# SSA-535997: Cleartext Storage of Sensitive Information in Multiple SIMATIC Products

Publication Date: 2021-09-14 Last Update: 2022-06-14 Current Version: V1.1

CVSS v3.1 Base Score: 6.5

### **SUMMARY**

A cleartext vulnerability was found in the SIMATIC communication processors CP 1543-1 and CP 1545-1 that could allow an attacker to read sensitive information.

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
SIMATIC CP 1543-1 (incl. SIPLUS variants): All versions < V3.0	Update to V3.0 or later version and migrate the TIA Portal engineering project to V17. After migrating the project successfully, compilation and download to the device is required. https://support.industry.siemens.com/cs/ww/en/view/109800773/
SIMATIC CP 1545-1 (6GK7545-1GX00-0XE0): All versions < V1.1	Update to V1.1 or later version https://support.industry.siemens.com/cs/ww/en/ view/109811116/

### **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**

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: <a href="https://www.siemens.com/cert/operational-guidelines-industrial-security">https://www.siemens.com/cert/operational-guidelines-industrial-security</a>), 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

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.

The SIMATIC CP 1543-1 and SIMATIC CP 1545-1 communication processor connects the S7-1500 controller to Ethernet networks. It provides integrated security functions such as firewall, Virtual Private Networks (VPN) and support of other protocols with data encryption. The communication processor protects S7-1500 stations against unauthorized access, as well as integrity and confidentiality of transmitted data.

### **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: <a href="https://cwe.mitre.org/">https://cwe.mitre.org/</a>.

Vulnerability CVE-2021-33716

An attacker with access to the subnet of the affected device could retrieve sensitive information stored in cleartext.

CVSS v3.1 Base Score 6.5

CVSS Vector CVSS:3.1/AV:A/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N/E:P/RL:O/RC:C

CWE CWE-312: Cleartext Storage of Sensitive Information

### **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 (2021-09-14): Publication Date

V1.1 (2022-06-14): Added fix for SIMATIC CP 1545-1

### **TERMS OF USE**

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