

## SSA-552702: Privilege Escalation Vulnerability in the Web Interface of SCALANCE and RUGGEDCOM Products

Publication Date: 2022-10-11  
 Last Update: 2023-04-11  
 Current Version: V1.5  
 CVSS v3.1 Base Score: 8.8

### SUMMARY

The products listed below do not properly authorize the change password function of the web interface. This could allow low privileged users to escalate their privileges.

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 RM1224 LTE(4G) EU (6GK6108-4AM00-2BA2): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
RUGGEDCOM RM1224 LTE(4G) NAM (6GK6108-4AM00-2DA2): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE M804PB (6GK5804-0AP00-2AA2): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE M812-1 ADSL-Router (Annex A) (6GK5812-1AA00-2AA2): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE M812-1 ADSL-Router (Annex B) (6GK5812-1BA00-2AA2): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE M816-1 ADSL-Router (Annex A) (6GK5816-1AA00-2AA2): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>

SCALANCE M816-1 ADSL-Router (Annex B) (6GK5816-1BA00-2AA2): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE M826-2 SHDSL-Router (6GK5826-2AB00-2AB2): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE M874-2 (6GK5874-2AA00-2AA2): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE M874-3 (6GK5874-3AA00-2AA2): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE M876-3 (EVDO) (6GK5876-3AA02-2BA2): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE M876-3 (ROK) (6GK5876-3AA02-2EA2): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE M876-4 (6GK5876-4AA10-2BA2): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE M876-4 (EU) (6GK5876-4AA00-2BA2): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE M876-4 (NAM) (6GK5876-4AA00-2DA2): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE MUM853-1 (EU) (6GK5853-2EA00-2DA1): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>

SCALANCE MUM856-1 (EU) (6GK5856-2EA00-3DA1): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE MUM856-1 (RoW) (6GK5856-2EA00-3AA1): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE S615 (6GK5615-0AA00-2AA2): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE S615 EEC (6GK5615-0AA01-2AA2): All versions < V7.1.2	Update to V7.1.2 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109813051/">https://support.industry.siemens.com/cs/ww/en/view/109813051/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE SC622-2C (6GK5622-2GS00-2AC2): All versions < V3.0	Update to V3.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109814276/">https://support.industry.siemens.com/cs/ww/en/view/109814276/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE SC632-2C (6GK5632-2GS00-2AC2): All versions < V3.0	Update to V3.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109814276/">https://support.industry.siemens.com/cs/ww/en/view/109814276/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE SC636-2C (6GK5636-2GS00-2AC2): All versions < V3.0	Update to V3.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109814276/">https://support.industry.siemens.com/cs/ww/en/view/109814276/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE SC642-2C (6GK5642-2GS00-2AC2): All versions < V3.0	Update to V3.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109814276/">https://support.industry.siemens.com/cs/ww/en/view/109814276/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE SC646-2C (6GK5646-2GS00-2AC2): All versions < V3.0	Update to V3.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109814276/">https://support.industry.siemens.com/cs/ww/en/view/109814276/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W721-1 RJ45 (6GK5721-1FC00-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>

SCALANCE W721-1 RJ45 (6GK5721-1FC00-0AB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W722-1 RJ45 (6GK5722-1FC00-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W722-1 RJ45 (6GK5722-1FC00-0AB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W722-1 RJ45 (6GK5722-1FC00-0AC0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W734-1 RJ45 (6GK5734-1FX00-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W734-1 RJ45 (6GK5734-1FX00-0AA6): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W734-1 RJ45 (6GK5734-1FX00-0AB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W734-1 RJ45 (USA) (6GK5734-1FX00-0AB6): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W738-1 M12 (6GK5738-1GY00-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W738-1 M12 (6GK5738-1GY00-0AB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W748-1 M12 (6GK5748-1GD00-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W748-1 M12 (6GK5748-1GD00-0AB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W748-1 RJ45 (6GK5748-1FC00-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>

SCALANCE W748-1 RJ45 (6GK5748-1FC00-0AB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W761-1 RJ45 (6GK5761-1FC00-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W761-1 RJ45 (6GK5761-1FC00-0AB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W774-1 M12 EEC (6GK5774-1FY00-0TA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W774-1 M12 EEC (6GK5774-1FY00-0TB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W774-1 RJ45 (6GK5774-1FX00-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W774-1 RJ45 (6GK5774-1FX00-0AA6): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W774-1 RJ45 (6GK5774-1FX00-0AB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W774-1 RJ45 (6GK5774-1FX00-0AC0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W774-1 RJ45 (USA) (6GK5774-1FX00-0AB6): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W778-1 M12 (6GK5778-1GY00-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W778-1 M12 (6GK5778-1GY00-0AB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W778-1 M12 EEC (6GK5778-1GY00-0TA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>

