



CVE-2020-1647

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CVE-2020-1647 - advisory for JSA11034

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

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



Certain versions of [Junos](#) from [Juniper](#) contain the following vulnerability:

On Juniper Networks SRX Series with ICAP (Internet Content Adaptation Protocol) redirect service enabled, a double free vulnerability can lead to a Denial of Service (DoS) or Remote Code Execution (RCE) due to processing of a specific HTTP message.

Continued processing of this specific HTTP message may result in an extended Denial of Service (DoS). The offending HTTP message that causes this issue may originate both from the HTTP server or the client. This issue affects Juniper Networks Junos OS on SRX Series: 18.1 versions prior to 18.1R3-S9; 18.2 versions prior to 18.2R3-S3; 18.3 versions prior to 18.3R2-S4, 18.3R3-S1; 18.4 versions prior to 18.4R2-S5, 18.4R3; 19.1 versions prior to 19.1R2; 19.2 versions prior to 19.2R1-S2, 19.2R2; 19.3 versions prior to 19.3R2. This issue does not affect Juniper Networks Junos OS prior to 18.1R1.

CVE-2020-1647 has been assigned by [J sirt@juniper.net](#) to track the vulnerability - currently rated as **CRITICAL** severity.

Juniper SIRT is not aware of any malicious exploitation of this vulnerability.

Vulnerability Patch/Work Around

Disable ICAP redirect service otherwise there are no viable workarounds for this issue.

CVSS3 Score: **9.8 - CRITICAL**

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

CVSS2 Score: **6.8 - MEDIUM**

Access

Access

Authentication

Vector	Complexity	
NETWORK	MEDIUM	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
PARTIAL	PARTIAL	PARTIAL

CVE References		
Description	Tags	Link
2020-07 Security Bulletin: Junos OS: SRX Series: Double free vulnerability can lead to DoS or remote code execution due to the processing of a specific HTTP message when ICAP redirect service is enabled (CVE-2020-1647) - Juniper Networks	Vendor Advisory kb.juniper.net text/html	 CONFIRM kb.juniper.net/JSA11034
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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
Operating System	Juniper	Junos	18.1	-	All	All
Operating System	Juniper	Junos	18.1	r1	All	All
Operating System	Juniper	Junos	18.1	r2	All	All
Operating System	Juniper	Junos	18.1	r2-s1	All	All
Operating System	Juniper	Junos	18.1	r2-s2	All	All
Operating System	Juniper	Junos	18.1	r2-s4	All	All
Operating System	Juniper	Junos	18.1	r3	All	All
Operating System	Juniper	Junos	18.1	r3-s1	All	All
Operating System	Juniper	Junos	18.1	r3-s2	All	All
Operating System	Juniper	Junos	18.1	r3-s3	All	All
Operating System	Juniper	Junos	18.1	r3-s4	All	All
Operating System	Juniper	Junos	18.1	r3-s6	All	All

Operating System	Juniper	Junos	18.1	r3-s7	All	All
Operating System	Juniper	Junos	18.1	r3-s8	All	All
Operating System	Juniper	Junos	18.2	-	All	All
Operating System	Juniper	Junos	18.2	r1	All	All
Operating System	Juniper	Junos	18.2	r1	-	All
Operating System	Juniper	Junos	18.2	r1-s3	All	All
Operating System	Juniper	Junos	18.2	r1-s4	All	All
Operating System	Juniper	Junos	18.2	r1-s5	All	All
Operating System	Juniper	Junos	18.2	r2	All	All
Operating System	Juniper	Junos	18.2	r2-s1	All	All
Operating System	Juniper	Junos	18.2	r2-s2	All	All
Operating System	Juniper	Junos	18.2	r2-s3	All	All
Operating System	Juniper	Junos	18.2	r2-s4	All	All
Operating System	Juniper	Junos	18.2	r2-s5	All	All
Operating System	Juniper	Junos	18.2	r2-s6	All	All
Operating System	Juniper	Junos	18.2	r3	All	All
Operating System	Juniper	Junos	18.2	r3-s1	All	All
Operating System	Juniper	Junos	18.2	r3-s2	All	All
Operating System	Juniper	Junos	18.3	-	All	All
Operating System	Juniper	Junos	18.3	r1	All	All
Operating System	Juniper	Junos	18.3	r1-s1	All	All
Operating System	Juniper	Junos	18.3	r1-s2	All	All
Operating System	Juniper	Junos	18.3	r1-s3	All	All

