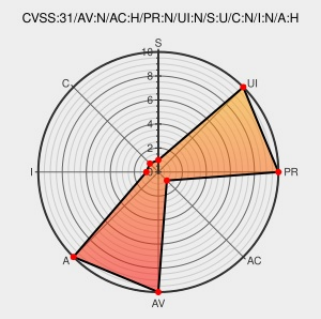
# CVE-2022-22219

Published on: Not Yet Published

Last Modified on: 10/21/2022 06:12:00 PM UTC

## **CVE-2022-22219** - advisory for JSA69898

Source: Mitre | Source: NIST | CVE.ORG | Print: PDF




Certain versions of Junos from Juniper contain the following vulnerability:

Due to the Improper Handling of an Unexpected Data Type in the processing of EVPN routes on Juniper Networks Junos OS and Junos OS Evolved, an attacker in direct control of a BGP client connected to a route reflector, or via a machine in the middle (MITM) attack, can send a specific EVPN route contained within a BGP Update, triggering a routing protocol daemon (RPD) crash, leading to a Denial of Service (DoS) condition. Continued receipt and processing of these specific EVPN routes could create a sustained Denial of Service (DoS) condition. This issue only occurs on BGP route reflectors, only within a BGP EVPN multicast environment, and only when one or more BGP clients have 'leave-sync-route-oldstyle' enabled. This issue affects: Juniper Networks Junos OS 21.3 versions prior to 21.3R3-S2; 21.4 versions prior to 21.4R2-S2, 21.4R3; 22.1 versions prior to 22.1R1-S2, 22.1R3; 22.2 versions prior to 22.2R2. Juniper Networks Junos OS Evolved 21.3 version 21.3R1-EVO and later versions prior to 21.4R3-EVO; 22.1 versions prior to 22.1R1-S2-EVO, 22.1R3-EVO; 22.2 versions prior to 22.2R2-EVO. This issue does not affect: Juniper Networks Junos OS versions prior to 21.3R1. Juniper Networks Junos OS Evolved versions prior to 21.3R1-EVO.

CVE-2022-22219 has been assigned by sirt@juniper.net to track the vulnerability - currently rated as MEDIUM severity.

### Vulnerability Patch/Work Around

Enabling 'leave-sync-route-oldstyle' on the BGP route reflector will mitigate the RPD crash, but BGP sessions may still be torn down if one or more clients have 'leave-sync-route-oldstyle' enabled.

### CVSS3 Score: 5.9 - MEDIUM

| Attack Vector | Attack Complexity | Privileges Required | User Interaction |
|---|---|---|---|
| NETWORK | HIGH | NONE | NONE |
| **Scope** | **Confidentiality** | **Integrity** | **Availability** |

| | Impact | Impact | Impact |
|---|---|---|---|
| UNCHANGED | NONE | NONE | HIGH |

## CVE References

| Description | Tags | Link |
|---|---|---|
| evpn \| EVPN User Guide \| Juniper Networks TechLibrary | www.juniper.net text/xml | MISC www.juniper.net/documentation/us/en/software/junos/evpn-vxlan/topics/ref/statement/evpn-edit-routing-instances-protocols.html |
| CEC Juniper Community | kb.juniper.net text/html | CONFIRM kb.juniper.net/JSA69898 |



## Related QID Numbers

43975 Juniper Network Operating System (Junos OS) Denial of Service (DoS) Vulnerability (JSA69898)

## Known Affected Configurations (CPE V2.3)

| Type | Vendor | Product | Version | Update | Edition | Language |
|---|---|---|---|---|---|---|
| Operating System | Juniper | Junos | 21.3 | - | All | All |
| Operating System | Juniper | Junos | 21.3 | r1 | All | All |
| Operating System | Juniper | Junos | 21.3 | r1-s1 | All | All |
| Operating System | Juniper | Junos | 21.3 | r1-s2 | All | All |
| Operating System | Juniper | Junos | 21.3 | r2 | All | All |
| Operating System | Juniper | Junos | 21.3 | r2-s1 | All | All |
| Operating System | Juniper | Junos | 21.3 | r2-s2 | All | All |
| Operating System | Juniper | Junos | 21.3 | r3 | All | All |
| Operating System | Juniper | Junos | 21.3 | r3-s1 | All | All |
| Operating System | Juniper | Junos | 21.4 | - | All | All |
| Operating System | Juniper | Junos | 21.4 | r1 | All | All |
| Operating System | Juniper | Junos | 21.4 | r1-s1 | All | All |
| Operating | Juniper | Junos | 21.4 | r1-s2 | All | All |

| | | | | | | |
|---|---|---|---|---|---|---|
| System | | | | | | |
| Operating System | Juniper | Junos | 21.4 | r2 | All | All |
| Operating System | Juniper | Junos | 21.4 | r2-s1 | All | All |
| Operating System | Juniper | Junos | 22.1 | r1 | All | All |
| Operating System | Juniper | Junos | 22.1 | r1-s1 | All | All |
| Operating System | Juniper | Junos | 22.1 | r2 | All | All |
| Operating System | Juniper | Junos | 22.1 | r2-s2 | All | All |
| Operating System | Juniper | Junos | 22.2 | r1 | All | All |
| Operating System | Juniper | Junos | 22.2 | r1-s1 | All | All |
| Operating System | Juniper | Junos Os Evolved | 21.3 | r1 | All | All |
| Operating System | Juniper | Junos Os Evolved | 21.3 | r1-s1 | All | All |
| Operating System | Juniper | Junos Os Evolved | 21.3 | r2 | All | All |
| Operating System | Juniper | Junos Os Evolved | 21.3 | r2-s1 | All | All |
| Operating System | Juniper | Junos Os Evolved | 21.3 | r2-s2 | All | All |
| Operating System | Juniper | Junos Os Evolved | 22.1 | r1 | All | All |
| Operating System | Juniper | Junos Os Evolved | 22.1 | r1-s1 | All | All |
| Operating System | Juniper | Junos Os Evolved | 22.2 | r1 | All | All |
| Operating System | Juniper | Junos Os Evolved | 22.2 | r1-s1 | All | All |

cpe:2.3:o:juniper:junos:21.3:-:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:21.3:r1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:21.3:r1-s1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:21.3:r1-s2:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:21.3:r2:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:21.3:r2-s1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:21.3:r2-s2:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:21.3:r3:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:21.3:r3-s1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:21.4:-:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:21.4:r1:*:*:*:*:*:*:

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cpe:2.3:o:juniper:junos_os_evolved:21.3:r2:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos_os_evolved:21.3:r2-s1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos_os_evolved:21.3:r2-s2:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos_os_evolved:22.1:r1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos_os_evolved:22.1:r1-s1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos_os_evolved:22.2:r1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos_os_evolved:22.2:r1-s1:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

## Social Mentions

| Source | Title | Posted (UTC) |
| --- | --- | --- |
| @CVEreport | CVE-2022-22219 : Due to the Improper Handling of an Unexpected Data Type in the processing of EVPN routes on Junipe… twitter.com/i/web/status/1… | 2022-10-18 02:53:54 |

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