



CVE-2020-1609

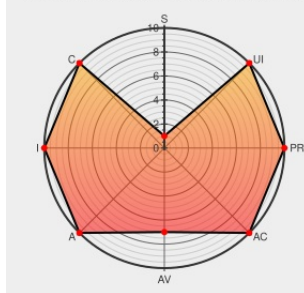
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CVE-2020-1609 - advisory for JSA10981

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

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



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

When a device using Juniper Network's Dynamic Host Configuration Protocol Daemon (JDHCPD) process on Junos OS or Junos OS Evolved which is configured in relay mode it vulnerable to an attacker sending crafted IPv6 packets who may then arbitrarily execute commands as root on the target device. This issue affects IPv6

JDHCPD services. This issue affects: Juniper Networks Junos OS: 15.1 versions prior to 15.1R7-S6; 15.1X49 versions prior to 15.1X49-D200; 15.1X53 versions prior to 15.1X53-D592; 16.1 versions prior to 16.1R7-S6; 16.2 versions prior to 16.2R2-S11; 17.1 versions prior to 17.1R2-S11, 17.1R3-S1; 17.2 versions prior to 17.2R2-S8, 17.2R3-S3; 17.3 versions prior to 17.3R3-S6; 17.4 versions prior to 17.4R2-S7, 17.4R3; 18.1 versions prior to 18.1R3-S8; 18.2 versions prior to 18.2R3-S2; 18.2X75 versions prior to 18.2X75-D60; 18.3 versions prior to 18.3R1-S6, 18.3R2-S2, 18.3R3; 18.4 versions prior to 18.4R1-S5, 18.4R2-S3, 18.4R3; 19.1 versions prior to 19.1R1-S3, 19.1R2; 19.2 versions prior to 19.2R1-S3, 19.2R2*. and All versions prior to 19.3R1 on Junos OS Evolved. This issue do not affect versions of Junos OS prior to 15.1, or JDHCPD operating as a local server in non-relay mode.

CVE-2020-1609 has been assigned by [JJ](#) [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

If JDHCPD is not needed then disable the service in the device configuration. There are no other viable workarounds for this issue.

CVSS3 Score: **8.8 - HIGH**

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

UNCHANGED		HIGH		HIGH		HIGH	
CVSS2 Score: 8.3 - HIGH							
Access Vector			Access Complexity		Authentication		
ADJACENT_NETWORK			LOW		NONE		
Confidentiality Impact			Integrity Impact		Availability Impact		
COMPLETE			COMPLETE		COMPLETE		
CVE References							
Description				Tags		Link	
2020-01 Security Bulletin: Junos OS and Junos OS Evolved: Multiple vulnerabilities in JDHCPD allow for OS command injection and code execution of JDHCPD. - Juniper Networks				Vendor Advisory kb.juniper.net text/html		 CONFIRM kb.juniper.net/JSA10981	
No Description Provided				Permissions Required prsearch.juniper.net text/html		 MISC prsearch.juniper.net/InfoCenter/index?page=prcontent&id=PR1449353	
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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	15.1	r7	All	All	
Operating System	Juniper	Junos	15.1	r7-s1	All	All	
Operating System	Juniper	Junos	15.1	r7-s2	All	All	
Operating System	Juniper	Junos	15.1	r7-s3	All	All	
Operating System	Juniper	Junos	15.1	r7-s4	All	All	
Operating System	Juniper	Junos	15.1	r7-s5	All	All	
Operating System	Juniper	Junos	15.1x49	d10	All	All	
Operating System	Juniper	Junos	15.1x49	d110	All	All	
Operating	Juniper	Junos	15.1x49	d140	All	All	

System						
Operating System	Juniper	Junos	15.1x49	d150	All	All
Operating System	Juniper	Junos	15.1x49	d170	All	All
Operating System	Juniper	Junos	15.1x49	d180	All	All
Operating System	Juniper	Junos	15.1x49	d190	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	d50	All	All
Operating System	Juniper	Junos	15.1x49	d55	All	All
Operating System	Juniper	Junos	15.1x49	d60	All	All
Operating System	Juniper	Junos	15.1x49	d65	All	All
Operating System	Juniper	Junos	15.1x49	d70	All	All
Operating System	Juniper	Junos	15.1x49	d75	All	All
Operating System	Juniper	Junos	15.1x49	d80	All	All
Operating System	Juniper	Junos	15.1x49	d90	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	d210	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	d31	All	All
Operating	Juniper	Junos	15.1x53	d32	All	All

