SSA-944083: HTTP Header Injection in SIMATIC Panels and SIMATIC WinCC (TIA Portal)

**SUMMARY**

The latest update for SIMATIC Panel software and SIMATIC WinCC (TIA Portal) fixes a vulnerability that could allow an attacker with network access to the web server to perform a HTTP header injection attack.

**AFFECTED PRODUCTS AND SOLUTION**

<table>
<thead>
<tr>
<th>Affected Product and Versions</th>
<th>Remediation</th>
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<tbody>
<tr>
<td><strong>SIMATIC HMI Comfort Panels 4&quot; - 22&quot;:</strong> All versions &lt; V14</td>
<td>Update SIMATIC WinCC (TIA Portal) to V15 Update 4 or newer, and then update panel to V15 Update 4 or newer. <a href="https://support.industry.siemens.com/cs/ww/en/view/109755826">https://support.industry.siemens.com/cs/ww/en/view/109755826</a></td>
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<tr>
<td><strong>SIMATIC HMI Comfort Outdoor Panels 7&quot; &amp; 15&quot;: All versions &lt; V14</strong></td>
<td>Update SIMATIC WinCC (TIA Portal) to V15 Update 4 or newer, and then update panel to V15 Update 4 or newer. <a href="https://support.industry.siemens.com/cs/ww/en/view/109755826">https://support.industry.siemens.com/cs/ww/en/view/109755826</a></td>
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<tr>
<td><strong>SIMATIC HMI KTP Mobile Panels KTP400F, KTP700, KTP700F, KTP900 und KTP900F:</strong> All versions &lt; V14</td>
<td>Update SIMATIC WinCC (TIA Portal) to V15 Update 4 or newer, and then update panel to V15 Update 4 or newer. <a href="https://support.industry.siemens.com/cs/ww/en/view/109755826">https://support.industry.siemens.com/cs/ww/en/view/109755826</a></td>
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<td><strong>SIMATIC WinCC Runtime Advanced:</strong> All versions &lt; V14</td>
<td>Update to V15 Update 4 or newer <a href="https://support.industry.siemens.com/cs/ww/en/view/109755826">https://support.industry.siemens.com/cs/ww/en/view/109755826</a></td>
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<tr>
<td><strong>SIMATIC WinCC Runtime Professional:</strong> All versions &lt; V14</td>
<td>Update to V15 Update 4 or newer <a href="https://support.industry.siemens.com/cs/ww/en/view/109755826">https://support.industry.siemens.com/cs/ww/en/view/109755826</a></td>
</tr>
<tr>
<td><strong>SIMATIC HMI Classic Devices (TP/MP/OP/MP Mobile Panel): All versions</strong></td>
<td>See recommendations from section Workarounds and Mitigations</td>
</tr>
</tbody>
</table>

**WORKAROUNDS AND MITIGATIONS**

Siemens has identified the following specific workarounds and mitigations that customers can apply to reduce the risk:
- Restrict network access to the integrated web server.
- Deactivate the web server if not required. The web server is disabled by default.

**GENERAL SECURITY RECOMMENDATIONS**

As a general security measure, Siemens strongly recommends to protect network access to devices with appropriate mechanisms. In order to operate the devices in a protected IT environment, Siemens recommends to configure the environment according to Siemens’ operational guidelines for Industrial Security (Download: [https://www.siemens.com/cert/operational-guidelines-industrial-security](https://www.siemens.com/cert/operational-guidelines-industrial-security)), and to follow the recommendations in the product manuals.

Additional information on Industrial Security by Siemens can be found at: [https://www.siemens.com/industrialsecurity](https://www.siemens.com/industrialsecurity)

**PRODUCT DESCRIPTION**

SIMATIC WinCC Runtime Advanced is a visualization runtime platform used for operator control and monitoring of machines and plants.

SIMATIC WinCC Runtime Professional is a visualization runtime platform used for operator control and monitoring of machines and plants.

SIMATIC HMI Panels are used for operator control and monitoring of machines and plants.

SIMATIC WinCC (TIA Portal) is an engineering software to configure and program SIMATIC Panels, SIMATIC Industrial PCs, and Standard PCs running WinCC Runtime Advanced or SCADA System WinCC Runtime Professional visualization software.

**VULNERABILITY CLASSIFICATION**

The vulnerability classification has been performed by using the CVSS scoring system in version 3.0 (CVSS v3.0) ([https://www.first.org/cvss/](https://www.first.org/cvss/)). The CVSS environmental score is specific to the customer’s environment and will impact the overall CVSS score. The environmental score should therefore be individually defined by the customer to accomplish final scoring.

**Vulnerability CVE-2018-13814**

The integrated web server (port 80/tcp and port 443/tcp) of the affected devices could allow an attacker to inject HTTP headers.

An attacker must trick a valid user who is authenticated to the device into clicking on a malicious link to exploit the vulnerability.

At the time of advisory publication no public exploitation of this security vulnerability was known.

**CVSS v3.0**

- **Base Score**: 4.3

**ADDITIONAL INFORMATION**

For further inquiries on security vulnerabilities in Siemens products and solutions, please contact the Siemens ProductCERT:

[https://www.siemens.com/cert/advisories](https://www.siemens.com/cert/advisories)
HISTORY DATA

V1.0 (2018-11-13): Publication Date

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