



```
16,32,64,128,256,512,1024,2048,4096,65536,262144,1048576,2097152,4194304,8388608 user@junos> show system virtual-memory |match
"fpc|type|temp" fpc0: ----- Type InUse MemUse HighUse Requests Size(s) temp 2023
431K - 16101 16,32,64,128,256,512,1024,2048,4096,65536,262144,1048576,2097152,4194304,8388608 fpc1: -----
----- Type InUse MemUse HighUse Requests Size(s) temp 2020 431K - 6665
16,32,64,128,256,512,1024,2048,4096,65536,262144,1048576,2097152,4194304,8388608 user@junos> show system virtual-memory |match
"fpc|type|temp" fpc0: ----- Type InUse MemUse HighUse Requests Size(s) temp 2023
431K - 21867 16,32,64,128,256,512,1024,2048,4096,65536,262144,1048576,2097152,4194304,8388608 fpc1: -----
----- Type InUse MemUse HighUse Requests Size(s) temp 2020 431K - 6858
16,32,64,128,256,512,1024,2048,4096,65536,262144,1048576,2097152,4194304,8388608 This issue affects Juniper Networks Junos OS: 16.1
versions prior to 16.1R7-S6; 17.1 versions prior to 17.1R2-S11, 17.1R3-S1; 17.2 versions prior to 17.2R2-S8, 17.2R3-S3; 17.2X75 versions
prior to 17.2X75-D44; 17.3 versions prior to 17.3R2-S5, 17.3R3-S6; 17.4 versions prior to 17.4R2-S5, 17.4R3; 18.1 versions prior to 18.1R3-S7;
18.2 versions prior to 18.2R2-S5, 18.2R3; 18.2X75 versions prior to 18.2X75-D33, 18.2X75-D411, 18.2X75-D420, 18.2X75-D60; 18.3 versions
prior to 18.3R1-S5, 18.3R2-S3, 18.3R3; 18.4 versions prior to 18.4R2-S2, 18.4R3; 19.1 versions prior to 19.1R1-S3, 19.1R2; 19.2 versions prior
to 19.2R1-S3, 19.2R2. This issue does not affect Juniper Networks Junos OS 12.3 and 15.1."> show system virtual-memory |match
"fpc|type|temp" fpc0: ----- Type InUse MemUse HighUse Requests Size(s) temp 2023
431K - 10551 16,32,64,128,256,512,1024,2048,4096,65536,262144,1048576,2097152,4194304,8388608 fpc1: -----
----- Type InUse MemUse HighUse Requests Size(s) temp 2020 431K - 6460
16,32,64,128,256,512,1024,2048,4096,65536,262144,1048576,2097152,4194304,8388608 user@junos> show system virtual-memory |match
"fpc|type|temp" fpc0: ----- Type InUse MemUse HighUse Requests Size(s) temp 2023
431K - 16101 16,32,64,128,256,512,1024,2048,4096,65536,262144,1048576,2097152,4194304,8388608 fpc1: -----
----- Type InUse MemUse HighUse Requests Size(s) temp 2020 431K - 6665
16,32,64,128,256,512,1024,2048,4096,65536,262144,1048576,2097152,4194304,8388608 user@junos> show system virtual-memory |match
"fpc|type|temp" fpc0: ----- Type InUse MemUse HighUse Requests Size(s) temp 2023
431K - 21867 16,32,64,128,256,512,1024,2048,4096,65536,262144,1048576,2097152,4194304,8388608 fpc1: -----
----- Type InUse MemUse HighUse Requests Size(s) temp 2020 431K - 6858
16,32,64,128,256,512,1024,2048,4096,65536,262144,1048576,2097152,4194304,8388608 This issue affects Juniper Networks Junos OS: 16.1
versions prior to 16.1R7-S6; 17.1 versions prior to 17.1R2-S11, 17.1R3-S1; 17.2 versions prior to 17.2R2-S8, 17.2R3-S3; 17.2X75 versions
prior to 17.2X75-D44; 17.3 versions prior to 17.3R2-S5, 17.3R3-S6; 17.4 versions prior to 17.4R2-S5, 17.4R3; 18.1 versions prior to 18.1R3-S7;
18.2 versions prior to 18.2R2-S5, 18.2R3; 18.2X75 versions prior to 18.2X75-D33, 18.2X75-D411, 18.2X75-D420, 18.2X75-D60; 18.3 versions
prior to 18.3R1-S5, 18.3R2-S3, 18.3R3; 18.4 versions prior to 18.4R2-S2, 18.4R3; 19.1 versions prior to 19.1R1-S3, 19.1R2; 19.2 versions prior
to 19.2R1-S3, 19.2R2. This issue does not affect Juniper Networks Junos OS 12.3 and 15.1." />
```

