

OsmoMSC - Bug #4017

MSC fails to handle calls

05/22/2019 03:26 AM - manatails

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|------------------------|--------|------------------------|------------|
| Status: | New | Start date: | 05/22/2019 |
| Priority: | Normal | Due date: | |
| Assignee: | | % Done: | 0% |
| Category: | | | |
| Target version: | | | |
| Resolution: | | Spec Reference: | |

Description

Osmo-MSC fails to handle calls sometimes after the phone has been registered to the network.

The following is the log from osmo-msc

```
Wed May 22 12:17:58 2019 DVLR <000e> vlr_access_req_fsm.c:374 Process_Access_Request_VLR(TMSI-0x35814F56:UTRAN-Iu-158:CM_SERVICE_REQ) [0x1377b80]{PR_ARQ_S_INIT}: Another proc_arq_fsm is already associated with subscr IMSI-450091000000001:MSISDN-01000000001:TMSI-0x35814F56, terminating the other FSM.
Wed May 22 12:17:58 2019 DVLR <000e> vlr_access_req_fsm.c:103 Process_Access_Request_VLR(IMSI-450091000000001:MSISDN-01000000001:TMSI-0x35814F56:UTRAN-Iu-157:CM_SERVICE_REQ) [0x136efe0]{PR_ARQ_S_DONE}: transition to state PR_ARQ_S_DONE not permitted!
Wed May 22 12:17:58 2019 DIUCS <000f> msub.c:360 msc_a(TMSI-0x35814F56:UTRAN-Iu-158:CM_SERVICE_REQ) [0x13793b0]{MSC_A_ST_VALIDATE_L3}: Cannot associate with VLR subscr, another connection is already active at IMSI-450091000000001:MSISDN-01000000001:TMSI-0x35814F56:UTRAN-Iu-157:CM_SERVICE_REQ
Wed May 22 12:17:58 2019 DIUCS <000f> msub.c:362 msc_a(IMSI-450091000000001:MSISDN-01000000001:TMSI-0x35814F56:UTRAN-Iu-157:CM_SERVICE_REQ) [0x136ed80]{MSC_A_ST_COMMUNICATING}: Attempt to associate a second subscriber connection at TMSI-0x35814F56:UTRAN-Iu-158:CM_SERVICE_REQ
Wed May 22 12:17:58 2019 DIUCS <000f> gsm_04_08.c:805 msc_a(TMSI-0x35814F56:UTRAN-Iu-158:CM_SERVICE_REQ) [0x13793b0]{MSC_A_ST_RELEASING}: subscriber not allowed to do a CM Service Request
Wed May 22 12:17:58 2019 DIUCS <000f> msc_a.c:1525 msc_a(TMSI-0x35814F56:UTRAN-Iu-158:CM_SERVICE_REQ) [0x13793b0]{MSC_A_ST_RELEASING}: RAN decode error (rc=-5) for COMPL_L3 from MSC-I
Wed May 22 12:17:58 2019 DIUCS <000f> msc_a.c:1377 msc_a(IMSI-450091000000001:MSISDN-01000000001:TMSI-0x35814F56:UTRAN-Iu-157:CM_SERVICE_REQ) [0x136ed80]{MSC_A_ST_COMMUNICATING}: Received Clear Complete event, but did not send Clear Command
Wed May 22 12:18:01 2019 DVLR <000e> vlr_access_req_fsm.c:374 Process_Access_Request_VLR(TMSI-0x35814F56:UTRAN-Iu-159:CM_SERVICE_REQ) [0x1377d70]{PR_ARQ_S_INIT}: Another proc_arq_fsm is already associated with subscr IMSI-450091000000001:MSISDN-01000000001:TMSI-0x35814F56, terminating the other FSM.
Wed May 22 12:18:01 2019 DVLR <000e> vlr_access_req_fsm.c:103 Process_Access_Request_VLR(TMSI-0x35814F56:UTRAN-Iu-158:CM_SERVICE_REQ) [0x1377b80]{PR_ARQ_S_DONE}: transition to state PR_ARQ_S_DONE not permitted!
Wed May 22 12:18:02 2019 DIUCS <000f> ran_msg_iu.c:179 msc_i(IMSI-450091000000001:MSISDN-0100000001:TMSI-0x35814F56:UTRAN-Iu-159:CM_SERVICE_REQ) [0x136bce0]{READY}: RAN decode: RANAP: RAB Assignment Response does not contain RAB information
Wed May 22 12:18:02 2019 DIUCS <000f> ran_msg_iu.c:179 msc_a(IMSI-450091000000001:MSISDN-0100000001:TMSI-0x35814F56:UTRAN-Iu-159:CM_SERVICE_REQ) [0x136af60]{MSC_A_ST_COMMUNICATING}: RAN decode: RANAP: RAB Assignment Response does not contain RAB information
Wed May 22 12:18:02 2019 DIUCS <000f> msc_a.c:1285 msc_a(IMSI-450091000000001:MSISDN-01000000001:TMSI-0x35814F56:UTRAN-Iu-159:CM_SERVICE_REQ) [0x136af60]{MSC_A_ST_COMMUNICATING}: Assignment Failure, releasing call
Wed May 22 12:18:02 2019 DIUCS <000f> msc_a.c:1193 msc_a(IMSI-450091000000001:MSISDN-01000000001:TMSI-0x35814F56:UTRAN-Iu-159:CM_SERVICE_REQ) [0x136af60]{MSC_A_ST_RELEASING}: Message not permitted for initial conn: GSM48_MT_CC_RELEASE_COMPL
Wed May 22 12:18:02 2019 DIUCS <000f> msc_a.c:1525 msc_a(IMSI-450091000000001:MSISDN-01000000001:TMSI-0x35814F56:UTRAN-Iu-159:CM_SERVICE_REQ) [0x136af60]{MSC_A_ST_RELEASING}: RAN decode error (rc=-13) for DTAP from MSC-I
Wed May 22 12:18:06 2019 DIUCS <000f> ran_msg_iu.c:179 msc_i(IMSI-450091000000001:MSISDN-0100000001:TMSI-0x35814F56:UTRAN-Iu-160:CM_SERVICE_REQ) [0x1378ec0]{READY}: RAN decode: RANAP: RAB Assignment Response does not contain RAB information
Wed May 22 12:18:06 2019 DIUCS <000f> ran_msg_iu.c:179 msc_a(IMSI-450091000000001:MSISDN-0100000001:TMSI-0x35814F56:UTRAN-Iu-160:CM_SERVICE_REQ) [0x1378ec0]{READY}: RAN decode: RANAP: RAB Assignment Response does not contain RAB information
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01:TMSI-0x35814F56:UTRAN-Iu-160:CM_SERVICE_REQ) [0x136af60] {MSC_A_ST_COMMUNICATING}: RAN decode: RA
NAP: RAB Assignment Response does not contain RAB information
Wed May 22 12:18:06 2019 DIUCS <000f> msc_a.c:1285 msc_a(IMSI-450091000000001:MSISDN-01000000001:T
MSI-0x35814F56:UTRAN-Iu-160:CM_SERVICE_REQ) [0x136af60] {MSC_A_ST_COMMUNICATING}: Assignment Failure
, releasing call
Wed May 22 12:18:28 2019 DIUCS <000f> msc_a.c:688 msc_a(TMSI-0x35814F56:UTRAN-Iu-158:CM_SERVICE_RE
Q) [0x13793b0] {MSC_A_ST_RELEASING}: Timeout while releasing, discarding right now
Wed May 22 12:18:28 2019 DLSCCP <0020> sccp_scoc.c:1677 SCCP-SCOC(158) [0x1370e70] {DISCONN_PEND}: E
vent RCOC-ERROR.ind not permitted
```

