

# Schneider Electric Security Bulletin

## Wind River VxWorks Vulnerabilities (URGENT/11)

2 August 2019 (13 September 2022)

### Overview

Wind River's VxWorks TCP/IP Stack vulnerabilities have wide-ranging impact across multiple IT and industrial applications. We are working closely with Wind River to understand and assess how these vulnerabilities impact Schneider Electric offers and our customers' operations. We downloaded Wind River's patches as soon as they were made available to us, and we have quickly instituted a remediation plan to evolve all current and future products that rely on the Wind River platform to embed these fixes.

We will continue to monitor and will respond further if new information becomes available. In the meantime, customers should immediately make sure they have implemented cybersecurity best practices across their operations to protect themselves from these vulnerabilities. Where appropriate this includes locating your industrial systems and remotely accessible devices behind firewalls; installing physical controls to prevent unauthorized access; and preventing mission-critical systems and devices from being accessed from outside networks.

Please subscribe to the Schneider Electric security notification service to be informed of updates to this disclosure, including details on [affected products](#) and [remediations](#), as well as other important security notifications:

<https://www.schneider-electric.com/en/work/support/cybersecurity/security-notifications.jsp>

For additional information and support, please contact your Schneider Electric sales or service representative or Schneider Electric's Customer Care Center.

*Note: Schneider Electric is aware of a potential exploit available that targets the URGENT/11 vulnerabilities. Our customers should urgently consider applying the [remediations](#) or [mitigations](#) detailed in this document.*

**September 2022 Update:** CANopen X80 Communication Module (BMECXM0100) ([page 2](#)) and Profibus Remote Master (TCSEGPA23F14F) ([page 7](#)) added to the list of affected products, along with their final mitigations.

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## Details

Additional details on these specific vulnerabilities can be found on the Wind River security notification webpage:

<https://www.windriver.com/security/announcements/tcp-ip-network-stack-ipnet-urgent11/>

Of the 11 identified Wind River vulnerabilities, six have the potential to trigger remote code execution. Four of those six can be mitigated by a specific firewall configuration, even if access to the device is required. The other vulnerabilities can trigger denial of service conditions or information disclosure. Important to note, not all vulnerabilities apply to all impacted versions.

## Affected Products, Remediations, and Mitigations

Remediating these vulnerabilities requires Schneider Electric to update affected products' firmware. Customers cannot directly apply Wind River patches.

We have downloaded Wind River's patches and have established remediation plans to ensure all current and future Schneider Electric products that rely on the Wind River platform evolve with these embedded fixes. Integrating and validating Wind River's patches requires thorough testing and possibly recertification to ensure the quality of the updated product.

This bulletin will be updated as remediations become available. For all other affected products, customers should refer to [mitigations](#) to reduce risk to their installations.

### Available Remediations

Industrial Automation Products	Affected Version	Remediation
CANopen X80 Communication Module (BMECXM0100)	All versions	Customers should immediately apply the mitigations proposed in the <a href="#">mitigation section</a> of this document and in the Cybersecurity Reference Manual to reduce the risk of exploit: <a href="https://www.se.com/ww/en/download/document/EIO0000001999/">https://www.se.com/ww/en/download/document/EIO0000001999/</a>

