

OMICRON Security Advisory

Multiple 3rd Party Denial-of-Service Vulnerabilities in StationGuard and StationScout < 2.00

Security Advisory ID: OSA-2

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1 Summary

StationGuard device image 1.10.0056 and earlier and StationScout device image 1.30.0040 and earlier are affected by vulnerabilities in 3rd party components that may allow a remote attacker to cause a denial-of-service of the device. Specially crafted input (e.g., files, network packets, ...) could crash a process that will be automatically restarted. This can affect the reliable operation of the device while the attack persists. The affected services could for example prevent communication from/to StationGuard and StationScout and StationGuard could miss alerts during that time.

2 Affected OMICRON Products

This vulnerability affects the following OMICRON product(s):

Products	Affected versions
StationGuard Image	1.00.0048 on all platforms 1.10.0056 on all platforms
StationScout Image	1.00.0011 on all platforms 1.10.0017 on all platforms 1.15.0024 on all platforms 1.30.0040 on all platforms

3 Vulnerability Classification

The vulnerability has been classified using the [CVSS calculator](#) v3.1 as follows:

CVE-2020-8265
CWE-416: Use After Free
Base Score: 8.1
Risk Class: High
Vector: CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:H/A:H

CVE-2021-23840
CWE-190: Integer Overflow or Wraparound
Base Score: 7.5
Risk Class: High
Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H

CVE-2021-3449
CWE-476: NULL Pointer Dereference
Base Score: 5.9
Risk Class: MEDIUM
Vector: CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:N/A:H

CVE-2021-22930
CWE-416: Use After Free
Base Score: 7.5
Risk Class: HIGH

4 Security Advisory

4.1 Mitigation

OMICRON has released StationGuard device image version 2.00.0068 together with the Control Software version 2.0.69.0 and StationScout device image version 2.00.0056 together with desktop software version 2.0.82.0 which address the issues and fix the vulnerabilities. It is strongly recommended that customers currently using the affected versions install the latest update available on the customer portal (registration required) as soon as possible to ensure the security of their system.

More information about StationGuard and StationScout, including the link to download them, can be found on

<https://www.omicronenergy.com/en/products/stationguard/>
and
<https://www.omicronenergy.com/en/products/stationscout/>

4.2 Workaround

Always use the latest version of StationGuard and StationScout. Furthermore, it is recommended to protect the TCP port 20499 against unauthorized access via firewall rules and/or VPN solutions. Only import files from trusted sources into StationScout and StationGuard.

5 Acknowledgments

None.

6 Revision History

Revision	Description	Release Date
1.0	Initial publication	2021-12-15
1.1	Product version information updated. Vulnerability references added	2023-11-22

OMICRON is an international company serving the electrical power industry with innovative testing and diagnostic solutions. The application of OMICRON products allows users to assess the condition of the primary and secondary equipment on their systems with complete confidence. Services offered in the area of consulting, commissioning, testing, diagnosis and training make the product range complete.

Customers in more than 140 countries rely on the company's ability to supply leading edge technology of excellent quality. Service centers on all continents provide a broad base of knowledge and extraordinary customer support. All of this together with our strong network of sales partners is what has made our company a market leader in the electrical power industry.

For more information, additional literature, and detailed contact information of our worldwide offices please visit our website.

www.omicronenergy.com