

OMICRON Security Advisory

Linux Kernel Vulnerability in IGB Driver affecting StationGuard and StationScout

Security Advisory ID: OSA-8

OMICRON Product Security Team | security@omicronenergy.com

1 Summary

Linux Kernel vulnerability CVE-2023-45871 allows an attacker to cause memory corruption in the network driver of the *BX device by sending special crafted network traffic. The behaviour of the system caused by memory corruption is highly unpredictable: the device is either restarted, processes crash, or a manual reboot is required.

This Linux Kernel vulnerability was found and reported by OMICRON electronics (see [Linux kernel stable tree](#)).

2 Affected OMICRON Products

The vulnerability affects the following OMICRON products:

Products	Affected versions
StationGuard Image	2.10.0073 on all platforms 2.20.0080 on all platforms 2.21.0081 on all platforms
StationScout Image	2.10.0059 on all platforms 2.20.0063 on all platforms 2.21.0064 on all platforms

3 Vulnerability Classification

CVE-2023-45871

CWE-120: Buffer Copy without Checking Size of Input ('Classic Buffer Overflow')

Base Score: 9.8

Risk Class: Critical

Vector CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H/E:P/RL:O/RC:C

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4.1 Mitigation

OMICRON has released StationGuard 2.30 (with device image version 2.30.0092) and StationScout 2.30 (with device image version 2.30.0066) which address the issue and fix the vulnerability. 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/>

5 Acknowledgments

None.

6 Revision History

Revision	Description	Release Date
1.0	Initial publication	2023-31-10
1.1	Product version information updated. Mitigation 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