# SSA-560465: DHCP Client Vulnerability in VxWorks-based Industrial Products

Publication Date: 2021-07-13 Last Update: 2022-05-10 Current Version: V1.2 CVSS v3.1 Base Score: 9.8

# **SUMMARY**

Various industry products are affected by a DHCP client vulnerability in Wind River VxWorks, that could allow an attacker to cause a heap-based buffer overflow.

Siemens has released updates for several affected products and recommends to update to the latest versions. Siemens recommends specific countermeasures for products where updates are not, or not yet available.

# AFFECTED PRODUCTS AND SOLUTION

Affected Product and Versions	Remediation
RUGGEDCOM WIN5100 series subscriber unit: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
RUGGEDCOM WIN5200 series subscriber unit: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X200-4P IRT (6GK5200-4AH00-2BA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X201-3P IRT (6GK5201-3BH00-2BA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X201-3P IRT PRO (6GK5201-3BH00-2BD2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X202-2IRT (6GK5202-2BB00-2BA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X202-2P IRT (6GK5202-2BH00-2BA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X202-2P IRT PRO (6GK5202-2JR00-2BA6): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations

SCALANCE X204-2 (6GK5204-2BB10-2AA3): All versions  SCALANCE X204-2FM (6GK5204-2BB11-2AA3): All versions  SCALANCE X204-2LD (6GK5204-2BC10-2AA3): All versions  SCALANCE X204-2LD TS (6GK5204-2BC10-2CA2): All versions  SCALANCE X204-2LD TS (6GK5204-2BC10-2CA2): All versions  SCALANCE X204-2TS (6GK5204-2BB10-2CA2): All versions  SCALANCE X204-2TS (6GK5204-2BB10-2CA2): All versions  SCALANCE X204-2TS (6GK5204-2BB10-2CA2): All versions  SCALANCE X204-1 PRO (6GK5204-2BB10-2CA2): All versions  SCALANCE X204-1 PRO (6GK5204-0BA00-2BA3): All versions  SCALANCE X204-1 PRO (6GK5204-0BA00-2BA3): All versions  SCALANCE X204-1 (6GK5204-0BA00-2BA3): All versions  SCALANCE X206-1 (6GK5206-1BB10-2AA3): All versions  SCALANCE X206-1 (6GK5206-1BB10-2AA3): All versions  SCALANCE X206-1 (6GK5208-0BA10-2AA3): All versions  SCALANCE X208-1 (6GK5208-0BA10-2AA3): All versions  SCALANCE X212-2 (6GK5212-2B00-2AA3): All versions  SCALANCE X216 (6GK5216-0BA00-2AA3): All versions		
SCALANCE X204-2LD (6GK5204-2BC10- All versions  SCALANCE X204-2LD TS (6GK5204-2BC10- CA22): All versions  SCALANCE X204-2LD TS (6GK5204-2BC10- CA22): All versions  SCALANCE X204-2TS (6GK5204-2BB10- CA22): All versions  SCALANCE X204-2TS (6GK5204-2BB10- CA22): All versions  SCALANCE X204-2TS (6GK5204-2BA10- CA22): All versions  SCALANCE X204-2TS (6GK5204-2BA10- CA22): All versions  SCALANCE X204IRT (6GK5204-0BA00-2BA3): All versions  SCALANCE X204IRT PRO (6GK5204-0JA00- CBA6): All versions  SCALANCE X204IRT PRO (6GK5204-0JA00- CBA6): All versions  SCALANCE X206-1 (6GK5206-1BB10-2AA3): All versions  SCALANCE X206-1 (6GK5206-1BB10-2AA3): All versions  SCALANCE X208 (6GK5208-0BA10-2AA3): All versions  SCALANCE X208 (6GK5208-0BA10-2AA3): All versions  SCALANCE X208 (6GK5208-0BA10-2AA3): All versions  SCALANCE X212-2 (6GK5212-2BB00-2AA3): All versions  SCALANCE X216 (6GK5216-0BA00-2AA3): All versions  SCALANCE X216 (6GK5216-0BA00-2AA3): All versions  SCALANCE X216 (6GK5224-0BA00-2AA3): All versions  SCALANCE X224 (8GK5224-0BA00-2AA3): All versions	· · · · · · · · · · · · · · · · · · ·	See recommendations from section Workarounds
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SCALANCE X206-1LD (6GK5206-1BC10- 2AA3): All versions  SCALANCE X208 (6GK5208-0BA10-2AA3): All versions  SCALANCE X208 (6GK5208-0BA10-2AA3): All versions  SCALANCE X208 (6GK5208-0BA10-2AA3): Currently no fix is planned See recommendations from section Workarounds and Mitigations  SCALANCE X208 (6GK5208-0HA10- 2AA6): All versions  SCALANCE X212-2 (6GK5212-2BB00-2AA3): All versions  SCALANCE X212-2 (6GK5212-2BB00-2AA3): All versions  SCALANCE X212-2LD (6GK5212-2BC00- 2AA3): All versions  SCALANCE X216 (6GK5216-0BA00-2AA3): All versions  SCALANCE X216 (6GK5216-0BA00-2AA3): All versions  SCALANCE X216 (6GK5216-0BA00-2AA3): Currently no fix is planned See recommendations from section Workarounds and Mitigations  SCALANCE X216 (6GK5216-0BA00-2AA3): All versions  Currently no fix is planned See recommendations from section Workarounds and Mitigations  Currently no fix is planned See recommendations from section Workarounds and Mitigations  Currently no fix is planned See recommendations from section Workarounds and Mitigations  Currently no fix is planned See recommendations from section Workarounds and Mitigations  Currently no fix is planned See recommendations from section Workarounds and Mitigations  Currently no fix is planned See recommendations from section Workarounds and Mitigations	2BA6):	See recommendations from section Workarounds
