

## OsmoBTS - Bug #3706

### osmo-bts-trx: PDCH DEACT ACK is sent before receiving response from TRX

11/23/2018 05:00 PM - pespin

<b>Status:</b>	Resolved	<b>Start date:</b>	11/23/2018
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	pespin	<b>% Done:</b>	100%
<b>Category:</b>	dynamic PDCH		
<b>Target version:</b>			
<b>Spec Reference:</b>			
<b>Description</b>			
From osmo-gsm-tester test, after using GPRS we want to place a call, so PDCH is deactivated in favour of TCH/F:			
<pre>20181123044720655 DRLL &lt;0002&gt; rsl.c:2523 (bts=0,trx=0,ts=0,ss=0) Rx RLL DATA_REQ Abis -&gt; LAPDm 20181123044720700 DRSL &lt;0000&gt; rsl.c:2805 (bts=0,trx=0,ts=6,pchan=TCH/F_PDCH as PDCH) ss=0 Rx RSL I PAC_PDCH_DEACT 20181123044720700 DRSL &lt;0000&gt; rsl.c:2205 (bts=0,trx=0,ts=6,pchan=TCH/F_PDCH as PDCH) Request to PD CH DEACT, but lchan is still active 20181123044720700 DRSL &lt;0000&gt; rsl.c:2131 (bts=0,trx=0,ts=6,ss=0) Tx PDCH DEACT NACK (cause = 0x0f) &lt;----- // EXTRA NACK SHOULD BE GONE WITH https://gerrit.osmocom.org/#/c/osmo-bts/+/11904/ 20181123044720700 DPCU &lt;0009&gt; pcu_sock.c:124 Sending info 20181123044720700 DPCU &lt;0009&gt; pcu_sock.c:139 BTS is up 20181123044720700 DPCU &lt;0009&gt; pcu_sock.c:232 trx=0 ts=7: available (tsc=7 arfcn=868) 20181123044720703 DPCU &lt;0009&gt; pcu_sock.c:608 Deactivate request received: TRX=0 TX=6 20181123044720703 DL1C &lt;0006&gt; llsap.c:1519 deactivating channel chan_nr=TCH/F on TS6 trx=0 20181123044720703 DTRX &lt;000b&gt; trx_if.c:242 Enqueuing TRX control command 'CMD NOHANDOVER 6 0' 20181123044720703 DL1C &lt;0006&gt; llsap.c:648 deactivate confirm chan_nr=TCH/F on TS6 trx=0 20181123044720703 DRSL &lt;0000&gt; rsl.c:714 (bts=0,trx=0,ts=6,ss=0) not sending REL ACK 20181123044720703 DRSL &lt;0000&gt; rsl.c:2264 (bts=0,trx=0,ts=6,ss=0) PDCH DEACT operation: channel dis connected, will reconnect as TCH 20181123044720703 DL1C &lt;0006&gt; scheduler.c:593 Configuring multiframe with TCH/F+SACCH trx=0 ts=6 20181123044720703 DTRX &lt;000b&gt; trx_if.c:242 Enqueuing TRX control command 'CMD SETSLOT 6 1' &lt;----- HERE WE ASK TRX TO CONFIGURE TS 6 AS TCH/F 20181123044720703 DL1C &lt;0006&gt; ll_if.c:780 (bts=0,trx=0,ts=6) bts_model_ts_connect(as_pchan=TCH/F) success, calling cb_ts_connected() &lt;---- HER WE CONFIRM UPPER LAYERS WITHOUT WAITING FOR ACK FR OM TRX 20181123044720703 DRSL &lt;0000&gt; rsl.c:2339 (bts=0,trx=0,ts=6,ss=0) PDCH DEACT operation: timeslot co nected as TCH/F 20181123044720703 DRSL &lt;0000&gt; rsl.c:2440 (bts=0,trx=0,ts=6,ss=0) TCH/F_PDCH switched to TCH/F mode (ts-&gt;flags == 0) 20181123044720703 DRSL &lt;0000&gt; rsl.c:2103 (bts=0,trx=0,ts=6,ss=0) Tx PDCH DEACT ACK &lt;---- HERE BTS-TRX CONFIRMS EVERYTHING WENT FINE TO BSC.... BEFORE HAV ING CONFIRMATION FROM TRX 20181123044720704 DTRX &lt;000b&gt; trx_if.c:492 Response message: 'RSP NOHANDOVER 0 6' 20181123044720705 DTRX &lt;000b&gt; trx_if.c:492 Response message: 'RSP SETSLOT 0 6 1' &lt;---- FINALLY CONFIRMATION ARRIVED, WE DON'T CARE NOWADAYS</pre>			
Since recently, we can parse and submit RSP from TRX CTRL IF to upper layers in osmo-bts-trx (see <code>trx_ctrl_rx_rsp</code> ). Let's use this to wait to send the PDCH DEACT ACK once we have an answer from TRX that chan was set up correctly.			
<b>Related issues:</b>			
Related to OsmoBSC - Bug #3708: osmo-bsc: Wrong handling of PDCH DEACT NACK		<b>Feedback</b>	<b>11/26/2018</b>

## History

#1 - 11/23/2018 05:01 PM - pespin

- File 0001-WIP.patch added

WIP patch for this fix can be found in osmo-bts-trx branch "pespin/pdch-deact-ack-trx".

I attach here patch in case it's lost.

**#2 - 11/26/2018 04:40 PM - pespin**

- Status changed from New to Feedback

- % Done changed from 0 to 90

Patch submitted here: <https://gerrit.osmocom.org/#/c/osmo-bts/+11932/>

**#3 - 11/26/2018 06:35 PM - pespin**

- Related to Bug #3708: osmo-bsc: Wrong handling of PDCH DEACT NACK added

**#4 - 12/05/2018 04:20 PM - pespin**

- Status changed from Feedback to Resolved

- % Done changed from 90 to 100

Merged, closing.

**Files**

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0001-WIP.patch	9.39 KB	11/23/2018	pespin
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