

Denial of Service (DoS) and potential unspecified Vulnerability in MELSEC-F Series Ethernet interface block

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Mitsubishi Electric Corporation

■ Overview

Denial of Service (DoS) and potential unspecified vulnerability exists in a Ethernet interface block of MELSEC-F series. A malicious attacker may cause DoS condition in communication function of the product or other unspecified effects by sending specially crafted packets. (CVE-2021-20612)

The product models and firmware versions affected by this vulnerability are listed below.

■ CVSS

CVE-2021-20612 CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H Base Score:7.5

■ Affected products

The following products and versions are affected:

- FX3U-ENET:Firmware version 1.14 and prior
- FX3U-ENET-L:Firmware version 1.14 and prior
- FX3U-ENET-P502:Firmware version 1.14 and prior

The product version is indicated by "VERSION" on the label attached to the right side of the product.

■ Description

Denial of Service (DoS) and potential unspecified vulnerability exists in the Ethernet interface block of MELSEC-F series due to Lack of Administrator Control over Security (CWE-671), unnecessary opening of TCP port.

■ Impact

A malicious attacker may cause DoS condition in communication function of the product(*) or other unspecified effects by sending specially crafted packets. In addition, system reset is required for recovery.

* Control by MELSEC-F series PLC is not affected.

■ Countermeasures

The fixed products and versions are as follows:

- FX3U-ENET:Firmware version 1.16 or later
- FX3U-ENET-L:Firmware version 1.16 or later
- FX3U-ENET-P502:Firmware version 1.16 or later

■ Workarounds

In order to minimize the risk of exploiting this vulnerability, Mitsubishi Electric recommends customers to take the following mitigation.

- Use a firewall or virtual private network (VPN), etc. to prevent unauthorized access when Internet access is required.
- Use within a LAN and block access from untrusted networks and hosts through firewalls.

■ Contact information

Please contact your local Mitsubishi Electric representative.

〈Inquiries | MITSUBISHI ELECTRIC FA〉

<https://www.mitsubishielectric.com/fa/support/index.html>