

OsmoMSC - Feature #4634

lu: record SAC, and show RNC ID and SAC in the vty upon 'show subscriber'

06/24/2020 06:06 PM - neels

Status: New	Start date: 06/24/2020
Priority: Low	Due date:
Assignee:	% Done: 0%
Category:	
Target version:	
Resolution:	Spec Reference:
Description	
<p>In BSSAP, osmo-msc since recently properly records the Complete Layer 3 Information cell id and shows it in the vty. Similar should be possible for lu, though in the lu InitialUE-Message, there is no Cell ID, but rather an RNC ID and a SAC. osmo-msc should store those and show them in the vty in 'show subscriber', similarly to the Cell ID.</p> <p>See ran_msg_iu.c, ran_iu_decode_l3_initial(), which passes the PLMN and LAI from the InitialUE message, but not the RNC ID nor the SAC.</p> <p>These should also be verified by the ttcn3-msc-test, see MSC_Tests.ttcn f_start_handler(), which currently disables the cell id test for lu.</p> <p>The cell id test f_verify_vty_lac_ci() should accomodate the difference between GERAN and UTRAN, and RNC/SAC testing should happen in the TC_iu_* tests.</p>	

History

#1 - 06/24/2020 06:08 PM - neels

- Priority changed from Normal to Low

for illustration, a dissected InitialUE-Message.

The complete SAI and GlobalRNC-Id should probably make their way to the VLR.

```
MTP 3 User Adaptation Layer
Signalling Connection Control Part
Radio Access Network Application Part
  RANAP-PDU: initiatingMessage (0)
    initiatingMessage
      procedureCode: id-InitialUE-Message (19)
      criticality: ignore (1)
      value
        InitialUE-Message
          protocolIEs: 6 items
            Item 0: id-CN-DomainIndicator
              ProtocolIE-Field
                id: id-CN-DomainIndicator (3)
                criticality: ignore (1)
                value
                  CN-DomainIndicator: cs-domain (0)
            Item 1: id-LAI
              ProtocolIE-Field
                id: id-LAI (15)
                criticality: ignore (1)
                value
                  LAI
                    pLMNidentity: 62f224
                    Mobile Country Code (MCC): Germany (262)
                    Mobile Network Code (MNC): Vodafone GmbH (42)
                    LAC: 0017
            Item 2: id-SAI
              ProtocolIE-Field
                id: id-SAI (58)
                criticality: ignore (1)
                value
                  SAI
                    pLMNidentity: 62f224
                    Mobile Country Code (MCC): Germany (262)
```

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Mobile Network Code (MNC): Vodafone GmbH (42)
LAC: 0017
SAC: 0000
Item 3: id-NAS-PDU
  ProtocolIE-Field
    id: id-NAS-PDU (16)
    criticality: ignore (1)
    value
      NAS-PDU: 05080262f220999952082926240000000170
Item 4: id-IuSigConId
  ProtocolIE-Field
    id: id-IuSigConId (79)
    criticality: ignore (1)
    value
      IuSignallingConnectionIdentifier: 000017 [bit length 24, 0000 0000 0000 0
000 0001 0111 decimal value 23]
Item 5: id-GlobalRNC-ID
  ProtocolIE-Field
    id: id-GlobalRNC-ID (86)
    criticality: ignore (1)
    value
      GlobalRNC-ID
        pLMNidentity: 62f224
        Mobile Country Code (MCC): Germany (262)
        Mobile Network Code (MNC): Vodafone GmbH (42)
        rNC-ID: 2342
GSM A-I/F DTAP - Location Updating Request

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