

## OsmoPCU - Feature #3285

### design + implement tools to analyze inter-PCU cell changes

05/23/2018 10:17 AM - laforge

<b>Status:</b> New	<b>Start date:</b> 05/23/2018
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assignee:</b> laforge	<b>% Done:</b> 0%
<b>Category:</b>	
<b>Target version:</b>	
<b>Spec Reference:</b>	
<b>Description</b> Following-up from <a href="#">#3284</a> :  Maybe a good start would be some brainstorming on the kind of logging or log processing we'd have to do in order to properly analyze this.  Maybe we even should send the occasional PACKET MEASUREMENT ORDER to the MSs so we get their view on actual measurement values even in packet transfer mode?  That should allow us to plot per-MS graphs on their view of neighbor cells over a time line.	
<b>Related issues:</b> Related to OsmoPCU - Bug #3284: GPRS cell re-selection appears sticky in pack... <b>New</b> <b>05/23/2018</b>	

#### History

##### #1 - 05/23/2018 10:17 AM - laforge

- Related to Bug #3284: GPRS cell re-selection appears sticky in packet transfer / packet idle mode added

##### #2 - 05/25/2018 10:26 AM - laforge

[daniel](#): Could we create test scenarios for the NG40 RAN simulator which would simulate inter-PCU cell re-selection towards the SGSN? The idea would be to simulate a number of PS-attached MS, which then move around the network, causing the MS to move from one simulated PCU to other simulated PCUs.

The Implementation under Test (IUT) would be OsmoSGSN in this case, with OsmoHLR + OsmoGGSN in place to make it operational.

##### #3 - 08/01/2018 10:29 AM - laforge

laforge wrote:

[daniel](#): Could we create test scenarios for the NG40 RAN simulator which would simulate inter-PCU cell re-selection towards the SGSN? The idea would be to simulate a number of PS-attached MS, which then move around the network, causing the MS to move from one simulated PCU to other simulated PCUs.

[daniel](#) ping? Any news on this? Thanks!

##### #4 - 08/01/2018 11:04 AM - daniel

I think a test like [2G\_M2CN\_RAU(2G)] (and similar) should already be doing this. This test case is in callscenarios\_2g\_3g.conf on alice in the config/sysmocom-ran/ directory.

The scenario looks like this:

```
BEGIN_SCENARIO = attach -1 $area_groups[0] $atttype 0, wait tpl,
                activate 0 0, wait tpl,
LOOP_SCENARIO  = updtarea $area_groups[0] $rautype, wait tpl,
END_SCENARIO   = deactivate 0, wait tpl,
                detach 0 0
```

The update happens in updtarea and area\_groups<sup>0</sup> includes the tree cells that are configured for 2G and I believe it cycles through them. It's also possible to pass -22 in order to stay on 2G or (I think) specify the area explicitly by number.

I have added a test with the same name to our regular callscenarios.conf file there