

# Microsoft Windows HTTP Protocol Stack Remote Code Execution Vulnerability CVE-2022-21907 Cybersecurity Update

Atlas, HFA3, CIRRUS, CLARUS, PLEX



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# 1 About the Updates

The Microsoft Windows HTTP Protocol Stack Remote Code Execution vulnerability can potentially affect the Microsoft Windows 10 operating system (OS) by requiring no authentication before processing incoming HTTP requests in various system services and subsystems. A remote code-execution issue in the HTTP protocol stack stands out for researchers, given that it is wormable. It can self-propagate specially crafted packets through a network using the HTTP protocol stack (http.sys) to process packets.

ZEISS has assessed the impact of the vulnerability on ZEISS products running Microsoft Windows 10 operating system and the critical bugs do not affect the safety and performance on any of the ZEISS devices. ZEISS recommends updating devices with the Microsoft patch and/or registry settings, as applicable only on devices listed below.

## 1.1 ATLAS 9000

Link to download the update	Description	File Name
KB5005698	Servicing Stack update for 64 bit	windows10.0-kb5005698-x64_ff882b0a9dccc0c3f52673-ba3ecf4a2a3b2386ca.msu
KB5010359	Cumulative update for Windows 10 1607 64 bit	windows10.0-kb5010359-x64_f0b427c713754e50609ad0fa7054607a5d404f37.msu
KB4535680	Secure Boot Forbidden Signature Database (DBX) update for 64 bit	windows10.0-kb4535680-x64_980ed67d1aaeeb5b-b8a6b79e68438bd402865443.msu
KB890830	Malicious Software Removal tool for 64 bit	windows10.0-kb5005698-x64_ff882b0a9dccc0c3f52673-ba3ecf4a2a3b2386ca.msu
KB4346087	Intel Microcode update	windows10.0-kb4346087-v3-x64_d108fe2af745ebf98bf-b0548c905c07715492941.msu
KB5010460	Cumulative update for .NET 4.8 64 bit	windows10.0-kb5010460-x64-ndp48_7622c06684946ecdc-fab5854844a4621393bc13c.msu

## 1.2 CIRRUS 500/5000/6000

Link to download the update	Description	File Name
KB5005698	Servicing Stack update for 64 bit	windows10.0-kb5005698-x64_ff882b0a9dccc0c3f52673-ba3ecf4a2a3b2386ca.msu
KB5010359	Cumulative update for Windows 10 1607 64 bit	windows10.0-kb5010359-x64_f0b427c713754e50609ad0fa7054607a5d404f37.msu
KB4535680	Secure Boot Forbidden Signature Database (DBX) update for 64 bit	windows10.0-kb4535680-x64_980ed67d1aaeeb5b-b8a6b79e68438bd402865443.msu
KB890830	Malicious Software Removal tool for 64 bit	windows10.0-kb5005698-x64_ff882b0a9dccc0c3f52673-ba3ecf4a2a3b2386ca.msu
KB4346087	Intel Microcode update	windows10.0-kb4346087-v3-x64_d108fe2af745ebf98bf-b0548c905c07715492941.msu

## 1.3 CIRRUS Photo 600/800

Link to download the update	Description	File Name
KB5005698	Servicing Stack update for 64 bit	windows10.0-kb5005698-x64_ff882b0a9dccc0c3f52673-ba3ecf4a2a3b2386ca.msu
KB5010790	Cumulative update for Windows 10 1607 64 bit	windows10.0-kb5010790-x64_df441589ce8556d-c94d051df30be306266b25828.msu
KB4535680	Secure Boot Forbidden Signature Database (DBX) update for 64 bit	windows10.0-kb4535680-x64_980ed67d1aaeeb5b-b8a6b79e68438bd402865443.msu
KB890830	Malicious Software Removal tool for 64 bit	windows10.0-kb5005698-x64_ff882b0a9dccc0c3f52673-ba3ecf4a2a3b2386ca.msu
KB4346087	Intel Microcode update	windows10.0-kb4346087-v3-x64_d108fe2af745ebf98bf-b0548c905c07715492941.msu
KB5008877	Malicious Software Removal tool for 64 bit	windows10.0-kb5008877-x64-ndp48_df1e4f9dcd-b91ebe15d12466be0fd24f966390f7.msu



