

SSA-817401: Missing Authentication Vulnerability in SIEMENS LOGO!

Publication Date: 2020-06-09
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Current Version: V1.0
CVSS v3.1 Base Score: 9.4

SUMMARY

A missing authentication vulnerability has been identified in SIEMENS LOGO!8 BM devices. The vulnerability could lead to an attacker reading and modifying the device configuration and obtain project files from the devices if the attacker has access to port 135/tcp.

AFFECTED PRODUCTS AND SOLUTION

Affected Product and Versions	Remediation
LOGO!8 BM (incl. SIPLUS variants): All versions	See recommendations from section Workarounds and Mitigations

WORKAROUNDS AND MITIGATIONS

Siemens has identified the following specific workarounds and mitigations that customers can apply to reduce the risk:

- Apply Defense-in-Depth concept, including protection concept outlined in the system manual.

GENERAL SECURITY RECOMMENDATIONS

As a general security measure, Siemens strongly recommends to protect network access to devices with appropriate mechanisms. In order to operate the devices in a protected IT environment, Siemens recommends to configure the environment according to Siemens' operational guidelines for Industrial Security (Download: <https://www.siemens.com/cert/operational-guidelines-industrial-security>), and to follow the recommendations in the product manuals.

Additional information on Industrial Security by Siemens can be found at: <https://www.siemens.com/industrialsecurity>

PRODUCT DESCRIPTION

Siemens LOGO! devices are used for basic small-scale automation tasks.

SIPLUS extreme products are designed for reliable operation under extreme conditions and are based on SIMATIC, LOGO!, SITOP, SINAMICS, SIMOTION, SCALANCE or other devices. SIPLUS devices use the same firmware as the product they are based on.

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-2020-7589

The vulnerability could lead to an attacker reading and modifying the device configuration and obtain project files from affected devices.

The security vulnerability could be exploited by an unauthenticated attacker with network access to port 135/tcp. No user interaction is required to exploit this security vulnerability. The vulnerability impacts confidentiality, integrity, and availability of the device.

At the time of advisory publication no public exploitation of this security vulnerability was known.

CVSS v3.1 Base Score	9.4
CVSS Vector	CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:L/E:F/RL:U/RC:C
CWE	CWE-306: Missing Authentication for Critical Function

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- Alexander Perez-Palma from Cisco Talos for coordinated disclosure
- Emanuel Almeida from Cisco Systems for coordinated disclosure

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 (2020-06-09): Publication Date

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