

## SSA-676336: OpenSSH Vulnerabilities in SCALANCE X-200 and X-300/X408 Switches

Publication Date: 2021-09-14  
Last Update: 2023-04-11  
Current Version: V1.2  
CVSS v3.1 Base Score: 7.5

### SUMMARY

The latest update of the SCALANCE X-200 and X-300/X408 switches families fixes multiple OpenSSH vulnerabilities. The most severe of these vulnerabilities could allow a denial of service condition.

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

### AFFECTED PRODUCTS AND SOLUTION

Affected Product and Versions	Remediation
SCALANCE X200-4P IRT (6GK5200-4AH00-2BA3): All versions < V5.5.2	Update to V5.5.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817790/">https://support.industry.siemens.com/cs/ww/en/view/109817790/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X201-3P IRT (6GK5201-3BH00-2BA3): All versions < V5.5.2	Update to V5.5.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817790/">https://support.industry.siemens.com/cs/ww/en/view/109817790/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X201-3P IRT PRO (6GK5201-3JR00-2BA6): All versions < V5.5.2	Update to V5.5.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817790/">https://support.industry.siemens.com/cs/ww/en/view/109817790/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X202-2IRT (6GK5202-2BB00-2BA3): All versions < V5.5.2	Update to V5.5.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817790/">https://support.industry.siemens.com/cs/ww/en/view/109817790/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X202-2P IRT (6GK5202-2BH00-2BA3): All versions < V5.5.2	Update to V5.5.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817790/">https://support.industry.siemens.com/cs/ww/en/view/109817790/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X202-2P IRT PRO (6GK5202-2JR00-2BA6): All versions < V5.5.2	Update to V5.5.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817790/">https://support.industry.siemens.com/cs/ww/en/view/109817790/</a> See recommendations from section <a href="#">Workarounds and Mitigations</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> See further recommendations from section <a href="#">Workarounds and Mitigations</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> See further recommendations from section <a href="#">Workarounds and Mitigations</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> See further recommendations from section <a href="#">Workarounds and Mitigations</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> See further recommendations from section <a href="#">Workarounds and Mitigations</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> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X204IRT (6GK5204-0BA00-2BA3): All versions < V5.5.2	Update to V5.5.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817790/">https://support.industry.siemens.com/cs/ww/en/view/109817790/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X204IRT PRO (6GK5204-0JA00-2BA6): All versions < V5.5.2	Update to V5.5.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817790/">https://support.industry.siemens.com/cs/ww/en/view/109817790/</a> See recommendations from section <a href="#">Workarounds and Mitigations</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> See further recommendations from section <a href="#">Workarounds and Mitigations</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> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X208 (incl. SIPLUS NET variant): 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> See further recommendations from section <a href="#">Workarounds and Mitigations</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> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X212-2 (incl. SIPLUS NET variant): 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> See further recommendations from section <a href="#">Workarounds and Mitigations</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> See further recommendations from section <a href="#">Workarounds and Mitigations</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> See further recommendations from section <a href="#">Workarounds and Mitigations</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> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X302-7 EEC (2x 24V) (6GK5302-7GD00-2EA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X302-7 EEC (2x 24V, coated) (6GK5302-7GD00-2GA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X302-7 EEC (2x 230V) (6GK5302-7GD00-4EA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X302-7 EEC (2x 230V, coated) (6GK5302-7GD00-4GA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X302-7 EEC (24V) (6GK5302-7GD00-1EA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>

SCALANCE X302-7 EEC (24V, coated) (6GK5302-7GD00-1GA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X302-7 EEC (230V) (6GK5302-7GD00-3EA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X302-7 EEC (230V, coated) (6GK5302-7GD00-3GA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X304-2FE (6GK5304-2BD00-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X306-1LD FE (6GK5306-1BF00-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X307-2 EEC (2x 24V) (6GK5307-2FD00-2EA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X307-2 EEC (2x 24V, coated) (6GK5307-2FD00-2GA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X307-2 EEC (2x 230V) (6GK5307-2FD00-4EA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
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SCALANCE X307-2 EEC (230V, coated) (6GK5307-2FD00-3GA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X307-3 (6GK5307-3BL00-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X307-3 (6GK5307-3BL10-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X307-3LD (6GK5307-3BM00-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X307-3LD (6GK5307-3BM10-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X308-2 (6GK5308-2FL00-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X308-2 (6GK5308-2FL10-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X308-2LD (6GK5308-2FM00-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>

SCALANCE X308-2LD (6GK5308-2FM10-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X308-2LH (6GK5308-2FN00-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X308-2LH (6GK5308-2FN10-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X308-2LH+ (6GK5308-2FP00-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X308-2LH+ (6GK5308-2FP10-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X308-2M (6GK5308-2GG00-2AA2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X308-2M (6GK5308-2GG10-2AA2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X308-2M PoE (6GK5308-2QG00-2AA2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X308-2M PoE (6GK5308-2QG10-2AA2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X308-2M TS (6GK5308-2GG00-2CA2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>

