

SSA-316850: Unauthenticated File Access in SICAM A8000 Devices

Publication Date: 2022-04-12
Last Update: 2022-04-12
Current Version: V1.0
CVSS v3.1 Base Score: 5.3

SUMMARY

SICAM A8000 CP-8050 and CP-8031 devices contain vulnerabilities that could allow an attacker to access files without authentication.

Siemens has released updates for the affected products and recommends to update to the latest versions.

AFFECTED PRODUCTS AND SOLUTION

Affected Product and Versions	Remediation
SICAM A8000 CP-8031 (6MF2803-1AA00): All versions < V4.80	Update to V4.80 or later version https://support.industry.siemens.com/cs/ww/en/view/109808338/
SICAM A8000 CP-8050 (6MF2805-0AA00): All versions < V4.80	Update to V4.80 or later version https://support.industry.siemens.com/cs/ww/en/view/109808338/

WORKAROUNDS AND MITIGATIONS

Product specific remediations or mitigations can be found in the section [Affected Products and Solution](#).

Please follow the [General Security Recommendations](#).

GENERAL SECURITY RECOMMENDATIONS

Operators of critical power systems (e.g. TSOs or DSOs) worldwide are usually required by regulations to build resilience into the power grids by applying multi-level redundant secondary protection schemes. It is therefore recommended that the operators check whether appropriate resilient protection measures are in place. The risk of cyber incidents impacting the grid's reliability can thus be minimized by virtue of the grid design.

Siemens strongly recommends applying the provided security updates using the corresponding tooling and documented procedures made available with the product. If supported by the product, an automated means to apply the security updates across multiple product instances may be used. Siemens strongly recommends prior validation of any security update before being applied, and supervision by trained staff of the update process in the target environment.

As a general security measure Siemens strongly recommends to protect network access with appropriate mechanisms (e.g. firewalls, segmentation, VPN). It is advised to configure the environment according to our operational guidelines in order to run the devices in a protected IT environment.

Recommended security guidelines can be found at:

<https://www.siemens.com/gridsecurity>

PRODUCT DESCRIPTION

The SICAM A8000 RTUs (Remote Terminal Units) series is a modular device range for telecontrol and automation applications in all areas of energy supply.

VULNERABILITY CLASSIFICATION

The vulnerability classification has been performed by using the CVSS scoring system in version 3.1 (CVSS v3.1) (<https://www.first.org/cvss/>). The CVSS environmental score is specific to the customer's environment and will impact the overall CVSS score. The environmental score should therefore be individually defined by the customer to accomplish final scoring.

An additional classification has been performed using the CWE classification, a community-developed list of common software security weaknesses. This serves as a common language and as a baseline for weakness identification, mitigation, and prevention efforts. A detailed list of CWE classes can be found at: <https://cwe.mitre.org/>.

Vulnerability CVE-2022-27480

Affected devices do not require an user to be authenticated to access certain files. This could allow unauthenticated attackers to download these files.

CVSS v3.1 Base Score	5.3
CVSS Vector	CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N/E:P/RL:O/RC:C
CWE	CWE-862: Missing Authorization

ACKNOWLEDGMENTS

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- Steffen Robertz, Gerhard Hechenberger, and Thomas Weber from SEC Consult Vulnerability Lab for coordinated disclosure of the vulnerability

ADDITIONAL INFORMATION

For further inquiries on security vulnerabilities in Siemens products and solutions, please contact the Siemens ProductCERT:

<https://www.siemens.com/cert/advisories>

HISTORY DATA

V1.0 (2022-04-12): Publication Date

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