

# Information disclosure vulnerability in MELSEC iQ-R Series CPU Module

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Mitsubishi Electric Corporation

## ■ Overview

An information disclosure vulnerability exists in MELSEC iQ-R Series CPU module due to Exposure of Sensitive Information to an Unauthorized Actor (CWE-200). A remote attacker can acquire legitimate user names registered in the module by brute-force attack on user names.

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

## ■ CVSS

CVE-2021-20594 CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:N/A:N Base Score:5.9

## ■ Affected products

The following modules are affected:

Model name	Firmware Version
R08/16/32/120SFCPU	all versions
R08/16/32/120PSFCPU	all versions

## ■ Description

An information disclosure vulnerability due to Exposure of Sensitive Information to an Unauthorized Actor (CWE-200) exists in MELSEC iQ-R Series CPU module.

## ■ Impact

A remote attacker can acquire legitimate user names registered in the module by brute-force attack on user names. However, it is only possible to log-in to the unit, providing that the attacker can acquire the password. Therefore it is not possible to log-in immediately, even if illegal legitimate user name acquisition is succeeded.

## ■ Countermeasures

Mitsubishi Electric will release a fixed version of the firmware to fix this vulnerability in the near future.

## ■ Mitigations/Workarounds

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

- 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.
- Use the IP filter function<sup>※1</sup> to restrict the accessible IP addresses.

※1: MELSEC iQ-R Ethernet User's Manual(Application) Security "IP filter"

## ■ Acknowledgement

Mitsubishi Electric would like to thank Ivan Speziale of Nozomi Networks Labs who reported this vulnerability.

## ■ Contact information

Please contact your local Mitsubishi Electric representative.

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