

SICK PSIRT Security Advisory

SICK Security Advisory for Apache Log4j (CVE-2021-44228)

Document ID: SCA-2021-0003
Publication Date: 2021-12-17
CVSSv3 Base Score: 10.0 (CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:H/I:H/A:H)
CVE Identifier: CVE-2021-44228
Version: V6.0

SUMMARY

A critical remote code execution vulnerability impacting at least Apache Log4j 2 (versions 2.0 to 2.14.1) was recently announced by Apache. This vulnerability is designated by Mitre as CVE-2021-44228 with the highest severity rating of 10.0. The vulnerability is also known as Log4Shell by security researchers. If exploited, this vulnerability allows adversaries to potentially take full control of the impacted system.

Log4j 2 is a commonly used open source third party Java logging library used in software applications and services.

AFFECTED PRODUCTS

Product	Version	Remediation available
SICK FieldEcho	All versions prior to 1.5.3	Yes, update to newest version
SICK Function Block Factory	All versions prior to 1.4.1	Fixed – no customer action needed
SICK AppManager	All versions prior to 1.5.0	Yes, update to newest version
SICK FieldEcho Dashboard	All versions prior to 1.2.2	Yes, update to newest version
SICK AppStudio	All versions prior to 3.6.0	Yes, update to newest version

General Security Practices

As general security measures, SICK recommends to minimize network exposure of the devices, restrict network access and follow recommended security practices in order to run the devices in a protected IT environment.

Additional information on Industrial Security can be found at:
<http://ics-cert.us-cert.gov/content/recommended-practices>

VULNERABILITY CLASSIFICATION

SICK performs vulnerability classification by using the CVSS scoring system (CVSS v3.0). The environmental score is dependent on the customer's environment and can affect the overall CVSS score. SICK recommends that customers individually evaluate the environmental score to achieve final scoring.

RESOURCES

CVE Entry

<https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-44228>

Apache Security Advisory

<https://logging.apache.org/log4j/2.x/security.html>

SICK PSIRT Security Advisories

<https://sick.com/psirt>

SICK Operating Guidelines

https://cdn.sick.com/media/docs/1/11/411/Special_information_CYBERSECURITY_BY_SICK_en_IM0084411.PDF

HISTORY

Version	Release Date	Comment
V1.0	2021-12-14	Initial Release
V2.0	2021-12-16	Updated affected products
V3.0	2021-12-17	Updated affected versions
V4.0	2022-01-14	Updated affected products
V5.0	2022-01-19	Updated affected products
V6.0	2022-02-17	Updated affected products