

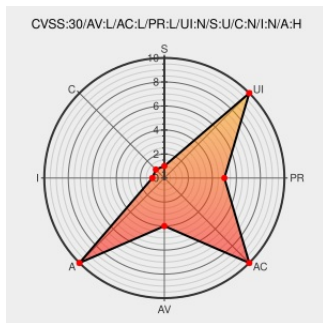


CVE-2017-10613

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CVE-2017-10613

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

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

A vulnerability in a specific loopback filter action command, processed in a specific logical order of operation, in a running configuration of Juniper Networks Junos OS, allows an attacker with CLI access and the ability to initiate remote sessions to the loopback interface with the defined action, to hang the kernel. Affected releases are Juniper

Networks Junos OS 12.1X46 prior to 12.1X46-D55; 12.3X48 prior to 12.3X48-D35; 14.1 prior to 14.1R8-S4, 14.1R9; 14.1X53 prior to 14.1X53-D40; 14.2 prior to 14.2R4-S9, 14.2R7-S8, 14.2R8; 15.1 prior to 15.1F5-S3, 15.1F6, 15.1R4; 15.1X49 prior to 15.1X49-D60; 15.1X53 prior to 15.1X53-D47; 16.1 prior to 16.1R2. No other Juniper Networks products or platforms are affected by this issue.

CVE-2017-10613 has been assigned by [J sirt@juniper.net](#) to track the vulnerability - currently rated as **MEDIUM** severity.

Vulnerability Patch/Work Around

Discontinue the use of allowing remote sessions to be issued from the local device to reach loopback address(es). It is good security practice to limit the exploitable attack surface of critical infrastructure networking equipment. Use access lists or firewall filters to limit access to the device from trusted, administrative networks or hosts.

CVSS3 Score: **5.5 - MEDIUM**

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

CVSS2 Score: **2.1 - LOW**

Access Vector	Access Complexity	Authentication
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LOCAL	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
NONE	NONE	PARTIAL

CVE References

Description	Tags	Link
2017-10 Security Bulletin: Junos OS: A kernel hang may occur due to a specific loopback filter action command (CVE-2017-10613) - Juniper Networks	Vendor Advisory kb.juniper.net text/html	 CONFIRM kb.juniper.net/JSA10816

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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	12.1x46	All	All	All
Operating System	Juniper	Junos	12.1x46	d10	All	All
Operating System	Juniper	Junos	12.1x46	d15	All	All
Operating System	Juniper	Junos	12.1x46	d20	All	All
Operating System	Juniper	Junos	12.1x46	d25	All	All
Operating System	Juniper	Junos	12.1x46	d30	All	All
Operating System	Juniper	Junos	12.1x46	d35	All	All
Operating System	Juniper	Junos	12.1x46	d40	All	All
Operating System	Juniper	Junos	12.1x46	d45	All	All
Operating System	Juniper	Junos	12.1x46	d50	All	All
Operating System	Juniper	Junos	12.3x48	d10	All	All
Operating System	Juniper	Junos	12.3x48	d15	All	All
Operating System	Juniper	Junos	12.3x48	d20	All	All

System						
Operating System	Juniper	Junos	12.3x48	d25	All	All
Operating System	Juniper	Junos	12.3x48	d30	All	All
Operating System	Juniper	Junos	14.1	All	All	All
Operating System	Juniper	Junos	14.1	r1	All	All
Operating System	Juniper	Junos	14.1	r2	All	All
Operating System	Juniper	Junos	14.1	r3	All	All
Operating System	Juniper	Junos	14.1	r4	All	All
Operating System	Juniper	Junos	14.1	r5	All	All
Operating System	Juniper	Junos	14.1	r6	All	All
Operating System	Juniper	Junos	14.1	r7	All	All
Operating System	Juniper	Junos	14.1	r9	All	All
Operating System	Juniper	Junos	14.1x53	All	All	All
Operating System	Juniper	Junos	14.1x53	d10	All	All
Operating System	Juniper	Junos	14.1x53	d15	All	All
Operating System	Juniper	Junos	14.1x53	d16	All	All
Operating System	Juniper	Junos	14.1x53	d25	All	All
Operating System	Juniper	Junos	14.1x53	d26	All	All
Operating System	Juniper	Junos	14.1x53	d27	All	All
Operating System	Juniper	Junos	14.1x53	d30	All	All
Operating System	Juniper	Junos	14.1x53	d35	All	All
Operating System	Juniper	Junos	14.2	All	All	All
Operating System	Juniper	Junos	14.2	r1	All	All
Operating System	Juniper	Junos	14.2	r2	All	All

