

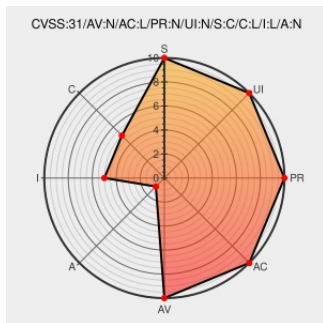


CVE-2022-22157

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CVE-2022-22157 - advisory for JSA11265

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

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

A traffic classification vulnerability in Juniper Networks Junos OS on the SRX Series Services Gateways may allow an attacker to bypass Juniper Deep Packet Inspection (JDPI) rules and access unauthorized networks or resources, when 'no-syn-check' is enabled on the device. JDPI incorrectly classifies out-of-state asymmetric TCP flows as the

dynamic-application INCONCLUSIVE instead of UNKNOWN, which is more permissive, causing the firewall to allow traffic to be forwarded that should have been denied. This issue only occurs when 'set security flow tcp-session no-syn-check' is configured on the device. This issue affects Juniper Networks Junos OS on SRX Series: 18.4 versions prior to 18.4R2-S9, 18.4R3-S9; 19.1 versions prior to 19.1R2-S3, 19.1R3-S6; 19.2 versions prior to 19.2R1-S7, 19.2R3-S3; 19.3 versions prior to 19.3R2-S6, 19.3R3-S2; 19.4 versions prior to 19.4R2-S5, 19.4R3-S3; 20.1 versions prior to 20.1R2-S2, 20.1R3; 20.2 versions prior to 20.2R3-S1; 20.3 versions prior to 20.3R3; 20.4 versions prior to 20.4R2-S1, 20.4R3; 21.1 versions prior to 21.1R1-S1, 21.1R2. This issue does not affect Juniper Networks Junos OS versions prior to 18.4R1.

CVE-2022-22157 has been assigned by [J SIRT](#) 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

Any of the following workarounds will mitigate this issue: 1. Remove 'security flow tcp-session no-syn-check' from the configuration. 2. Enable AppID cache configuration: set services application-identification application-system-cache security-services

CVSS3 Score: **9.3 - CRITICAL**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	LOW	NONE	NONE
Score	Confidentiality	Integrity	Availability

Scope	Confidentiality Impact	Integrity Impact	Availability Impact			
CHANGED	HIGH	LOW	NONE			
CVSS2 Score: 5.8 - MEDIUM						
Access Vector	Access Complexity	Authentication				
NETWORK	MEDIUM	NONE				
Confidentiality Impact	Integrity Impact	Availability Impact				
PARTIAL	PARTIAL	NONE				
CVE References						
Description		Tags	Link			
2022-01 Security Bulletin: Junos OS: SRX Series: Multiple vulnerabilities in traffic classification when 'no-syn-check' is enabled (CVE-2022-22157, CVE-2022-22167) - Juniper Networks		kb.juniper.net text/html	 CONFIRM kb.juniper.net/JSA11265			
By selecting these links, you may be leaving CVEreport webspace. We have provided these links to other websites because they may have information that would be of interest to you. No inferences should be drawn on account of other sites being referenced, or not, from this page. There may be other websites that are more appropriate for your purpose. CVEreport does not necessarily endorse the views expressed, or concur with the facts presented on these sites. Further, CVEreport does not endorse any commercial products that may be mentioned on these sites. Please address comments about any linked pages to comment@cve.report .						
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	18.4	-	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-s3	All	All
Operating System	Juniper	Junos	18.4	r1-s4	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	r1-s7	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	18.4	r2-s5	All	All
Operating System	Juniper	Junos	18.4	r2-s6	All	All
Operating System	Juniper	Junos	18.4	r2-s7	All	All
Operating System	Juniper	Junos	18.4	r2-s8	All	All
Operating System	Juniper	Junos	18.4	r3-s10	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	19.1	r1-s5	All	All
Operating System	Juniper	Junos	19.1	r1-s6	All	All
Operating System	Juniper	Junos	19.1	r2	All	All
Operating System	Juniper	Junos	19.1	r2-s1	All	All
Operating System	Juniper	Junos	19.1	r2-s2	All	All
Operating System	Juniper	Junos	19.1	r3-s7	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	19.2	r1-s2	All	All
Operating System	Juniper	Junos	19.2	r1-s3	All	All
Operating System	Juniper	Junos	19.2	r1-s4	All	All
Operating System	Juniper	Junos	19.2	r1-s5	All	All
Operating System	Juniper	Junos	19.2	r1-s6	All	All
Operating System	Juniper	Junos	19.2	r1-s7	All	All
Operating System	Juniper	Junos	19.2	r3-s4	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	19.3	r2	All	All
Operating System	Juniper	Junos	19.3	r2-s1	All	All
Operating System	Juniper	Junos	19.3	r2-s2	All	All
Operating System	Juniper	Junos	19.3	r2-s3	All	All
Operating System	Juniper	Junos	19.3	r2-s4	All	All
Operating System	Juniper	Junos	19.3	r2-s5	All	All
Operating System	Juniper	Junos	19.3	r2-s6	All	All
Operating System	Juniper	Junos	19.3	r3-s4	All	All
Operating System	Juniper	Junos	19.4	-	All	All
Operating System	Juniper	Junos	19.4	r1	All	All
Operating System	Juniper	Junos	19.4	r1-s1	All	All
Operating System	Juniper	Junos	19.4	r1-s2	All	All

