



# CVE-2021-20599

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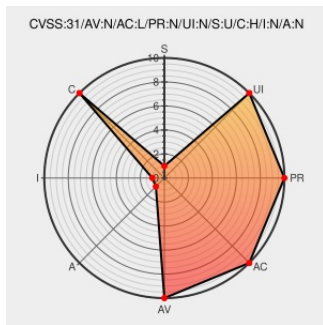
Last Modified on: 10/20/2021 05:34:00 PM UTC

## CVE-2021-20599

[Source: Mitre](#)

[Source: Nist](#)

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Certain versions of [R08psfcpu](#) from [Mitsubishielectric](#) contain the following vulnerability:

Authorization bypass through user-controlled key vulnerability in MELSEC iQ-R series Safety CPU R08/16/32/120SF CPU all versions and MELSEC iQ-R series SIL2 Process CPU R08/16/32/120PSF CPU all versions allows an remote unauthenticated attacker to login to a target CPU module by obtaining credentials other than password.

CVE-2021-20599 has been assigned by [Mitsubishielectric.Psirt@yd.MitsubishiElectric.co.jp](mailto:Psirt@yd.MitsubishiElectric.co.jp) to track the vulnerability - currently rated as **HIGH** severity.

CVSS3 Score: **7.5 - HIGH**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
<b>NETWORK</b>	<b>LOW</b>	<b>NONE</b>	<b>NONE</b>
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
<b>UNCHANGED</b>	<b>HIGH</b>	<b>NONE</b>	<b>NONE</b>

CVSS2 Score: **5 - MEDIUM**

Access Vector	Access Complexity	Authentication
<b>NETWORK</b>	<b>LOW</b>	<b>NONE</b>
Confidentiality Impact	Integrity Impact	Availability Impact
<b>PARTIAL</b>	<b>NONE</b>	<b>NONE</b>

## CVE References

Description	Tags	Link
	<a href="#">www.mitsubishielectric.com/application/pdf</a>	<b>MISC</b> <a href="http://www.mitsubishielectric.com/en/psirt/vulnerability/pdf/2021-011_0001.pdf">www.mitsubishielectric.com/en/psirt/vulnerability/pdf/2021-011_0001.pdf</a>

JVNVU#98578731: 三菱電機製 MELSEC iQ-R シリーズ CPU ユニットにおける複数の脆弱性

[jvn.jp](#)  
[text/xml](#)

[MISC jvn.jp/vu/JVNVU98578731](#)

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There are currently no QIDs associated with this CVE

### Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	<a href="#">Mitsubishielectric</a>	<a href="#">R08psfcpu</a>	-	All	All	All
Operating System	<a href="#">Mitsubishielectric</a>	<a href="#">R08psfcpu Firmware</a>	All	All	All	All
Hardware	<a href="#">Mitsubishielectric</a>	<a href="#">R08sfcpu</a>	-	All	All	All
Operating System	<a href="#">Mitsubishielectric</a>	<a href="#">R08sfcpu Firmware</a>	All	All	All	All
Hardware	<a href="#">Mitsubishielectric</a>	<a href="#">R120psfcpu</a>	-	All	All	All
Operating System	<a href="#">Mitsubishielectric</a>	<a href="#">R120psfcpu Firmware</a>	All	All	All	All
Hardware	<a href="#">Mitsubishielectric</a>	<a href="#">R120sfcpu</a>	-	All	All	All
Operating System	<a href="#">Mitsubishielectric</a>	<a href="#">R120sfcpu Firmware</a>	All	All	All	All
Hardware	<a href="#">Mitsubishielectric</a>	<a href="#">R16psfcpu</a>	-	All	All	All
Operating System	<a href="#">Mitsubishielectric</a>	<a href="#">R16psfcpu Firmware</a>	All	All	All	All
Hardware	<a href="#">Mitsubishielectric</a>	<a href="#">R16sfcpu</a>	-	All	All	All
Operating System	<a href="#">Mitsubishielectric</a>	<a href="#">R16sfcpu Firmware</a>	All	All	All	All
Hardware	<a href="#">Mitsubishielectric</a>	<a href="#">R32psfcpu</a>	-	All	All	All
Operating System	<a href="#">Mitsubishielectric</a>	<a href="#">R32psfcpu Firmware</a>	All	All	All	All
Hardware	<a href="#">Mitsubishielectric</a>	<a href="#">R32sfcpu</a>	-	All	All	All
Operating System	<a href="#">Mitsubishielectric</a>	<a href="#">R32sfcpu Firmware</a>	All	All	All	All

cpe:2.3:h:mitsubishielectric:r08psfcpu:-:\*:\*:\*:\*:\*:

cpe:2.3:o:mitsubishielectric:r08psfcpu\_firmware:\*:\*:\*:\*:\*:







cpe:2.3:h:mitsubishielectric:r08sfcpu:-:\*:\*:\*:\*:\*:

cpe:2.3:o:mitsubishielectric:r08sfcpu\_firmware:\*:\*:\*:\*:\*:

cpe:2.3:h:mitsubishielectric:r120psfcpu:-:*:*:*:*:*:*:
cpe:2.3:o:mitsubishielectric:r120psfcpu_firmware:*:*:*:*:*:*:
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cpe:2.3:h:mitsubishielectric:r16psfcpu:-:*:*:*:*:*:*:
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cpe:2.3:o:mitsubishielectric:r32sfcpu_firmware:*:*:*:*:*:*:



No vendor comments have been submitted for this CVE

### Social Mentions

Source	Title	Posted (UTC)
 @CVEreport	CVE-2021-20599 : Authorization bypass through user-controlled key vulnerability in MELSEC iQ-R series Safety CPU R0... <a href="https://twitter.com/i/web/status/1...">twitter.com/i/web/status/1...</a>	2021-10-14 15:08:43
 @Robo_Alerts	Potentially Critical CVE Detected! CVE-2021-20599 Description: Authorization bypass through user-controlled key vul... <a href="https://twitter.com/i/web/status/1...">twitter.com/i/web/status/1...</a>	2021-10-14 16:00:11
 @workentin	New vulnerability on the NVD: CVE-2021-20599 <a href="https://ift.tt/3iXTWY8">ift.tt/3iXTWY8</a>	2021-10-14 16:41:24
 @xanadulinux	CVE-2021-20599 <a href="https://ift.tt/3iXTWY8">ift.tt/3iXTWY8</a>	2021-10-14 16:52:40
 @WesUncensored	New vulnerability on the NVD: CVE-2021-20599 <a href="https://ift.tt/3iXTWY8">ift.tt/3iXTWY8</a>	2021-10-15 07:33:52
 @threatmeter	Mitsubishi Electric MELSEC iQ-R CPU Module authorization [CVE-2021-20599] A vulnerability has been found in Mitsubi... <a href="https://twitter.com/i/web/status/1...">twitter.com/i/web/status/1...</a>	2021-10-15 07:50:26

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