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<p>ConneXium Industrial Firewall/ Router</p> <ul style="list-style-type: none"> <li>- TCSEFEC2CF3F21 (MM/TX)</li> <li>- TCSEFEC23FCF21 (TX/MM)</li> </ul> <p>TCSEFEC23F3F21 (TX/TX)</p>	<p>V5.33 and prior</p>	<p>Software Version 5.37 available here:  <a href="https://www.schneider-electric.com/en/download/document/TCSEFEC23FxF21/">https://www.schneider-electric.com/en/download/document/TCSEFEC23FxF21/</a></p>
<p>ConneXium Industrial Firewall</p> <ul style="list-style-type: none"> <li>- TCSEFEC2CF3F20 (MM/TX)</li> <li>- TCSEFEC23FCF20 (TX/MM)</li> <li>- TCSEFEC23F3F20 (TX/TX)</li> </ul>	<p>V5.24 and prior</p>	<p>These models have reached their end of life in January 2015 and are no longer commercially available. Please apply the mitigations proposed and/or upgrade to current models. Contact your <a href="#">local technical support</a> for more information.</p>
<p>E+PLC100 Combination PLC</p>	<p>V1.2.0.4 firmware and prior</p>	<p>Contact your local <a href="#">Eurotherm technical support</a> to get firmware V1.3.0.0.</p>
<p>E+PLC400 Combination PLC</p>	<p>V1.2.0.4 firmware and prior</p>	<p>Contact your local <a href="#">Eurotherm technical support</a> to get firmware V1.3.0.0.</p>
<p>HMIGXU</p>	<p>V1.1.0.32 and prior</p>	<p>Contact your <a href="#">local technical support</a> to get the Vijeo Basic runtime V1.1.0.4404 software</p>
<p>Magelis HMI - HMIGTO Series, HMISCU Series, HMIGTUX Series, and HMIGTU Series (Except Open BOX)</p>	<p>Vijeo Designer V6.2 SP9 and prior</p>	<p>Contact your <a href="#">local technical support</a> to get the Vijeo Designer V6.2 SP9 HotFix1 Alpha4.</p>

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<p>Modicon X80 I/O modules:</p> <ul style="list-style-type: none"> <li>- Modicon X80 BMEAHI0812 HART Analog Input Module</li> <li>- Modicon X80 BMEAHO0412 HART Analog Output Module</li> <li>- Modicon Network Option Switch BMENOS0300 (C)</li> <li>- I/O Drop Adapters – BMXCRA31200, BMXCRA31210 (C), BMECRA31210 (C)</li> </ul>	<ul style="list-style-type: none"> <li>- BMEAHI0812 and BMEAHO0412: V1.30 and prior</li> <li>- BMENOS0300 (C): V1.01 and prior</li> <li>- BMXCRA31200, BMXCRA31210 (C), and BMECRA31210 (C): V2.40 and prior</li> </ul>	<p>BMEAHI0812: <a href="https://www.se.com/ww/en/download/document/BMEAHI0812_Firmware_upgrade/">https://www.se.com/ww/en/download/document/BMEAHI0812_Firmware_upgrade/</a></p> <p>BMEAHO0412: <a href="https://www.se.com/ww/en/download/document/BMEAHO0412_Firmware_upgrade/">https://www.se.com/ww/en/download/document/BMEAHO0412_Firmware_upgrade/</a></p> <p>BMENOS0300 (C): <a href="https://www.se.com/ww/en/download/document/BMENOS0300_Firmware/">https://www.se.com/ww/en/download/document/BMENOS0300_Firmware/</a></p> <p>BMXCRA31200: <a href="https://www.se.com/ww/en/download/document/BMXCRA31200_FW_and_FW_History">https://www.se.com/ww/en/download/document/BMXCRA31200_FW_and_FW_History</a></p> <p>BMXCRA31210 (C): <a href="https://www.se.com/ww/en/download/document/BMXCRA31210_FW_and_FW_History">https://www.se.com/ww/en/download/document/BMXCRA31210_FW_and_FW_History</a></p> <p>BMECRA31210 (C): <a href="https://www.se.com/ww/en/download/document/BMECRA31210_FW_and_FW_History">https://www.se.com/ww/en/download/document/BMECRA31210_FW_and_FW_History</a></p>
<p>Modicon LMC078 Controller</p>	<p>V1.51.15.05 and prior</p>	<p>Firmware update is available through Schneider Electric Software Update (SESU). Download the SESU client here <a href="https://www.seupdate.schneider-electric.com/download/SystemConsistency/SoftwareUpdate/SESU_231/SESU_2.3.1_setup_sfx.exe">https://www.seupdate.schneider-electric.com/download/SystemConsistency/SoftwareUpdate/SESU_231/SESU_2.3.1_setup_sfx.exe</a></p>
<p>Modicon M241 Micro PLC</p>	<p>Firmware versions prior to V5.1.9.14</p>	<p>Firmware is available through SESU update or in Machine Expert 2.0 available in the following link: <a href="https://www.se.com/ww/en/product-range-download/2226-ecostruxure-machine-expert/#!/software-firmware-tab">https://www.se.com/ww/en/product-range-download/2226-ecostruxure-machine-expert/#!/software-firmware-tab</a></p>