Operating System	Juniper	Junos	18.3	r1-s5	All	All
Operating System	Juniper	Junos	18.3	r1-s6	All	All
Operating System	Juniper	Junos	18.3	r2	All	All
Operating System	Juniper	Junos	18.3	r2-s1	All	All
Operating System	Juniper	Junos	18.3	r2-s2	All	All
Operating System	Juniper	Junos	18.3	r2-s3	All	All
Operating System	Juniper	Junos	18.3	r3	All	All
Operating System	Juniper	Junos	18.4	-	All	All
Operating System	Juniper	Junos	18.4	r1	All	All
Operating System	Juniper	Junos	18.4	r1-s1	All	All
Operating System	Juniper	Junos	18.4	r1-s2	All	All
Operating System	Juniper	Junos	18.4	r1-s5	All	All
Operating System	Juniper	Junos	18.4	r1-s6	All	All
Operating System	Juniper	Junos	18.4	r2	All	All
Operating System	Juniper	Junos	18.4	r2-s1	All	All
Operating System	Juniper	Junos	18.4	r2-s2	All	All
Operating System	Juniper	Junos	18.4	r2-s3	All	All
Operating System	Juniper	Junos	18.4	r2-s4	All	All
Operating System	Juniper	Junos	19.1	-	All	All
Operating System	Juniper	Junos	19.1	r1	All	All
Operating System	Juniper	Junos	19.1	r1-s1	All	All
Operating System	Juniper	Junos	19.1	r1-s2	All	All
Operating System	Juniper	Junos	19.1	r1-s3	All	All

Operating System	Juniper	Junos	19.1	r1-s4	All	All
Operating System	Juniper	Junos	19.2	-	All	All
Operating System	Juniper	Junos	19.2	r1	All	All
Operating System	Juniper	Junos	19.2	r1-s1	All	All
Operating System	Juniper	Junos	19.3	-	All	All
Operating System	Juniper	Junos	19.3	r1	All	All
Operating System	Juniper	Junos	19.3	r1-s1	All	All
Operating System	Juniper	Junos	18.1	-	All	All
Operating System	Juniper	Junos	18.1	r1	All	All
Operating System	Juniper	Junos	18.1	r2	All	All
Operating System	Juniper	Junos	18.1	r2-s1	All	All
Operating System	Juniper	Junos	18.1	r2-s2	All	All
Operating System	Juniper	Junos	18.1	r2-s4	All	All
Operating System	Juniper	Junos	18.1	r3	All	All
Operating System	Juniper	Junos	18.1	r3-s1	All	All
Operating System	Juniper	Junos	18.1	r3-s2	All	All
Operating System	Juniper	Junos	18.1	r3-s3	All	All
Operating System	Juniper	Junos	18.1	r3-s4	All	All
Operating System	Juniper	Junos	18.1	r3-s6	All	All
Operating System	Juniper	Junos	18.1	r3-s7	All	All
Operating System	Juniper	Junos	18.1	r3-s8	All	All
Operating System	Juniper	Junos	18.2	-	All	All
Operating System	Juniper	Junos	18.2	r1	All	All

