SSA-840800: Code Injection Vulnerability in RUGGEDCOM ROS

Publication Date: 2022-07-12
Last Update: 2023-11-14
Current Version: V1.4
CVSS v3.1 Base Score: 8.0

SUMMARY

RUGGEDCOM ROS-based devices are vulnerable to a web-based code injection attack. To execute this attack, it is necessary to access the system via the Command Line Interface (CLI).

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 i800: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM i800NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM i801: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM i801NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM i802: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations

RUGGEDCOM i802NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM i803: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM i803NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM M969: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM M969F: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
RUGGEDCOM M969NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM M2100: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM M2100F: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
RUGGEDCOM M2100NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations

RUGGEDCOM M2200: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM M2200F: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
RUGGEDCOM M2200NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RMC30: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RMC30NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RMC8388 V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RMC8388 V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RMC8388NC V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RMC8388NC V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations

RUGGEDCOM RP110: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RP110NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS400: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS400F: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
RUGGEDCOM RS400NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS401: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS401NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS416: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS416F: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations

RUGGEDCOM RS416NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS416NCv2 V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS416NCv2 V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS416P: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS416PF: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
RUGGEDCOM RS416PNC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS416PNCv2 V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS416PNCv2 V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS416Pv2 V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations

RUGGEDCOM RS416Pv2 V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS416v2 V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS416v2 V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900 (32M) V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900 (32M) V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900F: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900G: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900G (32M) V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations

RUGGEDCOM RS900G (32M) V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900GF: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900GNC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900GNC(32M) V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900GNC(32M) V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900GP: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900GPF: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900GPNC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900L: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations

RUGGEDCOM RS900LNC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900M-GETS-C01: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900M-GETS-XX: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900M-STND-C01: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900M-STND-XX: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900MNC-GETS-C01: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900MNC-GETS-XX: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900MNC-STND-XX: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations

RUGGEDCOM RS900MNC-STND-XX-C01: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900NC(32M) V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900NC(32M) V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS900W: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS910: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS910L: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS910LNC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations

RUGGEDCOM RS910NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS910W: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS920L: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS920LNC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS920W: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS930L: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS930LNC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS930W: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations

RUGGEDCOM RS940G: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS940GF: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
RUGGEDCOM RS940GNC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS969: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS969NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS1600: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS1600F: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS1600FNC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS1600NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations

RUGGEDCOM RS1600T: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS1600TNC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS8000: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS8000A: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS8000ANC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS8000H: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS8000HNC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS8000NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations

RUGGEDCOM RS8000T: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RS8000TNC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG907R: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG908C: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG909R: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG910C: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG920P V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG920P V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations

RUGGEDCOM RSG920PNC V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG920PNC V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2100: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2100 (32M) V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2100 (32M) V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2100F: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2100NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2100NC(32M) V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2100NC(32M) V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations

RUGGEDCOM RSG2100P: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2100PF: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2100PNC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2200: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2200F: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2200NC: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2288 V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2288 V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2288NC V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations

RUGGEDCOM RSG2288NC V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2300 V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2300 V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2300F: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2300NC V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2300NC V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2300P V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2300P V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2300PF: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations

RUGGEDCOM RSG2300PNC V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2300PNC V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2488 V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2488 V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2488F: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2488NC V4.X: All versions < V4.3.8	Update to V4.3.8 or later version https://support.industry.siemens.com/cs/ww/en/view/109816735/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSG2488NC V5.X: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSL910: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RSL910NC: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations

RUGGEDCOM RST916C: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RST916P: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RST2228: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further recommendations from section Workarounds and Mitigations
RUGGEDCOM RST2228P: All versions < V5.6.0	Update to V5.6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109806156/ See further 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:

- Restrict network access in affected system(s) to ports 443/TCP and 22/TCP, to trusted IP addresses only
- Disable the webserver: Via the Command Line Interface (CLI), go to "Administration", "Configure IP Services", "Web Server Users Allowed" and change it to "Disabled" using the keyboard's up/down arrow keys

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

RUGGEDCOM ROS-based devices, typically switches and serial-to-Ethernet devices, are used to connect devices that operate in harsh environments such as electric utility substations and traffic control cabinets.

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-2022-34663

Affected devices are vulnerable to a web-based code injection attack via the console.

An attacker could exploit this vulnerability to inject code into the web server and cause malicious behavior in legitimate users accessing certain web resources on the affected device.

CVSS v3.1 Base Score	8.0
CVSS Vector	CVSS:3.1/AV:N/AC:L/PR:L/UI:R/S:U/C:H/I:H/A:H/E:P/RL:O/RC:C
CWE	CWE-94: Improper Control of Generation of Code ('Code Injection')

ACKNOWLEDGMENTS

Siemens thanks the following party for its efforts:

• Aarón Flecha Menéndez and Gabriel Vía Echezarreta from S21Sec 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 (2022-07-12):	Publication Date
V1.1 (2022-08-09):	Added RUGGEDCOM ROS RS1600, RS1600F, RS1600T and RS900 as affected products. Removed RMC, RMC20, RMC40 and RMC41 from affected products. Added new mitigation.
V1.2 (2023-03-14):	Added multiple missing affected products. Added fix for V4.X devices
V1.3 (2023-04-11):	Added multiple missing affected products with no fix currently planned
V1.4 (2023-11-14):	Added missing affected products: RUGGEDCOM RS416NCv2 V4.X, RUGGED-COM RS416PNCv2 V4.x, RUGGEDCOM RS416v2 V4.X, RUGGEDCOM RS416Pv2 V4.X. Adjusted the name of RUGGEDCOM RS416NCv2 V5.X, RUGGEDCOM RS416PNCv2 V5.x, RUGGEDCOM RS416v2 V5.X, RUGGED-COM RS416Pv2 V5.X (added reference to V5.X)

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