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<p>Modicon M251 Micro PLC</p>	<p>Firmware versions prior to V5.1.9.14</p>	<p>Firmware is available through SESU update or in Machine Expert 2.0 available in the following link:  <a href="https://www.se.com/ww/en/product-range-download/2226-ecostruxure-machine-expert/-/software-firmware-tab">https://www.se.com/ww/en/product-range-download/2226-ecostruxure-machine-expert/-/software-firmware-tab</a></p>
<p>Modicon M262 Logic/Motion Controller</p>	<p>Firmware V5.0.3.2 and prior</p>	<p>Firmware update is the Schneider Electric Software Update (SESU). Download the SESU client here  <a href="https://www.update.schneider-electric.com/download/SystemConsistency/SoftwareUpdate/SESU_220/SESU_2.2.0_setup_sfx.exe">https://www.update.schneider-electric.com/download/SystemConsistency/SoftwareUpdate/SESU_220/SESU_2.2.0_setup_sfx.exe</a></p>
<p>Modicon M580 Ethernet Communications Modules</p>	<p>Modicon M580 Ethernet Communications Modules:                      BMENOC0301                      BMENOC0311                      BMENOC0321</p>	<p>BMENOC0301:  <a href="https://www.se.com/ww/en/download/document/BMENOC0311+Exec+and+Release+Notes/">https://www.se.com/ww/en/download/document/BMENOC0311+Exec+and+Release+Notes/</a></p> <p>BMENOC0311: <a href="https://www.se.com/ww/en/download/document/BMENOC0301+Exec+and+Release+Notes/">https://www.se.com/ww/en/download/document/BMENOC0301+Exec+and+Release+Notes/</a></p> <p>BMENOC0321:  <a href="https://www.se.com/ww/en/download/document/BMENOC0321_Firmware/">https://www.se.com/ww/en/download/document/BMENOC0321_Firmware/</a></p>
<p>Modicon M580 Ethernet communications Modules                      Modicon M580 IEC 61850 - BMENOP0300 (C)</p>	<p>V2.1 and prior</p>	<p>A fix is available in version 2.2:  <a href="https://www.se.com/ww/en/product/BMENOP0300/m580-iec-61850-communication-module/">https://www.se.com/ww/en/product/BMENOP0300/m580-iec-61850-communication-module/</a></p>
<p>Modicon M580 ePAC CPUs including Safety CPUs</p>	<p>M580 V2.90 and prior</p>	<p>A fix is available on Modicon M580 firmware V3.10, find links to fixed versions in the <a href="#">Download Links section</a></p>

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Modicon MC80 Programmable Logic Controller	V1.4 and prior	A fix is available in V1.5: <a href="https://www.se.com/ww/en/product-range-download/62396-modicon-mc80/?filter=business-1-industrial-automation-and-control#/software-firmware-tab">https://www.se.com/ww/en/product-range-download/62396-modicon-mc80/?filter=business-1-industrial-automation-and-control#/software-firmware-tab</a>
Modicon Momentum Unity	V2.01 and prior	A fix is available in SV2.10 - <a href="https://www.se.com/ww/en/download/document/Momentum_FW_update/">https://www.se.com/ww/en/download/document/Momentum_FW_update/</a>
Modicon Quantum Ethernet DIO network module - 140NOC78x00 (C)	All versions	These models have reached their end of life. Please apply the mitigations proposed and/or upgrade to Modicon M580 offer. Contact your <a href="#">local technical support</a> for more information.
Modicon Quantum 140 CRA	V2.40 and prior	A fix is available in V2.50, available here for: 140CRA31200 <a href="https://www.se.com/ww/en/download/document/140CRA31200_FW_and_FW_History">https://www.se.com/ww/en/download/document/140CRA31200_FW_and_FW_History</a> 140CRA31908 <a href="https://www.se.com/ww/en/download/document/140CRA31908_FW_and_FW_History">https://www.se.com/ww/en/download/document/140CRA31908_FW_and_FW_History</a>
Modicon Quantum Head 140 CRP module - 140CRP31200 (C)	All versions	These models have reached their end of life. Please apply the mitigations proposed and/or upgrade to Modicon M580 offer. Contact your <a href="#">local technical support</a> for more information.
Modicon Quantum 140 NOP Communications Module	All versions	These models have reached their end of life in December 2018 and are no longer commercially available. Please apply the mitigations proposed and/or upgrade to IEC 61850 communication module BMENOP0300. Contact your <a href="#">local technical support</a> for more information.