CVE-2020-1625

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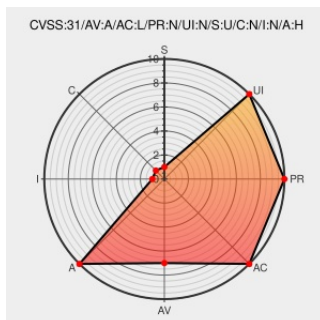
CVE-2020-1625 - advisory for JSA11004

[Source: Mitre](#)

[Source: NIST](#)

[CVE.ORG](#)

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Certain versions of **Junos** from **Juniper** contain the following vulnerability:

The kernel memory usage represented as "temp" via 'show system virtual-memory' may constantly increase when Integrated Routing and Bridging (IRB) is configured with multiple underlay physical interfaces, and one interface flaps. This memory leak can affect running daemons (processes), leading to an extended Denial of Service (DoS) condition.

Usage of "temp" virtual memory, shown here by a constantly increasing value of outstanding Requests, can be monitored by executing the 'show system virtual-memory' command as

shown below: user@junos> show system virtual-memory |match "fpc|type|temp" fpc0: -----
----- Type InUse MemUse HighUse Requests
Size(s) temp 2023 431K - 10551
16,32,64,128,256,512,1024,2048,4096,65536,262144,1048576,2097152,4194304,8388608
fpc1: ----- Type InUse MemUse HighUse
Requests Size(s) temp 2020 431K - 6460
16,32,64,128,256,512,1024,2048,4096,65536,262144,1048576,2097152,4194304,8388608
user@junos> show system virtual-memory |match "fpc|type|temp" fpc0: -----
----- Type InUse MemUse HighUse Requests Size(s) temp
2023 431K - 16101
16,32,64,128,256,512,1024,2048,4096,65536,262144,1048576,2097152,4194304,8388608
fpc1: ----- Type InUse MemUse HighUse
Requests Size(s) temp 2020 431K - 6665
16,32,64,128,256,512,1024,2048,4096,65536,262144,1048576,2097152,4194304,8388608
user@junos> show system virtual-memory |match "fpc|type|temp" fpc0: -----
----- Type InUse MemUse HighUse Requests Size(s) temp
2023 431K - 21867
16,32,64,128,256,512,1024,2048,4096,65536,262144,1048576,2097152,4194304,8388608
fpc1: ----- Type InUse MemUse HighUse
Requests Size(s) temp 2020 431K - 6858
16,32,64,128,256,512,1024,2048,4096,65536,262144,1048576,2097152,4194304,8388608
This issue affects Juniper Networks Junos OS: 16.1 versions prior to 16.1R7-S6; 17.1
versions prior to 17.1R2-S11, 17.1R3-S1; 17.2 versions prior to 17.2R2-S8, 17.2R3-S3;
17.2X75 versions prior to 17.2X75-D44; 17.3 versions prior to 17.3R2-S5, 17.3R3-S6; 17.4
versions prior to 17.4R2-S5, 17.4R3; 18.1 versions prior to 18.1R3-S7; 18.2 versions prior to
18.2R2-S5, 18.2R3; 18.2X75 versions prior to 18.2X75-D33, 18.2X75-D411, 18.2X75-D420,
18.2X75-D60; 18.3 versions prior to 18.3R1-S5, 18.3R2-S3, 18.3R3; 18.4 versions prior to
18.4R2-S2, 18.4R3; 19.1 versions prior to 19.1R1-S3, 19.1R2; 19.2 versions prior to 19.2R1-
S3, 19.2R2. This issue does not affect Juniper Networks Junos OS 12.3 and 15.1.

CVE-2020-1625 has been assigned by JJ sirt@juniper.net to track the vulnerability - currently rated as MEDIUM severity.

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

Vulnerability Patch/Work Around

There are no viable workarounds for this issue.

