



# CVE-2022-22196

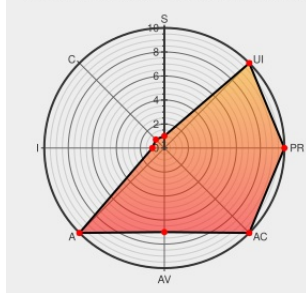
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## CVE-2022-22196 - advisory for JSA69509

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

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



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

An Improper Check for Unusual or Exceptional Conditions vulnerability in the Routing Protocol Daemon (rpd) of Juniper Networks Junos OS and Junos OS Evolved allows an adjacent, unauthenticated attacker with an established ISIS adjacency to cause a Denial of Service (DoS).

The rpd CPU spikes to 100% after a malformed ISIS TLV has been received which will lead to processing issues of routing updates and in turn traffic impact. This issue affects: Juniper Networks Junos OS 19.3 versions prior to 19.3R3-S4; 19.4 versions prior to 19.4R2-S6, 19.4R3-S6; 20.1 versions prior to 20.1R3-S2; 20.2 versions prior to 20.2R3-S3; 20.3 versions prior to 20.3R3-S1; 20.4 versions prior to 20.4R3; 21.1 versions prior to 21.1R3; 21.2 versions prior to 21.2R2. Juniper Networks Junos OS Evolved All versions prior to 20.4R3-S3-EVO; 21.2 versions prior to 21.2R2-EVO. This issue does not affect Juniper Networks Junos OS versions prior to 19.3R1.

CVE-2022-22196 has been assigned by [J sirt@juniper.net](#) to track the vulnerability - currently rated as **MEDIUM** severity.

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

### Vulnerability Patch/Work Around

There are no workarounds for this issue.

CVSS3 Score: **6.5 - MEDIUM**

| Attack Vector           | Attack Complexity      | Privileges Required | User Interaction    |
|-------------------------|------------------------|---------------------|---------------------|
| <b>ADJACENT_NETWORK</b> | <b>LOW</b>             | <b>NONE</b>         | <b>NONE</b>         |
| Scope                   | Confidentiality Impact | Integrity Impact    | Availability Impact |
| <b>UNCHANGED</b>        | <b>NONE</b>            | <b>NONE</b>         | <b>HIGH</b>         |

CVSS2 Score: **3.3 - LOW**

| Access Vector          | Access Complexity | Authentication      |
|------------------------|-------------------|---------------------|
| ADJACENT_NETWORK       | LOW               | NONE                |
| Confidentiality Impact | Integrity Impact  | Availability Impact |
| NONE                   | NONE              | PARTIAL             |

### CVE References

| Description           | Tags                                                        | Link                                                                                                                              |
|-----------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| CEC Juniper Community | <a href="#">kb.juniper.net</a><br><a href="#">text/html</a> |  <a href="#">CONFIRM kb.juniper.net/JSA69509</a> |

By selecting these links, you may be leaving CVEreport webspace. We have provided these links to other websites because they may have information that would be of interest to you. No inferences should be drawn on account of other sites being referenced, or not, from this page. There may be other websites that are more appropriate for your purpose. CVEreport does not necessarily endorse the views expressed, or concur with the facts presented on these sites. Further, CVEreport does not endorse any commercial products that may be mentioned on these sites. Please address comments about any linked pages to [comment@cve.report](mailto:comment@cve.report).

There are currently no QIDs associated with this CVE

### Known Affected Configurations (CPE V2.3)

| Type             | Vendor                  | Product               | Version | Update | Edition | Language |
|------------------|-------------------------|-----------------------|---------|--------|---------|----------|
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.3    | r1     | All     | All      |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.3    | r1-s1  | All     | All      |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.3    | r2     | All     | All      |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.3    | r2-s1  | All     | All      |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.3    | r2-s2  | All     | All      |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.3    | r2-s3  | All     | All      |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.3    | r2-s4  | All     | All      |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.3    | r2-s5  | All     | All      |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.3    | r2-s6  | All     | All      |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.3    | r3     | All     | All      |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.3    | r3-s1  | All     | All      |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.3    | r3-s2  | All     | All      |

|                  |                         |                       |      |       |     |     |
|------------------|-------------------------|-----------------------|------|-------|-----|-----|
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.3 | r3-s3 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.4 | r1    | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.4 | r1-s1 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.4 | r1-s2 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.4 | r1-s3 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.4 | r1-s4 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.4 | r2    | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.4 | r2-s1 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.4 | r2-s2 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.4 | r2-s3 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.4 | r2-s4 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.4 | r2-s5 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.4 | r3    | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.4 | r3-s1 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.4 | r3-s2 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.4 | r3-s3 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.4 | r3-s4 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 19.4 | r3-s5 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.1 | r1    | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.1 | r1-s1 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.1 | r1-s2 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.1 | r1-s3 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.1 | r1-s4 | All | All |

