machine type	Operating System Version	Firmware path
HP Z2 Mini G4	Windows 10 64-bit Enterprise LTSC 2019	<iso_drive_letter>:/nVidia Drivers update/sp137130.exe
HP Z2 Mini G5	Windows 10 64-bit Enterprise LTSC 2019	<iso_drive_letter>:/nVidia Drivers update/sp135999.exe
HP Zbook 15 G5	Windows 10 64-bit Enterprise LTSC 2019	<iso_drive_letter>:/nVidia Drivers update/sp153577.exe
HP Zbook 15 G6	Windows 10 64-bit Enterprise LTSC 2019	<iso_drive_letter>:/nVidia Drivers update/sp153568.exe
HP Zbook 15 G7*	Windows 10 64-bit Enterprise LTSC 2019	<iso_drive_letter>:/nVidia Drivers update/sp153568.exe

* Do not update any drivers for **HP ZBook 15 G7**, due to open issue with HP pending resolution

3. Close all unnecessary applications.
4. Start the chosen .exe file and follow the on-screen instructions. The installer can also perform silent installation.

Note: If installation begins in silent mode, wait 3 minutes and skip to step 7.

5. If a window appears, select the Custom (Advanced) installation option.
6. Then, uncheck all the checkboxes except for Graphics Driver and press NEXT button to proceed.



7. Reboot operating system.

NOTE: In the Event Viewer an error may appear, it is irrelevant, to be ignored

8. Verify if software has been updated, checking the currently installed version again following the steps listed in the section [To verify the current NVIDIA Graphics driver version.](#)

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Appendix E - Intel Dynamic Tuning Driver reinstallation process

Perform operation on all affected machines in case when Intel Dynamic Tuning Driver has been installed with the wrong software pack on the Z2 Mini G5 - sp153596 (8.7.10802.26924):

1. Verify if the wrong driver has been installed on the Z2 Mini G5 - If software has been updated, check the currently installed version again following the steps listed in the section [To verify the current Intel Dynamic Tuning Driver software version](#). If the version is different from 8.7.10200.12510 e.g. version 8.7.10802.26924 is in the driver tab, move to the point 2. If not, everything is as expected and reinstallation is not needed.
2. Mount the "Astro Windows One-Time BIOS and Driver Updates" media.
3. Close all unnecessary applications.
4. In the search bar type "Control Panel" and open it, inside of the opened window search for "Programs and Features" and open it
5. On the list find Intel(R) Dynamic Tuning, select it, start uninstall and follow the on-screen instructions.
6. Restart system when prompted (last step of uninstall)
7. From the ISO Choose from the table your model of the affected machine.

Machine type	Operating System Version	Firmware path
HP Z2 Mini G5	Windows 10 64-bit Enterprise LTSC 2019	<iso_drive_letter>:/Intel Dynamic Driver update/sp110214.exe

1. Start the chosen .exe file and follow the on-screen instructions. The installer can also perform silent installation. If software has been updated, check the currently installed version again following the steps listed in the section [To verify the current Intel Dynamic Tuning Driver software version](#).

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