System						
Operating System	Juniper	Junos	15.1x53	d33	All	All
Operating System	Juniper	Junos	15.1x53	d34	All	All
Operating System	Juniper	Junos	15.1x53	d40	All	All
Operating System	Juniper	Junos	15.1x53	d45	All	All
Operating System	Juniper	Junos	15.1x53	d470	All	All
Operating System	Juniper	Junos	15.1x53	d495	All	All
Operating System	Juniper	Junos	15.1x53	d56	All	All
Operating System	Juniper	Junos	15.1x53	d591	All	All
Operating System	Juniper	Junos	15.1x53	d60	All	All
Operating System	Juniper	Junos	15.1x53	d61	All	All
Operating System	Juniper	Junos	15.1x53	d62	All	All
Operating System	Juniper	Junos	15.1x53	d63	All	All
Operating System	Juniper	Junos	15.1x53	d65	All	All
Operating System	Juniper	Junos	15.1x53	d70	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	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	r4	All	All
Operating System	Juniper	Junos	16.1	r5-s4	All	All
Operating System	Juniper	Junos	16.1	r6-s1	All	All
Operating	Juniper	Junos	16.1	r7	All	All

System						
Operating System	Juniper	Junos	16.1	r7-s4	All	All
Operating System	Juniper	Junos	16.1	r7-s5	All	All
Operating System	Juniper	Junos	16.2	-	All	All
Operating System	Juniper	Junos	16.2	r1	All	All
Operating System	Juniper	Junos	16.2	r2	All	All
Operating System	Juniper	Junos	16.2	r2-s1	All	All
Operating System	Juniper	Junos	16.2	r2-s2	All	All
Operating System	Juniper	Junos	16.2	r2-s5	All	All
Operating System	Juniper	Junos	16.2	r2-s6	All	All
Operating System	Juniper	Junos	16.2	r2-s7	All	All
Operating System	Juniper	Junos	16.2	r2-s8	All	All
Operating System	Juniper	Junos	16.2	r2-s9	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-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	r3	All	All

Operating System	Company	Device	Version	Release	Platform	Architecture
Operating System	Juniper	Junos	17.2	-	All	All
Operating System	Juniper	Junos	17.2	r1-s2	All	All
Operating System	Juniper	Junos	17.2	r1-s4	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-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	17.3	-	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	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-s2	All	All
Operating System	Juniper	Junos	17.4	r1-s4	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-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	18.1	r3-s5	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	18.2	-	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	18.2	r3	All	All
Operating System	Juniper	Junos	18.2	r3-s1	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	d40	All	All

Operating System	Juniper	Junos	18.2X75	Q4U	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	r2	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-s3	All	All
Operating System	Juniper	Junos	18.4	r1-s4	All	All
Operating System	Juniper	Junos	18.4	r2	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	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	15.1	r7	All	All

Operating System	Juniper	Junos	15.1	r7-s1	All	All
Operating System	Juniper	Junos	15.1	r7-s2	All	All
Operating System	Juniper	Junos	15.1	r7-s3	All	All
Operating System	Juniper	Junos	15.1	r7-s4	All	All
Operating System	Juniper	Junos	15.1	r7-s5	All	All
Operating System	Juniper	Junos	15.1x49	d10	All	All
Operating System	Juniper	Junos	15.1x49	d110	All	All
Operating System	Juniper	Junos	15.1x49	d140	All	All
Operating System	Juniper	Junos	15.1x49	d150	All	All
Operating System	Juniper	Junos	15.1x49	d170	All	All
Operating System	Juniper	Junos	15.1x49	d180	All	All
Operating System	Juniper	Junos	15.1x49	d190	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	d50	All	All
Operating System	Juniper	Junos	15.1x49	d55	All	All
Operating System	Juniper	Junos	15.1x49	d60	All	All
Operating System	Juniper	Junos	15.1x49	d65	All	All
Operating System	Juniper	Junos	15.1x49	d70	All	All
Operating System	Juniper	Junos	15.1x49	d75	All	All
Operating System	Juniper	Junos	15.1x49	d80	All	All