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Nanodac Recorder / Controller	V8.14 and prior	A fix is available in V8.16: <a href="https://www.eurotherm.com/?wpdmdl=28419">https://www.eurotherm.com/?wpdmdl=28419</a>
PacDrive 3 Eco/Pro/Pro2 Motion Controllers	V1.62.5.6 and prior	Firmware is available in Machine Expert 1.2 available in the following link: <a href="https://www.se.com/ww/en/product-range-download/2226-ecostruxure-machine-expert/#/software-firmware-tab">https://www.se.com/ww/en/product-range-download/2226-ecostruxure-machine-expert/#/software-firmware-tab</a>
Profibus Remote Master (TCSEGPA23F14F)	All versions	Customers should immediately apply the mitigations proposed in the <a href="#">mitigation section</a> of this document and in the Cybersecurity Reference Manual to reduce the risk of exploit: <a href="https://www.se.com/ww/en/download/document/EIO0000001999/">https://www.se.com/ww/en/download/document/EIO0000001999/</a>
Pro-face HMI -GP4000H/R/E Series, GP4100 Compact Series, LT4000M Modular Series, GP4000E Series, IoT Gateway, SP5000 Series, and SP5000X Series	GP-ProEX V4.09.100 and prior (HMI version is dependent on using GP-Pro EX version)	Firmware update is available through GP-Pro EX software. GP-Pro EX is available in the following link: <a href="https://www.proface.com/en/download/update/gpproex/v409">https://www.proface.com/en/download/update/gpproex/v409</a>
SCADAPack 53xE RTUs	V8.14.7 and prior	Contact your <a href="#">local technical support</a> or email <a href="mailto:supportTRSS@se.com">supportTRSS@se.com</a> for the latest version.
SCADAPack 57x RTUs	V9.2.3 and earlier	Contact your <a href="#">local technical support</a> or email <a href="mailto:supportTRSS@se.com">supportTRSS@se.com</a> for the latest version.
SCD6000 Industrial RTU	V7.0.34 SY-1101207_G17 and prior	A fix is available in V7.0.36 SY-1101207_G18. Contact your <a href="#">local technical support</a> for more information.
Tricon Communication Modules	TCM/TCM2 V11.1 - V11.4	Contact your local technical support: <a href="https://pasupport.schneider-electric.com/">https://pasupport.schneider-electric.com/</a>

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Trident Communication Integration Module	V3.0	Contact your local technical support: <a href="https://pasupport.schneider-electric.com/">https://pasupport.schneider-electric.com/</a>
versadac™ Scalable Data Recorder	V2.37 firmware version and prior	Contact your local <a href="#">Eurotherm technical support</a> to obtain firmware V2.41.
Energy Management Products	Affected Version	Remediation
Easergy MiCOM C264	<p>Versions prior to D5.24 – C264 D5.X [For PACiS (ESO) 6.3]</p> <p>Versions prior to 1.79 – C264 D1.X [For PACiS (ESO) 5.2]</p> <p>Versions prior to D4.25 – C264 D4.X [For PACiS (ESO) 6.1]</p>	Contact your <a href="#">local technical support</a> or the Energy Application Center (EAC) for assistance in upgrading to the new version.
Easergy MiCOM P30	P30 with rejuvenated Ethernet board CORTEC with v66x; v670	Contact your <a href="#">local technical support</a> or the Energy Application Center (EAC) for assistance in upgrading to the new version
Easergy MiCOM Px40	All P40 with rejuvenated Ethernet board CORTEC with digit 7= Q, R or S	Contact your <a href="#">local technical support</a> or the Energy Application Center (EAC) for assistance in upgrading to the new version
Easergy P5	Firmware version: V01 Release: 001.029 Date: 29th May 2019	Firmware version: V01 Release: 200.008 Release date: 15th Nov 2019 Please Contact your <a href="#">local technical support</a> for assistance.



