

OsmoBTS - Feature #3906

Automatically adjust LAPDm timer values with 'fn-advance' parameter

04/06/2019 06:19 PM - fixeria

| | |
|--|-----------------------------------|
| Status: Resolved | Start date: 04/06/2019 |
| Priority: High | Due date: |
| Assignee: laforge | % Done: 100% |
| Category: osmo-bts-trx | |
| Target version: | |
| Spec Reference: | |
| Description | |
| <p>Currently we use fn-advance=20 by default, so the burst scheduler is working 20 TDMA frames in advance. This advance gives the transceiver some time to receive a burst, process it (i.e. modulate), and send to the Tx buffer of SDR. As a side effect, this increases the delay between UL and DL: 20 TDMA frames => 92.3ms of delay.</p> <p>Higher fn-advance values cause a longer delay, resulting in LAPDm frame retransmissions. OsmoBTS should automatically adjust LAPDm timer values with the configured 'fn-advance' value.</p> | |
| Related issues: | |
| Related to OsmoBTS - Bug #3506: FACCH LAPDm sequence error (state LAPD_STATE... | New 08/28/2018 |
| Related to OsmoBTS - Bug #2294: T200 values set by OML (TS 12.21) are ignored | Resolved 05/27/2017 |
| Related to OsmoBTS - Bug #4037: LAPDm N200 values are incorrect | Resolved 06/02/2019 |

History

#1 - 04/06/2019 06:19 PM - fixeria

- Related to Bug #3506: FACCH LAPDm sequence error (state LAPD_STATE_MF_EST) added

#2 - 06/02/2019 03:24 PM - laforge

- Related to Bug #2294: T200 values set by OML (TS 12.21) are ignored added

#3 - 06/02/2019 03:24 PM - laforge

- Assignee set to laforge
- Priority changed from Normal to High

#4 - 06/02/2019 08:03 PM - laforge

- Related to Bug #4037: LAPDm N200 values are incorrect added

#5 - 06/04/2019 03:35 PM - laforge

- Status changed from New to In Progress
- % Done changed from 0 to 80

See <https://gerrit.osmocom.org/c/osmo-bts/+/14337> for a proposed implementation.

#6 - 06/13/2019 03:39 PM - laforge

- Status changed from In Progress to Resolved
- % Done changed from 80 to 100

patch merged__