

## OsmoBTS - Bug #1950

### LC15: BTS does not send L2 fill frame

02/13/2017 03:36 PM - mqng2

<b>Status:</b>	In Progress	<b>Start date:</b>	02/13/2017
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>	stsp	<b>% Done:</b>	0%
<b>Category:</b>	osmo-bts-litecell15	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Spec Reference:</b>			

#### Description

We have noticed that the LC15 BTS does not send L2 fill frame in case there is nothing to transmit. This leads to bad RXQUAL reported by MS during signaling in TCH channel. Please refer to GSM 05.08, section 8.3

"On any TCH this subset of TDMA frames is always used for transmission during DTX. For speech, when no signalling or speech is to be transmitted these TDMA frames are occupied by the SID (Silence Descriptor) speech frame, see TS GSM 06.12 and TSM GSM 06.31 for detailed specification of the SID frame and its transmission requirements. In other cases when no information is required to be transmitted, e.g. on data channels, the L2 fill frame (see GSM 04.06 section 5.4.2.3) shall be transmitted as a FACCH in the TDMA frame subset always to be transmitted.

On the SDCCH and on the half rate speech traffic channel in signalling only mode DTX is not allowed. In these cases and during signalling on the TCH when DTX is not used, the same L2 fill frame shall be transmitted in case there is nothing else to transmit."

#### History

##### #1 - 01/04/2018 10:52 AM - laforge

Hi Minh, what is the status of this bug report from almost one year ago? Can you please update us? Thanks!

##### #2 - 01/08/2018 02:38 PM - mqng2

laforge wrote:

Hi Minh, what is the status of this bug report from almost one year ago? Can you please update us? Thanks!

Hi Harald,

This bug was fixed in our public repository in the following commit

[https://gitlab.com/nrw\\_noa/osmo-bts/commit/b32834b0e89ee987ff00e38041bd5683eeea3cefd](https://gitlab.com/nrw_noa/osmo-bts/commit/b32834b0e89ee987ff00e38041bd5683eeea3cefd)

I forgot to submit it to gerrit at that time. Do you want to submit it to gerrit?

**#3 - 01/09/2018 07:16 PM - laforge**

Hi Minh,

On Mon, Jan 08, 2018 at 02:38:21PM +0000, mqng2 [REDMINE] wrote:

This bug was fixed in our public repository in the following commit

[https://gitlab.com/nrw\\_noa/osmo-bts/commit/b32834b0e89ee987ff00e38041bd5683eea3cefd](https://gitlab.com/nrw_noa/osmo-bts/commit/b32834b0e89ee987ff00e38041bd5683eea3cefd)

I forgot to submit it to gerrit at that time. Do you want to submit it to gerrit?

It would be great if we could all work together, including Nutaq / Nuran making sure that bug fixes are submitted to upstream osmocom. It is a collaborative software development project, which only works if people actually collaborate smile.png

Thanks a lot, it is appreciated.

**#4 - 01/11/2018 02:51 PM - mqng2**

Hi Harald,

The patch has been submitted to gerrit <https://gerrit.osmocom.org/#/c/5753>

**#5 - 01/11/2018 03:50 PM - laforge**

On Thu, Jan 11, 2018 at 02:51:44PM +0000, mqng2 [REDMINE] wrote:

The patch has been submitted to gerrit <https://gerrit.osmocom.org/#/c/5753>

Thanks!

**#6 - 01/11/2018 05:08 PM - laforge**

- Assignee set to stsp

**#7 - 02/16/2018 01:15 PM - stsp**

- Status changed from New to In Progress

Setting status to in-progress since this is being worked on.

It looks like this issue is currently waiting for an updated patch from Minh-Quang Nguyen at <https://gerrit.osmocom.org/#/c/5753>

**#8 - 03/12/2018 06:00 PM - stsp**

Vadim Yanitskiy has updated Minh-Quang Nguyen's patch. The patch is now waiting for another round of review and testing.

**#9 - 03/12/2018 07:36 PM - fixeria**

Vadim Yanitskiy has updated Minh-Quang Nguyen's patch.

Just had some spare time, and decided to move this work forward.  
I am not familiar with this part of specifications, so only  
cosmetic / code style changes were made.