CVSS3 Score: 6.5 - MEDIUM

Attack Vector	Attack Complexity	Privileges Required	User Interaction
ADJACENT_NETWORK	LOW	NONE	NONE
Scope	Confidentiality	Integrity	Availability

Impact		Impact	Impact
UNCHANGED		NONE	HIGH
CVSS2 Score: 3.3 - LOW			
Access Vector	Access Complexity	Authentication	
ADJACENT_NETWORK	LOW	NONE	
Confidentiality Impact	Integrity Impact	Availability Impact	
NONE	NONE	PARTIAL	

CVE References

Description	Tags	Link
2020-04 Security Bulletin: Junos OS: Kernel memory leak in virtual-memory due to interface flaps (CVE-2020-1625) - Juniper Networks	Exploit Vendor Advisory kb.juniper.net text/html	 CONFIRM kb.juniper.net/JSA11004

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	16.1	-	All	All
Operating System	Juniper	Junos	16.1	r1	All	All
Operating System	Juniper	Junos	16.1	r2	All	All
Operating System	Juniper	Junos	16.1	r3	All	All
Operating System	Juniper	Junos	16.1	r3-s10	All	All
Operating System	Juniper	Junos	16.1	r3-s11	All	All
Operating System	Juniper	Junos	16.1	r4	All	All
Operating System	Juniper	Junos	16.1	r4-s12	All	All
Operating System	Juniper	Junos	16.1	r4-s2	All	All
Operating	Juniper	Junos	16.1	r4-s3	All	All

System						
Operating System	Juniper	Junos	16.1	r4-s4	All	All
Operating System	Juniper	Junos	16.1	r4-s6	All	All
Operating System	Juniper	Junos	16.1	r5	All	All
Operating System	Juniper	Junos	16.1	r5-s4	All	All
Operating System	Juniper	Junos	16.1	r6-s1	All	All
Operating System	Juniper	Junos	16.1	r6-s6	All	All
Operating System	Juniper	Junos	16.1	r7	All	All
Operating System	Juniper	Junos	16.1	r7-s2	All	All
Operating System	Juniper	Junos	16.1	r7-s3	All	All
Operating System	Juniper	Junos	16.1	r7-s4	All	All
Operating System	Juniper	Junos	16.1	r7-s5	All	All
Operating System	Juniper	Junos	17.1	-	All	All
Operating System	Juniper	Junos	17.1	r1	All	All
Operating System	Juniper	Junos	17.1	r2	All	All
Operating System	Juniper	Junos	17.1	r2-s1	All	All
Operating System	Juniper	Junos	17.1	r2-s10	All	All
Operating System	Juniper	Junos	17.1	r2-s2	All	All
Operating System	Juniper	Junos	17.1	r2-s3	All	All
Operating System	Juniper	Junos	17.1	r2-s4	All	All
Operating System	Juniper	Junos	17.1	r2-s5	All	All
Operating System	Juniper	Junos	17.1	r2-s6	All	All
Operating System	Juniper	Junos	17.1	r2-s7	All	All
Operating	Juniper	Junos	17.1	r2-s8	All	All

System						
Operating System	Juniper	Junos	17.1	r2-s9	All	All
Operating System	Juniper	Junos	17.1	r3	All	All
Operating System	Juniper	Junos	17.2	-	All	All
Operating System	Juniper	Junos	17.2	r1	All	All
Operating System	Juniper	Junos	17.2	r1-s1	All	All
Operating System	Juniper	Junos	17.2	r1-s2	All	All
Operating System	Juniper	Junos	17.2	r1-s3	All	All
Operating System	Juniper	Junos	17.2	r1-s4	All	All
Operating System	Juniper	Junos	17.2	r1-s5	All	All
Operating System	Juniper	Junos	17.2	r1-s7	All	All
Operating System	Juniper	Junos	17.2	r1-s8	All	All
Operating System	Juniper	Junos	17.2	r2	All	All
Operating System	Juniper	Junos	17.2	r2-s6	All	All
Operating System	Juniper	Junos	17.2	r2-s7	All	All
Operating System	Juniper	Junos	17.2	r3-s1	All	All
Operating System	Juniper	Junos	17.2	r3-s2	All	All
Operating System	Juniper	Junos	17.2x75	-	All	All
Operating System	Juniper	Junos	17.3	-	All	All
Operating System	Juniper	Junos	17.3	r1-s1	All	All
Operating System	Juniper	Junos	17.3	r2	All	All
Operating System	Juniper	Junos	17.3	r2-s1	All	All
Operating System	Juniper	Junos	17.3	r2-s2	All	All
Operating System	Juniper	Junos	17.3	r2-s3	All	All