Operating System	Juniper	Junos	19.4	r1-s3	All	All
Operating System	Juniper	Junos	19.4	r1-s4	All	All
Operating System	Juniper	Junos	19.4	r2	All	All
Operating System	Juniper	Junos	19.4	r2-s1	All	All
Operating System	Juniper	Junos	19.4	r2-s2	All	All
Operating System	Juniper	Junos	19.4	r2-s3	All	All
Operating System	Juniper	Junos	19.4	r2-s4	All	All
Operating System	Juniper	Junos	19.4	r2-s5	All	All
Operating System	Juniper	Junos	19.4	r3	All	All
Operating System	Juniper	Junos	19.4	r3-s1	All	All
Operating System	Juniper	Junos	19.4	r3-s2	All	All
Operating System	Juniper	Junos	19.4	r3-s3	All	All
Operating System	Juniper	Junos	19.4	r3-s4	All	All
Operating System	Juniper	Junos	19.4	r3-s5	All	All
Operating System	Juniper	Junos	20.1	-	All	All
Operating System	Juniper	Junos	20.1	r1	All	All
Operating System	Juniper	Junos	20.1	r1-s1	All	All
Operating System	Juniper	Junos	20.1	r1-s2	All	All
Operating System	Juniper	Junos	20.1	r1-s3	All	All
Operating System	Juniper	Junos	20.1	r1-s4	All	All
Operating System	Juniper	Junos	20.1	r2	All	All
Operating System	Juniper	Junos	20.1	r2-s1	All	All
Operating Svstem	Juniper	Junos	20.1	r2-s2	All	All

System						
Operating System	Juniper	Junos	20.1	r3	All	All
Operating System	Juniper	Junos	20.1	r3-s1	All	All
Operating System	Juniper	Junos	20.1	r3-s2	All	All
Operating System	Juniper	Junos	20.2	-	All	All
Operating System	Juniper	Junos	20.2	r1	All	All
Operating System	Juniper	Junos	20.2	r1-s1	All	All
Operating System	Juniper	Junos	20.2	r1-s2	All	All
Operating System	Juniper	Junos	20.2	r1-s3	All	All
Operating System	Juniper	Junos	20.2	r2	All	All
Operating System	Juniper	Junos	20.2	r2-s1	All	All
Operating System	Juniper	Junos	20.2	r2-s2	All	All
Operating System	Juniper	Junos	20.2	r2-s3	All	All
Operating System	Juniper	Junos	20.2	r3	All	All
Operating System	Juniper	Junos	20.2	r3-s1	All	All
Operating System	Juniper	Junos	20.2	r3-s2	All	All
Operating System	Juniper	Junos	20.3	-	All	All
Operating System	Juniper	Junos	20.3	r1	All	All
Operating System	Juniper	Junos	20.3	r1-s1	All	All
Operating System	Juniper	Junos	20.3	r2	All	All
Operating System	Juniper	Junos	20.3	r2-s1	All	All
Operating System	Juniper	Junos	20.3	r3	All	All
Operating System	Juniper	Junos	20.4	-	All	All
Operating System	Juniper	Junos	20.4	r1	All	All

Operating System	Juniper	Junos	20.4	r1-s1	All	All
Operating System	Juniper	Junos	20.4	r2	All	All
Operating System	Juniper	Junos	20.4	r2-s1	All	All
Operating System	Juniper	Junos	20.4	r2-s2	All	All
Operating System	Juniper	Junos	21.1	-	All	All
Operating System	Juniper	Junos	21.1	r1	All	All
Operating System	Juniper	Junos	21.1	r1-s1	All	All
Operating System	Juniper	Junos	21.1	r2	All	All
Operating System	Juniper	Junos	21.1	r3	All	All
Operating System	Juniper	Junos	21.2	-	All	All
Operating System	Juniper	Junos	21.2	r1	All	All
Operating System	Juniper	Junos	21.2	r2	All	All
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-s3:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:18.4:r1-s4:*:*:*:*:*:						
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:r1-s7:*:*:*:*:*:						
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:*:*:*:*:*:						