System						
Operating System	Juniper	Junos	14.2	r3	All	All
Operating System	Juniper	Junos	14.2	r4	All	All
Operating System	Juniper	Junos	14.2	r7-s8	All	All
Operating System	Juniper	Junos	14.2	r8	All	All
Operating System	Juniper	Junos	15.1	All	All	All
Operating System	Juniper	Junos	15.1	f1	All	All
Operating System	Juniper	Junos	15.1	f2	All	All
Operating System	Juniper	Junos	15.1	f2-s1	All	All
Operating System	Juniper	Junos	15.1	f2-s2	All	All
Operating System	Juniper	Junos	15.1	f2-s3	All	All
Operating System	Juniper	Junos	15.1	f2-s4	All	All
Operating System	Juniper	Junos	15.1	f3	All	All
Operating System	Juniper	Junos	15.1	f4	All	All
Operating System	Juniper	Junos	15.1	f5	All	All
Operating System	Juniper	Junos	15.1	f6	All	All
Operating System	Juniper	Junos	15.1	r4	All	All
Operating System	Juniper	Junos	15.1x49	All	All	All
Operating System	Juniper	Junos	15.1x49	d10	All	All
Operating System	Juniper	Junos	15.1x49	d20	All	All
Operating System	Juniper	Junos	15.1x49	d30	All	All
Operating System	Juniper	Junos	15.1x49	d35	All	All
Operating System	Juniper	Junos	15.1x49	d40	All	All
Operating	Juniper	Junos	15.1x49	d45	All	All

System						
Operating System	Juniper	Junos	15.1x49	d50	All	All
Operating System	Juniper	Junos	15.1x49	d55	All	All
Operating System	Juniper	Junos	15.1x53	All	All	All
Operating System	Juniper	Junos	15.1x53	d10	All	All
Operating System	Juniper	Junos	15.1x53	d20	All	All
Operating System	Juniper	Junos	15.1x53	d21	All	All
Operating System	Juniper	Junos	15.1x53	d25	All	All
Operating System	Juniper	Junos	15.1x53	d30	All	All
Operating System	Juniper	Junos	15.1x53	d32	All	All
Operating System	Juniper	Junos	15.1x53	d33	All	All
Operating System	Juniper	Junos	15.1x53	d34	All	All
Operating System	Juniper	Junos	16.1	All	All	All
Operating System	Juniper	Junos	16.1	r1	All	All
Operating System	Juniper	Junos	12.1x46	All	All	All
Operating System	Juniper	Junos	12.1x46	d10	All	All
Operating System	Juniper	Junos	12.1x46	d15	All	All
Operating System	Juniper	Junos	12.1x46	d20	All	All
Operating System	Juniper	Junos	12.1x46	d25	All	All
Operating System	Juniper	Junos	12.1x46	d30	All	All
Operating System	Juniper	Junos	12.1x46	d35	All	All
Operating System	Juniper	Junos	12.1x46	d40	All	All
Operating System	Juniper	Junos	12.1x46	d45	All	All
Operating	Juniper	Junos	12.1x46	d50	All	All

System						
Operating System	Juniper	Junos	12.3x48	d10	All	All
Operating System	Juniper	Junos	12.3x48	d15	All	All
Operating System	Juniper	Junos	12.3x48	d20	All	All
Operating System	Juniper	Junos	12.3x48	d25	All	All
Operating System	Juniper	Junos	12.3x48	d30	All	All
Operating System	Juniper	Junos	14.1	All	All	All
Operating System	Juniper	Junos	14.1	r1	All	All
Operating System	Juniper	Junos	14.1	r2	All	All
Operating System	Juniper	Junos	14.1	r3	All	All
Operating System	Juniper	Junos	14.1	r4	All	All
Operating System	Juniper	Junos	14.1	r5	All	All
Operating System	Juniper	Junos	14.1	r6	All	All
Operating System	Juniper	Junos	14.1	r7	All	All
Operating System	Juniper	Junos	14.1	r9	All	All
Operating System	Juniper	Junos	14.1x53	All	All	All
Operating System	Juniper	Junos	14.1x53	d10	All	All
Operating System	Juniper	Junos	14.1x53	d15	All	All
Operating System	Juniper	Junos	14.1x53	d16	All	All
Operating System	Juniper	Junos	14.1x53	d25	All	All
Operating System	Juniper	Junos	14.1x53	d26	All	All
Operating System	Juniper	Junos	14.1x53	d27	All	All
Operating System	Juniper	Junos	14.1x53	d30	All	All
Operating	Juniper	Junos	14.1x53	d35	All	All

