To fill out this document:

- Fill in all gray fields.
- Use Dropdown fields where available.
- In the Remediation Section choose which remediation (fix vs. mitigation/workaround) option you need to fill out and erase the one that does not pertain to your notification.
- Enter researcher information in acknowledgement section.
- Delete all comments.
- The Footer and Revision sections will be updated by CPCERT.

Stakeholder authorization and approval:

- This section must be completed by all members of the team; sign and date the document before moving it forward in the process. Retain all versions.

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<tr>
<th></th>
<th>Name</th>
<th>Date Approved</th>
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<tr>
<td>BU Security Officer</td>
<td>Andrew Kling</td>
<td>January 26, 2022</td>
</tr>
<tr>
<td>BU CERT Leader</td>
<td>Fabrice Kah</td>
<td>01/02/2022</td>
</tr>
<tr>
<td>BU Vuln Handler</td>
<td>Alyssa Tham</td>
<td></td>
</tr>
<tr>
<td>Notification Author</td>
<td>Alyssa Tham</td>
<td></td>
</tr>
<tr>
<td>Product Owner</td>
<td>Steve Beadle</td>
<td></td>
</tr>
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</table>

Jira ID issuance: Enter the VMT ID and priority rating of the vulnerabilities and CPCERT will issue the necessary CVE IDs:

- VMT-4584 - CVE-2022-24321
  - Jira Priority Rating: Medium
  - Jira Potential Reputation Damage Rating:
- VMT-5989 - CVE-2022-24318
  - Jira Priority Rating: Medium
  - Jira Potential Reputation Damage Rating:
- VMT-5990 - CVE-2022-24319
  - Jira Priority Rating: Medium
  - Jira Potential Reputation Damage Rating:
- VMT-5991 - CVE-2022-24320
  - Jira Priority Rating: Medium
  - Jira Potential Reputation Damage Rating:
- VMT-5992
  - Jira Priority Rating: Medium
  - Jira Potential Reputation Damage Rating:
- VMT-4701
  - Jira Priority Rating: Medium
  - Jira Potential Reputation Damage Rating:
Schneider Electric Security Notification

EcoStruxure Geo SCADA Expert

08 February 2022

Overview

Schneider Electric is aware of multiple vulnerabilities in its EcoStruxure Geo SCADA Expert product (formerly known as ClearSCADA).

EcoStruxure Geo SCADA Expert software is an open, flexible, and scalable software system for telemetry and remote SCADA solutions.

Failure to apply the remediations provided below may risk the impersonation of client activity or the revealing of account credentials, which could result in unauthorized system access.

Affected Products and Versions

- ClearSCADA all versions
- EcoStruxure Geo SCADA Expert 2019, all versions
- EcoStruxure Geo SCADA Expert 2020, all versions

Vulnerability Details

CVE ID: **CVE-2022-24318**


A **CWE-326: Inadequate Encryption Strength** vulnerability exists that could cause non-encrypted communication with the server when outdated versions of the ViewX client are used.

CVE ID: **CVE-2022-24319**


A **CWE-295: Improper Certificate Validation** vulnerability exists that could allow a Man-in-the-Middle attack when communications between the client and Geo SCADA web server are intercepted.

CVE ID: **CVE-2022-24320**


A **CWE-295: Improper Certificate Validation** vulnerability exists that could allow a Man-in-the-Middle attack when communications between the client and Geo SCADA database server are intercepted.

CVE ID: **CVE-2022-24321**

CVSS v3.1 Base Score 6.5 | Medium | CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H

A **CWE-754: Improper Check for Unusual or Exceptional Conditions** vulnerability exists that could cause Denial of Service against the Geo SCADA server when receiving a malformed HTTP request.
Remediation

The Geo SCADA Expert 2021 product includes fixes for all the above vulnerabilities and is available for download here:


The following table details the CVEs that have also been fixed in earlier versions of Geo SCADA Expert.

<table>
<thead>
<tr>
<th>CVE</th>
<th>Fixed Version</th>
</tr>
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<tbody>
<tr>
<td>CVE-2022-24318</td>
<td>• EcoStruxure Geo SCADA Expert 2021. All versions (84.*)</td>
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<tr>
<td>CVE-2022-24319</td>
<td>• EcoStruxure Geo SCADA Expert 2021. All versions (84.*)</td>
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<tr>
<td>CVE-2022-24320</td>
<td>• EcoStruxure Geo SCADA Expert 2021. All versions (84.*)</td>
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<tr>
<td></td>
<td>• EcoStruxure Geo SCADA Expert 2020, October 2021 Monthly Update. (83.7980.2)</td>
</tr>
<tr>
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<td>• EcoStruxure Geo SCADA Expert 2021. All versions (84.*)</td>
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<td>• EcoStruxure Geo SCADA Expert 2020, August 2021 Monthly Update. (83.7913.1)</td>
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<tr>
<td></td>
<td>• EcoStruxure Geo SCADA Expert 2019, August 2021 Monthly Update. (81.7896.1)</td>
</tr>
<tr>
<td></td>
<td>• ClearSCADA 2017 R3 August 2021 Monthly Update. (80.7896.1)</td>
</tr>
</tbody>
</table>

Installation of new server software will require system restart or changeover of redundant servers. Consult the Release Notes and Exchange Knowledge Base (Resource Center) for advice on the procedure:


Please read the product documentation to understand how to set up client and server certificates and how to configure connections to restrict to client versions supporting certificates.

Customers should use appropriate update methodologies when applying these updates to their systems. We strongly recommend the use of back-ups and evaluating the impact of these updates in a Test and Development environment or on an offline infrastructure. Contact Schneider Electric’s Customer Care Center if you need assistance removing an update.

We recommend upgrading to the latest software versions listed in the section above. If customers choose not to apply the remediations provided above, they should immediately apply the general security recommendations and the following mitigations to reduce the risk of exploit:
Restrict access to the Geo SCADA server’s database port (default 5481/TCP) and Geo SCADA Server’s web services port (default 443/TCP). Access should be available only to ViewX and WebX client.

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 intended for that device.
- 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](https://www.schneider-electric.com) document.

Acknowledgements

Schneider Electric recognizes the following researchers for identifying and helping to coordinate a response to these vulnerabilities:

<table>
<thead>
<tr>
<th>CVE</th>
<th>Researchers</th>
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<tr>
<td>CVE-2022-24318</td>
<td>Frank Lycops (Asvalis)</td>
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</tr>
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<td>CVE-2022-24320</td>
<td>Cameron Stokes (Mandiant)</td>
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</table>
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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Revision Control:

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Product Security Office

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Date: 2022.02.11 07:53:24 -08'00'

08-Feb-22

Document Reference Number – SEVD-2022-039-05

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