

Schneider Electric Security Notification

IGSS (Interactive Graphical SCADA System)

14 December 2021

Overview

Schneider Electric is aware of multiple vulnerabilities in its Data Collector module for the IGSS (Interactive Graphical SCADA System) product.

The [IGSS](#) product is a state-of-the-art SCADA system used for monitoring and controlling industrial processes. IGSS communicates with all major industry standard PLC drivers.

Failure to apply the remediations provided below may risk loss of data or denial of service, which in worst case could result in problems controlling the SCADA System from the machine running IGSS in production.

Affected Product and Versions

IGSS Data Collector (dc.exe) V15.0.0.21320 and prior

Vulnerability Details

CVE ID: **CVE-2021-22823**

CVSS v3.1 Base Score 6.5 | Medium | CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:H/A:L

A *CWE-306: Missing Authentication for Critical Function* vulnerability exists that could cause deletion of arbitrary files in the context of the user running IGSS due to lack of validation of network messages.

CVE ID: **CVE-2021-22824**

CVSS v3.1 Base Score 5.9 | Medium | CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:N/A:H

A *CWE-120: Buffer Copy without Checking Size of Input* vulnerability exists that could result in denial of service, due to missing length check on user-supplied data from a constructed message received on the network.

Remediation

Version 15.0.0.21321 of the IGSS DC module: dc.exe includes fixes for these vulnerabilities and is available for download through IGSS Master > Update IGSS Software or here:

<https://igss.schneider-electric.com/igss/igssupdates/v150/IGSSUPDATE.ZIP>

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.

Schneider Electric Security Notification

If customers choose not to apply the remediation provided above, they should immediately apply the following mitigations to reduce the risk of exploit:

- Only accept incoming connections from machines, which name have been added as a Station in the IGSS System Configuration module by setting the registry key called “MatchWinName” to 1 under: “HKEY_CURRENT_USER\SOFTWARE\Schneider Electric\IGSS32\V15.00.00\DC_HKLM”.
- Follow the general security recommendation below and verify that devices are isolated on a private network and that firewalls are configured with strict boundaries for devices that require remote access.

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:

CVE	Researcher
CVE-2021-22823, CVE-2021-22824	Tenable

Schneider Electric Security Notification

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:

<p>Version 1.0 14 December 2021</p>	<p>Original Release</p>
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