

CYBER SECURITY NOTIFICATION

PEPPERL+FUCHS: Multiple VMT Vision System solutions PROFINET Products – Vulnerability may allow remote attackers to cause a Denial Of Service

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Vulnerabilities

Identifier	Vulnerability Type	Description
CVE-2021-20986,	CWE-121: Stack-	When handling Read Implicit Request
Hilscher 2020-12-03	based Buffer	services, depending on the content of the
"Denial of Service	Overflow	request, the Hilscher PROFINET IO
vulnerability in		Device V3 protocol stack does not properly
PROFINET IO		limit available resources. This may lead to
Device"		shortage of resources which in the end
		may lead to a Denial Of Service.

Severity

	Base Score and Vector
Ī	7.5 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H)

Affected products

Item No.	Item	Version of Profinet Communication Firmware
209287	PCZUBHIL CIFX 50-RE PCI SL	V3.14.06 and previous
225295	PCZUBHIL CIFX 50-RE PCI ML	V3.14.06 and previous
249961	PCZUBHIL CIFX 50E-RE PCIe +SL	V3.14.06 and previous
254661	PCZUBHIL CIFX 50E-RE PCIE +ML	V3.14.06 and previous



Summary

Critical vulnerability has been discovered in the utilized component PROFINET IO Device by Hilscher Gesellschaft für Systemautomation mbH.

The impact of the vulnerability on the affected device is that it can

- no longer perform acyclic requests
- may drop all established cyclic connections may
- disappear completely from the network

For more information see advisory by Hilscher: https://kb.hilscher.com/display/ISMS/2020-12-03+Denial+of+Service+vulnerability+in+PROFINET+IO+Device

Impact

Pepperl+Fuchs analyzed and identified affected devices. Remote attackers may cause a cause a Denial Of Service of the product.

Solution

An external protective measure is required.

- Minimize network exposure for affected products and ensure that they are not accessible via the Internet.
- Isolate affected products from the corporate network.
- If remote access is required, use secure methods such as virtual private networks (VPNs).

Reported by

Hilscher Gesellschaft für Systemautomation mbH Coordinated by CERT@VDE

Support

For support please contact your local VMT system solution service specialists.