## Product
Asterisk

### Summary
Remote crash possible when negotiating T.38

### Nature of Advisory
Denial of service

### Susceptibility
Remote authenticated sessions

### Severity
Minor

### Exploits Known
No

### Reported On
December 8, 2020

### Reported By
Gregory Massel

### Last Updated On
February 4, 2021

### Advisory Contact
kharwell AT sangoma DOT com

### CVE Name

## Description
When re-negotiating for T.38 if the initial remote response was delayed just enough Asterisk would send both audio and T.38 in the SDP. If this happened, and the remote responded with a declined T.38 stream then Asterisk would crash.

### Modules Affected
res_pjsip_session.c, res_pjsip_t38.c

### Resolution
When re-negotiating for T.38, and a delay occurs Asterisk now sends SDP only for the expected T.38 stream. A check was also put in place to ensure an active T.38 media stream is active within Asterisk when attempting to change state for fax.

## Affected Versions

<table>
<thead>
<tr>
<th>Product</th>
<th>Release Series</th>
<th>Introduced</th>
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<tbody>
<tr>
<td>Asterisk Open Source</td>
<td>16.x</td>
<td>16.15.0</td>
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<tr>
<td>Asterisk Open Source</td>
<td>17.x</td>
<td>17.9.0</td>
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<tr>
<td>Asterisk Open Source</td>
<td>18.x</td>
<td>18.1.0</td>
</tr>
<tr>
<td>Certified Asterisk</td>
<td>16.8</td>
<td>16.8-cert4</td>
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</table>
Asterisk Open Source 16.16.1, 17.9.2, 18.2.1
Certified Asterisk 16.8-cert6

Patches

<table>
<thead>
<tr>
<th>Patch URL</th>
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<tbody>
<tr>
<td><a href="https://downloads.asterisk.org/pub/security/AST-2021-002-16.diff">https://downloads.asterisk.org/pub/security/AST-2021-002-16.diff</a></td>
<td>Asterisk 16</td>
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<td><a href="https://downloads.asterisk.org/pub/security/AST-2021-002-17.diff">https://downloads.asterisk.org/pub/security/AST-2021-002-17.diff</a></td>
<td>Asterisk 17</td>
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Links

https://issues.asterisk.org/jira/browse/ASTERISK-29203
https://downloads.asterisk.org/pub/security/AST-2021-002.html

Asterisk Project Security Advisories are posted at http://www.asterisk.org/security
This document may be superseded by later versions; if so, the latest version will be posted at http://downloads.digium.com/pub/security/AST-2021-002.pdf and http://downloads.digium.com/pub/security/AST-2021-002.html

Revision History

<table>
<thead>
<tr>
<th>Date</th>
<th>Editor</th>
<th>Revisions Made</th>
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<tbody>
<tr>
<td>February 1, 2021</td>
<td>Kevin Harwell</td>
<td>Initial revision</td>
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