SSA-537983: Local Code Execution Vulnerability in SENTRON powermanager V3

Publication Date: 2021-11-09
Last Update: 2021-11-09
Current Version: V1.0
CVSS v3.1 Base Score: 7.8

SUMMARY

SENTRON powermanager V3 is affected by a vulnerability that could allow a local attacker to inject arbitrary code and escalate privileges.

Siemens has released a security patch for SENTRON powermanager V3.6 HF1 and recommends to update to the latest version and apply this patch.

AFFECTED PRODUCTS AND SOLUTION

<table>
<thead>
<tr>
<th>Affected Product and Versions</th>
<th>Remediation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SENTRON powermanager V3:</td>
<td>Update to V3.6 HF1 and apply the security patch <a href="https://support.industry.siemens.com/cs/ww/en/view/64850998/">here</a></td>
</tr>
<tr>
<td>All versions</td>
<td>See further recommendations from section Workarounds and Mitigations</td>
</tr>
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WORKAROUNDS AND MITIGATIONS

Siemens has identified the following specific workarounds and mitigations that customers can apply to reduce the risk:

- Harden the application server to prevent local access by untrusted personnel

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: [here](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: [here](https://www.siemens.com/industrialsecurity)

PRODUCT DESCRIPTION

The SENTRON powermanager power monitoring software analyzes energy consumption by displaying important characteristics for individual devices and for the entire system on an easy-to-understand dashboard.

VULNERABILITY CLASSIFICATION

The vulnerability classification has been performed by using the CVSS scoring system in version 3.1 (CVSS v3.1) ([here](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.

An additional classification has been performed using the CWE classification, a community-developed list of common software security weaknesses. This serves as a common language and as a baseline for weakness identification, mitigation, and prevention efforts. A detailed list of CWE classes can be found at: https://cwe.mitre.org/.

Vulnerability CVE-2021-37207

The affected application assigns improper access rights to a specific folder containing configuration files. This could allow an authenticated local attacker to inject arbitrary code and escalate privileges.

<table>
<thead>
<tr>
<th>CVSS v3.1 Base Score</th>
<th>7.8</th>
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<tbody>
<tr>
<td>CWE</td>
<td>CWE-732: Incorrect Permission Assignment for Critical Resource</td>
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</table>

ACKNOWLEDGMENTS

Siemens thanks the following parties for their efforts:

- Noam Moshe from Claroty for coordinated disclosure

ADDITIONAL INFORMATION

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

https://www.siemens.com/cert/advisories

HISTORY DATA

V1.0 (2021-11-09): Publication Date

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