

OsmoBSC - Feature #3586

support LCLS for inter-BSC handover

09/24/2018 03:58 PM - neels

Status: New	Start date: 09/24/2018
Priority: Normal	Due date:
Assignee: neels	% Done: 0%
Category:	
Target version:	
Spec Reference:	
Description	
In the osmo-bsc handover_fsm.c, we do not do lcls_apply_config() anywhere yet.	
For an intra-BSC handover, the MSC isn't even involved and we would simply redirect the RTP stream from one BTS to the other. The network-side RTP switching would be unchanged.	
Only for incoming inter-BSC handover do we want to apply LCLS, so that its result is sent in the BSSMAP Handover Complete message.	
Similar to the LCLS Assignment fix 18dd561d744d8081b5ac5ffa7635f17ac19bcda45, we would need to first set conn->lchan to the new lchan, then call lcls_apply_config() and only after that send the BSSMAP Handover Complete. (So far the FSM wants to signal success and switch the lchan only after sending the BSSMAP HO Complete succeeds, but if sending the BSSMAP fails we might as well release the lchan and in consequence tear down the conn completely.) This would happen in handover_end() in handover_fsm.c when result == HO_RESULT_OK and ho->scope & HO_INTER_BSC_IN.	
Related issues:	
Related to OsmoBSC - Feature #1602: BSC side of LCLS (local call local switch...	Resolved 02/23/2016
Related to OsmoBSC - Feature #3659: handover during LCLS directly between BTSs	Stalled 10/17/2018

History

#1 - 09/24/2018 03:58 PM - neels

- Status changed from In Progress to New

#2 - 09/24/2018 03:59 PM - neels

- Related to Feature #1602: BSC side of LCLS (local call local switching) as per the 3GPP specs added

#3 - 09/24/2018 04:56 PM - neels

I'm not sure, since we **are** still assigning a new lchan during intra-BSC handover, maybe we should also have an lcls_apply_config() or something even then?

Should LCLS set some state in the new lchan?

#4 - 09/24/2018 05:20 PM - laforge

On Mon, Sep 24, 2018 at 04:56:31PM +0000, neels [REDMINE] wrote:

I'm not sure, since we **are** still assigning a new lchan during intra-BSC handover, maybe we should also have an lcls_apply_config() or something even then?

Should LCLS set some state in the new lchan?

I don't think so. The LCLS state should be entirely in the subscr_conn, not the lchan.

#5 - 09/30/2018 10:46 AM - laforge

- Assignee set to neels

best to cover this in BSC_Tests.tcn

#6 - 01/17/2019 04:10 PM - msuraev

- Related to Feature #3659: handover during LCLS directly between BTSs added

#7 - 01/17/2019 04:18 PM - msuraev

Note: related gerrit 12377 is stuck in review due to ongoing API change discussion.