

## Asterisk Project Security Advisory - AST-2020-002

<b>Product</b>	Asterisk
<b>Summary</b>	Outbound INVITE loop on challenge with different nonce.
<b>Nature of Advisory</b>	Denial of Service
<b>Susceptibility</b>	Remote Authenticated Sessions
<b>Severity</b>	Minor
<b>Exploits Known</b>	Yes
<b>Reported On</b>	July 28, 2020
<b>Reported By</b>	Sebastian Damm, Ruslan Lazin
<b>Posted On</b>	November 5, 2020
<b>Last Updated On</b>	November 5, 2020
<b>Advisory Contact</b>	bford AT sangoma DOT com
<b>CVE Name</b>	

<b>Description</b>	If Asterisk is challenged on an outbound INVITE and the nonce is changed in each response, Asterisk will continually send INVITEs in a loop. This causes Asterisk to consume more and more memory since the transaction will never terminate (even if the call is hung up), ultimately leading to a restart or shutdown of Asterisk. Outbound authentication must be configured on the endpoint for this to occur.
<b>Modules Affected</b>	res_pjsip

<b>Resolution</b>	In the fixed versions of Asterisk, a counter has been added that will automatically stop sending INVITEs after reaching the limit.
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<b>Affected Versions</b>		
<b>Product</b>	<b>Release Series</b>	
Asterisk Open Source	13.x	All versions
Asterisk Open Source	16.x	All versions
Asterisk Open Source	17.x	All versions
Asterisk Open Source	18.x	All versions
Certified Asterisk	16.8	All versions

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<b>Corrected In</b>	
<b>Product</b>	<b>Release</b>
Asterisk Open Source	13.37.1
Asterisk Open Source	16.14.1
Asterisk Open Source	17.8.1
Asterisk Open Source	18.0.1
Certified Asterisk	16.8-cert5

<b>Patches</b>	
<b>SVN URL</b>	<b>Revision</b>
<a href="http://downloads.asterisk.org/pub/security/AST-2020-002-13.diff">http://downloads.asterisk.org/pub/security/AST-2020-002-13.diff</a>	Asterisk 13
<a href="http://downloads.asterisk.org/pub/security/AST-2020-002-16.diff">http://downloads.asterisk.org/pub/security/AST-2020-002-16.diff</a>	Asterisk 16
<a href="http://downloads.asterisk.org/pub/security/AST-2020-002-17.dif">http://downloads.asterisk.org/pub/security/AST-2020-002-17.dif</a>	Asterisk 17
<a href="http://downloads.asterisk.org/pub/security/AST-2020-002-18.dif">http://downloads.asterisk.org/pub/security/AST-2020-002-18.dif</a>	Asterisk 18
<a href="http://downloads.asterisk.org/pub/security/AST-2020-002-16.8.diff">http://downloads.asterisk.org/pub/security/AST-2020-002-16.8.diff</a>	Certified Asterisk 16.8-cert5

<b>Links</b>	<a href="https://issues.asterisk.org/jira/browse/ASTERISK-29013">https://issues.asterisk.org/jira/browse/ASTERISK-29013</a>
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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-2020-002.pdf> and <http://downloads.digium.com/pub/security/AST-2020-002.html>

<b>Revision History</b>		
<b>Date</b>	<b>Editor</b>	<b>Revisions Made</b>
November 5, 2020	Ben Ford	Initial Revision