

OsmoNITB - Bug #1725

iPhone6 network selection issue with GSM1900

05/17/2016 08:07 PM - zecke

Status:	Stalled	Start date:	05/17/2016
Priority:	Low	Due date:	
Assignee:		% Done:	0%
Category:			
Target version:			
Spec Reference:			

Description

We have some form of issue with the iPhone 6S (we can use messenger to move it around). Now the iPhone is a really bad phone (manual network selection not re-scanning, selecting it not trying to access the network in a reasonable amount of time). But what I can re-produce:

- Put customer IMSI in the phone
- Wait for the network to be selected
- Enter airplane mode
- Leave airplane mode

Theory:

The LU should lead to the ARFCN be written to the SIM card. This ARFCN should be tried *after* the airplane mode (or reboot) is used. But the phone ends up in "No Service". I make my tests with with a RevA hardware and maybe slightly incorrect calibration but other phones behave a lot better.

Reality:

What happens is that after the airplane mode.. the phone does *not* select a network (It goes to Searching and then prints No Network). Toggling "Automatic" to "Manual" network seearch it sometimes starts to connect it (after many many minutes).

Stats:

```
iPhone 6s
Version 9.3.2 (14F69)
Carrier 24.0
Model MKQK2ZD/A
Modem Firmware 1.60.00
```

For reference the SIs of another small network at 1900

```
SI1 5506198f0e000000000000000000000000000000000000000000000000000000bb000006b
SI2 59061a0000000000000000000000000000000000000000000000000000000000ffbb0000
SI3 49061b9c4072f480101949030f07c346bb00008000832b
SI4 41061c72f4801019c346bb00006430021c80008b2b2b2b
SI13 <empty>
SI5 49061d1000000000000000000000000000000000000000000000000000000000
SI6 2d061e9c4072f480101997ff3b2b2b2b2b2b2b2b
```

History

#1 - 05/17/2016 08:36 PM - zecke

WWhat seems to make a difference is to enable emergency calls in the cells. This way I was able to enter airplane mode and leave it several times and get a quick re-connect.

#2 - 06/22/2016 10:12 PM - laforge

zecke wrote:

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times and get a quick re-connect.

so what do we do about this? Assume this is all that relates to the issue and close the ticket? Or do you think it is worth to investigate further?

#3 - 06/23/2016 10:24 AM - zecke

On 23 Jun 2016, at 00:12, laforge [REDMINE] <redmine@lists.osmocom.org> wrote:

Issue [#1725](#) has been updated by laforge.

zecke wrote:

WHat seems to make a difference is to enable emergency calls in the cells. This way I was able to enter airplane mode and leave it several times and get a quick re-connect.

so what do we do about this? Assume this is all that relates to the issue and close the ticket? Or do you think it is worth to investigate further?

The customer still has a ticket to "test" open. I would like to keep this one open until they did test. The main issue is that there is "state" involved.. both in the iPhone and the SIM card. This makes a/b testing a bit more involved.

#4 - 07/01/2016 01:10 PM - laforge

#5 - 07/12/2016 05:11 PM - laforge

- Assignee set to msuraev

#6 - 11/09/2016 10:11 AM - laforge

- Status changed from New to Stalled

#7 - 10/29/2017 06:51 PM - laforge

- Priority changed from Normal to Low

#8 - 01/22/2018 04:55 PM - msuraev

Should be re-tested with OsmoBSC.

#9 - 03/01/2018 11:17 PM - laforge

- Assignee deleted (msuraev)

#10 - 03/05/2018 07:35 PM - laforge

- Project changed from OpenBSC to OsmoNITB