

Schneider Electric Security Notification

Security Notification – Modicon M580 Controller

9 July 2019

Overview

Schneider Electric is aware of a vulnerability in the Modicon M580 controller product.

Affected Product(s)

- Modicon M580 CPU - BMEP582040 all versions before V2.90
- Modicon Ethernet Module BMENOC0301 all versions before V2.16

Vulnerability Details

CVE ID: **CVE-2018-7838**

CVSS v3.0 Base Score 5.3 | (Medium) | CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:L

A CWE-119 Buffer Errors vulnerability exists which could cause denial of service on the FTP service of the controller or the Ethernet BMENOC module when it receives a FTP CWD command with a data length greater than 1020 bytes. A power cycle is then needed to reactivate the FTP service.

Remediation

This vulnerability is fixed in:

- Modicon Ethernet Module BMENOC0301 version V2.16 and is available for download below:

<https://www.schneider-electric.com/en/download/document/BMENOC0301+Exec+and+Release+Notes/>

Schneider Electric Security Notification

- Modicon M580 CPU - BMEP582040 version V2.90 and is available for download below:

M580 V2.90 Firmware	
BMEP584040 BMEP584040S BMEH584040 and C	https://www.schneider-electric.com/en/download/document/M580_BMEP584040_SV2.90/
BMEP586040 and C	https://www.schneider-electric.com/en/download/document/M580_BMEP586040_SV2.90/
BMEH586040 and C	https://www.schneider-electric.com/en/download/document/M580_BMEH586040_SV2.90/
BMEP581020 and H	https://www.schneider-electric.com/en/download/document/M580_BMEP581020_SV2.90/
BMEP582020 and H	https://www.schneider-electric.com/en/download/document/M580_BMEP582020_SV2.90/
BMEP582040 and H	https://www.schneider-electric.com/en/download/document/M580_BMEP582040_SV2.90/
BMEP583020	https://www.schneider-electric.com/en/download/document/M580_BMEP583020_SV2.90/
BMEP583040	https://www.schneider-electric.com/en/download/document/M580_BMEP583040_SV2.90/
BMEP584020	https://www.schneider-electric.com/en/download/document/M580_BMEP584020_SV2.90/
BMEP585040 and C	https://www.schneider-electric.com/en/download/document/M580_BMEP585040_SV2.90/
BMEP582040S	https://www.schneider-electric.com/en/download/document/M580_BMEP582040S_SV2.90/
BMEH582040 and C	https://www.schneider-electric.com/en/download/document/M580_BMEP582040_SV2.90

Schneider Electric Security Notification

Product Information

Modicon M580 Controller: Ethernet Programmable Automation Controller for industrial process and infrastructure

Modicon Ethernet Module: 3-port Ethernet communication module for M580

Product Category - Industrial Automation Control

Learn more about Schneider Electric's product categories here:

www.schneider-electric.us/en/all-products

How to determine if you are affected

Modicon M580 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.

Schneider Electric Security Notification

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.

About Schneider Electric

Schneider Electric is leading the Digital Transformation of Energy Management and Automation in Homes, Buildings, Data Centers, Infrastructure and Industries.

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.

www.schneider-electric.com

Schneider Electric Security Notification

Revision Control:

Version 1 9 Jul 2019	Original Release
--------------------------------	------------------