



CVE-2020-13238

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CVE-2020-13238

Source: Mitre

Source: NIST

CVE.ORG

Print: PDF

CVSS:31/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H



Certain versions of [Melsec Iq-r00cpu](#) from [Mitsubishielectric](#) contain the following vulnerability:

Mitsubishi MELSEC iQ-R Series PLCs with firmware 33 allow attackers to halt the industrial process by sending an unauthenticated crafted packet over the network, because this denial of service attack consumes excessive CPU time. After halting, physical access to the PLC is required in order to restore production.

CVE-2020-13238 has been assigned by [M](#) cve@mitre.org to track the vulnerability - currently rated as **HIGH** severity.

CVSS3 Score: **7.5 - HIGH**

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

CVSS2 Score: **7.8 - HIGH**

Access Vector	Access Complexity	Authentication
NETWORK	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
NONE	NONE	COMPLETE

CVE References

Description	Tags	Link
	Vendor Advisory	CONFIRM
	www.mitsubishielectric.com	www.mitsubishielectric.com/en/psirt/vulnerability/pdf/2020-001_en.pdf
	application/pdf	

Mitsubishi Electric MELSEC iQ-R series (Update A) CISA	Third Party Advisory US Government Resource www.us-cert.gov text/html	MISC www.us-cert.gov/ics/advisories/icsa-20-161-02
JVNVU#97662844: 三菱電機製 MELSEC iQ-R シリーズの Ethernet ポートにおけるリソース枯渇の脆弱性	Third Party Advisory jvn.jp text/xml	MISC jvn.jp/vu/JVNVU97662844/index.html

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Related QID Numbers
590632 Mitsubishi Electric MELSEC iQ-R Series (Update C) Denial of Service (DoS) Vulnerability (ICSA-20-161-02)

Known Affected Configurations (CPE V2.3)						
Type	Vendor	Product	Version	Update	Edition	Language
Hardware 	Mitsubishielectric	Melsec Iq-r00cpu	-	All	All	All
Hardware 	Mitsubishielectric	Melsec Iq-r00cpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r00cpu Firmware	All	All	All	All
Hardware 	Mitsubishielectric	Melsec Iq-r01cpu	-	All	All	All
Hardware 	Mitsubishielectric	Melsec Iq-r01cpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r01cpu Firmware	All	All	All	All
Hardware 	Mitsubishielectric	Melsec Iq-r02cpu	-	All	All	All
Hardware 	Mitsubishielectric	Melsec Iq-r02cpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r02cpu Firmware	All	All	All	All
Hardware 	Mitsubishielectric	Melsec Iq-r04cpu	-	All	All	All
Hardware 	Mitsubishielectric	Melsec Iq-r04cpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r04cpu Firmware	All	All	All	All
Hardware 	Mitsubishielectric	Melsec Iq-r08cpu	-	All	All	All
Hardware 	Mitsubishielectric	Melsec Iq-r08cpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r08cpu Firmware	All	All	All	All
Hardware 	Mitsubishielectric	Melsec Iq-r08fcpu	-	All	All	All
Hardware 	Mitsubishielectric	Melsec Iq-r08fcpu	-	All	All	All
Operating	Mitsubishielectric	Melsec Iq-r08fcpu Firmware	All	All	All	All

System						
Hardware  	Mitsubishielectric	Melsec Iq-r08pcpu	-	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r08pcpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r08pcpu Firmware	All	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r08pcpu Firmware	All	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r08sfcpu	-	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r08sfcpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r08sfcpu Firmware	All	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r08sfcpu Firmware	All	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r120cpu	-	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r120cpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r120cpu Firmware	All	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r120fcpu	-	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r120fcpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r120fcpu Firmware	All	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r120pcpu	-	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r120pcpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r120pcpu Firmware	All	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r120pcpu Firmware	All	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r120sfcpu	-	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r120sfcpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r120sfcpu Firmware	All	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r120sfcpu Firmware	All	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r16cpu	-	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r16cpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r16cpu Firmware	All	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r16fcpu	-	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r16fcpu	-	All	All	All

