OsmoPCU - Feature #1536

Implement adaptive CS selection

02/22/2016 09:14 PM - zecke

Status:	New	**Start date:**	02/22/2016
Priority:	Low	**Due date:**	
Assignee:	sysmocom	**% Done:**	0%
Category:			
Target version:			
Spec Reference:			

Description

To provide GPRS with a lower quality radio link while providing a higher throughput when the conditions are good, the CS level should be controlled dynamically.

The following topics are affected:

- Initial CS selection. Currently this is done by configuration. It could also be done by using measurement values provided by the DSP (RSSI and TA) or the MS (C_VALUE, RXQUAL, ...)
- Monitoring ACK/NACK for a DL TBF to adjust the encoding (DL)
- Monitoring packet errors for an UL TBF (poll timeout?)
- Configuration of maximum CS values (UL and DL separately)
- Handle stalls due to enqueued DL RLC/MAC blocks with a CS level that is too high to be received correctly by the MS (TBF termination?)
- Configuration of adaptation parameters
- VTY command to dump per-MS information (overview + detail)

Related issues:

Related to OsmoBTS - Bug #1616: osmo-bts-trx / osmo-bts-octphy doesn't provid...	**Resolved**	**02/23/2016**
Related to OsmoPCU - Feature #1543: link/rate adaption as per spec	**New**	**02/23/2016**

History

#1 - 02/22/2016 09:14 PM - zecke

From Jacob:

Another related topic:

- Honour the CS flags passed in SI from the BSC to limit the selection of the CS

#2 - 02/22/2016 09:32 PM - zecke

- Priority changed from Normal to Low

#3 - 07/27/2016 11:51 AM - laforge

- Related to Bug #1616: osmo-bts-trx / osmo-bts-octphy doesn't provide C/I information to PCU added

#4 - 07/28/2016 02:39 PM - msuraev

- Related to Feature #1543: link/rate adaption as per spec added

#5 - 03/01/2018 11:16 PM - laforge

- Assignee deleted (msuraev)

#6 - 03/03/2018 09:45 PM - laforge

- Assignee set to sysmocom