Notification

Fixed Vulnerabilities When Image Reading in NIS-Elements Viewer.

1．Overview

Vulnerabilities has been Fixed in NIS-Elements Viewer when reading image files.

2．How to check if your software affected:

The affected products and version are as follows:

Product name	Version
NIS-Elements Viewer	Ver.5.21.00 and earlier

To check your software's version, refer to the steps below:

Go to Menu and select [Help] > [About], The Version information dialog box will open.

3．Fixed Vulnerabilities

The following vulnerabilities has been fixed.

Vulnerability Category	Vulnerability Impact	CVE-ID	Affected Image Files
out-of-bounds read	execute malicious code	CVE-2022-40656	ND2 file
		CVE-2022-40662	TIFF file
		CVE-2022-40663	TIFF file
heap-based buffer overflow	execute malicious code	CVE-2022-40661	BMP file
		CVE-2022-40660	PSD file
		CVE-2022-40655	ND2 file
out-of-bounds write	execute malicious code	CVE-2022-40657	PSD file
		CVE-2022-40658	TIFF file
		CVE-2022-40659	TIFF file

4．Threats posed by the vulnerabilities

Opening an attacker-crafted image files may allow arbitrary code to be executed.

５．Countermeasure

The countermeasure is as follows:

Product name	Version
NIS-Elements Viewer	Update the software to Ver.5.22 or later.

Please download the software from the following URL:

[Europe and Asia Region]

https://www.microscope.healthcare.nikon.com/en_AOM/software-firmware

[Americas Region]

https://www.microscope.healthcare.nikon.com/products/software/nis-elements/viewer

6．How to reduce/avoid the threat

If you are unable to upgrade your product immediately, we recommend the following mitigation measures:

- Do not open untrusted files.

7．Contact information

Please contact your sales representative.

The information is current as of the date of publication. It is subject to change without notice.