Operating System	Juniper	Junos	18.2	r1	-	All
Operating System	Juniper	Junos	18.2	r1-s3	All	All
Operating System	Juniper	Junos	18.2	r1-s4	All	All
Operating System	Juniper	Junos	18.2	r1-s5	All	All
Operating System	Juniper	Junos	18.2	r2	All	All
Operating System	Juniper	Junos	18.2	r2-s1	All	All
Operating System	Juniper	Junos	18.2	r2-s2	All	All
Operating System	Juniper	Junos	18.2	r2-s3	All	All
Operating System	Juniper	Junos	18.2	r2-s4	All	All
Operating System	Juniper	Junos	18.2	r2-s5	All	All
Operating System	Juniper	Junos	18.2	r2-s6	All	All
Operating System	Juniper	Junos	18.2	r3	All	All
Operating System	Juniper	Junos	18.2	r3-s1	All	All
Operating System	Juniper	Junos	18.2	r3-s2	All	All
Operating System	Juniper	Junos	18.3	-	All	All
Operating System	Juniper	Junos	18.3	r1	All	All
Operating System	Juniper	Junos	18.3	r1-s1	All	All
Operating System	Juniper	Junos	18.3	r1-s2	All	All
Operating System	Juniper	Junos	18.3	r1-s3	All	All
Operating System	Juniper	Junos	18.3	r1-s5	All	All
Operating System	Juniper	Junos	18.3	r1-s6	All	All
Operating System	Juniper	Junos	18.3	r2	All	All
Operating System	Juniper	Junos	18.3	r2-s1	All	All

Operating System	Juniper	Junos	18.3	r2-s2	All	All
Operating System	Juniper	Junos	18.3	r2-s3	All	All
Operating System	Juniper	Junos	18.3	r3	All	All
Operating System	Juniper	Junos	18.4	-	All	All
Operating System	Juniper	Junos	18.4	r1	All	All
Operating System	Juniper	Junos	18.4	r1-s1	All	All
Operating System	Juniper	Junos	18.4	r1-s2	All	All
Operating System	Juniper	Junos	18.4	r1-s5	All	All
Operating System	Juniper	Junos	18.4	r1-s6	All	All
Operating System	Juniper	Junos	18.4	r2	All	All
Operating System	Juniper	Junos	18.4	r2-s1	All	All
Operating System	Juniper	Junos	18.4	r2-s2	All	All
Operating System	Juniper	Junos	18.4	r2-s3	All	All
Operating System	Juniper	Junos	18.4	r2-s4	All	All
Operating System	Juniper	Junos	19.1	-	All	All
Operating System	Juniper	Junos	19.1	r1	All	All
Operating System	Juniper	Junos	19.1	r1-s1	All	All
Operating System	Juniper	Junos	19.1	r1-s2	All	All
Operating System	Juniper	Junos	19.1	r1-s3	All	All
Operating System	Juniper	Junos	19.1	r1-s4	All	All
Operating System	Juniper	Junos	19.2	-	All	All
Operating System	Juniper	Junos	19.2	r1	All	All
Operating System	Juniper	Junos	19.2	r1-s1	All	All

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Operating System	Juniper	Junos	19.3	-	All	All
Operating System	Juniper	Junos	19.3	r1	All	All
Operating System	Juniper	Junos	19.3	r1-s1	All	All
cpe:2.3:o:juniper:junos:18.1:-:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.1:r1:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.1:r2:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.1:r2-s1:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.1:r2-s2:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.1:r2-s4:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.1:r3:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.1:r3-s1:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.1:r3-s2:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.1:r3-s3:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.1:r3-s4:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.1:r3-s6:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.1:r3-s7:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.1:r3-s8:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.2:-:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.2:r1:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.2:r1:-:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.2:r1-s3:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.2:r1-s4:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.2:r1-s5:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.2:r2:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.2:r2-s1:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.2:r2-s2:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.2:r2-s3:*:*:*:*:*:						