|                  |                         |                       |      |       |     |     |
|------------------|-------------------------|-----------------------|------|-------|-----|-----|
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.1 | r2    | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.1 | r2-s1 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.1 | r2-s2 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.1 | r3    | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.1 | r3-s1 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.2 | r1    | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.2 | r1-s1 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.2 | r1-s2 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.2 | r1-s3 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.2 | r2    | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.2 | r2-s1 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.2 | r2-s2 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.2 | r2-s3 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.2 | r3    | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.2 | r3-s1 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.2 | r3-s2 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.3 | r1    | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.3 | r1-s1 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.3 | r2    | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.3 | r2-s1 | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.3 | r3    | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.4 | r1    | All | All |
| Operating System | <a href="#">Juniper</a> | <a href="#">Junos</a> | 20.4 | r1-s1 | All | All |

|                  |         |                  |      |       |     |     |  |
|------------------|---------|------------------|------|-------|-----|-----|--|
| System           |         |                  |      |       |     |     |  |
| Operating System | Juniper | Junos            | 20.4 | r2    | All | All |  |
| Operating System | Juniper | Junos            | 20.4 | r2-s1 | All | All |  |
| Operating System | Juniper | Junos            | 20.4 | r2-s2 | All | All |  |
| Operating System | Juniper | Junos            | 21.1 | r1    | All | All |  |
| Operating System | Juniper | Junos            | 21.1 | r1-s1 | All | All |  |
| Operating System | Juniper | Junos            | 21.1 | r2    | All | All |  |
| Operating System | Juniper | Junos            | 21.1 | r2-s1 | All | All |  |
| Operating System | Juniper | Junos            | 21.1 | r2-s2 | All | All |  |
| Operating System | Juniper | Junos            | 21.2 | r1    | All | All |  |
| Operating System | Juniper | Junos            | 21.2 | r1-s1 | All | All |  |
| Operating System | Juniper | Junos            | 21.2 | r1-s2 | All | All |  |
| Operating System | Juniper | Junos Os Evolved | All  | All   | All | All |  |
| Operating System | Juniper | Junos Os Evolved | 20.4 | r1    | All | All |  |
| Operating System | Juniper | Junos Os Evolved | 20.4 | r1-s1 | All | All |  |
| Operating System | Juniper | Junos Os Evolved | 20.4 | r1-s2 | All | All |  |
| Operating System | Juniper | Junos Os Evolved | 20.4 | r2    | All | All |  |
| Operating System | Juniper | Junos Os Evolved | 20.4 | r2-s1 | All | All |  |
| Operating System | Juniper | Junos Os Evolved | 20.4 | r2-s2 | All | All |  |
| Operating System | Juniper | Junos Os Evolved | 20.4 | r2-s3 | All | All |  |
| Operating System | Juniper | Junos Os Evolved | 20.4 | r3    | All | All |  |
| Operating System | Juniper | Junos Os Evolved | 20.4 | r3-s1 | All | All |  |
| Operating System | Juniper | Junos Os Evolved | 20.4 | r3-s2 | All | All |  |
| Operating System | Juniper | Junos Os Evolved | 21.2 | r1    | All | All |  |

system

| Operating System                            | Juniper | Junos Os Evolved | 21.2 | r1-s1 | All | All |
|---------------------------------------------|---------|------------------|------|-------|-----|-----|
| 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:19.3:r2-s2::*:~::~: |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.3:r2-s3::*:~::~: |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.3:r2-s4::*:~::~: |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.3:r2-s5::*:~::~: |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.3:r2-s6::*:~::~: |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.3:r3::*:~::~:    |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.3:r3-s1::*:~::~: |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.3:r3-s2::*:~::~: |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.3:r3-s3::*:~::~: |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.4:r1::*:~::~:    |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.4:r1-s1::*:~::~: |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.4:r1-s2::*:~::~: |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.4:r1-s3::*:~::~: |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.4:r1-s4::*:~::~: |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.4:r2::*:~::~:    |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.4:r2-s1::*:~::~: |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.4:r2-s2::*:~::~: |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.4:r2-s3::*:~::~: |         |                  |      |       |     |     |
| 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::*:~::~:    |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.4:r3-s1::*:~::~: |         |                  |      |       |     |     |
| cpe:2.3:o:juniper:junos:19.4:r3-s2::*:~::~: |         |                  |      |       |     |     |