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SCALANCE X208PRO (6GK5208-0HA10- 2AA6): All versions  SCALANCE X212-2 (6GK5212-2BB00-2AA3): All versions  SCALANCE X212-2 (6GK5212-2BB00-2AA3): All versions  SCALANCE X212-2LD (6GK5212-2BC00- 2AA3): All versions  SCALANCE X212-6 (6GK5212-2BC00- 2AA3): All versions  SCALANCE X216 (6GK5216-0BA00-2AA3): All versions  SCALANCE X216 (6GK5216-0BA00-2AA3): All versions  SCALANCE X224 (6GK5224-0BA00-2AA3): All versions	2AA3):	See recommendations from section Workarounds
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2AA3): All versions  See recommendations from section Workarounds and Mitigations  Currently no fix is planned See recommendations from section Workarounds and Mitigations  SCALANCE X224 (6GK5224-0BA00-2AA3): All versions  Currently no fix is planned See recommendations from section Workarounds SCALANCE X224 (6GK5224-0BA00-2AA3): All versions		See recommendations from section Workarounds
All versions  See recommendations from section Workarounds and Mitigations  SCALANCE X224 (6GK5224-0BA00-2AA3): All versions  Currently no fix is planned See recommendations from section Workarounds	2AA3):	See recommendations from section Workarounds
All versions See recommendations from section Workarounds		See recommendations from section Workarounds
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SCALANCE X302-7 EEC (2x 24V) (6GK5302-7GD00-2EA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X302-7 EEC (2x 24V, coated) (6GK5302-7GD00-2GA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X302-7 EEC (2x 230V) (6GK5302-7GD00-4EA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X302-7 EEC (2x 230V, coated) (6GK5302-7GD00-4GA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X302-7 EEC (24V) (6GK5302-7GD00-1EA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X302-7 EEC (24V, coated) (6GK5302-7GD00-1GA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X302-7 EEC (230V) (6GK5302-7GD00-3EA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X302-7 EEC (230V, coated) (6GK5302-7GD00-3GA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X304-2FE (6GK5304-2BD00-2AA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X306-1LD FE (6GK5306-1BF00-2AA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X307-2 EEC (2x 24V) (6GK5307-2FD00-2EA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X307-2 EEC (2x 24V, coated) (6GK5307-2FD00-2GA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X307-2 EEC (2x 230V) (6GK5307-2FD00-4EA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations

SCALANCE X307-2 EEC (2x 230V, coated) (6GK5307-2FD00-4GA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X307-2 EEC (24V) (6GK5307-2FD00-1EA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X307-2 EEC (24V, coated) (6GK5307-2FD00-1GA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X307-2 EEC (230V) (6GK5307-2FD00-3EA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X307-2 EEC (230V, coated) (6GK5307-2FD00-3GA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X307-3 (6GK5307-3BL00-2AA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X307-3 (6GK5307-3BL10-2AA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X307-3LD (6GK5307-3BM00-2AA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X307-3LD (6GK5307-3BM10-2AA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X308-2 (6GK5308-2FL00-2AA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X308-2 (6GK5308-2FL10-2AA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X308-2LD (6GK5308-2FM00-2AA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X308-2LD (6GK5308-2FM10-2AA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X308-2LH (6GK5308-2FN00-2AA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations

