CVE-2021-31351

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CVE-2021-31351 - advisory for JSA11216

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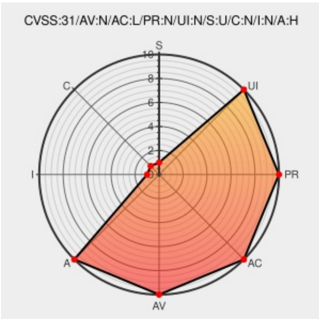

Certain versions of Junos from Juniper contain the following vulnerability:

An Improper Check for Unusual or Exceptional Conditions in packet processing on the MS-MPC/MS-MIC utilized by Juniper Networks Junos OS allows a malicious attacker to send a specific packet, triggering the MS-MPC/MS-MIC to reset, causing a Denial of Service (DoS). Continued receipt and processing of this packet will create a sustained Denial of Service (DoS) condition. This issue only affects specific versions of Juniper Networks Junos OS on MX Series: 17.3R3-S11; 17.4R2-S13; 17.4R3 prior to 17.4R3-S5; 18.1R3-S12; 18.2R2-S8, 18.2R3-S7, 18.2R3-S8; 18.3R3-S4; 18.4R3-S7; 19.1R3-S4, 19.1R3-S5; 19.2R1-S6; 19.3R3-S2; 19.4R2-S4, 19.4R2-S5; 19.4R3-S2; 20.1R2-S1; 20.2R2-S2, 20.2R2-S3, 20.2R3; 20.3R2, 20.3R2-S1; 20.4R1, 20.4R1-S1, 20.4R2; 21.1R1; This issue does not affect any version of Juniper Networks Junos OS prior to 15.1X49-D240;

CVE-2021-31351 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 viable 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	Access	Authentication

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

CVE References

Description	Tags	Link
2021-10 Security Bulletin: Junos OS: MX Series: Receipt of specific packet on MS-MPC/MS-MIC causes line card reset (CVE-2021-31351) - Juniper Networks	kb.juniper.net text/html	CONFIRM kb.juniper.net/JSA11216

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Related QID Numbers

43895 Juniper Network Operating System (Junos OS) :MX Series Denial of Service (DoS) (Line Card Reset) Vulnerability (JSA1121)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Juniper	Junos	17.3	r3-s11	All	All
Operating System	Juniper	Junos	17.4	r2-s13	All	All
Operating System	Juniper	Junos	17.4	r3	All	All
Operating System	Juniper	Junos	17.4	r3-s1	All	All
Operating System	Juniper	Junos	17.4	r3-s2	All	All
Operating System	Juniper	Junos	17.4	r3-s3	All	All
Operating System	Juniper	Junos	17.4	r3-s4	All	All
Operating System	Juniper	Junos	18.1	r3-s12	All	All
Operating System	Juniper	Junos	18.2	r2-s8	All	All
Operating System	Juniper	Junos	18.2	r3-s7	All	All
Operating System	Juniper	Junos	18.2	r3-s8	All	All
Operating System	Juniper	Junos	18.3	r3-s4	All	All

Operating System	Juniper	Junos	18.4	r3-s7	All	All
Operating System	Juniper	Junos	19.1	r3-s4	All	All
Operating System	Juniper	Junos	19.1	r3-s5	All	All
Operating System	Juniper	Junos	19.2	r1-s6	All	All
Operating System	Juniper	Junos	19.3	r3-s2	All	All
Operating System	Juniper	Junos	19.4	r2-s4	All	All
Operating System	Juniper	Junos	19.4	r2-s5	All	All
Operating System	Juniper	Junos	19.4	r3-s2	All	All
Operating System	Juniper	Junos	20.1	r2-s1	All	All
Operating System	Juniper	Junos	20.2	r2-s2	All	All
Operating System	Juniper	Junos	20.2	r2-s3	All	All
Operating System	Juniper	Junos	20.2	r3	All	All
Operating System	Juniper	Junos	20.3	r2	All	All
Operating System	Juniper	Junos	20.3	r2-s1	All	All
Operating System	Juniper	Junos	20.4	r1	All	All
Operating System	Juniper	Junos	20.4	r1-s1	All	All
Operating System	Juniper	Junos	20.4	r2	All	All
Operating System	Juniper	Junos	21.1	r1	All	All
Hardware	Juniper	Mx10	-	All	All	All
Hardware	Juniper	Mx10000	-	All	All	All
Hardware	Juniper	Mx10003	-	All	All	All
Hardware	Juniper	Mx10008	-	All	All	All
Hardware	Juniper	Mx10016	-	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	Mx2010	-	All	All	All
Hardware	Juniper	Mx2020	-	All	All	All
Hardware	Juniper	Mx204	-	All	All	All
Hardware	Juniper	Mx240	-	All	All	All
Hardware	Juniper	Mx40	-	All	All	All
Hardware	Juniper	Mx480	-	All	All	All
Hardware	Juniper	Mx5	-	All	All	All
Hardware	Juniper	Mx80	-	All	All	All
Hardware	Juniper	Mx960	-	All	All	All

