

## **SSA-884497: Multiple Vulnerabilities in SINEMA Remote Connect Server**

Publication Date: 2019-09-10  
Last Update: 2019-09-10  
Current Version: V1.0  
CVSS v3.0 Base Score: 8.1

### **SUMMARY**

The latest update for SINEMA Remote Connect Server fixes four vulnerabilities in the web interface. Two of the vulnerabilities are missing protection mechanisms for password guessing and for Cross Site Request Forgery attacks, the third one is a missing authentication check, and the fourth one could allow an attacker with administrative privileges to obtain a device password hash.

Siemens has released updates and recommends to update to the newest version.

### **AFFECTED PRODUCTS AND SOLUTION**

<b>Affected Product and Versions</b>	<b>Remediation</b>
SINEMA Remote Connect Server: All versions < V2.0 SP1	Update to V2.0 SP1 <a href="https://support.industry.siemens.com/cs/ww/en/view/109770899">https://support.industry.siemens.com/cs/ww/en/view/109770899</a>

### **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 SINEMA Remote Connect web interface
- Do not access links from untrusted sources while logged in at SINEMA Remote Connect

### **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>), 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>

### **PRODUCT DESCRIPTION**

SINEMA Remote Connect ensures management of secure connections (VPN) between headquarters, service technicians and the installed machines or plants.

## **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/>). 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-2019-13918**

The web interface has no means to prevent password guessing attacks.

The vulnerability could be exploited by an attacker with network access to the vulnerable software, requiring no privileges and no user interaction. The vulnerability could allow full access to the web interface.

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

CVSS v3.0 Base Score        8.1  
CVSS Vector                CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:H/A:H/E:P/RL:O/RC:C

### **Vulnerability CVE-2019-13919**

Some pages that should only be accessible by a privileged user can also be accessed by a non-privileged user.

The security vulnerability could be exploited by an attacker with network access and valid credentials for the web interface. No user interaction is required. The vulnerability could allow an attacker to access information that he should not be able to read. The affected information does not include passwords.

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

CVSS v3.0 Base Score        4.3  
CVSS Vector                CVSS:3.0/AV:N/AC:L/PR:L/UI:N/S:U/C:L/I:N/A:N/E:P/RL:O/RC:C

### **Vulnerability CVE-2019-13920**

Some parts of the web application are not protected against Cross Site Request Forgery (CSRF) attacks.

The security vulnerability could be exploited by an attacker that is able to trigger requests of a logged-in user to the application. The vulnerability could allow switching the connectivity state of a user or a device.

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

CVSS v3.0 Base Score        3.4  
CVSS Vector                CVSS:3.0/AV:N/AC:H/PR:N/UI:R/S:C/C:N/I:L/A:N/E:P/RL:O/RC:C

### **Vulnerability CVE-2019-13922**

An attacker with administrative privileges can obtain the hash of a connected device's password.

The security vulnerability could be exploited by an attacker with network access to the SINEMA Remote Connect Server and administrative privileges.

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

CVSS v3.0 Base Score        6.6  
CVSS Vector                CVSS:3.0/AV:N/AC:H/PR:H/UI:N/S:C/C:N/I:L/A:H/E:P/RL:O/RC:C

## **ACKNOWLEDGMENTS**

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- Hendrik Derre and Tijl Deneut from HOWEST 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 (2019-09-10): Publication Date

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