

Schneider Electric Security Notification

Zelio Soft 2

8 October 2024

Overview

Schneider Electric is aware of vulnerabilities in its Zelio Soft 2 product.

The [Zelio Soft 2](#) software for Zelio Logic smart relays (SR2/ SR3) enables programming in LADDER language or in function block diagram (FBD) language simulation, monitoring and supervision uploading and downloading of programs output of personalized files automatic compiling of programs.

Failure to apply the fix provided below may risk remote code execution, which could result in resource exhaustion, information disclosure, or denial of service.

Affected Products and Versions

Product	Version
Zelio Soft 2	Versions prior to 5.4.2.2

Vulnerability Details

CVE ID: **CVE-2024-8422**

CVSS v3.1 Base Score 7.8 | High | CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H

CWE-416: Use After Free vulnerability exists that could cause arbitrary code execution, denial of service and loss of confidentiality & integrity when application user opens a malicious Zelio Soft 2 project file.

CVE ID: **CVE-2024-8518**

CVSS v3.1 Base Score 3.3 | Low | CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:N/I:N/A:L

CWE-20: Improper Input Validation vulnerability exists that could cause a crash of the Zelio Soft 2 application when a specially crafted project file is loaded by an application user.

Note regarding vulnerability details: The severity of vulnerabilities was calculated using the CVSS Base metrics in version 3.1 ([CVSS v3.1](#)) without incorporating the Temporal and

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Environmental metrics. Schneider Electric recommends that customers score the CVSS Environmental metrics, which are specific to end-user organizations, and consider factors such as the presence of mitigations in that environment. Environmental metrics may refine the relative severity posed by the vulnerabilities described in this document within a customer’s environment.

Remediation

Affected Product & Version	Remediation
<p>Zelio Soft 2 Versions prior to 5.4.2.2</p>	<p>Version 5.4.2.2 of Zelio Soft 2 includes a fix for these vulnerabilities and can be updated through the Schneider Electric Software Update (SESU) application and is also available for download here: https://www.se.com/ww/en/product-range/542-zelio-soft/#software-and-firmware</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 mitigations to reduce the risk of exploit:

- Encrypt project files when stored and restrict the access to only trusted users.
- When exchanging files over the network, use secure communication protocols.
- Only open project files received from a trusted source.
- Compute a hash of the project files and regularly check the consistency of this hash to verify the integrity before usage.

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.

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- 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 researchers for identifying and helping to coordinate a response to these vulnerabilities:

CVE	Researcher
CVE-2024-8422	rgod working with Trend Micro Zero Day Initiative
CVE-2024-8518	Jie Chen (nsfocus)

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 the trusted partner in **Sustainability and Efficiency**.

We are a **global industrial technology leader** bringing world-leading expertise in electrification, automation and digitization to smart **industries**, resilient **infrastructure**, future-proof **data centers**, intelligent **buildings**, and intuitive **homes**. Anchored by our deep domain expertise, we provide integrated end-to-end lifecycle AI enabled Industrial IoT solutions with connected products, automation, software and services, delivering digital twins to enable profitable growth **for our customers**.

We are a **people company** with an ecosystem of 150,000 colleagues and more than a million partners operating in over 100 countries to ensure proximity to our customers and stakeholders. We embrace **diversity and inclusion** in everything we do, guided by our meaningful purpose of a **sustainable future for all**.

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