

Schneider Electric Security Notification

StruxureWare Data Center Expert

11 July 2023

Overview

Schneider Electric is aware of multiple vulnerabilities in its StruxureWare Data Center Expert (DCE) product. This product was recently renamed to EcoStruxure™ IT Data Center Expert.

[EcoStruxure™ IT Data Center Expert](#) is a scalable monitoring software that collects, organizes, and distributes critical device information providing a comprehensive view of equipment.

Failure to apply the remediations provided below may risk remote access and/or local privilege escalation, which could result in loss of control and loss of availability of the appliance.

Affected Products and Versions

Product	Version
StruxureWare Data Center Expert	v7.9.3 and earlier

Vulnerability Details

CVE ID: **CVE-2023-37196**

CVSS v3.1 Base Score 8.8 | High | CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H

A *CWE-89: Improper Neutralization of Special Elements* vulnerability used in an SQL Command ('SQL Injection') vulnerability exists that could allow a user already authenticated on DCE to access unauthorized content, change, or delete content, or perform unauthorized actions when tampering with the alert settings of endpoints on DCE.

CVE ID: **CVE-2023-37197**

CVSS v3.1 Base Score 8.8 | High | CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H

A *CWE-89: Improper Neutralization of Special Elements* vulnerability used in an SQL Command ('SQL Injection') vulnerability exists that could allow a user already authenticated on DCE to access unauthorized content, change, or delete content, or perform unauthorized actions when tampering with the mass configuration settings of endpoints on DCE.

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CVE ID: **CVE-2023-37198**

CVSS v3.1 Base Score 6.8 | Medium | CVSS:3.1/AV:N/AC:L/PR:H/UI:R/S:U/C:H/I:H/A:H

A *CWE-94: Improper Control of Generation of Code ('Code Injection')* vulnerability exists that could cause remote code execution when an admin user on DCE uploads or tampers with install packages.

CVE ID: **CVE-2023-37199**

CVSS v3.1 Base Score 6.8 | Medium | CVSS:3.1/AV:N/AC:L/PR:H/UI:R/S:U/C:H/I:H/A:H

A *CWE-94: Improper Control of Generation of Code ('Code Injection')* vulnerability exists that could cause remote code execution when an admin user on DCE tampers with backups which are then manually restored.

Note regarding vulnerability details: The severity of vulnerabilities was calculated using the CVSS Base metrics in version 3.1 ([CVSS v3.1](#)) without incorporating the Temporal and Environmental metrics. Schneider Electric recommends that customers score the CVSS Environmental metrics, which are specific to end-user organizations, and consider factors such as the presence of mitigations in that environment. Environmental metrics may refine the relative severity posed by the vulnerabilities described in this document within a customer's environment.

Remediation

Affected Product & Version	Remediation
StruxureWare Data Center Expert v7.9.3 and earlier	Version 8.0 of EcoStruxure™ IT Data Center Expert (Formerly StruxureWare Data Center Expert) includes fixes for these vulnerabilities and is available on request from Schneider Electric's Customer Care Center .

Customers should use appropriate patching methodologies when applying these patches to their systems. We strongly recommend the use of back-ups and evaluating the impact of these patches in a Test and Development environment or on an offline infrastructure. Contact Schneider Electric's [Customer Care Center](#) if you need assistance removing a patch.

If customers choose not to apply the remediation provided above, they should immediately apply the following general security recommendations to reduce the risk of exploit:

Harden the DCE instance according to the cybersecurity best practices documented in the [Data Center Expert Security Handbook](#)

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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.

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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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.

We are the most local of global companies. We are advocates of open standards and partnership ecosystems that are passionate about our shared Meaningful Purpose, Inclusive and Empowered values.

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<p>Version 1.0 11 July 2023</p>	<p>Original Release</p>
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