Schneider Electric Security Notification

Easergy Builder (V1.1)

9 June 2020 (13 May 2021)

Overview

Researchers from Rostelecom-Solar have made Schneider Electric aware of multiple vulnerabilities affecting the company's Easergy Builder configuration tool. Schneider Electric has worked closely with Ilya Karpov and Evgeniy Druzhinin of Rostelecom-Solar to remediate the vulnerabilities and appreciates their collaboration and commitment to transparency. The vulnerabilities have been remediated via a free software update, which is available immediately by contacting Schneider Electric's Customer Care Center.

Access to the customer's network is required for the majority of the disclosed vulnerabilities to be exploited. Therefore, if the customer's network is well protected and monitored for intrusion, and care is taken to obtain software updates from a trusted source, the general risk of exploitation can be substantially minimized.

Schneider Electric encourages customers to upgrade to the new software as soon as possible. The company further encourages customers to ensure any firmware files used to update the device are acquired from trusted sources; to operate the products on properly segmented control networks; to adequately secure any workstation that has been configured to have access to the product; and to follow the remediation and general security recommendations below.

Affected Products

Easergy Builder version 1.4.7.2 and older

Easergy Builder is used by expert engineering teams to configure the T300 grid automation platform.

Vulnerability Details

CVE ID: **CVE-2020-7514**

CVSS v3.0 Base Score 8.4 | High | CVSS:3.0/AV:L/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

A CWE-327: Use of a Broken or Risky Cryptographic Algorithm vulnerability exists which could allow an attacker access to the authorization credentials for a device and gain full access.

CVE ID: **CVE-2020-7515**

CVSS v3.0 Base Score 8.4 | High | CVSS:3.0/AV:L/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

A CWE-798: Use of Hard-coded Credentials vulnerability exists which could allow an attacker to decrypt a password.

CVE ID: **CVE-2020-7516**

CVSS v3.0 Base Score 8.4 | High | CVSS:3.0/AV:L/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

A CWE-312: Cleartext Storage of Sensitive Information vulnerability exists which could allow an attacker access to login credentials.

CVE ID**: CVE-2020-7517**

CVSS v3.0 Base Score 7.1 | High | CVSS:3.0/AV:L/AC:L/PR:N/UI:N/S:C/C:H/I:N/A:N

A CWE-312: Cleartext Storage of Sensitive Information vulnerability exists which could allow an attacker to read user credentials.

CVE ID: **CVE-2020-7518**

CVSS v3.0 Base Score 8.2 | High | CVSS:3.0/AV:N/AC:L/PR:N/UI:R/S:C/C:N/I:L/A:H

A CWE-20: Improper input validation vulnerability exists which could allow an attacker to modify project configuration files.

CVE ID**: CVE-2020-7519**

CVSS v3.0 Base Score 7.3 | High | CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:L/A:L

A CWE-521: Weak Password Requirements vulnerability exists which could allow an attacker to compromise a user account.

Remediation

This vulnerability is fixed in Easergy Builder version 1.6.3.0 and is available from your Schneider Electric Customer Care Center.

Additionally, Schneider Electric recommends customers apply the following mitigations to further reduce risk:

- Use a separate secure local network and use secure computer access controls

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Product Information

Easergy Builder is used by expert engineering teams to configure the T300 grid automation platform.

Product Category - Medium Voltage Distribution and Grid Automation

Learn more about Schneider Electric's product categories here: http://www.se.com/us/en/all-products

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 for the devices that it is intended for.
- 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 laptops 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.

Acknowledgements

Schneider Electric recognizes the following researcher(s) for identifying and helping to coordinate a response to this vulnerability:

CVE	Researcher(s) Name
CVE-2020-7514, CVE-2020-7515, CVE-2020-7516, CVE-2020-7517, CVE-2020-7518, CVE-2020-7519	Evgeniy Druzhinin and Ilya Karpov of Rostelecom-Solar

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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, please contact your local Schneider Electric representative and/or Schneider Electric Industrial Cybersecurity Services. These organizations will be fully aware of this situation and can support you through the process.

https://www.se.com/ww/en/work/support/cybersecurity/overview.jsp

https://www.se.com/ww/en/work/services/field-services/industrial-automation/industrial-cybersecurity/industrial-cybersecurity.jsp

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At Schneider, we believe **access to energy and digital** is a basic human right. We empower all to **make the most of their energy and resources**, ensuring **Life Is On** everywhere, for everyone, at every moment.

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 about our **Meaningful Purpose, Inclusive and Empowered** values.

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Revision Control:

Version 1.0 *9-Jun-2020*	Original Release
Version 1.1 *13-May-2021*	Updated CWE for CVE-2020-7515 and CVE-2020-7516

Product Security Office

Digitally signed by Product Security Office
Date: 2021.05.13 18:21:44 -04'00'