cpe:2.3:o:juniper:junos:17.3:r3-s11:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:17.4:r2-s13:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:17.4:r3:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:17.4:r3-s1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:17.4:r3-s2:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:17.4:r3-s3:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:17.4:r3-s4:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:18.1:r3-s12:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:18.2:r2-s8:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:18.2:r3-s7:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:18.2:r3-s8:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:18.3:r3-s4:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:18.4:r3-s7:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:19.1:r3-s4:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:19.1:r3-s5:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:19.2:r1-s6:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:19.3:r3-s2:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:19.4:r2-s4:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:19.4:r2-s5:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:19.4:r3-s2:*:*:*:*:*:*:

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

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

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

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

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

cpe:2.3:o:juniper:junos:20.3:r2-s1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:20.4:r1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:20.4:r1-s1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:20.4:r2:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:21.1:r1:*:*:*:*:*:*:

cpe:2.3:h:juniper:mx10:-:*:*:*:*:*:*:*:

cpe:2.3:h:juniper:mx10000:-:*:*:*:*:*:*:*:

cpe:2.3:h:juniper:mx10003:-:*:*:*:*:*:*:*:

cpe:2.3:h:juniper:mx10008:-:*:*:*:*:*:*:*:

cpe:2.3:h:juniper:mx10016:-:*:*:*:*:*:*:*:

cpe:2.3:h:juniper:mx104:-:*:*:*:*:*:*:*:

cpe:2.3:h:juniper:mx150:-:*:*:*:*:*:*:*:

cpe:2.3:h:juniper:mx2008:-:*:*:*:*:*:*:*:

cpe:2.3:h:juniper:mx2010:-:*:*:*:*:*:*:*:

cpe:2.3:h:juniper:mx2020:-:*:*:*:*:*:*:*:

cpe:2.3:h:juniper:mx204:-:*:*:*:*:*:*:*:

cpe:2.3:h:juniper:mx240:-:*:*:*:*:*:*:*:

cpe:2.3:h:juniper:mx40:-:*:*:*:*:*:*:*:

cpe:2.3:h:juniper:mx480:-:*:*:*:*:*:*:*:

cpe:2.3:h:juniper:mx5:-:*:*:*:*:*:*:*:

cpe:2.3:h:juniper:mx80:-:*:*:*:*:*:*:*:

cpe:2.3:h:juniper:mx960:-:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@softek_jp	Juniper Networks MX シリーズの Junos OS にサービスを妨害される問題 (CVE-2021-31351) [40232] sid.softek.jp/content/show/4… #SIDfm #脆弱性情報	2021-10-14 08:00:14
@management_sun	IT Risk:Juniper Networks. Junos OS on MX Seriesに複数の脆弱性 悪意ある攻撃者による特定のパケット送出、リセット、Dosによるサービス拒否に至る可能性 CVE-2021-31351 C… twitter.com/i/web/status/1…	2021-10-14 23:12:44
@CVEreport	CVE-2021-31351 : An Improper Check for Unusual or Exceptional Conditions in packet processing on the MS-MPC/MS-MIC… twitter.com/i/web/status/1…	2021-10-19 18:23:02

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