



CVE-2020-1649

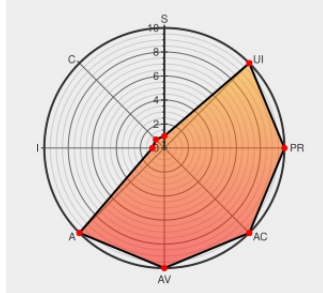
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CVE-2020-1649 - advisory for JSA11036

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



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

When a device running Juniper Networks Junos OS with MPC7, MPC8, or MPC9 line cards installed and the system is configured for inline IP reassembly, used by L2TP, MAP-E, GRE, and IPIP, the packet forwarding engine (PFE) will become disabled upon receipt of small fragments requiring reassembly, generating the following error

messages: [LOG: Err] MQSS(2): WO: Packet Error - Error Packets 1, Connection 29 [LOG: Err] eachip_hmcif_rx_intr_handler(7259): EA[2:0]: HMCIF Rx: Injected checksum error detected on WO response - Chunk Address 0x0 [LOG: Err] MQSS(2): DRD: RORD1: CMD reorder ID error - Command 11, Reorder ID 1960, QID 0 [LOG: Err] MQSS(2): DRD: UNROLL0: HMC chunk address error in stage 5 - Chunk Address: 0xc38fb1 [LOG: Notice] Error:

/fpc/0/pfe/0/cm/0/MQSS(2)/2/MQSS_CMERROR_DRD_RORD_ENG_INT_REG_CMD_FSM_S (0x2203cc), scope: pfe, category: functional, severity: major, module: MQSS(2), type: DRD_RORD_ENG_INT: CMD FSM State Error [LOG: Notice] Performing action cmalarm for error

/fpc/0/pfe/0/cm/0/MQSS(2)/2/MQSS_CMERROR_DRD_RORD_ENG_INT_REG_CMD_FSM_S (0x2203cc) in module: MQSS(2) with scope: pfe category: functional level: major [LOG: Notice] Performing action get-state for error

/fpc/0/pfe/0/cm/0/MQSS(2)/2/MQSS_CMERROR_DRD_RORD_ENG_INT_REG_CMD_FSM_S (0x2203cc) in module: MQSS(2) with scope: pfe category: functional level: major [LOG: Notice] Performing action disable-pfe for error

/fpc/0/pfe/0/cm/0/MQSS(2)/2/MQSS_CMERROR_DRD_RORD_ENG_INT_REG_CMD_FSM_S (0x2203cc) in module: MQSS(2) with scope: pfe category: functional level: major By continuously sending fragmented packets that cannot be reassembled, an attacker can repeatedly disable the PFE causing a sustained Denial of Service (DoS). This issue affects Juniper Networks Junos OS: 17.2 versions prior to 17.2R3-S4 on MX Series; 17.3 versions prior to 17.3R3-S8 on MX Series; 17.4 versions prior to 17.4R2-S9, 17.4R3-S1 on MX Series; 18.1 versions prior to 18.1R3-S10 on MX Series; 18.2 versions prior to 18.2R2-S6, 18.2R3-S3 on MX Series; 18.2X75 versions prior to 18.2X75-D34, 18.2X75-D41, 18.2X75-D53, 18.2X75-D65, 18.2X75-D430 on MX Series; 18.3 versions prior to 18.3R1-S7, 18.3R2-S4, 18.3R3-S2

on MX Series; 18.4 versions prior to 18.4R1-S6, 18.4R2-S4, 18.4R3 on MX Series; 19.1 versions prior to 19.1R1-S4, 19.1R2-S1, 19.1R3 on MX Series; 19.2 versions prior to 19.2R1-S3, 19.2R2 on MX Series; 19.3 versions prior to 19.3R2-S2, 19.3R3 on MX Series. This issue is specific to inline IP reassembly, introduced in Junos OS 17.2. Versions of Junos OS prior to 17.2 are unaffected by this vulnerability.

CVE-2020-1649 has been assigned by  sirt@juniper.net to track the vulnerability - currently rated as **HIGH** severity.

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

Vulnerability Patch/Work Around

There are no available workarounds for this issue.