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cpe:2.3:o:juniper:junos:18.4:r2-s4:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:18.4:r2-s5:*:*:*:*:*:

cpe:2.3:o:juniper:junos:18.4:r2-s6:*:*:*:*:*:

cpe:2.3:o:juniper:junos:18.4:r2-s7:*:*:*:*:*:

```
cpe:2.3:o:juniper:junos:18.4:r2-s8:*:*:*:*:*:
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```
cpe:2.3:o:juniper:junos:18.4:r3-s10:*:*:*:*:*:
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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:*:*:*:*:*:
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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:*:*:*:*:*:

cpe:2.3:o:juniper:junos:19.1:r1-s5:*:*:*:*:*:

cpe:2.3:o:juniper:junos:19.1:r1-s6:*:*:*:*:*:

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cpe:2.3:o:juniper:junos:19.1:r2:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.1:r2-s1:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.1:r2-s2:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.1:r3-s7:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.2:-:*:*:*:*:*:

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:19.2:r1-s2:*:*:*:*:*:
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```
cpe:2.3:o:juniper:junos:19.2:r1-s3:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.2:r1-s4:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.2:r1-s5:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.2:r1-s6:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.2:r1-s7:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.2:r3-s4:*:*:*:*:*:
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cne:2.3:n:iluniner:ilunos:19.3:-*.*.*.*.*.*.
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[illegible]

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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:19.3:r2:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.3:r2-s1:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.3:r2-s2:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.3:r2-s3:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.3:r2-s4:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.3:r2-s5:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.3:r2-s6:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.3:r3-s4:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.4:-:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.4:r1:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.4:r1-s1:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.4:r1-s2:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.4:r1-s3:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.4:r1-s4:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.4:r2:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.4:r2-s1:*:*:*:*:*:

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cpe:2.3:o:juniper:junos:19.4:r2-s2:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.4:r2-s3:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.4:r2-s4:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.4:r2-s5:*:*:*:*:*:
```

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cpe:2.3:o:juniper:junos:19.4:r3:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.4:r3-s1:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.4:r3-s2:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.4:r3-s3:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.4:r3-s4:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:19.4:r3-s5:*:*:*:*:*:
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cpe:2.3:o:juniper:junos:20.1:-:*:*:*:*:*:
```

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cpe:2.3:o:juniper:junos:20.1:r1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.1:r1-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.1:r1-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.1:r1-s3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.1:r1-s4:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.1:r2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.1:r2-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.1:r2-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.1:r3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.1:r3-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.1:r3-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:-:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:r1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:r1-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:r1-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:r1-s3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:r2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:r2-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:r2-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:r2-s3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:r3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:r3-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:r3-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.3:-:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.3:r1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.3:r1-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.3:r2:*:*:*:*:*:
```

cpe:2.3:o:juniper:junos:20.3:r2:~::~~::
cpe:2.3:o:juniper:junos:20.3:r3:~::~~::
cpe:2.3:o:juniper:junos:20.4:-:~::~~::
cpe:2.3:o:juniper:junos:20.4:r1:~::~~::
cpe:2.3:o:juniper:junos:20.4:r1-s1:~::~~::
cpe:2.3:o:juniper:junos:20.4:r2:~::~~::
cpe:2.3:o:juniper:junos:20.4:r2-s1:~::~~::
cpe:2.3:o:juniper:junos:20.4:r2-s2:~::~~::
cpe:2.3:o:juniper:junos:21.1:-:~::~~::
cpe:2.3:o:juniper:junos:21.1:r1:~::~~::
cpe:2.3:o:juniper:junos:21.1:r1-s1:~::~~::
cpe:2.3:o:juniper:junos:21.1:r2:~::~~::
cpe:2.3:o:juniper:junos:21.1:r3:~::~~::
cpe:2.3:o:juniper:junos:21.2:-:~::~~::
cpe:2.3:o:juniper:junos:21.2:r1:~::~~::
cpe:2.3:o:juniper:junos:21.2:r2:~::~~::

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @softek_jp	Juniper Networks SRX シリーズの Junos OS に JDPI による制限を迂回される複数の問題 (CVE-2022-22157 [41014] sid.softek.jp/content/show/4... #SIDfm #脆弱性情報	2022-01-14 07:04:02
 @CVEreport	CVE-2022-22157 : A traffic classification vulnerability in Juniper Networks Junos OS on the SRX Series Services Gat... twitter.com/i/web/status/1...	2022-01-19 00:27:00

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