Asterisk Project Security Advisory - AST-2019-003

Product	Asterisk	
Summary	Remote Crash Vulnerability in chan_sip channel driver	
Nature of Advisory	Denial of Service	
Susceptibility	Remote Unauthenticated Sessions	
Severity	Minor	
Exploits Known	No	
Reported On	June 28, 2019	
Reported By	Francesco Castellano	
Posted On	July 1, 2019	
Last Updated On	July 2, 2019	
Advisory Contact	Jcolp AT sangoma DOT com	
CVE Name	CVE-2019-13161	

Description	When T.38 faxing is done in Asterisk a T.38 reinvite may be sent to an endpoint to switch it to T.38. If the endpoint responds with an improperly formatted SDP answer including both a T.38 UDPTL stream and an audio or video stream containing only codecs not allowed on the SIP peer or user a crash will occur. The code incorrectly assumes that there will be at least one common codec when T.38 is also in the SDP answer.
	This requires Asterisk to initiate a T.38 reinvite which is only done when executing the ReceiveFax dialplan application or performing T.38 passthrough where a remote endpoint has requested T.38. For versions of Asterisk 13 before 13.21.0 and Asterisk 15 before 15.4.0 the
	"preferred_codec_only" option must also be set to "yes". If set to "no" the crash will not occur.

Resolution	If T.38 faxing is not required this functionality can be disabled by ensuring the "t38pt_udptl" is set to "no" so a T.38 reinvite is not possible.
	If T.38 faxing is required then Asterisk should be upgraded to a fixed version. The problem can also be limited in scope by enabling T.38 faxing only for endpoints which actually participate in fax.

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Affected Versions			
Product	Release Series		
Asterisk Open Source	13.x	All releases	
Asterisk Open Source	15.x	All releases	
Asterisk Open Source	16.x	All releases	
Certified Asterisk 1		All releases	

Corrected In		
Product	Release	
Asterisk Open Source	13.27.1	
Asterisk Open Source	15.7.3	
Asterisk Open Source	16.4.1	
Certified Asterisk	13.21-cert4	

Patches		
SVN URL	Revision	
http://downloads.asterisk.org/pub/security/ AST-2019-003-13.diff	Asterisk 13	
http://downloads.asterisk.org/pub/security/ AST-2019-003-15.diff	Asterisk 15	
http://downloads.asterisk.org/pub/security/ AST-2019-003-16.diff	Asterisk 16	
http://downloads.asterisk.org/pub/security/ AST-2019-003-13.21.diff	Certified Asterisk 13.21	

Links	https://issues.asterisk.org/jira/browse/ASTERISK-28465
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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-2019-003.pdf and http://downloads.digium.com/pub/security/AST-2019-003.html

Revision History

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Date	Editor	Revisions Made
July 1, 2019	Joshua Colp	Initial revision