

## Schneider Electric Security Notification

### PowerLogic ION7400 / PM8000 / ION9000 Power Meters

9 March 2021

#### Overview

Schneider Electric is aware of a vulnerability in its PowerLogic ION7400, PM8000 and ION9000 products.

The [PowerLogic](#) metering products are revenue and power quality meters for utility and industrial electrical network monitoring.

Failure to apply the mitigations/remediations provided below may risk meter reboot or remote code execution, which could result in unintended device behavior.

#### Affected Products and Versions

Product	Version
ION7400	All versions prior to V3.0.0
ION9000	All versions prior to V3.0.0
PM8000	All versions prior to V3.0.0

#### Vulnerability Details

CVE ID: **CVE-2021-22714**

CVSS v3.0 Base Score 9.8 | Critical | CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

A CWE-119: Improper restriction of operations within the bounds of a memory buffer vulnerability exists that could cause the meter to reboot or allow for remote code execution.

#### Remediation

Affected Product & Version	Remediation
ION7400 All versions prior to V3.0.0	<p>V3.0.0 (released 30 July 2020) of the PowerLogic ION7400 firmware includes a fix for this vulnerability. The version update files are available for download here:  <a href="https://www.se.com/ww/en/download/document/ION7400_meter_FW_v003.000.000/">https://www.se.com/ww/en/download/document/ION7400_meter_FW_v003.000.000/</a></p> <p><i>Note: There may be newer versions of the firmware available for download, please check the <a href="#">ION7400</a> product page on before upgrading.</i></p>

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<p>ION9000 All versions prior to V3.0.0</p>	<p>V3.0.0 (released 30 July 2020) of the ION9000 firmware includes a fix for this vulnerability. The version update files are available for download here: available for download here: <a href="https://www.se.com/ww/en/download/document/ION9000_meter_FW_v003.000.000/">https://www.se.com/ww/en/download/document/ION9000_meter_FW_v003.000.000/</a></p> <p><i>Note: There may be newer versions of the firmware available for download, please check the <a href="#">ION9000</a> product page before upgrading.</i></p>
<p>PM8000 All versions prior to V3.0.0</p>	<p>V3.0.0 (released 30 July 2020) of the PowerLogic PM8000 firmware includes a fix for this vulnerability. The version update files are available for download here: <a href="https://www.se.com/ww/en/download/document/PM8000_meter_FW_v003.000.000/">https://www.se.com/ww/en/download/document/PM8000_meter_FW_v003.000.000/</a></p> <p><i>Note: There may be newer versions of the firmware available for download, please check the <a href="#">ION8000</a> product page before upgrading.</i></p>

Customers should use appropriate methodologies when applying these upgrades to their devices. We strongly recommend evaluating the impact of these updates in a test and development environment prior to deployment. Contact Schneider Electric's [Customer Care Center](#) if you need assistance reverting to an older version of firmware.

For alternative mitigations, customers should follow the General Security Recommendations provided below 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 for the devices that it is intended for.
- 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

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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 this vulnerability:

CVE	Researchers
CVE-2021-22714	Tal Keren and Rei Henigman of Claroty

### 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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We provide **energy and automation digital** solutions for **efficiency and sustainability**. We combine world-leading energy technologies, real-time automation, software and services into integrated solutions for Homes, Buildings, Data Centers, Infrastructure and Industries.

We are committed to unleash the infinite possibilities of an **open, global, innovative community** that is passionate with our **Meaningful Purpose, Inclusive and Empowered** values.

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Revision Control:

<p><b>Version 1.0</b> <i>9 March 2021</i></p>	<p>Original Release</p>
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