**SMSRouter – Add IPSMGW Element**

|  |  |  |
| --- | --- | --- |
| **Name** | **Point Code** | **GT** |
| IPSMGW-MOC | 1096 (448’h) | 6593659940 |
| IPSMGW-ROC | 1097 (449’h) | 6593659942 |

1. **Configuration Changes on SMSRouter Syscontrol script**

Update the PC in the **/usr/local/syscontrol/etc/siuX.ini** in 3 SMSRouter and 2 OAM nodes

|  |  |
| --- | --- |
| **Existing Configuration** | **New Configuration** |
| …  name.16=MOC FAF  pc.16=504  name.17=ROC FAF  pc.17=507  … | …  name.16=**MOC IPSMGW**  pc.16=**448**  name.17=**ROC IPSMGW**  pc.17=**449**  … |

1. **SIU config**

|  |  |
| --- | --- |
| **Existing** | **New** |
| …  \*--Define M1 network elements point code-  …  \* MOC-FAF, 504  \* ROC-FAF, 507  STN\_ROUTE NC0 18 0x504 0x8000  STN\_ROUTE NC0 19 0x507 0x8000  …  \*--Define M1 network element routes to---  …  \* MOC-FAF, 504  STN\_RSGLIST 35 18 1 0x0000  STN\_RSGLIST 36 18 2 0x0000  \* ROC-FAF, 507  STN\_RSGLIST 37 19 2 0x0000  STN\_RSGLIST 38 19 1 0x0000  …  SCCP\_SSR NC0 18 RSP 0x504 0x0000 0x0000  SCCP\_SSR NC0 19 RSP 0x507 0x0000 0x0000… | …  \*--Define M1 network elements point code-  …  **\* MOC-IPSMGW, 448**  **\* ROC-IPSMGW, 449**  STN\_ROUTE NC0 18 **0x448** 0x8000  STN\_ROUTE NC0 19 **0x449** 0x8000  …  \*--Define M1 network element routes to---  …  **\* MOC-IPSMGW, 448**  STN\_RSGLIST 35 18 1 0x0000  STN\_RSGLIST 36 18 2 0x0000  **\* ROC-IPSMGW, 449**  STN\_RSGLIST 37 19 2 0x0000  STN\_RSGLIST 38 19 1 0x0000  …  SCCP\_SSR NC0 18 RSP **0x448** 0x0000 0x0000  SCCP\_SSR NC0 19 RSP **0x449** 0x0000 0x0000  … |

**Execution**

1. SFTP to SIU1, using siuftp user, from OAM server.
2. Backup existing config.txt as ““config.bakYYYYMMDD””as “config.txt”.
3. SFTP the new config.txt and replace the existing file.
4. Exit the FTP session and reload the file.

# syscontrol siu1 Reload

1. Verify that the configuration is loaded correctly, and the links are up and active.

# syscontrol siu1 Alarm

# syscontrol siu1 Link

# syscontrol siu1 Route

1. Ensure that there are 3 active hosts. If a HostID is missing, login to the missing SMSRouter node and manually run the /home/telogic/application/ss7/bin/act\_dtc.sh

# syscontrol siu1 HostCheck

1. Repeat the above steps for SIU2.

**Rollback**

1. SFTP to SIU-1 (or SIU-2). Delete the new “config.txt”.
2. Rename the backup file “config.bakYYYYMMDD” as “config.txt”.
3. Exit SFTP
4. Telnet to SIU-1 (or SIU-2) and soft reboot SIU with command:

# syscontrol siu1 Reload

1. Verify that the Sigtran connection are up, as per above steps
2. **Configuration changes on GUI**
3. Update SS7 Nodes to add SMSF GT via MySQL

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Point Code** | **GT** | **Type** |
| IPSMGW-MOC | 1096 | 6593659940 | MSC |
| IPSMGW-ROC | 1097 | 6593659942 | MSC |

**Execution**

1. Login to SQL and find the active database

[teomc@oam1 ~]$ syscontrol SQL

mysql> select \* from smsmain.dbprofile where status='active';

1. Use the active database from step (i)

mysql> use smsrouter\_[XXXX];

1. List the current record in the table

mysql> select \* from ss7\_node;

1. Add the new SS7 nodes as per above table

mysql> insert into ss7\_node (id,name,gt,pointcode,type) values (58,’MOC-IPSMGW’,’ 6593659940’,’1096’,'MSC');

mysql> insert into ss7\_node (id,name,gt,pointcode,type) values (59,’ROC-IPSMGW’,’ 6593659942’,’1097’,'MSC');

1. Verify the new SS7 nodes are added

mysql> select \* from ss7\_node;

mysql> quit;

1. **Verification**

On SS7 logs, should see the point code for SVC GTs and the MT-FSM delivery should be successfully after the CR

**Before CR:-**

**[teomc@smsrouter001 logs]$ cat smsr001\_ss7\_20250501\* | grep 6593659940**

20250501001645627,INFORMATION: MEM=00000000b000a7f0 DLG=0b86 **SRISM ACK** HLR=1122:6593659940 MSC=**0:6593659940**

20250501001645635,INFORMATION: MEM=00000000b000a7f0 DLG=0b86 **MT-ForwardSM** MSISDN=6598440136 IMSI=525038770454011 MSC=**0:6593659940** SENDER=OSP DCS=00 UDHI=0

**[teomc@smsrouter001 logs]$ cat smsr001\_ss7\_20250501\* | grep 6593659942**

20250501062133791,INFORMATION: MEM=000000001a100d60 DLG=0740 **SRISM ACK** HLR=1122:6593659942 MSC=**0:6593659942**

20250501062133800,INFORMATION: MEM=000000001a100d60 DLG=0740 **MT-ForwardSM** MSISDN=6596871539 IMSI=525038770636250 MSC=**0:6593659942** SENDER=OSP DCS=00 UDHI=0

**After CR:-**

Use existing MSC 96860003 as reference

**[teomc@smsrouter001 logs]$ more smsr001\_ss7\_20250501\* | grep 6596860003**

20250501074634101,INFORMATION: MEM=000000001a105d60 DLG=09b3 **SRISM ACK** HLR=1121:6590475045 MSC=**1127:6596860003**

20250501074634102,INFORMATION: MEM=000000001a105d60 DLG=09b3 **MT-ForwardSM** MSISDN=6596927283 IMSI=525038770453432 MSC=**1127**:6596860003 SENDER=OSP DCS=00 UDHI=0