Product	Asterisk	
Summary	Remote Crash Vulnerability in PJSIP channel driver	
Nature of Advisory	Denial of Service	
Susceptibility	Remote Unauthenticated Sessions	
Severity	Moderate	
Exploits Known	No	
Reported On	December 4, 2020	
Reported By	Mauri de Souza Meneguzzo (3CPlus)	
Posted On	February 8, 2021	
Last Updated On	February 8, 2021	
Advisory Contact	Jcolp AT sangoma DOT com	
CVE Name	CVE-2021-26906	

Description	 Given a scenario where an outgoing call is placed from Asterisk to a remote SIP server it is possible for a crash to occur. The code responsible for negotiating SDP in SIP responses incorrectly assumes that SDP negotiation will always be successful. If a SIP response containing an SDP that can not be negotiated is received a subsequent SDP negotiation on the same call can cause a crash. If the "accept_multiple_sdp_answers" option in the "system" section of pisip.conf is set to "yes" then any subsequent non-forked SIP response with SDP can trigger this crash. If the "follow_early_media_fork" option in the "system" section of pisip.conf is set to "yes" (the default) then any subsequent SIP responses with SDP from a forked destination can trigger this crash. If a 200 OK with SDP is received from a forked destination it can also trigger this crash, even if the "follow_early_media_fork" option is not set to "yes". In all cases this relies on a race condition with tight timing where the second SDP proceeding of the action of the second SDP proceeding the second seco
	negotiation occurs before termination of the call due to the initial SDP negotiation failure.
Modules Affected	res_pjsip_session.c, PJSIP

Resolution The issue has been fixed in PJSIP by changing the behavior of the

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pjmedia_sdp_neg_modify_local_offer2 function. If SDP was previously negotiated the code no longer assumes that it was successful and instead checks that SDP was negotiated.
This issue can only be resolved by upgrading to a fixed version or applying the provided patch.

Affected Versions			
Product	Release Series		
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.x	All versions	

Corrected In		
Product	Release	
Asterisk Open Source	13.38.2, 16.16.1, 17.9.2, 18.2.1	
Certified Asterisk	16.8-cert6	

Patches		
Patch URL	Revision	
https://downloads.asterisk.org/pub/ security/AST-2021-005-13.diff	Asterisk 13	
https://downloads.asterisk.org/pub/ security/AST-2021-005-16.diff	Asterisk 16	
https://downloads.asterisk.org/pub/ security/AST-2021-005-17.diff	Asterisk 17	
https://downloads.asterisk.org/pub/ security/AST-2021-005-18.diff	Asterisk 18	
https://downloads.asterisk.org/pub/ security/AST-2021-005-16.8.diff	Certified Asterisk 16.8	

Links	https://issues.asterisk.org/jira/browse/ASTERISK-29196	
	https://downloads.asterisk.org/pub/security/AST-2021-005.html	

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Revision History		
Date	Editor	Revisions Made
February 8, 2021	Joshua Colp	Initial revision