System	Vendor	OS	Version	Model	Part Number	Notes
Operating System	Juniper	Junos	17.3	r2-s4	All	All
Operating System	Juniper	Junos	17.3	r3	-	All
Operating System	Juniper	Junos	17.3	r3-s1	All	All
Operating System	Juniper	Junos	17.3	r3-s2	All	All
Operating System	Juniper	Junos	17.3	r3-s3	All	All
Operating System	Juniper	Junos	17.3	r3-s4	All	All
Operating System	Juniper	Junos	17.3	r3-s5	All	All
Operating System	Juniper	Junos	17.4	-	All	All
Operating System	Juniper	Junos	17.4	r1	All	All
Operating System	Juniper	Junos	17.4	r1-s1	All	All
Operating System	Juniper	Junos	17.4	r1-s2	All	All
Operating System	Juniper	Junos	17.4	r1-s4	All	All
Operating System	Juniper	Junos	17.4	r1-s5	All	All
Operating System	Juniper	Junos	17.4	r1-s6	All	All
Operating System	Juniper	Junos	17.4	r1-s7	All	All
Operating System	Juniper	Junos	17.4	r2	All	All
Operating System	Juniper	Junos	17.4	r2-s1	All	All
Operating System	Juniper	Junos	17.4	r2-s2	All	All
Operating System	Juniper	Junos	17.4	r2-s3	All	All
Operating System	Juniper	Junos	17.4	r2-s4	All	All
Operating System	Juniper	Junos	18.1	-	All	All
Operating System	Juniper	Junos	18.1	r2	All	All
Operating System	Juniper	Junos	18.1	r2-s1	All	All

Operating System	Vendor	Series	OS	Model	Form	Form
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	18.2	-	All	All
Operating System	Juniper	Junos	18.2	r1-s3	All	All
Operating System	Juniper	Junos	18.2	r1-s5	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	18.2x75	-	All	All
Operating System	Juniper	Junos	18.2x75	d20	All	All
Operating System	Juniper	Junos	18.2x75	d30	All	All
Operating System	Juniper	Junos	18.2x75	d40	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-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	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	18.4	-	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	r2	All	All
Operating System	Juniper	Junos	18.4	r2-s1	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	19.2	-	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	16.1	-	All	All
Operating System	Juniper	Junos	16.1	r1	All	All
Operating System	Juniper	Junos	16.1	r1-s1	All	All

Operating System	Juniper	Junos	16.1	r2	All	All
Operating System	Juniper	Junos	16.1	r3	All	All
Operating System	Juniper	Junos	16.1	r3-s10	All	All
Operating System	Juniper	Junos	16.1	r3-s11	All	All
Operating System	Juniper	Junos	16.1	r4	All	All
Operating System	Juniper	Junos	16.1	r4-s12	All	All
Operating System	Juniper	Junos	16.1	r4-s2	All	All
Operating System	Juniper	Junos	16.1	r4-s3	All	All
Operating System	Juniper	Junos	16.1	r4-s4	All	All
Operating System	Juniper	Junos	16.1	r4-s6	All	All
Operating System	Juniper	Junos	16.1	r5	All	All
Operating System	Juniper	Junos	16.1	r5-s4	All	All
Operating System	Juniper	Junos	16.1	r6-s1	All	All
Operating System	Juniper	Junos	16.1	r6-s6	All	All
Operating System	Juniper	Junos	16.1	r7	All	All
Operating System	Juniper	Junos	16.1	r7-s2	All	All
Operating System	Juniper	Junos	16.1	r7-s3	All	All
Operating System	Juniper	Junos	16.1	r7-s4	All	All
Operating System	Juniper	Junos	16.1	r7-s5	All	All
Operating System	Juniper	Junos	17.1	-	All	All
Operating System	Juniper	Junos	17.1	r1	All	All
Operating System	Juniper	Junos	17.1	r2	All	All
Operating System	Juniper	Junos	17.1	r2-s1	All	All