SCALANCE W778-1 M12 EEC (USA) (6GK5778-1GY00-0TB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W786-1 RJ45 (6GK5786-1FC00-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W786-1 RJ45 (6GK5786-1FC00-0AB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W786-2 RJ45 (6GK5786-2FC00-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W786-2 RJ45 (6GK5786-2FC00-0AB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W786-2 RJ45 (6GK5786-2FC00-0AC0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W786-2 SFP (6GK5786-2FE00-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W786-2 SFP (6GK5786-2FE00-0AB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W786-2IA RJ45 (6GK5786-2HC00-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W786-2IA RJ45 (6GK5786-2HC00-0AB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W788-1 M12 (6GK5788-1GD00-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W788-1 M12 (6GK5788-1GD00-0AB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W788-1 RJ45 (6GK5788-1FC00-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>

SCALANCE W788-1 RJ45 (6GK5788-1FC00-0AB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W788-2 M12 (6GK5788-2GD00-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W788-2 M12 (6GK5788-2GD00-0AB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W788-2 M12 EEC (6GK5788-2GD00-0TA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W788-2 M12 EEC (6GK5788-2GD00-0TB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W788-2 M12 EEC (6GK5788-2GD00-0TC0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W788-2 RJ45 (6GK5788-2FC00-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W788-2 RJ45 (6GK5788-2FC00-0AB0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W788-2 RJ45 (6GK5788-2FC00-0AC0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W1748-1 M12 (6GK5748-1GY01-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W1748-1 M12 (6GK5748-1GY01-0TA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W1788-1 M12 (6GK5788-1GY01-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W1788-2 EEC M12 (6GK5788-2GY01-0TA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>



SCALANCE W1788-2 M12 (6GK5788-2GY01-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE W1788-2IA M12 (6GK5788-2HY01-0AA0): All versions	Currently no fix is planned See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE WAM763-1 (6GK5763-1AL00-7DA0): All versions < V2.0	Update to V2.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109815650/">https://support.industry.siemens.com/cs/ww/en/view/109815650/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE WAM766-1 (EU) (6GK5766-1GE00-7DA0): All versions < V2.0	Update to V2.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109815650/">https://support.industry.siemens.com/cs/ww/en/view/109815650/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE WAM766-1 (US) (6GK5766-1GE00-7DB0): All versions < V2.0	Update to V2.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109815650/">https://support.industry.siemens.com/cs/ww/en/view/109815650/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE WAM766-1 EEC (EU) (6GK5766-1GE00-7TA0): All versions < V2.0	Update to V2.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109815650/">https://support.industry.siemens.com/cs/ww/en/view/109815650/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE WAM766-1 EEC (US) (6GK5766-1GE00-7TB0): All versions < V2.0	Update to V2.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109815650/">https://support.industry.siemens.com/cs/ww/en/view/109815650/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE WUM763-1 (6GK5763-1AL00-3AA0): All versions < V2.0	Update to V2.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109815650/">https://support.industry.siemens.com/cs/ww/en/view/109815650/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE WUM763-1 (6GK5763-1AL00-3DA0): All versions < V2.0	Update to V2.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109815650/">https://support.industry.siemens.com/cs/ww/en/view/109815650/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE WUM766-1 (EU) (6GK5766-1GE00-3DA0): All versions < V2.0	Update to V2.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109815650/">https://support.industry.siemens.com/cs/ww/en/view/109815650/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>



