# Information Disclosure Vulnerability in MELSEC Series

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#### ■ Overview

An information disclosure vulnerability due to Plaintext Storage of Password(CWE-256¹) exists in MELSEC iQ-F, iQ-R, Q, L Series. An unauthenticated attacker may be able to login to FTP server or Web server by obtaining plaintext credentials stored in project files. (CVE-2023-0457)

#### ■CVSS<sup>2</sup>

CVE-2023-0457 CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N Base score:7.5

### ■Affected products

The following products are affected:

Series	Product name	Version
MELSEC iQ-F Series	FX5U(C) CPU modules, All models	All version
	FX5UJ CPU modules, All models	All version
	FX5S CPU modules, All models	All version
	FX5-ENET	All version
	FX5-ENET/IP	All version
MELSEC iQ-R Series	R00/01/02CPU	All version
	R04/08/16/32/120(EN)CPU	All version
	R08/16/32/120SFCPU	All version
	R08/16/32/120PCPU	All version
	R08/16/32/120PSFCPU	All version
	RJ71EN71	All version
	R12CCPU-V	All version
MELSEC-Q Series	Q03UDECPU, Q04/06/10/13/20/26/50/100UDEHCPU	All version
	Q03/04/06/13/26UDVCPU	All version
	Q04/06/13/26UDPVCPU	All version
	QJ71E71-100	All version
MELSEC-L Series	L02/06/26CPU(-P), L26CPU-(P)BT	All version
	LJ71E71-100	All version

### ■ Description

An information disclosure vulnerability due to Plaintext Storage of a Password(CWE-256) exists in MELSEC iQ-F, iQ-R, Q, L Series.

### ■Impact

An unauthenticated attacker may be able to login to FTP server or Web server by obtaining plaintext credentials stored in project files.

# ■ Countermeasures

Please carry out mitigations/workarounds.

# ■ Mitigations/Workarounds

Mitsubishi Electric recommends that customers take the following mitigation measures to minimize the risk of exploiting this vulnerability:

- Encrypt the communication data or project files when sending and receiving or sharing these files.
- 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.
- For MELSEC iQ-F or iQ-R Series, use IP filter function\* to block access from untrusted hosts.
- Restrict physical access to affected products.

<sup>\*:</sup> For details on the IP filter function, please refer to the following manual for each product.

<sup>&</sup>quot;12.1 IP Filter Function" in the MELSEC iQ-F FX5 User's Manual (Ethernet Communication)

<sup>&</sup>quot;1.13 Security" - "IP filter" in the MELSEC iQ-R Ethernet User's Manual(Application)

<sup>1</sup> https://cwe.mitre.org/data/definitions/256.html

https://www.first.org/cvss/v3.1/specification-document

# ■Acknowledgement

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# ■ Contact information

Please contact your local Mitsubishi Electric representative.

<Inquiries | MITSUBISHI ELECTRIC FA>

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

# **■**Update history

June 20, 2023

Added modules to "Affected products".

[MELSEC iQ-R Series]

R00/01/02CPU, R04/08/16/32/120(EN)CPU, R08/16/32/120SFCPU,

R08/16/32/120PCPU, R08/16/32/120PSFCPU, RJ71EN71, R12CCPU-V

[MELSEC-Q Series]

Q03UDECPU, Q04/06/10/13/20/26/50/100UEDHCPU,

Q03/04/06/13/26UDVCPU, Q04/06/13/26UDPVCPU, QJ71E71-100

[MELSEC-L Series]

L02/06/26CPU(-P), L26CPU-(P)BT, LJ71E71-100