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: **5 - MEDIUM**

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

CVE References

Description	Tags	Link
2020-07 Security Bulletin:Junos OS: MX Series: PFE crash on MPC7/8/9 upon receipt of small fragments requiring reassembly (CVE-2020-1649) - Juniper Networks	Vendor Advisory kb.juniper.net text/html	 CONFIRM kb.juniper.net/JSA11036
L2TP LNS Inline Service Interfaces - TechLibrary - Juniper Networks	Vendor Advisory www.juniper.net text/html	 MISC www.juniper.net/documentation/en_US/junos/topics/topic-map/l2tp-lns-inline-service-interfaces.html

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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	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-s11	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	17.2	r3-s3	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

System						
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-s7	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-s10	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	17.4	r2-s5	All	All

System						
Operating System	Juniper	Junos	17.4	r2-s6	All	All
Operating System	Juniper	Junos	17.4	r2-s7	All	All
Operating System	Juniper	Junos	17.4	r2-s8	All	All
Operating System	Juniper	Junos	17.4	r3	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	18.1	r3-s9	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

System						
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	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	18.2x75	-	All	All
Operating System	Juniper	Junos	18.2x75	d20	All	All
Operating System	Juniper	Junos	18.2x75	d30	All	All
Operating System	Juniper	Junos	18.3	-	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	Juniper	Junos	18.3	r2-s1	All	All

System						
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	18.3	r3-s1	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	18.4	r2-s2	All	All
Operating System	Juniper	Junos	18.4	r2-s3	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	r2	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	Juniper	Junos	19.2	r1-s2	All	All

System						
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	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-s11	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	17.2	r3-s3	All	All
Operating System	Juniper	Junos	17.3	-	All	All
Operating	Juniper	Junos	17.3	r1-s1	All	All

System						
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-s7	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-s10	All	All
Operating System	Juniper	Junos	17.4	r2-s2	All	All

Operating System	Vendor	Version	Port	IP Subnet	Access	Access
Operating System	Juniper	Junos	17.4	r2-s3	All	All
Operating System	Juniper	Junos	17.4	r2-s4	All	All
Operating System	Juniper	Junos	17.4	r2-s5	All	All
Operating System	Juniper	Junos	17.4	r2-s6	All	All
Operating System	Juniper	Junos	17.4	r2-s7	All	All
Operating System	Juniper	Junos	17.4	r2-s8	All	All
Operating System	Juniper	Junos	17.4	r3	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	18.1	r3-s9	All	All
Operating System	Juniper	Junos	18.2	-	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	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	18.2x75	-	All	All
Operating System	Juniper	Junos	18.2x75	d20	All	All
Operating System	Juniper	Junos	18.2x75	d30	All	All
Operating System	Juniper	Junos	18.3	-	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-s4	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	18.3	r3-s1	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	18.4	r2-s2	All	All
Operating System	Juniper	Junos	18.4	r2-s3	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	r2	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	19.3	-	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
Hardware 	Juniper	Mx10	-	All	All	All
Hardware 	Juniper	Mx10	-	All	All	All
Hardware 	Juniper	Mx10000	-	All	All	All
Hardware 	Juniper	Mx10000	-	All	All	All
Hardware 	Juniper	Mx10003	-	All	All	All
Hardware 	Juniper	Mx10003	-	All	All	All
Hardware 	Juniper	Mx104	-	All	All	All
Hardware 	Juniper	Mx104	-	All	All	All
Hardware 	Juniper	Mx150	-	All	All	All
Hardware 	Juniper	Mx150	-	All	All	All
Hardware 	Juniper	Mx2008	-	All	All	All
Hardware 	Juniper	Mx2008	-	All	All	All
Hardware 	Juniper	Mx2010	-	All	All	All
Hardware 	Juniper	Mx2010	-	All	All	All
Hardware 	Juniper	Mx2020	-	All	All	All
Hardware 	Juniper	Mx2020	-	All	All	All
Hardware 	Juniper	Mx204	-	All	All	All
Hardware 	Juniper	Mx204	-	All	All	All
Hardware 	Juniper	Mx240	-	All	All	All

