

Mobile (in)Security - Bug #1480

A5/3 is not deployed in GSM networks

02/19/2016 10:51 PM - laforge

Status: New	Start date:
Priority: High	Due date:
Assignee:	% Done: 0%
Category: MS (Mobile Station)	
Target version:	
Resolution:	Spec Reference:
Description	
<p>The 3GPP has specified the Kasumi-derived A5/3 cipher for use in GSM networks. This would significantly increase the confidentiality and security of the GSM network, since it avoids the known-weak and known-broken A5/1 cipher. The passive A5/1 key-cracking attacks would no longer work.</p> <p>In order to use A5/3, both the MS and the BTS will have to implement the A5/3 cipher, and the BSC will have to configure the BTSs to actually use it.</p> <p>Many modern phones (whether 3G or not) support A5/3 operation on GSM and indicate this capability in their CLASSMARK.</p> <p>However, none of the networks we have seen are using A5/3 on GSM.</p> <p>Thus, the operators and/or equipment manufacturers are actively preventing a higher level of security and confidentiality.</p>	

History

#1 - 02/21/2016 04:34 PM - laforge

- Assignee deleted (laforge)