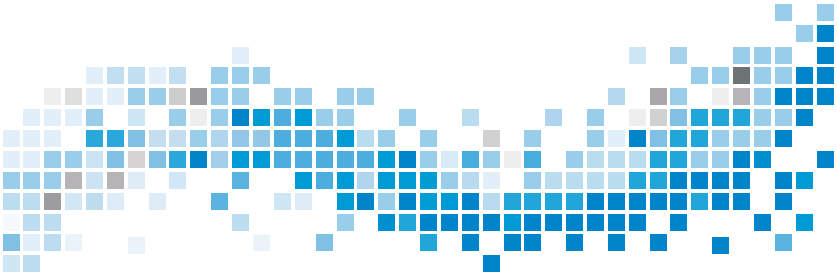
Microsoft Windows Print Spooler Vulnerability CVE-2021-34527

(“PrintNightmare“) Cybersecurity Update For Windows 10 OS



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1 About the Update

PrintNightmare is a vulnerability affecting Microsoft Windows operating systems (OS).

A remote code execution vulnerability exists when the Windows Print Spooler service improperly performs privileged file operations. An attacker who successfully exploited this vulnerability could run arbitrary code with SYSTEM privileges. An attacker could then install programs; view, change, or delete data; or create new accounts with full user rights.[1]

PrintNightmare does not affect safety and performance on any of the ZEISS devices.

However, ZEISS recommends updating devices with the Microsoft patch and/or registry settings, as applicable, to ensure continued cybersecurity. ZEISS has analyzed the impact of the vulnerability on ZEISS products running Windows OS and only devices listed below must run the update.

- PRIMUS 200 (serial number starting with 200-3XXXX and 200-5XXXX)

2 Download and install the Windows 10 updates

The following table provides the access location (download URL) and file names of the updates:

Update #	Description	File Name	Download URL
KB5001402	2021-04 Servicing Stack Update for Windows 10 Version 1607 for x64-based Systems	windows10.0-kb5001402-x64_0108fcc32c0594f8578c3787bab-b7d84e6363864.msu	http://download.window-supdate.com/d/msdownload/update/software/secu/2021/04/windows10.0-kb5001402-x64_0108fcc32c0594f8578c3787babb7d84e6363864.msu
KB5004948	2021-07 Cumulative Update for Windows 10 Version 1607 for x64-based Systems	windows10.0-kb5004948-x64_206b586ca8f1947f-dace0008ecd7c9-ca77fd6876.msu	http://download.window-supdate.com/d/msdownload/update/software/secu/2021/07/windows10.0-kb5004948-x64_206b586ca8f1947f-dace0008ecd7c9-ca77fd6876.msu

[1] Microsoft website: https://msrc.microsoft.com/update-guide/vulnerability/CVE-2021-34527

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 instrument's USB port.
4. In the instrument, open File Explorer.
5. Navigate to the USB flash drive and locate `windows10.0-kb5001402-x64_0108fcc32c0594f8578c3787bab-b7d84e6363864.msu`.
6. Double click the filename to install KB5001402.
   NOTE! You must install this update before installing KB5004948.
7. After the installation process is complete, locate `windows10.0-kb5004948-x64_206b586ca8f1947f-dace0008ecd7c9ca77fd6876.msu`.
8. Double click the filename to install KB5004948. If you see an error occur during installation, ensure that the KB5001402 file has been installed.
9. Restart the instrument.

3 Deactivate Point and Print in the Windows Registry

We recommend an IT administrator to perform this task.

Action

1. Login to the instrument.
2. In the search box on the taskbar, type `regedit`, then select Registry Editor.
3. Navigate to `HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows NT\Printers`.
4. If it exists, expand the Printers branch, and make sure that the PointandPrint group does not exist.
   NOTE! The Printers branch does not exist in the factory configuration.
   - ⇨ If the **PointandPrint** group exists, check the following settings, if it exists then set the value to 0 .
     `NoWarningNoElevationOnInstall = 0 or does`

```
not exist

UpdatePromptSettings = 0 or does not
exist
```

5. Restart the instrument.

Carl Zeiss Suzhou Co., Ltd.

Modern Industrial Square 3-B
No. 333 Xing Pu Road
Suzhou Industrial Park, Suzhou
China 215126
Phone: +86 512 6287 1388
Fax: +86 512 6287 1115

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