

## OsmoPCU - Bug #1792

### 2 MS tests: Issue with TS allocation for DL in PCU

08/09/2016 10:54 AM - arvind.sirsikar

<b>Status:</b> New	<b>Start date:</b> 08/09/2016
<b>Priority:</b> High	<b>Due date:</b>
<b>Assignee:</b> pespin	<b>% Done:</b> 0%
<b>Category:</b>	
<b>Target version:</b>	
<b>Spec Reference:</b>	
<b>Description</b>	
Hi All,	
When 4 TS is configured for DL and testing 2 MSs it was found that 1st MS gets 4 TS where as next MS gets 3 TS. causing issue with DL traffic fairness between MSs.	
issue is traced to "static int find_multi_slots" function which considers both UL/DL capacity for TS calculation causing 2 TS allocation for UL and 3 for DL.	
as of now	
if (capacity <= max_capacity) condition in same function is modified to	
if (rx_window < max_dl_slots) to concentrate only on DL.	
Thanks, Aravind Sirsikar	

#### History

##### #1 - 11/09/2016 12:28 PM - arvind.sirsikar

- Status changed from New to Stalled

waiting for review feed back on Gerrit for

<https://gerrit.osmocom.org/#/c/819/>

##### #2 - 12/16/2016 10:13 AM - arvind.sirsikar

Current PCU implementation aims at supporting "many MSs with lesser resources" compared to "giving all the resources to fewer MSs".

The patch <https://gerrit.osmocom.org/#/c/819/> tries to give same (rather max) resources to all the MSs. However it is applicable only for lab testing.

Moving this patch to abandoned state as of now. This patch can be merged if necessary for lab testing.

##### #3 - 12/16/2016 11:57 AM - zecke

What would it take to scale this? We should not have a flag that makes it look good in a lab with a handful of phones while in practice we run into resource conflicts too early.

##### #4 - 08/15/2017 05:40 PM - laforge

##### #5 - 08/17/2017 06:53 AM - laforge

- Assignee changed from arvind.sirsikar to sysmocom

##### #6 - 05/08/2020 04:24 PM - pespin

- Status changed from Stalled to New

There's a test case in AllocTest showcasing this issue in function test\_2\_consecutive\_dl\_tdfs().

So once fixed the following assert should pass when checked against == 4:

```
OSMO_ASSERT (numTs2 == 3);
```

See osmo-pcu.git commit e26ee01d56b4c4c2da6abc6b649cb765d5787b98 for more information.

**#7 - 05/12/2020 11:55 AM - laforge**

- Assignee changed from sysmocom to pespin