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**Date:** August 2, 2021

**Subject:** CVE-2021-37160

**Vulnerability Name:** No firmware update validation

**Vulnerability Type:** Other

**Information:** [swisslog-healthcare.com/en-us/customer-care/security-information/cve-disclosures](https://swisslog-healthcare.com/en-us/customer-care/security-information/cve-disclosures)

## Summary

A firmware validation issue was discovered in HMI-3 Control Panel in Swisslog Healthcare Nexus Panel operated by released versions of software before Nexus Software 7.2.5.7. There is no firmware validation (e.g., cryptographic signature validation) during a File Upload for a firmware update.

No cryptographic signature validation of any kind during firmware upgrade allowing external code to be installed.

## Affected Products

The following table lists the product impacted by the vulnerabilities listed above and the current state of remediation planning.

Product	Fix Version	Target Release Date
HMI-3 Panel	Future Release	TBD

## Workaround and Mitigation

### Network firewalls

Network firewalls that restrict inter-VLAN traffic on the network must allow inbound and outbound internal network connections for the ports listed in “Windows firewalls”. Do not restrict these ports to specific applications.

### Layer 3 Access Control List

If there is no firewall between the SCC and the floor devices, apply an extended access control list (ACL) in the layer 3 VLAN that is dedicated to the PTS floor equipment. Both inbound and outbound access lists are required between the SCC server and floor equipment, allowing the use of the TCP and UDP ports listed.

## General Security Recommendations

Swisslog Healthcare recommends upgrading to the latest software version as soon as available.

## Vulnerability Classification

The vulnerability classification has been performed by using the CVSS scoring system in version 3.1 (CVSS v3.1) ([NVD - CVSS v3 Calculator \(nist.gov\)](#)). 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.

### Vulnerability CVE-2021-37160

To exploit this vulnerability, an unauthenticated attacker must be on the local network.

CVSS v3.1 Base Score	9.1
CVSS v3.1 Vector:	AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H
CWE Reference	CWE-494

## Recommended Actions

1. Swisslog Healthcare recommends upgrading to the latest software version as soon as available.
2. Swisslog Healthcare recommends deploying the described mitigation methods until the updated software version is deployed.

## Credits

Swisslog Healthcare would like to thank the Armis security research team in reporting this issue in a professional manner.



# Support and Contact Information

Product Technical Support

- Phone 24/7 support: [800-396-9666](tel:800-396-9666)

Report a New Security Finding

- [swisslog-healthcare.com/en-us/customer-care/security-information](https://swisslog-healthcare.com/en-us/customer-care/security-information)
- [Product-Security@Swisslog-Healthcare.com](mailto:Product-Security@Swisslog-Healthcare.com)

