

## Asterisk Project Security Advisory - AST-2007-020

<b>Product</b>	Asterisk
<b>Summary</b>	Resource Exhaustion vulnerability in SIP channel driver
<b>Nature of Advisory</b>	Denial of Service
<b>Susceptibility</b>	Remote Unauthenticated Sessions
<b>Severity</b>	Moderate
<b>Exploits Known</b>	No
<b>Reported On</b>	August 9, 2007
<b>Reported By</b>	Jon Moldenauer (bugs.digium.com user jmoldenauer)
<b>Posted On</b>	August 21, 2007
<b>Last Updated On</b>	August 21, 2007
<b>Advisory Contact</b>	Russell Bryant < <a href="mailto:russell@digium.com">russell@digium.com</a> >
<b>CVE Name</b>	CVE-2007-4455

<b>Description</b>	<p>The handling of SIP dialog history was broken during the development of Asterisk 1.4. Regardless of whether recording SIP dialog history is turned on or off, the history is still recorded in memory. Furthermore, there is no upper limit on how many history items will be stored for a given SIP dialog.</p> <p>It is possible for an attacker to use up all of the system's memory by creating a SIP dialog that records many entires in the history and never ends. It is also worth noting for the sake of doing the math to calculate what it would take to exploit this that each SIP history entry will take up a maximum of 88 bytes.</p>
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<b>Resolution</b>	<p>The fix that has been added to chan_sip is to restore the functionality where SIP dialog history is not recorded in memory if it is not enabled. Furthermore, a maximum of 50 entires in the history will be stored for each dialog when recording history is turned on.</p> <p>The only way to avoid this problem in affected versions of Asterisk is to disable chan_sip. If chan_sip is being used, the system must be upgraded to a version that has this issue resolved.</p>
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<b>Affected Versions</b>		
<b>Product</b>	<b>Release Series</b>	
Asterisk Open Source	1.0.x	Not affected
Asterisk Open Source	1.2.x	Not affected
Asterisk Open Source	1.4.x	All versions prior to 1.4.11
Asterisk Business Edition	A.x.x	Not affected
Asterisk Business Edition	B.x.x	Not affected
AsteriskNOW	pre-release	All versions prior to beta7
Asterisk Appliance Developer Kit	0.x.x	All versions prior to 0.8.0
s800i (Asterisk Appliance)	1.0.x	All versions prior to 1.0.3

<b>Corrected In</b>	
<b>Product</b>	<b>Release</b>
Asterisk Open Source	1.4.11, available from <a href="http://downloads.digium.com/pub/telephony/asterisk">http://downloads.digium.com/pub/telephony/asterisk</a>
AsteriskNOW	Beta7, available from <a href="http://www.asterisknow.org/">http://www.asterisknow.org/</a> . Beta5 and Beta6 users can update using the system update feature in the appliance control panel.
Asterisk Appliance Developer Kit	0.8.0, available from <a href="http://downloads.digium.com/pub/telephony/aadk">http://downloads.digium.com/pub/telephony/aadk</a>
s800i (Asterisk Appliance)	1.0.3

<b>Links</b>	<a href="http://bugs.digium.com/view.php?id=10421">http://bugs.digium.com/view.php?id=10421</a> <a href="http://bugs.digium.com/view.php?id=10418">http://bugs.digium.com/view.php?id=10418</a>
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<b>Revision History</b>		
<b>Date</b>	<b>Editor</b>	<b>Revisions Made</b>
August 21, 2007	<a href="mailto:russell@digium.com">russell@digium.com</a>	Initial Release

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