

## NetBotz 4 - 355/450/455/550/570

08 November 2022 (14 February 2023)

### Overview

Schneider Electric is aware of multiple vulnerabilities in its NetBotz 4 - 355/450/455/550/570 products.

The [NetBotz 4 - 355/450/455/550/570](#) products are security and environmental monitors providing temperature, humidity, leak, smoke, vibration, door contact, and video monitoring capabilities.

Failure to apply the remediation provided below may risk device attacks which could result in device manipulation and unauthorized device access.

**February 2023 Update:** The CVSS scores were updated.

### Affected Products and Versions

Product	Version
NetBotz 4 - 355/450/455/550/570	V4.7.0 and earlier

### Vulnerability Details

CVE ID: **CVE-2022-43376**

CVSS v3.1 Base Score 7.6 | High | CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:L/I:H/A:L

A *CWE-79: Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting')* vulnerability exists that could cause code and session manipulation when malicious code is inserted into the browser.

CVE ID: **CVE-2022-43377**

CVSS v3.1 Base Score 7.5 | High | CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N

A *CWE-307: Improper Restriction of Excessive Authentication Attempts* vulnerability exists that could cause account takeover when a brute force attack is performed on the account.

CVE ID: **CVE-2022-43378**

CVSS v3.1 Base Score 6.5 | Medium | CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:N/I:H/A:N

A *CWE-1021: Improper Restriction of Rendered UI Layers or Frames* vulnerability exists that could cause the user to be tricked into performing unintended actions when external address frames are not properly restricted.

## Remediation

Affected Product & Versions	Remediation
<p><b>NetBotz 4 - 355/450/455/550/570</b> <i>V4.7.0 and earlier</i></p>	<p>Version 4.7.2 of NetBotz 4 - 355/450/455/550/570 includes a fix for these vulnerabilities and is available for download here:</p> <p><a href="https://download.schneider-electric.com/files?p_enDocType=Firmware&amp;p_Doc_Ref=APC_SFNBZ_472_EN&amp;p_File_Name=SFNBZ472.zip">https://download.schneider-electric.com/files?p_enDocType=Firmware&amp;p_Doc_Ref=APC_SFNBZ_472_EN&amp;p_File_Name=SFNBZ472.zip</a></p> <p>Upon upgrade the system will automatically reboot. Verify the upgrade was successful by ensuring it is running version 4.7.2.</p>

Customers should use appropriate patching methodologies when applying these patches to their systems. We strongly recommend the use of back-ups and evaluating the impact of these patches in a Test and Development environment or on an offline infrastructure. Contact Schneider Electric’s [Customer Care Center](#) if you need assistance removing a patch.

If customers choose not to apply the remediation provided above, they should immediately apply the following general security recommendations to reduce the risk of exploit.

## General Security Recommendations

We strongly recommend the following industry cybersecurity best practices.

- Locate control and safety system networks and remote devices behind firewalls and isolate them from the business network.
- Install physical controls so no unauthorized personnel can access your industrial control and safety systems, components, peripheral equipment, and networks.
- Place all controllers in locked cabinets and never leave them in the “Program” mode.
- Never connect programming software to any network other than the network intended for that device.
- Scan all methods of mobile data exchange with the isolated network such as CDs, USB drives, etc. before use in the terminals or any node connected to these networks.
- Never allow mobile devices that have connected to any other network besides the intended network to connect to the safety or control networks without proper sanitation.
- Minimize network exposure for all control system devices and systems and ensure that they are not accessible from the Internet.

When remote access is required, use secure methods, such as Virtual Private Networks (VPNs). Recognize that VPNs may have vulnerabilities and should be updated to the most current version available. Also, understand that VPNs are only as secure as the connected devices.

For more information refer to the Schneider Electric [Recommended Cybersecurity Best Practices](#) document.

## Acknowledgements

Schneider Electric recognizes the following researcher for identifying and helping to coordinate a response to these vulnerabilities:

CVE	Researcher
CVE-2022-43376 CVE-2022-43377 CVE-2022-43378	Tony Nasr

## For More Information

This document provides an overview of the identified vulnerability or vulnerabilities and actions required to mitigate. For more details and assistance on how to protect your installation, contact your local Schneider Electric representative or Schneider Electric Industrial Cybersecurity Services: <https://www.se.com/ww/en/work/solutions/cybersecurity/>. These organizations will be fully aware of this situation and can support you through the process.

For further information related to cybersecurity in Schneider Electric's products, visit the company's cybersecurity support portal page: <https://www.se.com/ww/en/work/support/cybersecurity/overview.jsp>

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Our mission is to be your digital partner for Sustainability and Efficiency.

We drive digital transformation by integrating world-leading process and energy technologies, end-point to cloud connecting products, controls, software and services, across the entire lifecycle, enabling integrated company management, for homes, buildings, data centers, infrastructure, and industries.

We are the most local of global companies. We are advocates of open standards and partnership ecosystems that are passionate about our shared Meaningful Purpose, Inclusive and Empowered values.

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## Revision Control:

<b>Version 1.0</b> <i>08 November 2022</i>	<b>Original Release</b>
<b>Version 2.0</b> <i>14 February 2023</i>	The CVSS scores were updated.