Operating System	Juniper	Junos	15.1x49	d90	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	d210	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	d31	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	15.1x53	d40	All	All
Operating System	Juniper	Junos	15.1x53	d45	All	All
Operating System	Juniper	Junos	15.1x53	d470	All	All
Operating System	Juniper	Junos	15.1x53	d495	All	All
Operating System	Juniper	Junos	15.1x53	d56	All	All
Operating System	Juniper	Junos	15.1x53	d591	All	All
Operating System	Juniper	Junos	15.1x53	d60	All	All
Operating System	Juniper	Junos	15.1x53	d61	All	All
Operating System	Juniper	Junos	15.1x53	d62	All	All
Operating System	Juniper	Junos	15.1x53	d63	All	All
Operating System	Juniper	Junos	15.1x53	d65	All	All
Operating System	Juniper	Junos	15.1x53	d70	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	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	r4	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	r7	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	16.2	-	All	All
Operating System	Juniper	Junos	16.2	r1	All	All
Operating System	Juniper	Junos	16.2	r2	All	All
Operating System	Juniper	Junos	16.2	r2-s1	All	All
Operating System	Juniper	Junos	16.2	r2-s2	All	All
Operating System	Juniper	Junos	16.2	r2-s5	All	All
Operating System	Juniper	Junos	16.2	r2-s6	All	All
Operating System	Juniper	Junos	16.2	r2-s7	All	All
Operating System	Juniper	Junos	16.2	r2-s8	All	All
Operating System	Juniper	Junos	16.2	r2-s9	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-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	r3	All	All
Operating System	Juniper	Junos	17.2	-	All	All
Operating System	Juniper	Junos	17.2	r1-s2	All	All
Operating System	Juniper	Junos	17.2	r1-s4	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-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	17.3	-	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	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-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-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	18.1	r3-s5	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	18.2	-	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	18.2	r3	All	All
Operating System	Juniper	Junos	18.2	r3-s1	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	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-s4	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	18.4	-	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	r2	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	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:15.1:r7:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:15.1:r7-s1:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:15.1:r7-s2:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:15.1:r7-s3:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:15.1:r7-s4:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:15.1:r7-s5:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:15.1x49:d10:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:15.1x49:d110:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:15.1x49:d140:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:15.1x49:d150:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:15.1x49:d170:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:15.1x49:d180:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:15.1x49:d190:*:*:*:*:*:						
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:d50:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:15.1x49:d55:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:15.1x49:d60:*:*:*:*:*:						
cpe:2.3:o:juniper:junos:15.1x49:d65:*:*:*:*:*:						

cpe:2.3:o:juniper:junos:15.1x49:d70:~*~*~*~*~*~*
cpe:2.3:o:juniper:junos:15.1x49:d75:~*~*~*~*~*~*
cpe:2.3:o:juniper:junos:15.1x49:d80:~*~*~*~*~*~*
cpe:2.3:o:juniper:junos:15.1x49:d90:~*~*~*~*~*~*
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:d210:~*~*~*~*~*~*
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:d31:~*~*~*~*~*~*
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:15.1x53:d40:~*~*~*~*~*~*
cpe:2.3:o:juniper:junos:15.1x53:d45:~*~*~*~*~*~*
cpe:2.3:o:juniper:junos:15.1x53:d470:~*~*~*~*~*~*
cpe:2.3:o:juniper:junos:15.1x53:d495:~*~*~*~*~*~*
cpe:2.3:o:juniper:junos:15.1x53:d56:~*~*~*~*~*~*
cpe:2.3:o:juniper:junos:15.1x53:d591:~*~*~*~*~*~*
cpe:2.3:o:juniper:junos:15.1x53:d60:~*~*~*~*~*~*
cpe:2.3:o:juniper:junos:15.1x53:d61:~*~*~*~*~*~*
cpe:2.3:o:juniper:junos:15.1x53:d62:~*~*~*~*~*~*
cpe:2.3:o:juniper:junos:15.1x53:d63:~*~*~*~*~*~*
cpe:2.3:o:juniper:junos:15.1x53:d65:~*~*~*~*~*~*
cpe:2.3:o:juniper:junos:15.1x53:d70:~*~*~*~*~*~*
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:r4:~::~~::~~::
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:r7:~::~~::~~::
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:16.2:-:~::~~::~~::
cpe:2.3:o:juniper:junos:16.2:r1:~::~~::~~::
cpe:2.3:o:juniper:junos:16.2:r2:~::~~::~~::
cpe:2.3:o:juniper:junos:16.2:r2-s1:~::~~::~~::
cpe:2.3:o:juniper:junos:16.2:r2-s2:~::~~::~~::
cpe:2.3:o:juniper:junos:16.2:r2-s5:~::~~::~~::
cpe:2.3:o:juniper:junos:16.2:r2-s6:~::~~::~~::
cpe:2.3:o:juniper:junos:16.2:r2-s7:~::~~::~~::
cpe:2.3:o:juniper:junos:16.2:r2-s8:~::~~::~~::
cpe:2.3:o:juniper:junos:16.2:r2-s9:~::~~::~~::
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-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:r3:~::~~::~~::

cpe:2.3:o:juniper:junos:17.2:-:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.2:r1-s2:*:*:*:*:*:
cpe:2.3:o:juniper:junos:17.2:r1-s4:*:*:*:*:*:
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-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:17.3:-:*:*:*:*:*:
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: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-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-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:18.1:r3-s5:~::~~::~~::~~::~~::~~:::
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:18.2:-:~::~~::~~::~~::~~::~~:::
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:18.2:r3:~::~~::~~::~~::~~::~~:::
cpe:2.3:o:juniper:junos:18.2:r3-s1:~::~~::~~::~~::~~::~~:::
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: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-s4:~::~~::~~::~~::~~::~~:::
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:18.4:-:~::~~::~~::~~::~~::~~:::
cpe:2.3:o:juniper:junos:18.4:r1:~::~~::~~::~~::~~::~~:::
cpe:2.3:o:iuniper:iunos:18.4:r1-s1:~::~~::~~::~~::~~::~~:::

