

# Schneider Electric Security Notification

## StruxureWare Data Center Expert

14 September 2021

### Overview

Schneider Electric is aware of multiple vulnerabilities in its StruxureWare Data Center Expert product.

[StruxureWare Data Center Expert](#) provides an efficient way for organizations to monitor and manage their company-wide multi-vendor physical infrastructure; power, cooling, security and environment.

Failure to apply the mitigations provided below may risk remote code execution, which could result in downtime or outage.

### Affected Product and Versions

StruxureWare Data Center Expert versions 7.8.1 and prior.

### Vulnerability Details

CVE ID: **CVE-2021-22794**

CVSS v3.1 Base Score 9.1 | Critical | CVSS:3.1/AV:N/AC:L/PR:H/UI:N/S:C/C:H/I:H/A:H  
A *CWE-22 Improper Limitation of a Pathname to a Restricted Directory ('Path Traversal')* vulnerability exists that could cause remote code execution.

CVE ID: **CVE-2021-22795**

CVSS: Base Score 9.1 | Critical | CVSS:3.1/AV:N/AC:L/PR:H/UI:N/S:C/C:H/I:H/A:H  
A *CWE-78:Improper Neutralization of Special Elements used in an OS Command ('OS Command Injection')* vulnerability exists that could cause remote code execution when performed over the network.

### Mitigations

Schneider Electric has established a remediation plan for future versions of StruxureWare Data Center Expert that will include a fix for these vulnerabilities. We will update this document when the remediation is available. Until then, customers should immediately follow security hardening guidelines found in <https://dcimsupport.ecostruxureit.com/hc/en-us/articles/360039289633-Data-Center-Expert-Security-Handbook> to reduce the risk of exploit.

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## 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 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-2021-22794 CVE-2021-22795	David Yesland working with Trend Micro Zero Day Initiative

## 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>

## Schneider Electric Security Notification

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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.

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Revision Control:

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