

OsmoPCU - Bug #1833

UPLINK MCS gets reduced from MCS9->MCS6 when good radio condition exists

10/25/2016 08:49 AM - arvind.sirsikar

Status: Feedback	Start date: 10/25/2016
Priority: High	Due date:
Assignee: arvind.sirsikar	% Done: 0%
Category:	
Target version:	
Spec Reference:	
Description During EGPRS UL testing with osmo-trx setup, it is seen that MCS gets reduced very fast even when radio condition is good. Same issue is present for GPRS testing as well. This condition exists only with osmo-trx setup.	
Related issues:	
Related to OsmoPCU - Bug #3395: Uplink CS/MCS control is broken osmo-pcu is u...	Resolved 07/14/2018
Related to OsmoTRX - Bug #4373: OsmoTRX calculates relatively lower C/I value...	New 01/22/2020

History

#1 - 11/09/2016 12:20 PM - arvind.sirsikar

We have modified osmo-pcu.cfg as below

```
cs link-quality-ranges cs1 6 cs2 5 8 cs3 7 13 cs4 12
```

TO

```
cs link-quality-ranges cs1 0 cs2 0 8 cs3 0 13 cs4 0
```

and validated in integration setup. further investigation needs to be done on how measurement parameter is conveyed between TRX and PCU apart from the usual DATA-IND message

#2 - 11/09/2016 12:20 PM - arvind.sirsikar

- Status changed from New to Stalled

#3 - 08/15/2017 05:40 PM - laforge

#4 - 08/17/2017 06:41 AM - laforge

- Status changed from Stalled to New

- Assignee set to sysmocom

#5 - 10/02/2018 03:46 PM - laforge

#6 - 10/17/2018 09:42 AM - laforge

- Assignee changed from sysmocom to msuraev

#7 - 04/15/2019 07:46 AM - laforge

- Assignee changed from msuraev to lynxis

#8 - 09/26/2019 03:15 PM - pespin

IIUC this issue was expected until recently when we started providing and fixing (osmo-pcu.git e13cdc503e2faf06699aedd4e84c69ad42916755) measurement values from osmo-trx through osmo-bts-trx into osmo-pcu. [fixeria](#) what do you think?

#9 - 09/27/2019 03:45 AM - fixeria

- Status changed from New to Feedback

IIUC this issue was expected until recently when we started providing and fixing measurement values from osmo-trx through osmo-bts-trx into osmo-pcu.
fixeria what do you think?

ACK. This should not happen anymore, but we need a TTCN-3 test case to be sure.
[arvind.sirsikar](#), could you please test with the current master and update the issue? Thanks!

#10 - 09/27/2019 03:48 AM - fixeria

- Related to Bug #3395: Uplink CS/MCS control is broken osmo-pcu is used with osmo-bts-trx/osmo-trx added

#11 - 09/27/2019 04:10 AM - fixeria

BTW, Fairwaves noticed that OsmoTRX computes significantly lower C/I values for EDGE bursts (e.g. 1 dB for 8-PSK vs 8 dB for GMSK). There was a patch somewhere, I'll send it to Gerrit as soon as I find it.

#12 - 01/08/2020 10:33 PM - laforge

- Assignee deleted (lynxis)

#13 - 01/22/2020 01:59 PM - pespin

- Related to Bug #4373: OsmoTRX calculates relatively lower C/I values for EDGE/8-PSK bursts (compared to GMSK) added

#14 - 01/22/2020 02:01 PM - pespin

- Assignee set to [arvind.sirsikar](#)

We have some TTCN3 tests passing already for that, as explained in [#3395](#).
Improvements regarding C/I in osmo-trx are still WIP in [#4373](#).

[arvind.sirsikar](#) please can you test again with current master osmo-trx + osmo-bts-trx + osmo-pcu and see if you still see any issues?