SCALANCE WUM766-1 (US) (6GK5766-1GE00-3DB0): All versions < V2.0	Update to V2.0 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109815650">https://support.industry.siemens.com/cs/ww/en/view/109815650/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XB205-3 (SC, PN) (6GK5205-3BB00-2AB2): All versions < V4.4	Update to V4.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817768/">https://support.industry.siemens.com/cs/ww/en/view/109817768/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XB205-3 (ST, E/IP) (6GK5205-3BB00-2TB2): All versions < V4.4	Update to V4.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817768/">https://support.industry.siemens.com/cs/ww/en/view/109817768/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XB205-3 (ST, E/IP) (6GK5205-3BD00-2TB2): All versions < V4.4	Update to V4.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817768/">https://support.industry.siemens.com/cs/ww/en/view/109817768/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XB205-3 (ST, PN) (6GK5205-3BD00-2AB2): All versions < V4.4	Update to V4.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817768/">https://support.industry.siemens.com/cs/ww/en/view/109817768/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XB205-3LD (SC, E/IP) (6GK5205-3BF00-2TB2): All versions < V4.4	Update to V4.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817768/">https://support.industry.siemens.com/cs/ww/en/view/109817768/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XB205-3LD (SC, PN) (6GK5205-3BF00-2AB2): All versions < V4.4	Update to V4.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817768/">https://support.industry.siemens.com/cs/ww/en/view/109817768/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
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SCALANCE XR328-4C WG (28xGE, AC 230V) (6GK5328-4SS00-3AR3): All versions < V4.4	Update to V4.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817768/">https://support.industry.siemens.com/cs/ww/en/view/109817768/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
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SCALANCE XR524-8C, 1x230V (6GK5524-8GS00-3AR2): All versions < V6.6	Update to V6.6 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109818003/">https://support.industry.siemens.com/cs/ww/en/view/109818003/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XR524-8C, 1x230V (L3 int.) (6GK5524-8GR00-3AR2): All versions < V6.6	Update to V6.6 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109818003/">https://support.industry.siemens.com/cs/ww/en/view/109818003/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
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SCALANCE XR524-8C, 24V (6GK5524-8GS00-2AR2): All versions < V6.6	Update to V6.6 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109818003/">https://support.industry.siemens.com/cs/ww/en/view/109818003/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
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SCALANCE XR528-6M (6GK5528-0AA00-2AR2): All versions < V6.6	Update to V6.6 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109818003/">https://support.industry.siemens.com/cs/ww/en/view/109818003/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XR528-6M (2HR2) (6GK5528-0AA00-2HR2): All versions < V6.6	Update to V6.6 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109818003/">https://support.industry.siemens.com/cs/ww/en/view/109818003/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XR528-6M (2HR2, L3 int.) (6GK5528-0AR00-2HR2): All versions < V6.6	Update to V6.6 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109818003/">https://support.industry.siemens.com/cs/ww/en/view/109818003/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
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SCALANCE XR552-12M (6GK5552-0AA00-2AR2): All versions < V6.6	Update to V6.6 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109818003/">https://support.industry.siemens.com/cs/ww/en/view/109818003/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XR552-12M (2HR2) (6GK5552-0AA00-2HR2): All versions < V6.6	Update to V6.6 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109818003/">https://support.industry.siemens.com/cs/ww/en/view/109818003/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XR552-12M (2HR2) (6GK5552-0AR00-2HR2): All versions < V6.6	Update to V6.6 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109818003/">https://support.industry.siemens.com/cs/ww/en/view/109818003/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SCALANCE XR552-12M (2HR2, L3 int.) (6GK5552-0AR00-2AR2): All versions < V6.6	Update to V6.6 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109818003/">https://support.industry.siemens.com/cs/ww/en/view/109818003/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SIPLUS NET SCALANCE XC206-2 (6AG1206-2BB00-7AC2): All versions < V4.4	Update to V4.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817768/">https://support.industry.siemens.com/cs/ww/en/view/109817768/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SIPLUS NET SCALANCE XC206-2SFP (6AG1206-2BS00-7AC2): All versions < V4.4	Update to V4.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817768/">https://support.industry.siemens.com/cs/ww/en/view/109817768/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SIPLUS NET SCALANCE XC208 (6AG1208-0BA00-7AC2): All versions < V4.4	Update to V4.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817768/">https://support.industry.siemens.com/cs/ww/en/view/109817768/</a> See recommendations from section <a href="#">Workarounds and Mitigations</a>
SIPLUS NET SCALANCE XC216-4C (6AG1216-4BS00-7AC2): All versions < V4.4	Update to V4.4 or later version <a href="https://support.industry.siemens.com/cs/ww/en/view/109817768/">https://support.industry.siemens.com/cs/ww/en/view/109817768/</a> See 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:

- Use ACLs to restrict access to the device web server
- Restrict access to the device web server ports (default 443/tcp or 80/tcp) to trusted networks and client IP addresses

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 M-800, MUM-800 and S615 as well as the RUGGEDCOM RM1224 are industrial routers.

SCALANCE SC-600 devices (SC622-2C, SC626-2C, SC632-2C, SC636-2C, SC642-2C, SC646-2C) are used to protect trusted industrial networks from untrusted networks. They allow filtering incoming and outgoing network connections in different ways.

SCALANCE W-1700 products are wireless communication devices based on IEEE 802.11ac standard. They are used to connect all to sorts of WLAN devices (Access Points or Clients, depending on the operating mode) with a strong focus on industrial components, like Programmable Logic Controllers (PLCs) or Human Machine Interfaces (HMIs) and others.

SCALANCE W-700 products are wireless communication devices based on IEEE 802.11ax or 802.11n standard. They are used to connect all to sorts of WLAN devices (Access Points or Clients, depending on the operating mode) with a strong focus on industrial components, like Programmable Logic Controllers (PLCs) or Human Machine Interfaces (HMIs) and others.

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-2022-31765**

Affected devices do not properly authorize the change password function of the web interface. This could allow low privileged users to escalate their privileges.

CVSS v3.1 Base Score	8.8
CVSS Vector	<a href="#">CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H/E:P/RL:O/RC:C</a>
CWE	CWE-862: Missing Authorization

## **ACKNOWLEDGMENTS**

Siemens thanks the following party for its efforts:

- Martin Grubhofer and Michael Messner from Siemens Energy for reporting the vulnerability

## **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
V1.1 (2022-11-08):	Added missing affected product SCALANCE S615
V1.2 (2022-12-13):	Added fix for SCALANCE SC-600 family
V1.3 (2023-01-10):	Added fix for SCALANCE W-700 IEEE 802.11ax product family
V1.4 (2023-03-14):	Added missing affected products SCALANCE S615 EEC (6GK5615-0AA01-2AA2) and SCALANCE M876-4 (6GK5876-4AA10-2BA2)
V1.5 (2023-04-11):	Added fix for SCALANCE XM-400/XR-500 family and for SCALANCE XB-200/XC-200/XP-200/XF-200BA/XR-300WG family

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