I am running a multi-trx setup. When I stop osmo-bts, I see dozens of messages like:

DCHAN ERROR lchan_fsm.c:1750 lchan(0-1-0-TCH_F-0)[0x55bf28f457e0]{UNUSED}: (type=NONE) lchan allocation failed in state UNUSED: LCHAN_EV_TS_ERROR
DCHAN ERROR lchan_fsm.c:195 lchan(0-1-0-TCH_F-0)[0x55bf28f457e0]{UNUSED}: (type=NONE) lchan activation failed (lchan allocation failed in state UNUSED: LCHAN_EV_TS_ERROR)
DCHAN ERROR lchan_fsm.c:1750 lchan(0-1-0-TCH_F-1)[0x55bf28f45910]{UNUSED}: (type=NONE) lchan allocation failed in state UNUSED: LCHAN_EV_TS_ERROR
DCHAN ERROR lchan_fsm.c:195 lchan(0-1-0-TCH_F-1)[0x55bf28f45910]{UNUSED}: (type=NONE) lchan activation failed (lchan allocation failed in state UNUSED: LCHAN_EV_TS_ERROR)
DCHAN ERROR lchan_fsm.c:1750 lchan(0-1-0-TCH_F-2)[0x55bf28f45ad0]{UNUSED}: (type=NONE) lchan allocation failed in state UNUSED: LCHAN_EV_TS_ERROR
DCHAN ERROR lchan_fsm.c:195 lchan(0-1-0-TCH_F-2)[0x55bf28f45ad0]{UNUSED}: (type=NONE) lchan activation failed (lchan allocation failed in state UNUSED: LCHAN_EV_TS_ERROR)

This does not happen when only one transceiver is configured.

Associated revisions
Revision ef919cb8 - 03/09/2022 08:30 AM - fixeria
fix inp_sig_cb(): dispatch TS_EV_OML_DOWN to all transceivers

When running a multi-trx setup, upon stopping osmo-bts one can see:

DCHAN ERROR lchan_fsm.c:80 lchan(0-1-7-TCH_F-0)[0x612000010120]{UNUSED}: (type=NONE) lchan allocation failed in state UNUSED: LCHAN_EV_TS_ERROR
DCHAN ERROR lchan_fsm.c:144 lchan(0-1-7-TCH_F-0)[0x612000010120]{UNUSED}: (type=NONE) lchan activation failed
(lchan allocation failed in state UNUSED: LCHAN_EV_TS_ERROR)

These messages show up when the following conditions are met:

- BTS model speaks A-bis over IP (ip.access, e.g. nanoBTS), and
- BTS has more than one transceiver configured.

The problem is that unlike traditional E1 based BTS models, ip.access ones have a single global A-bis/OML link for all transceivers. Thus when it goes down, in inp_sig_cb() we need to notify all timeslots of all TRXes, not just TRX0.

Change-Id: I3dc657ac5a2c5334747bd491a658acb323942
Fixes: OS#5479

History
#1 - 03/06/2022 03:38 PM - fixeria
I already faced this problem back in 2019, and even tried to fix it:

https://gerrit.osmocom.org/c/osmo-bsc/+/16352 fix inp_sig_cb(): notify all timeslots of all TRXes on OML S_L_INP_TEI_DN

This patch is still Work-In-Progress and needs to be rebased/reworked.
The patch has been reworked and waiting for review in Gerrit now.

#3 - 03/09/2022 08:31 AM - fixeria
- Status changed from Feedback to Resolved

Applied in changeset osmo-bscief919cb8c18686ac217f3f5f05a83c0cf5454558.