

# Schneider Electric Security Notification

## Harmony Relay NFC

13 February 2024

### Overview

Schneider Electric is aware of a vulnerability in its Harmony Relay NFC products.

The [Harmony Control Relay](#) and [Harmony Timer Relay](#) products are 8A multifunction 3-phase control and modular timing relays.

Failure to apply the mitigations provided below may risk an authentication bypass attack, which could result in unauthorized tampering/modification of the device configuration.

### Affected Products and Versions

Product	Version
Harmony Control Relay RMNF22TB30	All versions
Harmony Timer Relay RENF22R2MMW	All versions

### Vulnerability Details

CVE ID: **CVE-2024-0568**

CVSS v3.1 Base Score 8.8 | High | CVSS:3.1/AV:A/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

*CWE-287: Improper Authentication* vulnerability exists that could cause unauthorized tampering of device configuration over NFC communication.

*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 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.*

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### Mitigations

Affected Product & Version	Mitigations
<p><b>Harmony Control Relay RMNF22TB30</b>  <b>Harmony Timer Relay RENF22R2MMW</b>  <i>All versions</i></p>	<p>Customers should immediately apply the following mitigations to reduce the risk of exploit:</p> <p>Attack is possible only with physical proximity to the relay. Schneider Electric strongly recommend installing the Harmony Control Relays in locked cabinet for added security.</p> <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:  <a href="https://www.se.com/en/work/support/cybersecurity/security-notifications.jsp">https://www.se.com/en/work/support/cybersecurity/security-notifications.jsp</a></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.
- 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 Security Notification

Schneider Electric recognizes the following researcher for identifying and helping to coordinate a response to this vulnerability:

CVE	Researcher
CVE-2024-0568	Thierry Decroix (Withsecure)

### 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.

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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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<p><b>Version 1.0.0</b> 13 February 2024</p>	<p>Original Release</p>
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