

SSA-507847: Cross-Site Request Forgery Vulnerability in SIMATIC S7-1200 CPU Family Version 4

Publication Date: 2018-10-09
Last Update: 2018-10-09
Current Version: V1.0
CVSS v3.0 Base Score: 7.5

SUMMARY

The latest firmware update for S7-1200 CPU family version 4 fixes a Cross-Site Request Forgery vulnerability. Siemens recommends to update affected devices as soon as possible.

AFFECTED PRODUCTS AND SOLUTION

Affected Product and Versions	Remediation
SIMATIC S7-1200 CPU family version 4: All versions < V4.2.3	Update to V4.2.3 https://support.industry.siemens.com/cs/us/en/view/109741461

WORKAROUNDS AND MITIGATIONS

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

- Do not visit other websites while being authenticated against the PLC.

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

Products of the SIMATIC S7-1200 CPU family have been designed for discrete and continuous control in industrial environments such as manufacturing, food and beverages, and chemical industries worldwide.

VULNERABILITY CLASSIFICATION

The vulnerability classification has been performed by using the CVSS scoring system in version 3.0 (CVSS v3.0) (<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.

Vulnerability CVE-2018-13800

The web interface could allow a Cross-Site Request Forgery (CSRF) attack if an unsuspecting user is tricked into accessing a malicious link.

Successful exploitation requires user interaction by a legitimate user, who must be authenticated to the web interface. A successful attack could allow an attacker to trigger actions via the web interface that the legitimate user is allowed to perform. This could allow the attacker to read or modify parts of the device configuration.

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

CVSS v3.0 Base Score 7.5

CVSS Vector CVSS:3.0/AV:N/AC:H/PR:N/UI:R/S:U/C:H/I:H/A:H/E:P/RL:O/RC:C

ACKNOWLEDGMENTS

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- Lisa Fournet and Marl Joos from P3 communications GmbH 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 (2018-10-09): Publication Date

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