

## SSA-617755: Denial of Service Vulnerability in the SNMP Agent of SCALANCE X-200IRT Products

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 Current Version: V1.0  
 CVSS v3.1 Base Score: 7.5

### SUMMARY

Products of the SCALANCE X-200IRT switch family are affected by a denial of service vulnerability in the SNMP agent that could allow remote attackers to cause a denial of service condition.

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
SCALANCE X200-4P IRT (6GK5200-4AH00-2BA3): All versions < V5.5.0	Update to V5.5.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109792534/">https://support.industry.siemens.com/cs/ww/en/view/109792534/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X201-3P IRT (6GK5201-3BH00-2BA3): All versions < V5.5.0	Update to V5.5.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109792534/">https://support.industry.siemens.com/cs/ww/en/view/109792534/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X201-3P IRT PRO (6GK5201-3JR00-2BA6): All versions < V5.5.0	Update to V5.5.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109792534/">https://support.industry.siemens.com/cs/ww/en/view/109792534/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X202-2IRT (6GK5202-2BB00-2BA3): All versions < V5.5.0	Update to V5.5.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109792534/">https://support.industry.siemens.com/cs/ww/en/view/109792534/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X202-2P IRT (6GK5202-2BH00-2BA3): All versions < V5.5.0	Update to V5.5.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109792534/">https://support.industry.siemens.com/cs/ww/en/view/109792534/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X202-2P IRT PRO (6GK5202-2JR00-2BA6): All versions < V5.5.0	Update to V5.5.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109792534/">https://support.industry.siemens.com/cs/ww/en/view/109792534/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>

SCALANCE X204IRT (6GK5204-0BA00-2BA3): All versions < V5.5.0	Update to V5.5.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109792534/">https://support.industry.siemens.com/cs/ww/en/view/109792534/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X204IRT PRO (6GK5204-0JA00-2BA6): All versions < V5.5.0	Update to V5.5.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109792534/">https://support.industry.siemens.com/cs/ww/en/view/109792534/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XF201-3P IRT (6GK5201-3BH00-2BD2): All versions < V5.5.0	Update to V5.5.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109792534/">https://support.industry.siemens.com/cs/ww/en/view/109792534/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XF202-2P IRT (6GK5202-2BH00-2BD2): All versions < V5.5.0	Update to V5.5.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109792534/">https://support.industry.siemens.com/cs/ww/en/view/109792534/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XF204-2BA IRT (6GK5204-2AA00-2BD2): All versions < V5.5.0	Update to V5.5.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109792534/">https://support.industry.siemens.com/cs/ww/en/view/109792534/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XF204IRT (6GK5204-0BA00-2BF2): All versions < V5.5.0	Update to V5.5.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109792534/">https://support.industry.siemens.com/cs/ww/en/view/109792534/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SIPLUS NET SCALANCE X202-2P IRT (6AG1202-2BH00-2BA3): All versions < V5.5.0	Update to V5.5.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109792534/">https://support.industry.siemens.com/cs/ww/en/view/109792534/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>

## WORKAROUNDS AND MITIGATIONS

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

- Disable the SNMP service if possible and supported by the product

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: <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**

SCALANCE X switches are used to connect industrial components like Programmable Logic Controllers (PLCs) or Human Machine Interfaces (HMIs).

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-2007-5846**

The SNMP agent (snmp\_agent.c) in net-snmp before 5.4.1 allows remote attackers to cause a denial of service (CPU and memory consumption) via a GETBULK request with a large max-repeaters value.

CVSS v3.1 Base Score	7.5
CVSS Vector	<a href="#">CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H/E:P/RL:O/RC:C</a>
CWE	CWE-20: Improper Input Validation

## **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 (2023-02-14): Publication Date

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