Hardware  	Mitsubishielectric	Melsec Iq-r16icpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r16fcpu Firmware	All	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r16pcpu	-	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r16pcpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r16pcpu Firmware	All	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r16pcpu Firmware	All	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r16sfcpu	-	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r16sfcpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r16sfcpu Firmware	All	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r16sfcpu Firmware	All	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r32cpu	-	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r32cpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r32cpu Firmware	All	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r32fcpu	-	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r32fcpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r32fcpu Firmware	All	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r32pcpu	-	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r32pcpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r32pcpu Firmware	All	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r32pcpu Firmware	All	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r32sfcpu	-	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-r32sfcpu	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r32sfcpu Firmware	All	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-r32sfcpu Firmware	All	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-rj71en71	-	All	All	All
Hardware  	Mitsubishielectric	Melsec Iq-rj71en71	-	All	All	All
Operating System	Mitsubishielectric	Melsec Iq-rj71en71 Firmware	All	All	All	All

Operating System	Mitsubishielectric	Melsec Iq-rj71en71 Firmware	All	All	All	All
cpe:2.3:h:mitsubishielectric:melsec_iq-r00cpu:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:mitsubishielectric:melsec_iq-r00cpu:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:mitsubishielectric:melsec_iq-r00cpu_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:mitsubishielectric:melsec_iq-r01cpu:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:mitsubishielectric:melsec_iq-r01cpu:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:mitsubishielectric:melsec_iq-r01cpu_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:mitsubishielectric:melsec_iq-r02cpu:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:mitsubishielectric:melsec_iq-r02cpu:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:mitsubishielectric:melsec_iq-r02cpu_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:mitsubishielectric:melsec_iq-r04cpu:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:mitsubishielectric:melsec_iq-r04cpu:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:mitsubishielectric:melsec_iq-r04cpu_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:mitsubishielectric:melsec_iq-r08cpu:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:mitsubishielectric:melsec_iq-r08cpu:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:mitsubishielectric:melsec_iq-r08cpu_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:mitsubishielectric:melsec_iq-r08fcpu:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:mitsubishielectric:melsec_iq-r08fcpu:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:mitsubishielectric:melsec_iq-r08fcpu_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:mitsubishielectric:melsec_iq-r08pcpu:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:mitsubishielectric:melsec_iq-r08pcpu:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:mitsubishielectric:melsec_iq-r08pcpu_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:mitsubishielectric:melsec_iq-r08pcpu_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:mitsubishielectric:melsec_iq-r08sfcpu:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:mitsubishielectric:melsec_iq-r08sfcpu:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:mitsubishielectric:melsec_iq-r08sfcpu_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:mitsubishielectric:melsec_iq-r08sfcpu_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:mitsubishielectric:melsec_iq-r120cpu:-:~::~~::~~::~~::~~::~~::~~:::						

```
cpe:2.3:h:mitsubishielectric:melsec_iq-r120cpu:-:*:*:*:*:*:
```

```
cpe:2.3:o:mitsubishielectric:melsec_iq-r120cpu_firmware:*.***.***.***.
```

```
cpe:2.3:h:mitsubishielectric:melsec_iq-r120fcpu:-:*:*:*:*:*:
```

```
cpe:2.3:h:mitsubishielectric:melsec_iq-r120fcpu:-:*:*:*:*:*:
```

cpe:2.3:o:mitsubishielectric:melsec_iq-r120fcpu_firmware:*:*:*:*:*:

```
cpe:2.3:h:mitsubishielectric:melsec_iq-r120pcpu:-:*:*:*:*:*:
```

```
cpe:2.3:h:mitsubishielectric:melsec_iq-r120pcpu:-:*:*:*:*:*:
```

```
cpe:2.3:o:mitsubishielectric:melsec_iq-r120pcpu_firmware:*:*:*:*:*.*
```

```
cpe:2.3:o:mitsubishielectric:melsec_iq-r120pcpu_firmware:*.*.*.*.*.*.*.*
```

```
cpe:2.3:h:mitsubishielectric:melsec_iq-r120sfcpu:-:*:*:*:*:*:
```

```
cpe:2.3:h:mitsubishielectric:melsec_iq-r120sfcpu:-:*:*:*:*:*:
```

```
cpe:2.3:o:mitsubishielectric:melsec iq-r120sfcpu firmware:.*.*.*.*.*.*.*.*.*.*
```

```
cpe:2.3:o:mitsubishielectric:melsec_iq-r120sfcpu_firmware:*.*.*.*.*.*.*.*.*.*
```

```
cpe:2.3:h:mitsubishielectric:melsec_iq-r16cpu:-:*:*:*:*:*:
```

```
cpe:2.3:h:mitsubishielectric:melsec_iq-r16cpu:-:*:*:*:*:*:
```