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Easergy T300 (SC150 & LV150)	Firmware 1.5.2 and earlier	Contact your <a href="#">local technical support</a> or the Energy Application Center (EAC) for assistance in upgrading to the new version – 2.7.
ION7400	V2.1.0 and earlier	<a href="https://www.se.com/us/en/download/document/ION7400_meter_FW_v002.002.001/">https://www.se.com/us/en/download/document/ION7400_meter_FW_v002.002.001/</a>
ION7400 MID (METSEION74001)	V002.100.000 firmware version and earlier	V002.002.001 <a href="https://www.se.com/ca/en/download/document/ION7400_MID_meter_FW_v2.2.1/">https://www.se.com/ca/en/download/document/ION7400_MID_meter_FW_v2.2.1/</a>
ION9000	V2.1.0 and earlier	<a href="https://www.se.com/us/en/download/document/ION9000_meter_FW_v002.002.001/">https://www.se.com/us/en/download/document/ION9000_meter_FW_v002.002.001/</a>
PM8000	V2.1.0 and earlier	<a href="https://www.se.com/us/en/download/document/PM8000_meter_FW_v002.002.001/">https://www.se.com/us/en/download/document/PM8000_meter_FW_v002.002.001/</a>
PM8000 MID (METSEPM82401)	V002.100.000 firmware version and earlier	V002.002.001 <a href="https://www.se.com/ca/en/download/document/PM8000_MID_meter_FW_v2.2.1/">https://www.se.com/ca/en/download/document/PM8000_MID_meter_FW_v2.2.1/</a>
SAGE RTU	K3 firmware and earlier for C3414 CPU	<a href="https://www.sage-rtu.com/updates/c3414-500-s02k4-firmware-release">https://www.sage-rtu.com/updates/c3414-500-s02k4-firmware-release</a>
Saitel DR with HU_A CPU	V11.04.17 and earlier.	Contact your <a href="#">local technical support</a> or the Energy Application Center (EAC) for assistance in upgrading to the new version.
TeSys island	Version TeSysisland_01.100.013.sedp (01.0100)	Download version TeSysisland_002.100.013.sedp (02.0100) or later version.  Download link: <a href="https://www.se.com/us/en/download/document/TeSysisland_002.100.013.zip/">https://www.se.com/us/en/download/document/TeSysisland_002.100.013.zip/</a> (also available via SoMove with the installed DTM)

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### Mitigations

Since the vulnerabilities are present in the TCP/IP stack of the VxWorks product, an active network connection is required to exploit them. Therefore, Schneider Electric customers can act now to mitigate the risk of attack by limiting access to their devices, which would immediately reduce attempted exploits:

- Limit access to the networks on which Schneider Electric devices are placed.
- Do not expose Schneider Electric devices directly to the internet.
- Restrict external network connectivity to the affected devices.
- Always place Schneider Electric devices behind firewalls and/or other security protection appliances that limit access only to authorized remote connections.
- Continually monitor affected devices for security events that could warn of attempted unauthorized access.
- Limit access to internal networks where devices reside.

For more details and assistance on how to protect your installation, please contact your local Schneider Electric's Industrial Cybersecurity Services organization, which is fully aware of this situation and can support you through the process.