osmo-sip-connector

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Wed May 22 12:18:02 2019 DMNCC <0001> mncc.c:76 Wanted rsp(MNCC_RTP_CREATE) but got (MNCC_REL_CNF)
for leg(2147483705)
Wed May 22 12:18:06 2019 DMNCC <0001> mncc.c:76 Wanted rsp(MNCC_RTP_CREATE) but got (MNCC_REL_CNF)
for leg(2147483706)
```

History

#1 - 05/22/2019 03:49 PM - manatails

- File *msc_.txt* added
- File *msc_.pcap* added

#2 - 05/22/2019 03:50 PM - manatails

- File *msc_.pcap* added

#3 - 05/22/2019 03:51 PM - manatails

log and pcap file at the time of call failure. Please ignore the first pcap file as it is cut short.

#4 - 05/22/2019 04:50 PM - laforge

I could imagine that it's related to some of the other problems about not closing SCCP connections in the first place. I honestly think we need to analyze those step by step in a logical manner. As long as we don't even do the basics like SCCP connection handling right, all kinds of strange higher-layer behavior may be a result.

#5 - 05/29/2019 04:56 PM - manatails

I thought this could be related to bug [#3995](#) but it persists even when the SGSN is not present.

Files

| | | | |
|------------------|-----------|------------|-----------|
| <i>msc_.txt</i> | 2.88 KB | 05/22/2019 | manatails |
| <i>msc_.pcap</i> | 206 Bytes | 05/22/2019 | manatails |
| <i>msc_.pcap</i> | 9.64 KB | 05/22/2019 | manatails |