

Schneider Electric Security Notification

Web Designer for Modicon Communication Modules

14 January 2025

Overview

Schneider Electric is aware of a vulnerability in its Web Designer configuration tool for the following Modicon communication modules:

- [BMXNOR0200H](#)
- [BMXNOE0110\(H\)](#)
- [BMENOC0311\(C\)](#)
- [BMENOC0321\(C\)](#)

The Web Designer product is a software application used to create Web-based operator panels and configure operating parameters for Web human machine interface (Web HMI) devices.

Failure to apply the Mitigations provided below may risk XML external entity attack, which could result in information disclosure, workstation integrity and potential remote code execution on the compromised computer.

Affected Products and Versions

Product	Version
Web Designer for BMXNOR0200H Web Designer for BMXNOE0110(H) Web Designer for BMENOC0311(C) Web Designer for BMENOC0321(C)	All versions

Vulnerability Details

CVE ID: **CVE-2024-12476**

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

CVSS v4.0 Base Score 8.4 | High | CVSS:4.0/AV:L/AC:L/AT:N/PR:N/UI:A/VC:H/VI:H/VA:H/SC:N/SI:N/SA:N

CWE-611: Improper Restriction of XML External Entity Reference vulnerability exists that could cause information disclosure, impacts workstation integrity and potential remote code execution on the compromised computer, when specific crafted XML file is imported in the Web Designer configuration tool.

The severity of vulnerabilities was calculated using the CVSS Base metrics for 4.0 ([CVSS v4.0](#)). CVSS v3.1 will be still evaluated until the adoption of CVSS v4.0 by the industry. The severity was calculated without incorporating the Temporal and Environmental metrics. Schneider Electric recommends that customers score the CVSS Environmental metrics, which are specific to end-user organizations, and consider factors such as

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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.

Mitigations

Affected Product & Version	Mitigations
Web Designer for BMXNOR0200H Web Designer for BMXNOE0110(H) Web Designer for BMENOC0311(C) Web Designer for BMENOC0321(C) <i>All versions</i>	<p>Customers should immediately apply the following mitigations to reduce the risk of exploit.</p> <p>Web Designer tool project file is based on XML language with specific parameters. To ensure the integrity of this file please follow the recommendations below:</p> <ul style="list-style-type: none">• Encrypt project file (XML configuration file) 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. <p>To ensure you are informed of all updates, including details on affected products and remediation plans, subscribe to Schneider Electric's security notification service here: https://www.se.com/en/work/support/cybersecurity/security-notifications.jsp</p>

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.

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- 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 this vulnerability:

CVE	Researcher
CVE-2024-12476	Jin Huang (ADLab of Venustech)

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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Schneider’s purpose is to **create Impact** by empowering all **to make the most of our energy and resources**, bridging progress and sustainability for all. We call this Life Is On.

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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