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:r2:****:*:
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: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:15.1:r7:****:*:
cpe:2.3:o:juniper:junos:15.1:r7-s1:****:*:
cpe:2.3:o:juniper:junos:15.1:r7-s2:****:*:
cpe:2.3:o:juniper:junos:15.1:r7-s3:****:*:
cpe:2.3:o:juniper:junos:15.1:r7-s4:****:*:
cpe:2.3:o:juniper:junos:15.1:r7-s5:****:*:
cpe:2.3:o:juniper:junos:15.1x49:d10:****:*:
cpe:2.3:o:juniper:junos:15.1x49:d110:****:*:
cpe:2.3:o:juniper:junos:15.1x49:d140:****:*:
cpe:2.3:o:juniper:junos:15.1x49:d150:****:*:
cpe:2.3:o:juniper:junos:15.1x49:d170:****:*:
cpe:2.3:o:juniper:junos:15.1x49:d180:****:*:
cpe:2.3:o:juniper:junos:15.1x49:d190:****:*:
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:d50:****:*:

cpe:2.3:o:juniper:junos:15.1x49:d55:****:*:
cpe:2.3:o:juniper:junos:15.1x49:d60:****:*:
cpe:2.3:o:juniper:junos:15.1x49:d65:****:*:
cpe:2.3:o:juniper:junos:15.1x49:d70:****:*:
cpe:2.3:o:juniper:junos:15.1x49:d75:****:*:
cpe:2.3:o:juniper:junos:15.1x49:d80:****:*:
cpe:2.3:o:juniper:junos:15.1x49:d90:****:*:
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:d210:****:*:
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:d31:****:*:
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:15.1x53:d40:****:*:
cpe:2.3:o:juniper:junos:15.1x53:d45:****:*:
cpe:2.3:o:juniper:junos:15.1x53:d470:****:*:
cpe:2.3:o:juniper:junos:15.1x53:d495:****:*:
cpe:2.3:o:juniper:junos:15.1x53:d56:****:*:
cpe:2.3:o:juniper:junos:15.1x53:d591:****:*:
cpe:2.3:o:juniper:junos:15.1x53:d60:****:*:
cpe:2.3:o:juniper:junos:15.1x53:d61:****:*:
cpe:2.3:o:juniper:junos:15.1x53:d62:****:*:
cpe:2.3:o:juniper:junos:15.1x53:d63:****:*:
cpe:2.3:o:juniper:junos:15.1x53:d65:****:*:
cpe:2.3:o:juniper:junos:15.1x53:d70:****:*:
cpe:2.3:o:juniper:junos:15.1x53:d71:****:*:

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:r4:*****:
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:r7:*****:
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:16.2:-:*****:
cpe:2.3:o:juniper:junos:16.2:r1:*****:
cpe:2.3:o:juniper:junos:16.2:r2:*****:
cpe:2.3:o:juniper:junos:16.2:r2-s1:*****:
cpe:2.3:o:juniper:junos:16.2:r2-s2:*****:
cpe:2.3:o:juniper:junos:16.2:r2-s5:*****:
cpe:2.3:o:juniper:junos:16.2:r2-s6:*****:
cpe:2.3:o:juniper:junos:16.2:r2-s7:*****:
cpe:2.3:o:juniper:junos:16.2:r2-s8:*****:
cpe:2.3:o:juniper:junos:16.2:r2-s9:*****:
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-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:r3:*:*:*:*:*:
```

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

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

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

```
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-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:17.3:-:*:*:*:*:*:

```
cpe:2.3:o:juniper:junos:17.3:r1-s1:*:*:*:*:*:
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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:r3-s1:*:*:*:*:*:
```

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cpe:2.3:o:juniper:junos:17.3:r3-s2:*:*:*:*:*:
```

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cpe:2.3:o:juniper:junos:17.3:r3-s3:*:*:*:*:*:
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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-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-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:18.1:r3-s5:~::~~::~~::~~::~~::~~::
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:18.2:-:~::~~::~~::~~::~~::~~::
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:18.2:r3:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.2:r3-s1:~::~~::~~::~~::~~::~~::
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: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-s4:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.3:r1-s5:~::~~::~~::~~::~~::~~::
cpe:2.3:o:juniper:junos:18.3:r2:~::~~::~~::~~::~~::~~::

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