cpe:2.3:o:mitsubishielectric:melsec_iq-r16cpu_firmware:*:*:*:*:*:

```
cpe:2.3:h:mitsubishielectric:melsec_iq-r16fcpu:-:*:*:*:*:*:
```

```
cpe:2.3:h:mitsubishielectric:melsec_iq-r16fcpu:-:*:*:*:*:*:
```

```
cpe:2.3:o:mitsubishielectric:melsec iq-r16fcpu firmware:*.***.***.***
```

```
cpe:2.3:h:mitsubishielectric:melsec_iq-r16pcpu:-:*:*:*:*:*:
```

```
cpe:2.3:h:mitsubishielectric:melsec_iq-r16pcpu:-:*:*:*:*:*:
```

```
cpe:2.3:o:mitsubishielectric:melsec:iq-r16pcpu:firmware:*.*.*.*.*.*.*.*.*.*
```

cpe:2.3:o:mitsubishielectric:melsec_iq-r16pcpu_firmware:*:*:*:*:*:

```
cpe:2.3:h:mitsubishielectric:melsec_iq-r16sfcpu:-:*:*:*:*:*:
```

```
cpe:2.3:h:mitsubishielectric:melsec iq-r16sfcpu:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:mitsubishielectric:melsec iq-r16sfcpu firmware:*.*.*.*.*.*.*.*
```

```
cpe:2.3:o:mitsubishielectric:melsec iq-r16sfcpu firmware:*.*.*.*.*.*
```

```
cpe:2.3:h:mitsubishielectric:melsec_iq-r32cpu:-:*:*:*:*:*:
```

```
cpe:2.3:h:mitsubishielectric:melsec_iq-r32cpu:-:*:*:*:*:*:
```

cpe:2.3:o:mitsubishielectric:melsec_iq-r32cpu_firmware:~::~::~:
cpe:2.3:h:mitsubishielectric:melsec_iq-r32fcpu:-~::~::~:
cpe:2.3:h:mitsubishielectric:melsec_iq-r32fcpu:-~::~::~:
cpe:2.3:o:mitsubishielectric:melsec_iq-r32fcpu_firmware:~::~::~:
cpe:2.3:h:mitsubishielectric:melsec_iq-r32pcpu:-~::~::~:
cpe:2.3:h:mitsubishielectric:melsec_iq-r32pcpu:-~::~::~:
cpe:2.3:o:mitsubishielectric:melsec_iq-r32pcpu_firmware:~::~::~:
cpe:2.3:o:mitsubishielectric:melsec_iq-r32pcpu_firmware:~::~::~:
cpe:2.3:h:mitsubishielectric:melsec_iq-r32sfcpu:-~::~::~:
cpe:2.3:h:mitsubishielectric:melsec_iq-r32sfcpu:-~::~::~:
cpe:2.3:o:mitsubishielectric:melsec_iq-r32sfcpu_firmware:~::~::~:
cpe:2.3:o:mitsubishielectric:melsec_iq-r32sfcpu_firmware:~::~::~:
cpe:2.3:h:mitsubishielectric:melsec_iq-rj71en71:-~::~::~:
cpe:2.3:h:mitsubishielectric:melsec_iq-rj71en71:-~::~::~:
cpe:2.3:o:mitsubishielectric:melsec_iq-rj71en71_firmware:~::~::~:
cpe:2.3:o:mitsubishielectric:melsec_iq-rj71en71_firmware:~::~::~:

No vendor comments have been submitted for this CVE

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