

SSA-260625: Security Vulnerabilities Fixed in RUGGEDCOM CROSSBOW V5.2

Publication Date: 2023-03-14
Last Update: 2023-03-14
Current Version: V1.0
CVSS v3.1 Base Score: 6.6

SUMMARY

RUGGEDCOM CROSSBOW V5.2 fixes two vulnerabilities that could allow authenticated remote attackers to perform unauthorized actions (CVE-2023-27309) or escalate privileges (CVE-2023-27310).

Siemens has released an update for RUGGEDCOM CROSSBOW and recommends to update to the latest version.

AFFECTED PRODUCTS AND SOLUTION

Affected Product and Versions	Remediation
RUGGEDCOM CROSSBOW: All versions < V5.2	Update to V5.2 or later version https://support.industry.siemens.com/cs/ww/en/view/109813558/

WORKAROUNDS AND MITIGATIONS

Product-specific remediations or mitigations can be found in the section [Affected Products and Solution](#). Please follow the [General Security Recommendations](#).

GENERAL SECURITY RECOMMENDATIONS

As a general security measure, Siemens strongly recommends to protect network access to devices with appropriate mechanisms. In order to operate the devices in a protected IT environment, Siemens recommends to configure the environment according to Siemens' operational guidelines for Industrial Security (Download: <https://www.siemens.com/cert/operational-guidelines-industrial-security>), and to follow the recommendations in the product manuals. Additional information on Industrial Security by Siemens can be found at: <https://www.siemens.com/industrialsecurity>

PRODUCT DESCRIPTION

RUGGEDCOM CROSSBOW is a secure access management solution designed to provide NERC CIP compliant access to Intelligent Electronic Devices.

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-2023-27309

The client query handler of the affected application fails to check for proper permissions for specific write queries. This could allow an authenticated remote attacker to perform unauthorized actions.

CVSS v3.1 Base Score	5.0
CVSS Vector	CVSS:3.1/AV:N/AC:H/PR:L/UI:N/S:U/C:L/I:L/A:L/E:P/RL:O/RC:C
CWE	CWE-862: Missing Authorization

Vulnerability CVE-2023-27310

The client query handler of the affected application fails to check for proper permissions when assigning groups to user accounts. This could allow an authenticated remote attacker to assign administrative groups to otherwise non-privileged user accounts.

CVSS v3.1 Base Score	6.6
CVSS Vector	CVSS:3.1/AV:N/AC:H/PR:H/UI:N/S:U/C:H/I:H/A:H/E:P/RL:O/RC:C
CWE	CWE-862: Missing Authorization

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 (2023-03-14): Publication Date

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