

Schneider Electric Security Notification

Security Notification – Pelco Endura NET55XX Encoder

14 May 2019

Overview

Schneider Electric is aware of a vulnerability in its Pelco Endura NET55XX Encoder product.

Affected Product(s)

NET55XX Encoder with firmware prior to version 2.1.9.7

Vulnerability Details

CVE ID: **CVE-2019-6814**

CVSS v3.0 Base Score 9.8 | (Critical) | CVSS3.0/:AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

An Improper Access Control: CWE-284 vulnerability exists which could cause impact to confidentiality, integrity, and availability when a remote attacker crafts a malicious request to the encoder webUI.

Remediation

This vulnerability is fixed in version 2.1.9.7 and is available for download below:

<https://www.pelco.com/search#keyword/2.1.9.7/tab/documents>

The following workarounds and mitigations can be applied by customers to reduce the risk:

- Restrict access to the webUI with network access controls.
- Isolate the encoders from less trusted portions of the network.

Product Information

Product Category - Building and Automation Control

Learn more about Schneider Electric's product categories here: www.schneider-electric.us/en/all-products

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How to determine if you are affected

This vulnerability affects all NET55xx encoders with firmware prior to 2.1.9.7.

Affected models are listed below:

- NET5501
- NET5501-I
- NET5501-XT
- NET5504
- NET5500
- NET5516
- NET5508

General Security Recommendations

We strongly recommend following industry cybersecurity best practices such as:

- Locate control and safety system networks and remote devices behind firewalls and isolate them from the business network.
- Physical controls should be in place so that no unauthorized person would have access to the ICS and safety controllers, peripheral equipment or the ICS and safety networks.
- All controllers should reside in locked cabinets and never be left in the “Program” mode.
- All programming software should be kept in locked cabinets and should never be connected to any network other than the network for the devices that it is intended.
- All methods of mobile data exchange with the isolated network such as CDs, USB drives, etc. should be scanned before use in the terminals or any node connected to these networks.
- Laptops that have connected to any other network besides the intended network should never be allowed to connect to the safety or control networks without proper sanitation.
- Minimize network exposure for all control system devices and/or 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), recognizing that VPNs may have vulnerabilities and should be updated to the most current version available. Also recognize that VPN is only as secure as the connected devices.

Acknowledgements

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

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| CVE | Researcher(s) Name |
|---------------|--------------------|
| CVE-2019-6814 | Vitor Esperança |

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, please contact your local Schneider Electric representative and/or Schneider Electric Industrial Cybersecurity Services. These organizations will be fully aware of this situation and can support you through the process.

<http://www2.schneider-electric.com/sites/corporate/en/support/cybersecurity/cybersecurity.page>

<https://www.schneider-electric.com/en/work/services/field-services/industrial-automation/industrial-cybersecurity/industrial-cybersecurity.jsp>

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With global presence in over 100 countries, Schneider is the undisputable leader in Power Management – Medium Voltage, Low Voltage and Secure Power, and in Automation Systems. We provide integrated efficiency solutions, combining energy, automation and software.

In our global Ecosystem, we collaborate with the largest Partner, Integrator and Developer Community on our Open Platform to deliver real-time control and operational efficiency.

We believe that great people and partners make Schneider a great company and that our commitment to Innovation, Diversity and Sustainability ensures that Life Is On everywhere, for everyone and at every moment.

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Revision Control:

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| Version 1 <i>14 May 2019</i> | Original Release |
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