

## OsmoBTS - Feature #3750

### Extension of BTS\_Tests.ttcn test coverage

01/08/2019 07:58 PM - laforge

<b>Status:</b>	In Progress	<b>Start date:</b>	01/08/2019
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Hoernchen	<b>% Done:</b>	60%
<b>Category:</b>			
<b>Target version:</b>			
<b>Spec Reference:</b>			
<b>Description</b>			
Extension of the BTS Tests.ttcn test suite as well as its dependencies to extend the test coverage to cover the following scenarios, for which currently no automatic test coverage exists			
<b>Related issues:</b>			
Related to OsmoBTS - Bug #4008: Channel Activation starts SACCH too early in ...		<b>New</b>	<b>05/19/2019</b>
Related to OsmoBTS - Bug #4009: Channel Activation starts SACCH too early in ...		<b>New</b>	<b>05/19/2019</b>
Related to OsmoBTS - Bug #4011: BTS_Tests.ttcn coverage for SMSB/CBCH		<b>Resolved</b>	<b>05/19/2019</b>
Related to OsmoBTS - Bug #1622: OsmoBTS power control incompliant to TS 05.08...		<b>New</b>	<b>02/23/2016</b>
Related to OsmoBTS - Bug #4023: Missing coverage of PCU interface in osmo-bts		<b>In Progress</b>	<b>05/24/2019</b>
Related to OsmoBTS - Bug #4031: OML part of BTS has no TTCN-3 tests		<b>New</b>	<b>05/29/2019</b>
Related to libosmocore - Bug #4035: LAPDm implementation truncates L3 message...		<b>Resolved</b>	<b>06/01/2019</b>

### History

#### #1 - 01/14/2019 03:27 PM - laforge

- Assignee set to sysmocom

#### #2 - 05/09/2019 09:50 PM - laforge

- Priority changed from Normal to Urgent

#### #3 - 05/19/2019 12:53 PM - laforge

- Checklist item [x] Error handling, such as discriminator error, type error, sequence error, duplicated IE set to Done

Tests related to error handling have been submitted in <https://gerrit.osmocom.org/#/c/osmo-ttcn3-hacks/+/14086/> which triggered osmo-bts bug-fixes in <https://gerrit.osmocom.org/#/c/osmo-bts/+/14083/>, <https://gerrit.osmocom.org/#/c/osmo-bts/+/14084/> and <https://gerrit.osmocom.org/#/c/osmo-bts/+/14085/>

Meanwhile, a related wireshark dissector bug has been discovered: [https://bugs.wireshark.org/bugzilla/show\\_bug.cgi?id=15789](https://bugs.wireshark.org/bugzilla/show_bug.cgi?id=15789)

#### #4 - 05/19/2019 12:53 PM - laforge

- Status changed from New to In Progress

- % Done changed from 0 to 10

#### #5 - 05/19/2019 06:42 PM - laforge

- Checklist item [x] SACCH INFO as part of RSL CHAN ACT added

<https://gerrit.osmocom.org/#/c/osmo-ttcn3-hacks/+/14089/> for SACH INFO as part of RSL CHAN ACT. Testcase immediately found an error in osmo-bts which is fixed in <https://gerrit.osmocom.org/#/c/osmo-bts/+/14087/>

#### #6 - 05/19/2019 08:50 PM - laforge

- Related to Bug #4008: Channel Activation starts SACCH too early in Asynchronous Handover added

#### #7 - 05/19/2019 08:50 PM - laforge

- Related to Bug #4009: Channel Activation starts SACCH too early in Synchronous Handover added

**#8 - 05/19/2019 08:51 PM - laforge**

- Checklist item [ ] SACCH transmission rules in the context of special CHAN ACT (HO) added

Issues [#4008](#) + [#4009](#) were just uncovered by adding tests for the SACCH transmission rules in case of HO related CHAN ACT.

**#9 - 05/19/2019 09:33 PM - laforge**

- Related to Bug [#4011](#): BTS\_Tests.ttcn coverage for SMSCB/CBCH added

**#10 - 05/19/2019 10:18 PM - laforge**

- Checklist item [x] SACCH transmission rules in the context of special CHAN ACT (HO) set to Done

- % Done changed from 10 to 20

tests for SACCH related transmission rules on hand-over related channel activation in <https://gerrit.osmocom.org/#/c/osmo-ttcn3-hacks/+14094>

**#11 - 05/21/2019 04:23 PM - laforge**

- Checklist item [x] Cell broadcast channel ("CBCH") LOAD INDICATION set to Done

**#12 - 05/22/2019 02:28 PM - laforge**

- Related to Bug [#1622](#): OsmoBTS power control incompliant to TS 05.08 and TS 08.58 added

**#13 - 05/24/2019 05:12 PM - Hoernchen**

- Checklist item [x] RSL channel activation with timing advance from initial activation onwards. set to Done

**#14 - 05/24/2019 07:27 PM - laforge**

- Checklist item [x] Common control channel ("CCCH") LOAD INDICATION for random access channel ("RACH") set to Done

- % Done changed from 20 to 50

<https://gerrit.osmocom.org/#/c/osmo-ttcn3-hacks/+14169> contains tests for RACH load indications. There were several fixes required in osmo-bts in order to make it pass: <https://gerrit.osmocom.org/14158>, <https://gerrit.osmocom.org/#/c/osmo-bts/+14159/> and <https://gerrit.osmocom.org/#/c/osmo-bts/+14160/>

The initial TA from RSL CHAN ACT has been implemented by @Hoernchen in <https://gerrit.osmocom.org/#/c/osmo-ttcn3-hacks/+14151/>

**#15 - 05/24/2019 08:42 PM - laforge**

- Related to Bug [#4023](#): Missing coverage of PCU interface in osmo-bts added

**#16 - 05/24/2019 08:47 PM - laforge**

- Checklist item deleted (TIME\_IND from BTS → PCU)

Checklist item deleted (DATA\_IND from BTS → PCU)

Checklist item deleted (PCU-originated DATA\_REQ arrival on Um/MS side)

moving PCU related checklist items to [#4023](#)

**#17 - 05/28/2019 11:04 AM - Hoernchen**

- Checklist item [x] RSL MODE MODIFY with encryption parameter IE and/or multirate configuration IE. set to Done

Checklist item [x] RSL DEACTIVATE slow associated control channel ("SACCH") set to Done

**#18 - 05/29/2019 02:16 PM - laforge**

- Related to Bug [#4031](#): OML part of BTS has no TTCN-3 tests added

**#19 - 06/01/2019 09:44 AM - laforge**

- Related to Bug [#4035](#): LAPDm implementation truncates L3 messages at 200 bytes added

**#20 - 06/11/2019 02:07 PM - laforge**

- Checklist item [x] Handover Detection set to Done

- % Done changed from 50 to 70

handover detection has been implemented in

**#21 - 06/12/2019 05:13 PM - Hoernchen**

- Checklist item [x] Mobile station ("MS") Power Control set to Done
- % Done changed from 70 to 60

**#22 - 06/13/2019 03:41 PM - laforge**

- Assignee changed from sysmocom to Hoernchen
- Priority changed from Urgent to Normal