

OsmoMSC - Bug #1816

USSD works only when luCS is released

10/10/2016 09:30 PM - neels

Status:	Rejected	Start date:	10/10/2016
Priority:	Low	Due date:	
Assignee:	neels	% Done:	0%
Category:			
Target version:			
Resolution:		Spec Reference:	
Description			
Using the ip.access nano3g, I observe some unreliability when issuing USSD requests from the UE towards the CN:			
<ul style="list-style-type: none">• When a registered UE's luCS is in release, a USSD request succeeds very quickly: an InitialUE message with a CM Service Request "wakes up" luCS, authentication and ciphering is established, then the USSD goes through.• When the luCS is not released yet but still open, e.g. a USSD is issued right after a call or another USSD request, no message at all is received from the nano3G. The phone shows a USSD processing dialog that "hangs". I expect a Supplementary Services message to show on the luh to be forwarded to luCS, but the nano3G stays quiet. The USSD times out. Waiting for another luCS release and sending the same USSD again is then successful again.			
I assume this is a problem with the nano3G specifically. Check how the SysmoCell behaves in this scenario.			

History

#1 - 11/03/2016 01:15 PM - neels

- Priority changed from Normal to Low

Note that since reporting of this, OsmoCSCN changed its behavior to release luCS more aggressively, i.e. right away when nothing is pending for a subscriber. So in effect, this issue should "never" occur anymore.

See commit "luCS: rapidly release connections" on openbsc branch sysmocom/iu (likely to be rebased, so omitting a git hash here).

For curiosity's sake, I would still take a look at how sysmocell 5000 handles this and then just close the issue, we're not going to fix the nano3G firmware anyway.

#2 - 11/29/2016 01:32 PM - neels

- Status changed from New to Rejected

Tested with the sysmocell 5k: the same problem exists (when not aggressively releasing lu).

The first USSD request establishes luCS with auth+ciph, and a second USSD in close succession just idles around and then fails. This way I can even reach a state where no lu Release seems to happen at all, and CM Service Requests don't work either.

So, to aggressively release the lu connections from the CN is verified to be a good idea.

It is conceivable that we can mess things up by requesting USSD while the authentication is still in progress or somesuch. That would be a separate issue though.

#3 - 03/09/2017 11:32 PM - neels

- Description updated

#4 - 03/17/2017 10:20 PM - laforge

- *Project changed from 75 to OsmoMSC*