

OsmoBSC - Feature #2949

use RR Assignment for Handover within a cell

02/16/2018 02:50 PM - neels

Status: New	Start date: 02/16/2018
Priority: Normal	Due date:
Assignee:	% Done: 0%
Category:	
Target version:	
Spec Reference:	
Description Currently, we always use RSL_ACT_INTER_ASYNC and RR Handover Command, both for handover between different cells and for re-assignment within the same cell. There are patches around to use RSL_ACT_INTRA_IMM_ASS and gsm48_send_rr_ass_cmd() for re-assignment within the same cell, instead. However, that hasn't worked out in testing so far. Implement Assignment by actual intra-cell assignment instead of Handover Command.	
Related issues:	
Related to OsmoBSC - Bug #3357: osmo-bsc doesn't perform RSL MODE MODIFY on A...	New 06/26/2018
Is duplicate of OsmoBSC - Feature #3277: handover: for intra-cell HO, use RR ...	New 05/17/2018

History

#1 - 02/16/2018 02:52 PM - neels

This patch in essence came from the jolly/new_handover branch, does not seem to be sufficient.

```
commit adf9dc3065329714d1c67aa04600de23d7a70452
```

```
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```
Date: Mon Feb 12 17:28:56 2018 +0100
```

```
use RR Assignment Command for intra-cell re-assignment
```

```
Change-Id: I26b62731f13cd7d4217b68eb76e298a6216af896
```

```
diff --git a/src/libbsc/handover_logic.c b/src/libbsc/handover_logic.c
index cdc21f56f..2d6b6bddb 100644
--- a/src/libbsc/handover_logic.c
+++ b/src/libbsc/handover_logic.c
@@ -158,7 +158,9 @@ int bsc_handover_start(enum hodec_id from_hodec_id, struct gsm_lchan *old_lchan,
     new_lchan->conn->ho_lchan = new_lchan;

     rc = rsl_chan_activate_lchan(new_lchan,
-                               ho->async ? RSL_ACT_INTER_ASYNC : RSL_ACT_INTER_SYNC,
+                               ho->inter_cell
+                               ? (ho->async ? RSL_ACT_INTER_ASYNC : RSL_ACT_INTER_SYNC)
+                               : RSL_ACT_INTRA_IMM_ASS,
                               ho->ho_ref);
     if (rc < 0) {
         LOGPHO(ho, LOGL_INFO, "%s Failure: activate lchan rc = %d\n",
@@ -233,7 +235,10 @@ static int ho_chan_activ_ack(struct gsm_lchan *new_lchan)
     /* we can now send the 04.08 HANDOVER COMMAND to the MS
     * using the old lchan */

-    gsm48_send_ho_cmd(ho->old_lchan, new_lchan, new_lchan->ms_power, ho->ho_ref);
+    if (ho->inter_cell)
+        gsm48_send_ho_cmd(ho->old_lchan, new_lchan, new_lchan->ms_power, ho->ho_ref);
+    else
+        gsm48_send_rr_ass_cmd(ho->old_lchan, new_lchan, new_lchan->ms_power);

     /* start T3103. We can continue either with T3103 expiration,
     * 04.08 HANDOVER COMPLETE or 04.08 HANDOVER FAIL */
```

#2 - 08/20/2018 04:03 PM - neels

- Is duplicate of Feature #3277: handover: for intra-cell HO, use RR Assignment Command, not RR Handover Command added

#3 - 09/30/2018 08:54 AM - laforge

- Related to Bug #3357: osmo-bsc doesn't perform RSL MODE MODIFY on ASSIGNMENT if channel is compatible. added