Overview

Schneider Electric is aware of multiple vulnerabilities in its spaceLYnk, Wiser For KNX, and fellerLYnk products.

**spaceLYnk** is a centralized solution that reduces energy and maintenance costs, increases comfort and flexibility, and simplifies building management.

**Wiser for KNX** (formerly known as homeLYnk) products are personalized energy efficiency solutions, offering a complete system based on open protocols: KNX, Modbus, BACnet and IP.

**fellerLYnk** offers more flexibility in visualization and trend recording as well as functions such as presence simulation or time switches that the end customer can easily manage.

Failure to apply the remediations provided below may risk a Cross-Site Request Forgery (CSRF), Missing Authentication, rate limit, or Stored Cross-Site Scripting (XSS) attack which could result in exfiltrated data and unauthorized access.

### Affected Products and Versions

<table>
<thead>
<tr>
<th>Product</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>spaceLYnk</td>
<td>V2.6.2 and prior</td>
</tr>
<tr>
<td>Wiser for KNX (formerly homeLYnk)</td>
<td>V2.6.2 and prior</td>
</tr>
<tr>
<td>fellerLYnk</td>
<td>V2.6.2 and prior</td>
</tr>
</tbody>
</table>

### Vulnerability Details

**CVE ID:** **CVE-2022-22809**

CVSS v3.1 Base Score 9.1 | Critical | CVSS:3.1/ AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:N

A **CWE-306: Missing Authentication for Critical Function** vulnerability exists that could allow modifications of the touch configurations in an unauthorized manner when an attacker attempts to modify the touch configurations.

**CVE ID:** **CVE-2022-22810**

CVSS v3.1 Base Score 8.6 | High | CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:H/I:N/A:N

A **CWE-307: Improper Restriction of Excessive Authentication Attempts** vulnerability exists that could allow an attacker to manipulate the admin after numerous attempts at guessing credentials.
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CVE ID: CVE-2022-22811
CVSS v3.1 Base Score 8.1 | High | CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:N/I:H/A:H

A CWE-352: Cross-Site Request Forgery (CSRF) vulnerability exists that could induce users to perform unintended actions, leading to the override of the system’s configurations when an attacker persuades a user to visit a rogue website.

CVE ID: CVE-2022-22812
CVSS v3.1 Base Score 8.0 | High | CVSS:3.1/AV:N/AC:L/PR:L/UI:R/S:U/C:H/I:H/A:H

A CWE-79: Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting') vulnerability exists that could cause a web session compromise when an attacker injects and then executes arbitrary malicious JavaScript code inside the target browser.

Remediations

<table>
<thead>
<tr>
<th>Affected Product &amp; Version</th>
<th>Remediation</th>
</tr>
</thead>
<tbody>
<tr>
<td>spaceLYnk V2.6.2 and prior</td>
<td>Version 2.7.0 of the spaceLYnk product includes a fix for this vulnerability and is available for download here: <a href="https://www.se.com/ww/en/product/LSS100200/spacelynk-logic-controller/">https://www.se.com/ww/en/product/LSS100200/spacelynk-logic-controller/</a> A reboot is needed after installation.</td>
</tr>
<tr>
<td>Wiser for KNX (formerly homeLYnk) V2.6.2 and prior</td>
<td>Version 2.7.0 of the Wiser for KNX product includes a fix for this vulnerability and is available for download here: <a href="https://www.se.com/ww/en/product/LSS100100/wiser-for-knx-logic-controller/">https://www.se.com/ww/en/product/LSS100100/wiser-for-knx-logic-controller/</a> A reboot is needed after installation.</td>
</tr>
<tr>
<td>fellerLYnk V2.6.2 and prior</td>
<td>Version 2.7.0 of the fellerLYnk product includes a fix for this vulnerability and is available for download here: <a href="https://online-katalog.feller.ch/download/index.php?menueidLev1=279&amp;menueidLev2=662&amp;menueidLev3=664">https://online-katalog.feller.ch/download/index.php?menueidLev1=279&amp;menueidLev2=662&amp;menueidLev3=664</a> A reboot is needed after installation.</td>
</tr>
</tbody>
</table>

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 mitigations to reduce the risk of exploit:
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- The homeLYnk, spaceLYnk, Wiser For KNX, fellerLYnk products should only be used in your personal home network.
- The homeLYnk, spaceLYnk, Wiser For KNX, fellerLYnk products should not have a publicly accessible IP address.
- Do NOT use port forwarding to access these products from the public internet.
- These products should be on their own network segment. If your router supports a guest network or VLAN, it is preferable to locate the controller there.
- Use the strongest Wi-Fi encryption available.
- Use HTTPs in local network.
- Only visit trusted websites.

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 document.

Acknowledgement

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

<table>
<thead>
<tr>
<th>CVE</th>
<th>Researcher</th>
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</thead>
<tbody>
<tr>
<td>CVE-2022-22809,</td>
<td>Tony Marcel Nasr</td>
</tr>
<tr>
<td>CVE-2022-22810,</td>
<td></td>
</tr>
<tr>
<td>CVE-2022-22811,</td>
<td></td>
</tr>
<tr>
<td>CVE-2022-22812</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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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:

<table>
<thead>
<tr>
<th>Version 1.0</th>
<th>Original Release</th>
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</thead>
<tbody>
<tr>
<td>08 February 2022</td>
<td></td>
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</table>