Operating System	Juniper	Junos	17.1	r2-s10	All	All
Operating System	Juniper	Junos	17.1	r2-s2	All	All
Operating System	Juniper	Junos	17.1	r2-s3	All	All
Operating System	Juniper	Junos	17.1	r2-s4	All	All
Operating System	Juniper	Junos	17.1	r2-s5	All	All
Operating System	Juniper	Junos	17.1	r2-s6	All	All
Operating System	Juniper	Junos	17.1	r2-s7	All	All
Operating System	Juniper	Junos	17.1	r2-s8	All	All
Operating System	Juniper	Junos	17.1	r2-s9	All	All
Operating System	Juniper	Junos	17.1	r3	All	All
Operating System	Juniper	Junos	17.2	-	All	All
Operating System	Juniper	Junos	17.2	r1	All	All
Operating System	Juniper	Junos	17.2	r1-s1	All	All
Operating System	Juniper	Junos	17.2	r1-s2	All	All
Operating System	Juniper	Junos	17.2	r1-s3	All	All
Operating System	Juniper	Junos	17.2	r1-s4	All	All
Operating System	Juniper	Junos	17.2	r1-s5	All	All
Operating System	Juniper	Junos	17.2	r1-s7	All	All
Operating System	Juniper	Junos	17.2	r1-s8	All	All
Operating System	Juniper	Junos	17.2	r2	All	All
Operating System	Juniper	Junos	17.2	r2-s6	All	All
Operating System	Juniper	Junos	17.2	r2-s7	All	All
Operating System	Juniper	Junos	17.2	r3-s1	All	All

Operating System	Juniper	Junos	17.2	r3-s2	All	All
Operating System	Juniper	Junos	17.2x75	-	All	All
Operating System	Juniper	Junos	17.3	-	All	All
Operating System	Juniper	Junos	17.3	r1-s1	All	All
Operating System	Juniper	Junos	17.3	r2	All	All
Operating System	Juniper	Junos	17.3	r2-s1	All	All
Operating System	Juniper	Junos	17.3	r2-s2	All	All
Operating System	Juniper	Junos	17.3	r2-s3	All	All
Operating System	Juniper	Junos	17.3	r2-s4	All	All
Operating System	Juniper	Junos	17.3	r3	-	All
Operating System	Juniper	Junos	17.3	r3-s1	All	All
Operating System	Juniper	Junos	17.3	r3-s2	All	All
Operating System	Juniper	Junos	17.3	r3-s3	All	All
Operating System	Juniper	Junos	17.3	r3-s4	All	All
Operating System	Juniper	Junos	17.3	r3-s5	All	All
Operating System	Juniper	Junos	17.4	-	All	All
Operating System	Juniper	Junos	17.4	r1	All	All
Operating System	Juniper	Junos	17.4	r1-s1	All	All
Operating System	Juniper	Junos	17.4	r1-s2	All	All
Operating System	Juniper	Junos	17.4	r1-s4	All	All
Operating System	Juniper	Junos	17.4	r1-s5	All	All
Operating System	Juniper	Junos	17.4	r1-s6	All	All
Operating System	Juniper	Junos	17.4	r1-s7	All	All

Operating System	Juniper	Junos	17.4	r2	All	All
Operating System	Juniper	Junos	17.4	r2-s1	All	All
Operating System	Juniper	Junos	17.4	r2-s2	All	All
Operating System	Juniper	Junos	17.4	r2-s3	All	All
Operating System	Juniper	Junos	17.4	r2-s4	All	All
Operating System	Juniper	Junos	18.1	-	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	18.2	-	All	All
Operating System	Juniper	Junos	18.2	r1-s3	All	All
Operating System	Juniper	Junos	18.2	r1-s5	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	18.2x75	-	All	All
Operating System	Juniper	Junos	18.2x75	d20	All	All
Operating System	Juniper	Junos	18.2x75	d30	All	All
Operating System	Juniper	Junos	18.2x75	d40	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	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	18.4	-	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	r2	All	All
Operating System	Juniper	Junos	18.4	r2-s1	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	19.2	-	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
cpe:2.3:o:juniper:junos:16.1:-:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r1:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r2:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r3:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r3-s10:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r3-s11:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r4:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r4-s12:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r4-s2:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r4-s3:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r4-s4:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r4-s6:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r5:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r5-s4:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r6-s1:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r6-s6:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r7:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r7-s2:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r7-s3:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r7-s4:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:16.1:r7-s5:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:17.1:-:*:*:*:*:*:						

```
cpe:2.3:o:juniper:junos:17.1:r1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s10:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s2:*.~*~*~*~*~*~*
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s4:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s5:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s6:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s7:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s8:*.*.*.*.*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s9:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.2:-:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.2:r1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.2:r1-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.2:r1-s2:*:*:*:*:*:
```

cpe:2.3:o:juniper:junos:17.2:r1-s3:*:*:*:*:*:

```
cpe:2.3:o:juniper:junos:17.2:r1-s4:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.2:r1-s5:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.2:r1-s7:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.2:r1-s8:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.2:r2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.2:r2-s6:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.2:r2-s7:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.2:r3-s1:*.*.*.*.*.:
```

```
cpe:2.3:o:juniper:junos:17.2:r3-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.2x75:-:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.3:-:*:*:*:*:*:
```