Hardware		Juniper	Mx240	-	All	All	All
Hardware		Juniper	Mx40	-	All	All	All
Hardware		Juniper	Mx40	-	All	All	All
Hardware		Juniper	Mx480	-	All	All	All
Hardware		Juniper	Mx480	-	All	All	All
Hardware		Juniper	Mx5	-	All	All	All
Hardware		Juniper	Mx5	-	All	All	All
Hardware		Juniper	Mx80	-	All	All	All
Hardware		Juniper	Mx80	-	All	All	All
Hardware		Juniper	Mx960	-	All	All	All
Hardware		Juniper	Mx960	-	All	All	All
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-s11:*:*:*:*:*:							
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:17.2:r3-s3:*:*:*:*:*:							
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:17.0: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-s7:~::~:
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-s10:~::~:
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:17.4:r2-s5:~::~:
cpe:2.3:o:juniper:junos:17.4:r2-s6:~::~:
cpe:2.3:o:juniper:junos:17.4:r2-s7:~::~:
cpe:2.3:o:juniper:junos:17.4:r2-s8:~::~:

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:18.2x75:-:*:*:*:*:*:
cpe:2.3:o:juniper:junos:18.2x75:d20:*:*:*:*:*:
cpe:2.3:o:juniper:junos:18.2x75:d30:*:*:*:*:*:
cpe:2.3:o:juniper:junos:18.3:-:*:*:*:*:*:
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:18.3:r3-s1:*:*:*:*:*:
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:18.4:r2-s2:*:*:*:*:*:
cpe:2.3:o:juniper:junos:18.4:r2-s3:*:*:*:*:*:
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:r2:*****:
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:19.3:-:*****:
cpe:2.3:o:juniper:junos:19.3:r1:*****:
cpe:2.3:o:juniper:junos:19.3:r1-s1:*****:
cpe:2.3:o:juniper:junos:19.3:r2:*****:
cpe:2.3:o:juniper:junos:19.3:r2-s1:*****:
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-s11:*****:
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:17.2:r3-s3:~::~~::~~::~~::~~::~~::
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-s7:~::~~::~~::~~::~~::~~::
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-s10:~::~~::~~::~~::~~::~~::
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:17.4:r2-s5:~::~~::~~::~~::~::
cpe:2.3:o:juniper:junos:17.4:r2-s6:~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:17.4:r2-s7:~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:17.4:r2-s8:~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:17.4:r3:~::~~::~~::~~::~~::
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:18.1:r3-s9:~::~~::~~::~~::~~::
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:~::~~::~~::~~::~~::~~::
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: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:18.2x75:-~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.2x75:d20:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.2x75:d30:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.3:-~::~~::~~::~~::~~::~~::
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:18.3:r3-s1:~::~~::~~::~~::~~::~~::
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:iuniper:iunos: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: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:r2:*:*:*:*:*:
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:19.3:-:*:*:*:*:*:
cpe:2.3:o:juniper:junos:19.3:r1:*:*:*:*:*:
cpe:2.3:o:juniper:junos:19.3:r1-s1:*:*:*:*:*:
cpe:2.3:o:juniper:junos:19.3:r2:*:*:*:*:*:
cpe:2.3:o:juniper:junos:19.3:r2-s1:*:*:*:*:*:
cpe:2.3:h:juniper:mx10:-:*:*:*:*:*:
cpe:2.3:h:juniper:mx10:-:*:*:*:*:*:
cpe:2.3:h:juniper:mx10000:-:*:*:*:*:*:
cpe:2.3:h:juniper:mx10000:-:*:*:*:*:*:
cpe:2.3:h:juniper:mx10003:-:*:*:*:*:*:
cpe:2.3:h:juniper:mx10003:-:*:*:*:*:*:
cpe:2.3:h:juniper:mx104:-:*:*:*:*:*:
cpe:2.3:h:juniper:mx104:-:*:*:*:*:*:
cpe:2.3:h:juniper:mx150:-:*:*:*:*:*:
cpe:2.3:h:juniper:mx150:-:*:*:*:*:*:

cpe:2.3:h:juniper:mx2008:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx2008:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx2010:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx2010:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx2020:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx2020:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx204:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx204:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx240:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx240:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx240:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx40:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx40:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx480:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx480:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx5:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx5:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx80:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx80:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx960:-:~::~~::~~::~~::~~::~~::~~::
cpe:2.3:h:juniper:mx960:-:~::~~::~~::~~::~~::~~::~~::

No vendor comments have been submitted for this CVE

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