

# Schneider Electric Security Notification

## Modicon Quantum 140 NOE771x1

10 September 2019

### Overview

Schneider Electric is aware of a vulnerability in its Modicon Quantum 140 NOE771x1 controllers.

### Affected Product(s)

Quantum 140 NOE771x1 version 6.9 and earlier.

### Vulnerability Details

CVE ID: **CVE-2019-6811**

CVSS v3.0 Base Score 8.1 | (High) | CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:C/C:N/I:N/A:H

An Improper Check for Unusual or Exceptional Conditions (CWE-754) vulnerability exists, which could cause denial of service when the module receives an IP fragmented packet with a length greater than 65535 bytes. The module then requires a power cycle to recover.

### Remediation

This vulnerability is fixed in version 7.0 and is available for download below:

Part Number	Download Link
140NOE77101	<a href="https://www.se.com/fr/fr/download/document/140NOE77101+Exec+and+Release+Notes/">https://www.se.com/fr/fr/download/document/140NOE77101+Exec+and+Release+Notes/</a>
140NOE77111	<a href="https://www.se.com/fr/fr/download/document/140NOE77111+Exec+and+Release+Notes+For+Unity+and+Non+Unity+Users/">https://www.se.com/fr/fr/download/document/140NOE77111+Exec+and+Release+Notes+For+Unity+and+Non+Unity+Users/</a>

Note: Schneider Electric's Modicon Quantum controllers have reached their end of life and are no longer commercially available. They have been replaced by the [Modicon M580 ePAC controller](#). Customers should strongly consider migrating to this most current offer.

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## Product Information

Modicon Quantum:

Large PLC for Process applications, high availability & safety solutions.

Legacy Range – Phase Out. Progressive end of commercialization as of January 2019.

### **Product Category** - Industrial Automation Control

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

### **How to determine if you are affected**

Modicon Quantum PLC connected to an Ethernet network.

## 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.

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## 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>

### Legal Disclaimer

THIS DOCUMENT IS INTENDED TO HELP PROVIDE AN OVERVIEW OF THE IDENTIFIED SITUATION AND SUGGESTED MITIGATION ACTIONS, REMEDIATION, FIX, AND/OR GENERAL SECURITY RECOMMENDATIONS AND IS PROVIDED ON AN “AS-IS” BASIS WITHOUT WARRANTY OF ANY KIND. SCHNEIDER ELECTRIC DISCLAIMS ALL WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL SCHNEIDER ELECTRIC BE LIABLE FOR ANY DAMAGES WHATSOEVER INCLUDING DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, LOSS OF BUSINESS PROFITS OR SPECIAL DAMAGES, EVEN IF SCHNEIDER ELECTRIC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE USE OF THIS NOTIFICATION, INFORMATION CONTAINED HEREIN, OR MATERIALS LINKED TO IT ARE AT YOUR OWN RISK. SCHNEIDER ELECTRIC RESERVES THE RIGHT TO UPDATE OR CHANGE THIS NOTIFICATION AT ANY TIME AND IN ITS SOLE DISCRETION.

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At Schneider, we believe **access to energy and digital** is a basic human right. We empower all to **do more with less**, ensuring **Life Is On** everywhere, for everyone, at every moment.

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.

[www.se.com](http://www.se.com)

### Revision Control:

<p><b>Version 1</b> 10 Sep 2019</p>	<p><b>Original Release</b></p>
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