

OsmoBSC - Bug #3002

HO2: handover decision for dynamic timeslots

02/26/2018 12:05 AM - neels

Status: New	Start date: 02/26/2018
Priority: Normal	Due date:
Assignee: neels	% Done: 0%
Category: Handover	
Target version:	
Spec Reference:	
Description	
The recent handover_decision_2.c hasn't been duly tested in the presence of dynamic timeslots. Particularly TCH/F_TCH/H_PDCH timeslots are potentially both TCH/F or TCH/H, which might require another spin on the handover_decision_2.c code.	
Related issues:	
Related to OsmoBSC - Feature #1606: hand-over for load distribution among BTSs	In Progress 02/23/2016
Related to OsmoBSC - Feature #1608: various handover improvements, meta-issue	Rejected 02/23/2016
Blocked by Cellular Network Infrastructure - Bug #2963: Measurement Reports c...	Resolved 02/19/2018

History

#1 - 02/26/2018 12:05 AM - neels

- Blocked by Bug #2963: Measurement Reports cease to be useful some time into a voice call / after handover (not sure which project has the bug / bugs yet) added

#2 - 02/26/2018 12:06 AM - neels

(need to get useful measurement reports to be able to test this properly, hence blocked-by [#2963](#))

#3 - 02/26/2018 12:07 AM - neels

- Related to Feature #1606: hand-over for load distribution among BTSs added

#4 - 04/04/2018 09:53 AM - laforge

- Assignee set to neels

#5 - 05/25/2018 01:38 PM - neels

Aspects to consider:

It is beneficial if PDCH are in consecutive timeslots.

- If dynamic timeslots are in use, it makes sense to trigger re-assignment to move them as far away from dedicated PDCH as possible.
- If a dedicated TCH timeslot becomes available, it makes sense to re-assign away from a dyn TS towards a dedicated timeslot.

An unused dynamic timeslot may count as both 1 free TCH/F and 2 free TCH/H. If one TCH/H becomes used, this implicitly also reduces the number of free TCH/F. The lchan picking algorithm must not get confused by that.

A dynamic timeslot being available as PDCH is beneficial to GPRS service. So, if a neighboring cell is unloaded and has good rxlev, we may want to handover away from dynamic timeslots to make room for PDCH. rxlev vs PDCH tradeoff should be configurable.

#6 - 05/25/2018 01:39 PM - neels

- Related to Feature #1608: various handover improvements, meta-issue added

#7 - 10/16/2018 01:15 PM - neels

- Category set to Handover