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cpe:2.3:o:juniper:junos:18.2:r2-s4:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.2:r2-s5:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.2:r2-s6:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.2:r3:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.2:r3-s1:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.2:r3-s2:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.3:-:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.3:r1:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.3:r1-s1:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.3:r1-s2:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.3:r1-s3:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.3:r1-s5:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.3:r1-s6:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.3:r2:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.3:r2-s1:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.3:r2-s2:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.3:r2-s3:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.3:r3:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.4:-:*:*:*:*:*:

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cpe:2.3:o:juniper:junos:18.4:r1:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.4:r1-s1:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.4:r1-s2:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.4:r1-s5:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.4:r1-s6:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.4:r2:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.4:r2-s1:*.~*~*~*~*~*~*
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cpe:2.3:o:juniper:junos:18.4:r2-s2:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.4:r2-s3:*:*:*:*:*:

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cpe:2.3:o:juniper:junos:18.4:r2-s4:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.1:-:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.1:r1:*:*:*:*:*:

```
cpe:2.3:o:juniper:junos:19.1:r1-s1:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.1:r1-s2:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.1:r1-s3:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.1:r1-s4:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.2:-:*:*:*:*:*:

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cpe:2.3:o:juniper:junos:19.2:r1:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.2:r1-s1:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.3:-:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.3:r1:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.3:r1-s1:*:*:*:*:*:

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cpe:2.3:o:juniper:junos:18.1:-:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.1:r1:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.1:r2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.1:r2-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.1:r2-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.1:r2-s4:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.1:r3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.1:r3-s1:*.~*~*~*~*~*~*
```

```
cpe:2.3:o:juniper:junos:18.1:r3-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.1:r3-s3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.1:r3-s4:*:*:*:*:*:
```

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cpe:2.3:o:juniper:junos:18.1:r3-s6:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.1:r3-s7:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.1:r3-s8:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.2:-:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.2:r1:*:*:*:*:*:
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```
cpe:2.3:o:juniper:junos:18.2:r1:-:*:*:*:*:
```

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cpe:2.3:o:juniper:junos:18.2:r1-s3:*:*:*:*:*:
```

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cpe:2.3:o:juniper:junos:18.2:r1-s4:*:*:*:*:*:
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```
cpe:2.3:o:juniper:junos:18.2:r1-s5:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.2:r2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.2:r2-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.2:r2-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.2:r2-s3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.2:r2-s4:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.2:r2-s5:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.2:r2-s6:*.~*~*~*~*~*~*
```

```
cpe:2.3:o:juniper:junos:18.2:r3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.2:r3-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.2:r3-s2:*:*:*:*:*:
```

cpe:2.3:o:juniper:junos:18.3:-:*:*:*:*:*:

```
cpe:2.3:o:juniper:junos:18.3:r1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.3:r1-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.3:r1-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.3:r1-s3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.3:r1-s5:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.3:r1-s6:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.3:r2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.3:r2-s1:*:*:*:*:
```

cpe:2.3:o:juniper:junos:18.3:r2-s2:*:*:*:*:*:

```
cpe:2.3:o:juniper:junos:18.3:r2-s3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.3:r3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:18.4:-:*:*:*:*:*:
```

cpe:2.3:o:juniper:junos:18.4:r1:*:*:*:*:*:

```
cpe:2.3:o:juniper:junos:18.4:r1-s1:*:*:*:*:*:
```

cpe:2.3:o:juniper:junos:18.4:r1-s2:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.4:r1-s5:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.4:r1-s6:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.4:r2:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.4:r2-s1:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.4:r2-s2:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.4:r2-s3:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.4:r2-s4:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:19.1:-:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:19.1:r1:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:19.1:r1-s1:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:19.1:r1-s2:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:19.1:r1-s3:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:19.1:r1-s4:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:19.2:-:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:19.2:r1:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:19.2:r1-s1:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:19.3:-:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:19.3:r1:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:19.3:r1-s1:~::~~::~~::~~::~~::~~::

No vendor comments have been submitted for this CVE

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