System						
Operating System	Juniper	Junos	14.2	All	All	All
Operating System	Juniper	Junos	14.2	r1	All	All
Operating System	Juniper	Junos	14.2	r2	All	All
Operating System	Juniper	Junos	14.2	r3	All	All
Operating System	Juniper	Junos	14.2	r4	All	All
Operating System	Juniper	Junos	14.2	r7-s8	All	All
Operating System	Juniper	Junos	14.2	r8	All	All
Operating System	Juniper	Junos	15.1	All	All	All
Operating System	Juniper	Junos	15.1	f1	All	All
Operating System	Juniper	Junos	15.1	f2	All	All
Operating System	Juniper	Junos	15.1	f2-s1	All	All
Operating System	Juniper	Junos	15.1	f2-s2	All	All
Operating System	Juniper	Junos	15.1	f2-s3	All	All
Operating System	Juniper	Junos	15.1	f2-s4	All	All
Operating System	Juniper	Junos	15.1	f3	All	All
Operating System	Juniper	Junos	15.1	f4	All	All
Operating System	Juniper	Junos	15.1	f5	All	All
Operating System	Juniper	Junos	15.1	f6	All	All
Operating System	Juniper	Junos	15.1	r4	All	All
Operating System	Juniper	Junos	15.1x49	All	All	All
Operating System	Juniper	Junos	15.1x49	d10	All	All
Operating System	Juniper	Junos	15.1x49	d20	All	All
Operating System	Juniper	Junos	15.1x49	d30	All	All

Operating System	Juniper	Junos	15.1x49	d35	All	All
Operating System	Juniper	Junos	15.1x49	d40	All	All
Operating System	Juniper	Junos	15.1x49	d45	All	All
Operating System	Juniper	Junos	15.1x49	d50	All	All
Operating System	Juniper	Junos	15.1x49	d55	All	All
Operating System	Juniper	Junos	15.1x53	All	All	All
Operating System	Juniper	Junos	15.1x53	d10	All	All
Operating System	Juniper	Junos	15.1x53	d20	All	All
Operating System	Juniper	Junos	15.1x53	d21	All	All
Operating System	Juniper	Junos	15.1x53	d25	All	All
Operating System	Juniper	Junos	15.1x53	d30	All	All
Operating System	Juniper	Junos	15.1x53	d32	All	All
Operating System	Juniper	Junos	15.1x53	d33	All	All
Operating System	Juniper	Junos	15.1x53	d34	All	All
Operating System	Juniper	Junos	16.1	All	All	All
Operating System	Juniper	Junos	16.1	r1	All	All
cpe:2.3:o:juniper:junos:12.1x46:*.***.***.***:						
cpe:2.3:o:juniper:junos:12.1x46:d10:*.***.***.***:						
cpe:2.3:o:juniper:junos:12.1x46:d15:*.***.***.***:						
cpe:2.3:o:juniper:junos:12.1x46:d20:*.***.***.***:						
cpe:2.3:o:juniper:junos:12.1x46:d25:*.***.***.***:						
cpe:2.3:o:juniper:junos:12.1x46:d30:*.***.***.***:						
cpe:2.3:o:juniper:junos:12.1x46:d35:*.***.***.***:						
cpe:2.3:o:juniper:junos:12.1x46:d40:*.***.***.***:						

