

OsmoBSC - Bug #3099

dynamic timeslots not tested by BSC_Tests.ttcn

03/22/2018 09:15 PM - laforge

Status: Resolved	Start date: 03/22/2018
Priority: Normal	Due date:
Assignee: laforge	% Done: 100%
Category:	
Target version:	
Spec Reference:	
Description we should have some test cases that test the various scenarios of dynamic timeslots (both IPA style and Osmocom style).	
Related issues:	
Related to OsmoBTS - Bug #1853: validate dynamic TCH/PDCH support in osmo-bts...	Resolved 11/18/2016
Related to OsmoBTS - Bug #3131: dynamic timeslots not tested by BTS_Tests.ttcn	Resolved 04/04/2018
Related to OsmoBTS - Feature #1902: unify/refactor dynamic timeslot code	New 01/05/2017
Related to OsmoBSC - Bug #1841: Dynamic PDCH / TCH switching assumes RSL link...	Resolved 11/16/2016

History

#1 - 04/04/2018 08:42 AM - laforge

- Related to Bug #1853: validate dynamic TCH/PDCH support in osmo-bts-trx added

#2 - 04/04/2018 09:49 AM - laforge

- Related to Bug #3131: dynamic timeslots not tested by BTS_Tests.ttcn added

#3 - 04/04/2018 09:54 AM - laforge

- Related to Feature #1902: unify/refactor dynamic timeslot code added

#4 - 04/04/2018 09:55 AM - laforge

- Related to Bug #1841: Dynamic PDCH / TCH switching assumes RSL link is up added

#5 - 04/06/2018 05:01 PM - laforge

- Status changed from New to In Progress

- Assignee changed from sysmocom to laforge

- % Done changed from 0 to 20

#6 - 04/07/2018 09:40 AM - laforge

This is relatively difficult without infrastructural changes in RSL_Emulation.ttcn.

The reason is that, as soon as any TS is a dynamic PDCH, the BSC will send the PDCH activation command immediately upon RSL start-up. At this point, the related chan_nr is not yet (and cannot possibly be) registered with RSL_Emulation, and hence RSL_Emulation fails to dispatch it to the respective ConnHdr.

Possible options are:

- suspend processing incoming RSL messages at RSL connection time until the testcase actively enables it, basically delaying the processing of the PDCH ACT messages until we've had a chance to register ConnHdrs
- implement DYN PDCH tests without RSL_Emulation, instead directly on top of a RSL_CodecPort
- handle PDCH activation inside RSL_Emulation, similar to how we handle RSL_CHAN_ACT, keeping the state about the activation somewhere and permitting this state to be accessed via a procedure port.
 - this has the disadvantage that we cannot easily simulate failure scenarios without modifying RSL_Emulation :(

#7 - 04/07/2018 05:29 PM - laforge

- % Done changed from 20 to 80

Initial 4 testcases in <https://gerrit.osmocom.org/7664>

I chose the option to "go without RSL_Emulation" and use RSL_CodecPort directly.

#8 - 04/07/2018 05:30 PM - laforge

- *Status changed from In Progress to Resolved*

- *% Done changed from 80 to 100*

patch merged