### Download Links

M580 V3.10 Firmware	
BMEP584040	<a href="https://www.schneider-electric.com/en/download/document/M580_BMEP584040_SV3.10/">https://www.schneider-electric.com/en/download/document/M580_BMEP584040_SV3.10/</a>
BMEH584040 and C	<a href="https://www.schneider-electric.com/en/download/document/M580_BMEH584040_SV3.10/">https://www.schneider-electric.com/en/download/document/M580_BMEH584040_SV3.10/</a>
BMEP586040 and C	<a href="https://www.schneider-electric.com/en/download/document/M580_BMEP586040_SV3.10/">https://www.schneider-electric.com/en/download/document/M580_BMEP586040_SV3.10/</a>
BMEH586040 and C	<a href="https://www.schneider-electric.com/en/download/document/M580_BMEH586040_SV3.10/">https://www.schneider-electric.com/en/download/document/M580_BMEH586040_SV3.10/</a>
BMEP581020 and H	<a href="https://www.schneider-electric.com/en/download/document/M580_BMEP581020_SV3.10/">https://www.schneider-electric.com/en/download/document/M580_BMEP581020_SV3.10/</a>
BMEP582020 and H	<a href="https://www.schneider-electric.com/en/download/document/M580_BMEP582020_SV3.10/">https://www.schneider-electric.com/en/download/document/M580_BMEP582020_SV3.10/</a>
BMEP582040 and H	<a href="https://www.schneider-electric.com/en/download/document/M580_BMEP582040_SV3.10/">https://www.schneider-electric.com/en/download/document/M580_BMEP582040_SV3.10/</a>

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BMEP583020	<a href="https://www.schneider-electric.com/en/download/document/M580_BMEP583020_SV3.10/">https://www.schneider-electric.com/en/download/document/M580_BMEP583020_SV3.10/</a>
BMEP583040	<a href="https://www.schneider-electric.com/en/download/document/M580_BMEP583040_SV3.10/">https://www.schneider-electric.com/en/download/document/M580_BMEP583040_SV3.10/</a>
BMEP584020	<a href="https://www.schneider-electric.com/en/download/document/M580_BMEP584020_SV3.10/">https://www.schneider-electric.com/en/download/document/M580_BMEP584020_SV3.10/</a>
BMEP585040 and C	<a href="https://www.schneider-electric.com/en/download/document/M580_BMEP585040_SV3.10/">https://www.schneider-electric.com/en/download/document/M580_BMEP585040_SV3.10/</a>
BMEH582040 and C	<a href="https://www.schneider-electric.com/en/download/document/M580_BMEH582040_SV3.10/">https://www.schneider-electric.com/en/download/document/M580_BMEH582040_SV3.10/</a>
BMEP584040S	<a href="https://www.schneider-electric.com/en/download/document/M580_BMEP584040S_SV3.10/">https://www.schneider-electric.com/en/download/document/M580_BMEP584040S_SV3.10/</a>
BMEH584040S	<a href="https://www.schneider-electric.com/en/download/document/M580_BMEH584040S_SV3.10/">https://www.schneider-electric.com/en/download/document/M580_BMEH584040S_SV3.10/</a>
BMEH586040S	<a href="https://www.schneider-electric.com/en/download/document/M580_BMEH586040S_SV3.10/">https://www.schneider-electric.com/en/download/document/M580_BMEH586040S_SV3.10/</a>
BMEP582040S	<a href="https://www.schneider-electric.com/en/download/document/M580_BMEP582040S_SV3.10/">https://www.schneider-electric.com/en/download/document/M580_BMEP582040S_SV3.10/</a>

## Additional Security Recommendations

We also strongly recommend applying the following industry cybersecurity best practices:

- 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.

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- 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.

### For More Information

This document provides an overview of recently disclosed Wind River VxWorks vulnerabilities and actions required to mitigate them.

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's purpose is to empower all to make the most of our energy and resources, bridging progress and sustainability for all. We call this Life Is On.

Our mission is to be your digital partner for Sustainability and Efficiency.

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.

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## Schneider Electric Security Bulletin

Revision Control:

