OsmoMSC - Feature #3236

Rx Assignment Failure from BSC does nothing

05/04/2018 09:29 PM - neels

Status:	Resolved	**Start date:**	05/04/2018
Priority:	High	**Due date:**	
Assignee:	neels	**% Done:**	100%
Category:			
Target version:			
Resolution:			

Description

The code actually says:

```
/* Receive an ASSIGNMENT FAILURE from BSC */
void msc_assign_fail(struct gsm_subscriber_connection *conn,
                     uint8_t cause, uint8_t *rr_cause)
{
        LOGP(DRR, LOGL_DEBUG, "MSC assign failure (do nothing).\n");
}
```

Thus, when the BSC encounters any failure of allocating an lchan and the MSC is told so, osmo-msc still waits it out, which is ridiculous.
(After a considerable timeout, the call fails, so classifying this as a Feature request, not a bug report.)
osmo-msc should instead abort any ongoing call setup and tell both sides that it's over right away.

I noticed this while dyn TS allocation in osmo-bts is buggy: paging and call alerting happily continues despite the first Assignment actually failing.

The way to reproduce exactly what I saw:

- revert patch Ic06c8f0fe82ae8a06afa5defd93a685010687965 in osmo-bts
- configure all as TCH/F_TCH/H_PDCH
- place a voice call and run into chan activ nack

or otherwise cause a chan activ nack to result when trying to allocate a TCH/x for the call from the BTS,
which then propagates as an Assignment Failure towards the MSC (at least since osmo-bsc patch Ib204b4a5272f9b7b60ca5f932cd8a4c857316270)

(at time of writing those patches aren't actually merged yet, but from a future perspective I expect they will be.)

Related issues:

Related to OsmoBSC - Bug #3708: osmo-bsc: Wrong handling of PDCH DEACT NACK	**Feedback**	**11/26/2018**	
Related to OsmoMSC - Feature #1609: Inter-BSC hand-over is missing (MSC side)	**Resolved**	**11/21/2016**	**11/21/2016**

History

#1 - 05/04/2018 09:31 PM - neels

- Description updated

#2 - 06/23/2018 07:04 PM - laforge

- Assignee set to stsp

#3 - 09/30/2018 11:35 AM - laforge

- Priority changed from Normal to High

#4 - 11/26/2018 07:18 PM - pespin

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

#5 - 11/26/2018 11:58 PM - neels

- Assignee changed from stsp to neels

This is likely to get refactored in the course of inter-BSC and inter-MSC handover implementations, because that will cause quite elaborate changes in how conns are being handled.

#6 - 11/26/2018 11:58 PM - neels

- Related to Feature #1609: Inter-BSC hand-over is missing (MSC side) added

#7 - 05/09/2019 12:26 AM - neels

- Status changed from New to Resolved

- % Done changed from 0 to 100

osmo-msc master (refactored) handles Assignment Failure