

# Potential denial of service vulnerability in PROFINET Devices via DCE-RPC Packets

Date: 2021-10-21 Version: 1.0

References: CVE-2019-139461

### **Executive Summary**

A vulnerability in the PROFINET stack implementation in Classic Firmware, HiOS, and HiLCOS could lead to a denial of service via an out of memory condition.

### **Details**

The PROFINET stack implementation does not properly limit internal resource allocation when multiple legitimate diagnostic package requests are sent to the DCE-RPC interface, which can lead to a denial of service condition.

The CVSS score of the vulnerability is rated as 7.5 (High) 1:

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H

## **Impact**

An attacker could use the vulnerability to compromise the availability of the device.

## **Affected Products**

Brand	Product Line / Platform	Product	Version
Hirschmann	Classic	RS, RSR, RSB,	Since 03.0.00
		MACH100,	
		MACH1000,	
		MACH4000, MS,	
		OCTOPUS	
Hirschmann	HiOS	RSP, RSPE, RSPS,	since 05.0.00
		OS2, RED, EES,	
		MSP, OS3,	
		GRS1040.	
Hirschmann	HiLCOS	BAT54-Rail (only)	V8.52 or older

### Solution

Updates are available, which address the vulnerability. Customers are advised to update their product.

Brand	Product Line / Platform	Product	Version
Hirschmann	Classic	RS, RSR, RSB,	Fixed in 09.1.04
		MACH100,	
		MACH1000,	
		MACH4000, MS,	
		OCTOPUS	
Hirschmann	HiOS	RSP, RSPE, RSPS,	Fixed in 08.4.00
		OS2, RED, EES,	
		MSP, OS3,	
		GRS1040.	
Hirschmann	HiLCOS	BAT54-Rail (only)	Fixed in V8.80



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### For Help or Feedback

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For technical support and other requests, please visit https://hirschmann-support.belden.com.

#### **Related Links**

• [1] https://nvd.nist.gov/vuln/detail/CVE-2019-13946

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### Revisions

V1.0 (2021-10-21): Bulletin published.

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