cpe:2.3:o:juniper:junos:12.1x46:d45:~::~:
cpe:2.3:o:juniper:junos:12.1x46:d50:~::~:
cpe:2.3:o:juniper:junos:12.3x48:d10:~::~:
cpe:2.3:o:juniper:junos:12.3x48:d15:~::~:
cpe:2.3:o:juniper:junos:12.3x48:d20:~::~:
cpe:2.3:o:juniper:junos:12.3x48:d25:~::~:
cpe:2.3:o:juniper:junos:12.3x48:d30:~::~:
cpe:2.3:o:juniper:junos:14.1:~::~:
cpe:2.3:o:juniper:junos:14.1:r1:~::~:
cpe:2.3:o:juniper:junos:14.1:r2:~::~:
cpe:2.3:o:juniper:junos:14.1:r3:~::~:
cpe:2.3:o:juniper:junos:14.1:r4:~::~:
cpe:2.3:o:juniper:junos:14.1:r5:~::~:
cpe:2.3:o:juniper:junos:14.1:r6:~::~:
cpe:2.3:o:juniper:junos:14.1:r7:~::~:
cpe:2.3:o:juniper:junos:14.1:r9:~::~:
cpe:2.3:o:juniper:junos:14.1x53:~::~:
cpe:2.3:o:juniper:junos:14.1x53:d10:~::~:
cpe:2.3:o:juniper:junos:14.1x53:d15:~::~:
cpe:2.3:o:juniper:junos:14.1x53:d16:~::~:
cpe:2.3:o:juniper:junos:14.1x53:d25:~::~:
cpe:2.3:o:juniper:junos:14.1x53:d26:~::~:
cpe:2.3:o:juniper:junos:14.1x53:d27:~::~:
cpe:2.3:o:juniper:junos:14.1x53:d30:~::~:
cpe:2.3:o:juniper:junos:14.1x53:d35:~::~:
cpe:2.3:o:juniper:junos:14.2:~::~:
cpe:2.3:o:juniper:junos:14.2:r1:~::~:
cpe:2.3:o:juniper:junos:14.2:r2:~::~:

```
cpe:2.3:o:juniper:junos:14.2:r3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:14.2:r4:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:14.2:r7-s8:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:14.2:r8:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1:*:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1:f1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1:f2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1:f2-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1:f2-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1:f2-s3:*.~*~*~*~*~*~*
```

```
cpe:2.3:o:juniper:junos:15.1:f2-s4:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1:f3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1:f4:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1:f5:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1:f6:::~
```

```
cpe:2.3:o:juniper:junos:15.1:r4:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1x49:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1x49:d10:*.~*~*~*~*~*~*
```

```
cpe:2.3:o:juniper:junos:15.1x49:d20:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1x49:d30:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1x49:d35:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1x49:d40:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1x49:d45:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1x49:d50:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1x49:d55:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1x53:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1x53:d10:*.***.***:
```

```
cpe:2.3:o:juniper:junos:15.1x53:d20:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:15.1x53:d21:*.~*~*~*~*~*
```

cpe:2.3:o:juniper:junos:15.1x53:d25:*****:
cpe:2.3:o:juniper:junos:15.1x53:d30:*****:
cpe:2.3:o:juniper:junos:15.1x53:d32:*****:
cpe:2.3:o:juniper:junos:15.1x53:d33:*****:
cpe:2.3:o:juniper:junos:15.1x53:d34:*****:
cpe:2.3:o:juniper:junos:16.1:*****:
cpe:2.3:o:juniper:junos:16.1:r1:*****:
cpe:2.3:o:juniper:junos:12.1x46:*****:
cpe:2.3:o:juniper:junos:12.1x46:d10:*****:
cpe:2.3:o:juniper:junos:12.1x46:d15:*****:
cpe:2.3:o:juniper:junos:12.1x46:d20:*****:
cpe:2.3:o:juniper:junos:12.1x46:d25:*****:
cpe:2.3:o:juniper:junos:12.1x46:d30:*****:
cpe:2.3:o:juniper:junos:12.1x46:d35:*****:
cpe:2.3:o:juniper:junos:12.1x46:d40:*****:
cpe:2.3:o:juniper:junos:12.1x46:d45:*****:
cpe:2.3:o:juniper:junos:12.1x46:d50:*****:
cpe:2.3:o:juniper:junos:12.3x48:d10:*****:
cpe:2.3:o:juniper:junos:12.3x48:d15:*****:
cpe:2.3:o:juniper:junos:12.3x48:d20:*****:
cpe:2.3:o:juniper:junos:12.3x48:d25:*****:
cpe:2.3:o:juniper:junos:12.3x48:d30:*****:
cpe:2.3:o:juniper:junos:14.1:*****:
cpe:2.3:o:juniper:junos:14.1:r1:*****:
cpe:2.3:o:juniper:junos:14.1:r2:*****:
cpe:2.3:o:juniper:junos:14.1:r3:*****:
cpe:2.3:o:juniper:junos:14.1:r4:*****:
cpe:2.3:o:juniper:junos:14.1:r5:*****:

cpe:2.3:o:juniper:junos:14.1:r6:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:14.1:r7:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:14.1:r9:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:14.1:x53:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:14.1:x53:d10:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:14.1:x53:d15:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:14.1:x53:d16:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:14.1:x53:d25:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:14.1:x53:d26:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:14.1:x53:d27:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:14.1:x53:d30:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:14.1:x53:d35:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:14.2:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:14.2:r1:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:14.2:r2:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:14.2:r3:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:14.2:r4:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:14.2:r7-s8:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:14.2:r8:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:15.1:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:15.1:f1:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:15.1:f2:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:15.1:f2-s1:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:15.1:f2-s2:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:15.1:f2-s3:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:15.1:f2-s4:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:15.1:f3:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:15.1:f4:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:15.1:f5:~::~~::~~::~~::~::

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