SCALANCE X308-2M TS (6GK5308-2GG10-2CA2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X310 (6GK5310-0FA00-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X310 (6GK5310-0FA10-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X310FE (6GK5310-0BA00-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X310FE (6GK5310-0BA10-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X320-1 FE (6GK5320-1BD00-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X320-1-2LD FE (6GK5320-3BF00-2AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE X408-2 (6GK5408-2FD00-2AA2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XF201-3P IRT (6GK5201-3BH00-2BD2): All versions < V5.5.2	Update to V5.5.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817790/">https://support.industry.siemens.com/cs/ww/en/view/109817790/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XF202-2P IRT (6GK5202-2BH00-2BD2): All versions < V5.5.2	Update to V5.5.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817790/">https://support.industry.siemens.com/cs/ww/en/view/109817790/</a> See recommendations from section <a href="#">Workarounds and Mitigations</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> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XF204-2 (incl. SIPLUS NET variant): 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> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XF204-2BA IRT (6GK5204-2AA00-2BD2): All versions < V5.5.2	Update to V5.5.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817790/">https://support.industry.siemens.com/cs/ww/en/view/109817790/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XF204IRT (6GK5204-0BA00-2BF2): All versions < V5.5.2	Update to V5.5.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817790/">https://support.industry.siemens.com/cs/ww/en/view/109817790/</a> See recommendations from section <a href="#">Workarounds and Mitigations</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> See further recommendations from section <a href="#">Workarounds and Mitigations</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> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XR324-4M EEC (2x 24V, ports on front) (6GK5324-4GG00-2ER2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XR324-4M EEC (2x 24V, ports on front) (6GK5324-4GG10-2ER2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XR324-4M EEC (2x 24V, ports on rear) (6GK5324-4GG00-2JR2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XR324-4M EEC (2x 24V, ports on rear) (6GK5324-4GG10-2JR2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>

SCALANCE XR324-4M EEC (2x 100-240VAC/60-250VDC, ports on front) (6GK5324-4GG00-4ER2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XR324-4M EEC (2x 100-240VAC/60-250VDC, ports on front) (6GK5324-4GG10-4ER2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
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SCALANCE XR324-4M EEC (100-240VAC/60-250VDC, ports on front) (6GK5324-4GG00-3ER2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
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SCALANCE XR324-4M PoE (24V, ports on front) (6GK5324-4QG00-1AR2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XR324-4M PoE (24V, ports on rear) (6GK5324-4QG00-1HR2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XR324-4M PoE (230V, ports on front) (6GK5324-4QG00-3AR2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XR324-4M PoE (230V, ports on rear) (6GK5324-4QG00-3HR2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XR324-4M PoE TS (24V, ports on front) (6GK5324-4QG00-1CR2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XR324-12M (24V, ports on front) (6GK5324-0GG00-1AR2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XR324-12M (24V, ports on front) (6GK5324-0GG10-1AR2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
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SCALANCE XR324-12M TS (24V) (6GK5324-0GG10-1CR2): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SIPLUS NET SCALANCE X308-2 (6AG1308-2FL10-4AA3): All versions < V4.1.4	Update to V4.1.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109808359/">https://support.industry.siemens.com/cs/ww/en/view/109808359/</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:

- Monitor and restrict access to port 22/TCP
- Disable SCALANCE SSH setting, if possible in your environment. SSH port status is open by default

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-2016-6515

The `auth_password` function in `auth-passwd.c` in `sshd` in OpenSSH before 7.3 does not limit password lengths for password authentication, which allows remote attackers to cause a denial of service (crypt CPU consumption) via a long string.

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

### Vulnerability CVE-2016-10011

`authfile.c` in `sshd` in OpenSSH before 7.4 does not properly consider the effects of `realloc` on buffer contents, which might allow local users to obtain sensitive private-key information by leveraging access to a privilege-separated child process.

CVSS v3.1 Base Score	5.5
CVSS Vector	<a href="#">CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:N/A:N/E:U/RL:O/RC:C</a>
CWE	CWE-20: Improper Input Validation

### Vulnerability CVE-2016-10708

`sshd` in OpenSSH before 7.4 allows remote attackers to cause a denial of service (NULL pointer dereference and daemon crash) via an out-of-sequence `NEWKEYS` message, as demonstrated by Honggfuzz, related to `kex.c` and `packet.c`.

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:U/RL:O/RC:C</a>
CWE	CWE-476: NULL Pointer Dereference

## **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 (2022-04-12): Added solution for SCALANCE X-300 switch family (incl. X408 and SIPLUS NET variants)  
V1.2 (2023-04-11): Added fix for SCALANCE X-200IRT switch family

## **TERMS OF USE**

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