

## SSA-501891: Cross-Site Scripting Vulnerability in SCALANCE X-200 and X-200IRT Families

Publication Date: 2022-10-11  
 Last Update: 2022-10-11  
 Current Version: V1.0  
 CVSS v3.1 Base Score: 7.3

### SUMMARY

There is a cross-site scripting vulnerability that affects the SCALANCE switches. This vulnerability if used by a threat actor could result in the stealing of session cookies and session hijacking.

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>
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>
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>
SCALANCE X202-2IRT (6GK5202-2BB10-2BA3): 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>
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>
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>
SCALANCE X204-2 (6GK5204-2BB10-2AA3): All versions < V5.2.5	Update to V5.2.5 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109801131/">https://support.industry.siemens.com/cs/ww/en/view/109801131/</a>
SCALANCE X204-2FM (6GK5204-2BB11-2AA3): All versions < V5.2.5	Update to V5.2.5 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109801131/">https://support.industry.siemens.com/cs/ww/en/view/109801131/</a>

SCALANCE X204-2LD (6GK5204-2BC10-2AA3): All versions < V5.2.5	Update to V5.2.5 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109801131/">https://support.industry.siemens.com/cs/ww/en/view/109801131/</a>
SCALANCE X204-2LD TS (6GK5204-2BC10-2CA2): All versions < V5.2.5	Update to V5.2.5 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109801131/">https://support.industry.siemens.com/cs/ww/en/view/109801131/</a>
SCALANCE X204-2TS (6GK5204-2BB10-2CA2): All versions < V5.2.5	Update to V5.2.5 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109801131/">https://support.industry.siemens.com/cs/ww/en/view/109801131/</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>
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>
SCALANCE X206-1 (6GK5206-1BB10-2AA3): All versions < V5.2.5	Update to V5.2.5 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109801131/">https://support.industry.siemens.com/cs/ww/en/view/109801131/</a>
SCALANCE X206-1LD (6GK5206-1BC10-2AA3): All versions < V5.2.5	Update to V5.2.5 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109801131/">https://support.industry.siemens.com/cs/ww/en/view/109801131/</a>
SCALANCE X208 (6GK5208-0BA10-2AA3): All versions < V5.2.5	Update to V5.2.5 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109801131/">https://support.industry.siemens.com/cs/ww/en/view/109801131/</a>
SCALANCE X208PRO (6GK5208-0HA10-2AA6): All versions < V5.2.5	Update to V5.2.5 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109801131/">https://support.industry.siemens.com/cs/ww/en/view/109801131/</a>
SCALANCE X212-2 (6GK5212-2BB00-2AA3): All versions < V5.2.5	Update to V5.2.5 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109801131/">https://support.industry.siemens.com/cs/ww/en/view/109801131/</a>
SCALANCE X212-2LD (6GK5212-2BC00-2AA3): All versions < V5.2.5	Update to V5.2.5 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109801131/">https://support.industry.siemens.com/cs/ww/en/view/109801131/</a>
SCALANCE X216 (6GK5216-0BA00-2AA3): All versions < V5.2.5	Update to V5.2.5 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109801131/">https://support.industry.siemens.com/cs/ww/en/view/109801131/</a>

SCALANCE X224 (6GK5224-0BA00-2AA3): All versions < V5.2.5	Update to V5.2.5 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109801131/">https://support.industry.siemens.com/cs/ww/en/view/109801131/</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>
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>
SCALANCE XF204 (6GK5204-0BA00-2AF2): All versions < V5.2.5	Update to V5.2.5 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109801131/">https://support.industry.siemens.com/cs/ww/en/view/109801131/</a>
SCALANCE XF204-2 (6GK5204-2BC00-2AF2): All versions < V5.2.5	Update to V5.2.5 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109801131/">https://support.industry.siemens.com/cs/ww/en/view/109801131/</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>
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>
SCALANCE XF206-1 (6GK5206-1BC00-2AF2): All versions < V5.2.5	Update to V5.2.5 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109801131/">https://support.industry.siemens.com/cs/ww/en/view/109801131/</a>
SCALANCE XF208 (6GK5208-0BA00-2AF2): All versions < V5.2.5	Update to V5.2.5 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109801131/">https://support.industry.siemens.com/cs/ww/en/view/109801131/</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>

## 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: <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-2022-40631**

There is a cross-site scripting vulnerability on the affected devices, that if used by a threat actor, it could result in session hijacking.

CVSS v3.1 Base Score	7.3
CVSS Vector	<a href="#">CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:L/A:L/E:P/RL:O/RC:C</a>
CWE	CWE-79: Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting')

## **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 (2022-10-11): Publication Date

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