

OsmoBTS - Bug #3706

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

11/23/2018 05:00 PM - pespin

Status:	Resolved	Start date:	11/23/2018
Priority:	Normal	Due date:	
Assignee:	pespin	% Done:	100%
Category:	dynamic PDCH		
Target version:			
Spec Reference:			

Description

From osmo-gsm-tester test, after using GPRS we want to place a call, so PDCH is deactivated in favour of TCH/F:

```
20181123044720655 DRLL <0002> rsl.c:2523 (bts=0,trx=0,ts=0,ss=0) Rx RLL DATA_REQ Abis -> LAPDm
20181123044720700 DRSL <0000> 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 <0000> 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 <0000> rsl.c:2131 (bts=0,trx=0,ts=6,ss=0) Tx PDCH DEACT NACK (cause = 0x0f)
<----- // EXTRA NACK SHOULD BE GONE WITH https://gerrit.osmocom.org/#/c/osmo-bts/+/11904/
20181123044720700 DPCU <0009> pcu_sock.c:124 Sending info
20181123044720700 DPCU <0009> pcu_sock.c:139 BTS is up
20181123044720700 DPCU <0009> pcu_sock.c:232 trx=0 ts=7: available (tsc=7 arfcn=868)
20181123044720703 DPCU <0009> pcu_sock.c:608 Deactivate request received: TRX=0 TX=6
20181123044720703 DL1C <0006> llsap.c:1519 deactivating channel chan_nr=TCH/F on TS6 trx=0
20181123044720703 DTRX <000b> trx_if.c:242 Enqueuing TRX control command 'CMD NOHANDOVER 6 0'
20181123044720703 DL1C <0006> llsap.c:648 deactivate confirm chan_nr=TCH/F on TS6 trx=0
20181123044720703 DRSL <0000> rsl.c:714 (bts=0,trx=0,ts=6,ss=0) not sending REL ACK
20181123044720703 DRSL <0000> rsl.c:2264 (bts=0,trx=0,ts=6,ss=0) PDCH DEACT operation: channel dis
connected, will reconnect as TCH
20181123044720703 DL1C <0006> scheduler.c:593 Configuring multiframe with TCH/F+SACCH trx=0 ts=6
20181123044720703 DTRX <000b> trx_if.c:242 Enqueuing TRX control command 'CMD SETSLOT 6 1'
<----- HERE WE ASK TRX TO CONFIGURE TS 6 AS TCH/F
20181123044720703 DL1C <0006> ll_if.c:780 (bts=0,trx=0,ts=6) bts_model_ts_connect(as_pchan=TCH/F)
success, calling cb_ts_connected() <---- HER WE CONFIRM UPPER LAYERS WITHOUT WAITING FOR ACK FR
OM TRX
20181123044720703 DRSL <0000> rsl.c:2339 (bts=0,trx=0,ts=6,ss=0) PDCH DEACT operation: timeslot co
nected as TCH/F
20181123044720703 DRSL <0000> rsl.c:2440 (bts=0,trx=0,ts=6,ss=0) TCH/F_PDCH switched to TCH/F mode
(ts->flags == 0)
20181123044720703 DRSL <0000> rsl.c:2103 (bts=0,trx=0,ts=6,ss=0) Tx PDCH DEACT ACK
<---- HERE BTS-TRX CONFIRMS EVERYTHING WENT FINE TO BSC.... BEFORE HAV
ING CONFIRMATION FROM TRX
20181123044720704 DTRX <000b> trx_if.c:492 Response message: 'RSP NOHANDOVER 0 6'
20181123044720705 DTRX <000b> trx_if.c:492 Response message: 'RSP SETSLOT 0 6 1'
<---- FINALLY CONFIRMATION ARRIVED, WE DON'T CARE NOWADAYS
```

Since recently, we can parse and submit RSP from TRX CTRL IF to upper layers in osmo-bts-trx (see `trx_ctrl_rx_rsp`). 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.

Related issues:

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

[Feedback](#)

11/26/2018

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

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