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|------------------------------------------------|
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| cpe:2.3:o:juniper:junos:19.4:r3-s3:~::~~::~~:: |
|                                                |
| cpe:2.3:o:juniper:junos:19.4:r3-s4:~::~~::~~:: |
|                                                |
| cpe:2.3:o:juniper:junos:19.4:r3-s5:~::~~::~~:: |
|                                                |
| cpe:2.3:o:juniper:junos:20.1:r1:~::~~::~~::    |
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| cpe:2.3:o:juniper:junos:20.1:r1-s1:~::~~::~~:: |
|                                                |
| cpe:2.3:o:juniper:junos:20.1:r1-s2:~::~~::~~:: |
|                                                |
| cpe:2.3:o:juniper:junos:20.1:r1-s3:~::~~::~~:: |
|                                                |
| cpe:2.3:o:juniper:junos:20.1:r1-s4:~::~~::~~:: |
|                                                |
| cpe:2.3:o:juniper:junos:20.1:r2:~::~~::~~::    |
|                                                |
| cpe:2.3:o:juniper:junos:20.1:r2-s1:~::~~::~~:: |
|                                                |
| cpe:2.3:o:juniper:junos:20.1:r2-s2:~::~~::~~:: |
|                                                |
| cpe:2.3:o:juniper:junos:20.1:r3:~::~~::~~::    |
|                                                |
| cpe:2.3:o:juniper:junos:20.1:r3-s1:~::~~::~~:: |
|                                                |
| cpe:2.3:o:juniper:junos:20.2:r1:~::~~::~~::    |
|                                                |
| cpe:2.3:o:juniper:junos:20.2:r1-s1:~::~~::~~:: |
|                                                |
| cpe:2.3:o:juniper:junos:20.2:r1-s2:~::~~::~~:: |
|                                                |
| cpe:2.3:o:juniper:junos:20.2:r1-s3:~::~~::~~:: |
|                                                |
| cpe:2.3:o:juniper:junos:20.2:r2:~::~~::~~::    |
|                                                |
| cpe:2.3:o:juniper:junos:20.2: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:20.2:r3-s1:~::~~::~~:: |
|                                                |
| cpe:2.3:o:juniper:junos:20.2:r3-s2:~::~~::~~:: |
|                                                |
| cpe:2.3:o:juniper:junos:20.3:r1:~::~~::~~::    |
|                                                |
| cpe:2.3:o:juniper:junos:20.3:r1-s1:~::~~::~~:: |
|                                                |
| 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:20.3:r3:\*.\*\*\*.\*\*\*.\*\*\*:

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:20.4:r2-s1:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos:20.4:r2-s2:\*.\*\*\*.\*\*\*.\*\*\*:

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

cpe:2.3:o:juniper:junos:21.1:r1-s1:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos:21.1:r2:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos:21.1:r2-s1:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos:21.1:r2-s2:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos:21.2:r1:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos:21.2:r1-s1:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos:21.2:r1-s2:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos\_os\_evolved:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos\_os\_evolved:20.4:r1:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos\_os\_evolved:20.4:r1-s1:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos\_os\_evolved:20.4:r1-s2:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos\_os\_evolved:20.4:r2:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos\_os\_evolved:20.4:r2-s1:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos\_os\_evolved:20.4:r2-s2:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos\_os\_evolved:20.4:r2-s3:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos\_os\_evolved:20.4:r3:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos\_os\_evolved:20.4:r3-s1:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos\_os\_evolved:20.4:r3-s2:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos\_os\_evolved:21.2:r1:\*.\*\*\*.\*\*\*.\*\*\*:

cpe:2.3:o:juniper:junos\_os\_evolved:21.2:r1-s1:\*.\*\*\*.\*\*\*.\*\*\*:

No vendor comments have been submitted for this CVE

## Social Mentions

| Source                                                                                      | Title                                                                                                                                                                                                   | Posted (UTC)           |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
|  @sidfm_jp  | Juniper Networks Junos OS の rpd の処理にサービスを妨害される問題 (CVE-2022-22196) [41843]<br><a href="https://sid.softek.jp/content/show/4...">sid.softek.jp/content/show/4...</a> #SIDfm #脆弱性情報                        | 2022-04-14<br>08:30:03 |
|  @CVEreport | CVE-2022-22196 : An Improper Check for Unusual or Exceptional Conditions vulnerability in the<br>Routing Protocol Daem... <a href="https://twitter.com/web/status/1...">twitter.com/web/status/1...</a> | 2022-04-14<br>15:58:46 |
|  /r/netcve  | <a href="#">CVE-2022-22196</a>                                                                                                                                                                          | 2022-04-14<br>16:38:51 |

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