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:

<table>
<thead>
<tr>
<th>Model name</th>
<th>Firmware Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>R08/16/32/120SFCPU</td>
<td>all versions</td>
</tr>
<tr>
<td>R08/16/32/120PSFCPU</td>
<td>all versions</td>
</tr>
</tbody>
</table>

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※1 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.

< Inquiries | MITSUBISHI ELECTRIC FA >
https://www.mitsubishielectric.com/fa/support/index.html