[illegible]

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:18.2:-:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.2:r1-s3:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.2:r1-s5:~::~~::~~::~~::~~::~~::
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:18.2x75:-:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.2x75:d20:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.2x75:d30:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.2x75:d40:~::~~::~~::~~::~~::~~::
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: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:18.4:~::~~::~~::~~::~~::~~::

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:r2:*:*:*:*:
cpe:2.3:o:juniper:junos:18.4:r2-s1:*:*:*:*:
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:19.2:-:*:*:*:*:
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:19.2:r1-s2:*:*:*:*:
cpe:2.3:o:juniper:junos:16.1:-:*:*:*:*:
cpe:2.3:o:juniper:junos:16.1:r1:*:*:*:*:
cpe:2.3:o:juniper:junos:16.1:r2:*:*:*:*:
cpe:2.3:o:juniper:junos:16.1:r3:*:*:*:*:
cpe:2.3:o:juniper:junos:16.1:r3-s10:*:*:*:*:
cpe:2.3:o:juniper:junos:16.1:r3-s11:*:*:*:*:
cpe:2.3:o:juniper:junos:16.1:r4:*:*:*:*:
cpe:2.3:o:juniper:junos:16.1:r4-s12:*:*:*:*:
cpe:2.3:o:juniper:junos:16.1:r4-s2:*:*:*:*:
cpe:2.3:o:juniper:junos:16.1:r4-s3:*:*:*:*:
cpe:2.3:o:juniper:junos:16.1:r4-s4:*:*:*:*:
cpe:2.3:o:juniper:junos:16.1:r4-s6:*:*:*:*:
cpe:2.3:o:juniper:junos:16.1:r5:*:*:*:*:
cpe:2.3:o:juniper:junos:16.1:r5-s4:*:*:*:*:

```
cpe:2.3:o:juniper:junos:16.1:r6-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:16.1:r6-s6:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:16.1:r7:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:16.1:r7-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:16.1:r7-s3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:16.1:r7-s4:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:16.1:r7-s5:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:-:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s10:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s4:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s5:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s6:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s7:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s8:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r2-s9:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.1:r3:*:*:*:*:*:
```

cpe:2.3:o:juniper:junos:17.2:-:*:*:*:*:*:

```
cpe:2.3:o:juniper:junos:17.2:r1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.2:r1-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.2:r1-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.2:r1-s3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:17.2:r1-s4:*:*:*:*:*:
```

cpe:2.3:o:juniper:junos:17.2:r1-s5:*:*:*:*:*:

cpe:2.3:o:juniper:junos:17.2:r1-s7:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.2:r1-s8:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.2:r2:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.2:r2-s6:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.2:r2-s7:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.2:r3-s1:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.2:r3-s2:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.2x75:-:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.3:-:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.3:r1-s1:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.3:r2:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.3:r2-s1:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.3:r2-s2:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.3:r2-s3:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.3:r2-s4:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.3:r3:-:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.3:r3-s1:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.3:r3-s2:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.3:r3-s3:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.3:r3-s4:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.3:r3-s5:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.4:-:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.4:r1:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.4:r1-s1:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.4:r1-s2:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.4:r1-s4:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.4:r1-s5:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.4:r1-s6:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.4:r1-s7:*:*:*:*:*:

cpe:2.3:o:juniper:junos:17.4:r2:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:17.4:r2-s1:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:17.4:r2-s2:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:17.4:r2-s3:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:17.4:r2-s4:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.1:-:~::~~::~~::~~::~~::~~::
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:18.2:-:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.2:r1-s3:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.2:r1-s5:~::~~::~~::~~::~~::~~::
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:18.2x75:-:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.2x75:d20:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.2x75:d30:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.2x75:d40:~::~~::~~::~~::~~::~~::
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: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:18.4:-:~::~~::~~::~~::~~::~~::
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:r2:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.4:r2-s1:~::~~::~~::~~::~~::~~::
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:19.2:-:~::~~::~~::~~::~~::~~::
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:19.2:r1-s2:~::~~::~~::~~::~~::~~::

No vendor comments have been submitted for this CVE

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