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SCALANCE X320-1-2LD FE (6GK5320-3BF00-2AA3): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE X408-2 (6GK5408-2FD00-2AA2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XF201-3P IRT (6GK5201-3JR00-2BA6): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XF202-2P IRT (6GK5202-2BH00-2BD2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XF204 (6GK5204-0BA00-2AF2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XF204-2 (6GK5204-2BC00-2AF2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XF204-2BA IRT (6GK5204-2AA00-2BD2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XF204IRT (6GK5204-0BA00- 2BF2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XF206-1 (6GK5206-1BC00-2AF2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XF208 (6GK5208-0BA00-2AF2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XR324-4M EEC (2x 24V, ports on front) (6GK5324-4GG00-2ER2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XR324-4M EEC (2x 24V, ports on front) (6GK5324-4GG10-2ER2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XR324-4M EEC (2x 24V, ports on rear) (6GK5324-4GG00-2JR2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XR324-4M EEC (2x 24V, ports on rear) (6GK5324-4GG10-2JR2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations

SCALANCE XR324-4M EEC (2x 100-240VAC/60-250VDC, ports on front) (6GK5324-4GG00-4ER2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XR324-4M EEC (2x 100-240VAC/60-250VDC, ports on front) (6GK5324-4GG10-4ER2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XR324-4M EEC (2x 100-240VAC/60-250VDC, ports on rear) (6GK5324-4GG00-4JR2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XR324-4M EEC (2x 100-240VAC/60-250VDC, ports on rear) (6GK5324-4GG10-4JR2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XR324-4M EEC (24V, ports on front) (6GK5324-4GG00-1ER2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XR324-4M EEC (24V, ports on front) (6GK5324-4GG10-1ER2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XR324-4M EEC (24V, ports on rear) (6GK5324-4GG00-1JR2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XR324-4M EEC (24V, ports on rear) (6GK5324-4GG10-1JR2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XR324-4M EEC (100-240VAC/60-250VDC, ports on front) (6GK5324-4GG00-3ER2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XR324-4M EEC (100-240VAC/60-250VDC, ports on front) (6GK5324-4GG10-3ER2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XR324-4M EEC (100-240VAC/60-250VDC, ports on rear) (6GK5324-4GG00-3JR2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XR324-4M EEC (100-240VAC/60-250VDC, ports on rear) (6GK5324-4GG10-3JR2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations

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SCALANCE XR324-12M TS (24V) (6GK5324-0GG00-1CR2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SCALANCE XR324-12M TS (24V) (6GK5324-0GG10-1CR2): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SIMATIC RF180C (6GT2002-0JD00): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SIMATIC RF182C (6GT2002-0JD10): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SIMATIC RFID 181EIP (6GT2002-0JD20): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SIPLUS NET SCALANCE X308-2 (6AG1308-2FL10-4AA3): All versions	Currently no fix is planned 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:

- · Avoid the use of the DHCP client if unnecessary to your environment.
- · If the DHCP client is enabled, it is recommended to disable it.

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**

RUGGEDCOM WIN products are used as base stations or subscriber units in wide area private wireless networks. The products are compliant to the IEEE 802.16e standard and can be operated in harsh environments.

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

SIMATIC RF181EIP

SIMATIC RF182C is an RFID communication module for direct connection of SIMATIC identification systems to Ethernet/IP. SIMATIC RF182C is superseded by the SIMATIC RF18xC devices (RF185C, RF186C, RF188C).

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

Vulnerability CVE-2021-29998

There is a DHCP vulnerability in Wind River VxWorks, for versions prior to 6.5. The vulnerability could cause a possible heap overflow if exploited.

CVSS v3.1 Base Score 9.8

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

CWE -122: Heap-based Buffer Overflow

## **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 (2021-07-13): Publication Date

V1.1 (2022-04-12): Clarified that no remediation is planned for some products; Clarified product

names; Added SIMATIC RF180C; Added solution for SCALANCE X-300/X408

family

V1.2 (2022-05-10): ERRATA: Removed solution for SCALANCE X-300/X408 family

## TERMS OF USE

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