<b>Version 1</b> 02-Aug-2019	Original Release
<b>Version 1.1</b> 07-Aug-2019	Added <i>Modicon LMC078</i> Controller to list of affected products, and removed a duplicate product.
<b>Version 1.2</b> 09-Aug-2019	Added <i>SAGE RTU</i> to list of affected products.
<b>Version 1.3</b> 19-Aug-2019	Removed <i>Modicon M580 Ethernet / Serial RTU Module</i> and added <i>Modicon eX80 - BMEAH10812 HART Analog Input Module</i> to list of affected products.
<b>Version 1.4</b> 29-Aug-2019	Updated affected versions for <i>Easergy MiCOM C264</i> product.
<b>Version 2.0</b> 11-Oct-2019	<ul style="list-style-type: none"> <li>- Exploit information added to Overview Section</li> <li>- Remediations added for <i>SAGE RTU, Easergy MiCOM C264, and SCADAPack 57x RTUs</i></li> <li>- Updated affected versions for <i>Easergy MiCOM P40</i></li> </ul>
<b>Version 2.1</b> 17-Oct-2019	Updated affected versions for <i>SCADAPack 57x RTUs</i> and <i>SAGE RTU</i> under Available Remediations.
<b>Version 2.2</b> 12-Nov-2019	Updated remediations for <i>ConneXium Industrial Firewall, Easergy MiCOM C264 Controller</i> (page 2-3) Enhanced product list with additional details for <i>Modicon X80 I/O modules</i> . Added <i>Modicon Quantum Head 140 CRP, Modicon Momentum Unity</i> , and removed <i>TMSES4 Ethernet Module</i> from affected products.
<b>Version 2.3</b> 13-Nov-2019	Updated remediations for <i>Modicon M262 Logic/Motion Controller</i> (page 3)
<b>Version 2.4</b> 10-Dec-2019	Updated remediations for <i>Modicon M580 Ethernet Communications Modules, Modicon M580 ePAC CPUs including Safety CPUs, Easergy P5, ION7400, ION9000, PM8000</i> .
<b>Version 2.5</b> 14-Jan-2020	Updated remediations for <i>Modicon X80 I/O modules, Modicon Momentum Unity, Nanodac Recorder / Controller</i> (added to affected products), <i>SCADAPack 53xE RTUs</i> , and <i>Saitel DR with HU_A CPU</i> .
<b>Version 2.6</b> 11-Feb-2020	Updated remediations for <i>Modicon LMC078 Controller, Modicon M580 Ethernet communications Modules: Modicon M580 IEC 61850 - BMENOP0300 (C), Modicon MC80 Programmable Logic Controller, Modicon Quantum 140 NOP Communications Module, PacDrive 3 Eco/Pro/Pro2 Motion Controllers, Pro-face</i>

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	<i>HMI -GP4000H/R/E Series, GP4100 Compact Series, LT4000M Modular Series, GP4000E Series, IoT Gateway, SP5000 Series, and SP5000X Series, Easergy MiCOM Px40, and TeSys island.</i>
<b>Version 2.7</b> 11-Mar-2020	Updated remediations for <i>HMIGXU, Easergy MiCOM P30, Tricon Communication Modules, Trident Communication Integration Module.</i>
<b>Version 2.8</b> 14-Apr-2020	Updated remediations for <i>ION7400 MID and PM8000 MID.</i>
<b>Version 2.9</b> 12-May-2020	Updated remediations for <i>Modicon Network Option Switch, Modicon X80 - I/O Drop Adapters, Modicon Quantum 140 CRA, Modicon Quantum Head 140 CRP, and Modicon Quantum Ethernet DIO network module - 140NOC78x00 (C), SCD6000 Industrial RTU, Pro-face HMI -GP4000H/R/E Series.</i>
<b>Version 2.10</b> 21-May-2020	Clarified “Affected Version” and “Remediation” version reference numbers for <i>SCD6000 Industrial RTU</i> product.
<b>Version 2.11</b> 09-Jun-2020	Updated remediations for <i>Easergy T300 and Magelis HMI - HMIGTO Series, HMISCU Series, HMIGTUX Series, and HMIGTU Series (Except Open BOX)</i> products.
<b>Version 2.12</b> 13-Oct-2020	Updated remediations for <i>versadac™ Scalable Data Recorder, E+PLC100 Combination PLC, and E+PLC400 Combination PLC</i> products.
<b>Version 2.13</b> 11-May-2021	Updated remediations for <i>Modicon M241 Micro PLC and Modicon M251 Micro PLC.</i>
<b>Version 2.14</b> 12-Sep-2022	<i>CANopen X80 Communication Module (BMECXM0100) (<a href="#">page 2</a>) and Profibus Remote Master (TCSEGPA23F14F) (<a href="#">page 7</a>)</i> added to the list of affected products, along with their final mitigations.