## 1.4 CLARUS 500/700

Link to download the update	Description	File Name
KB5005698	Servicing Stack update for 64 bit	windows10.0-kb5005698-x64_ff882b0a9dccc0c3f52673-ba3ecf4a2a3b2386ca.msu
KB5010359	Cumulative update for Windows 10 1607 64 bit	windows10.0-kb5010359-x64_f0b427c713754e50609ad0fa7054607a5d404f37.msu
KB4535680	Secure Boot Forbidden Signature Database (DBX) update for 64 bit	windows10.0-kb4535680-x64_980ed67d1aaeeb5b-b8a6b79e68438bd402865443.msu
KB890830	Malicious Software Removal tool for 64 bit	windows10.0-kb5005698-x64_ff882b0a9dccc0c3f52673-ba3ecf4a2a3b2386ca.msu
KB2565063 (32-bit)	Microsoft Visual C++ 2010 Service Pack 1 Redistributable Package MFC Security Update for 32 bit	vcredist_x86_28c54491be70c38c97849c3d8cfbfd-d0d3c515cb.exe
KB2565063 (64-bit)	Microsoft Visual C++ 2010 Service Pack 1 Redistributable Package MFC Security Update for 64 bit	vcredist_x64_15d032d669078aa6f0f7fd1cbf4115a070b-d034d.exe
KB2538243 (32-bit)	Microsoft Visual C++ 2008 Service Pack 1 Redistributable Package MFC Security Update for 32 bit	vcredist_x86_470640aa4bb7db8e69196b5ed-b0010933569e98d.exe

## 1.5 HFA3

Link to download the update	Description	File Name
KB5005698	Servicing Stack update for 64 bit	windows10.0-kb5005698-x64_ff882b0a9dccc0c3f52673-ba3ecf4a2a3b2386ca.msu
KB5010790	Cumulative update for Windows 10 1607 64 bit	windows10.0-kb5010790-x64_df441589ce8556d-c94d051df30be306266b25828.msu
KB4535680	Secure Boot Forbidden Signature Database (DBX) update for 64 bit	windows10.0-kb4535680-x64_980ed67d1aaeeb5b-b8a6b79e68438bd402865443.msu
KB890830	Malicious Software Removal tool for 64 bit	windows10.0-kb5005698-x64_ff882b0a9dccc0c3f52673-ba3ecf4a2a3b2386ca.msu
KB4346087	Intel Microcode update	windows10.0-kb4346087-v3-x64_d108fe2af745ebf98bf-b0548c905c07715492941.msu

### 1.6 PLEX Elite 9000

Link to download the update	Description	File Name
KB5005698	Servicing Stack update for 64 bit	windows10.0-kb5005698-x64_ff882b0a9dccc0c3f52673-ba3ecf4a2a3b2386ca.msu
KB5010359	Cumulative update for Windows 10 1607 64 bit	windows10.0-kb5010359-x64_f0b427c713754e50609ad0fa7054607a5d404f37.msu
KB4535680	Secure Boot Forbidden Signature Database (DBX) update for 64 bit	windows10.0-kb4535680-x64_980ed67d1aaeeb5b-b8a6b79e68438bd402865443.msu
KB890830	Malicious Software Removal tool for 64 bit	windows10.0-kb5005698-x64_ff882b0a9dccc0c3f52673-ba3ecf4a2a3b2386ca.msu
KB2538242 (32-bit)	Microsoft Visual C++ 2005 Service Pack 1 Redistributable Package MFC Security Update for 32 bit	vcredist_x86_b8fab0b-b7f62a24ddfe77b19cd9a1451abd7b847.exe
KB2538242 (64-bit)	Microsoft Visual C++ 2005 Service Pack 1 Redistributable Package MFC Security Update for 64 bit	vcredist_x64_ee916012783024-dac67fc606457377932c826f05.exe
KB5010460	Cumulative update for .NET 4.8 64 bit	windows10.0-kb5010460-x64-ndp48_7622c06684946ecdc-fab5854844a4621393bc13c.msu

## 2 Download and install the Windows 10 updates

The complete update process can take approximately 60 minutes to complete and that the device will not be operational during the process. Follow the steps in the order listed:

- Formatted and secure USB flash drive
  - A computer connected to the internet
1. Access the Microsoft Update catalog to download the respective patch updates.
  2. Copy the downloaded files to the USB flash drive.  
**NOTE! You can save the files directly to the USB flash drive if the browser is configured to support this. The download location may vary depending on the browser used.**
  3. Insert the USB flash drive into the USB port of the instrument.
  4. In the instrument, open File Explorer.

5. Navigate to the USB flash drive and locate `windows10.0-kb5005698-x64_ff882b0a9dccc0c3f52673-ba3ecf4a2a3b2386ca.msu`.
6. Double click the filename to install KB5005698.  
**NOTE! You must install this update before installing all other updates.**
7. After the installation process is complete, locate the next update.
8. Double click the respective \*.msu or \*.exe file to install the next update. If an error occurs during installation, ensure that the KB5005698 file has been installed.
9. Repeat till you have installed all required updates.
10. Restart the instrument.

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