UE Can’t Search 5G Femto Network Due to PLMN Incompatibility

Equipment: nCelll F2240

Terminal: CPX80P-2A

Version: V2.5.1+V503

Core : IPlook 4/5G integrated version

Plmn: 46000

1. Issue Description

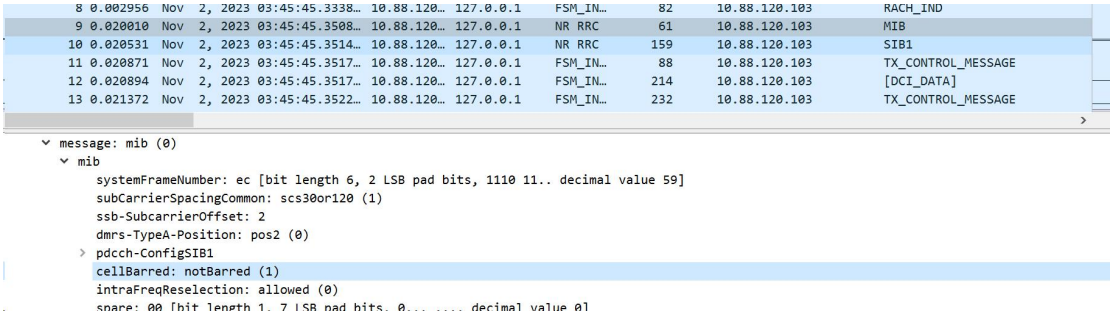
UE can’t search signal from 5G femto, femto status is normal.

2. Troubleshooting procedure

2.1 Fapi and qxdm log analysis.

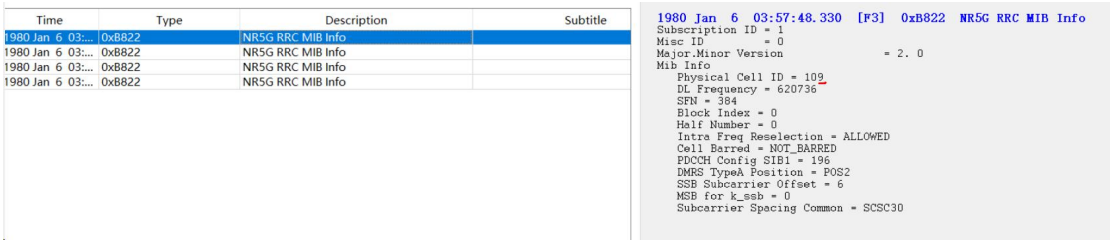
Fapi log:

gNB can send MIB and SIB1 messages.



QXDM log:

UE can’t recieve MIB messages from gNB PCI 1, but can get from PCI 109 which belongs to another operator.



2.1 TX power check.

Both TX channel is transmitting power normally.

```
txPowerReqIdx          19
carrierId               1
scs                     2
txPathId                2
sfn                   464
slot                    1
startSymbol             0
numSymbols              1
txPowerdBm10          125

------------odiSetPhySelfInfo --RF_INFO_FCN:  notsupport: 2result: 1

odi: rx 360 bytes (1 msgs) from /tmp/odsServer.sock.7588
odi: command time measured: 0.001942120 sec
odi: ok ( odi -n duapp0 set-fsm 2 2 2 )
root@localhost:/opt/bbu/oam/log# odi -n duapp0 set-fsm 2 2 2
odi: tx 38 bytes to port 0 on

******* rfGetTxPower Req sent successfully *******
txPowerReqIdx           1
carrierId               1
scs                     2
txPathId                2
sfn                   794
slot                    0
startSymbol             2
numSymbols              1
txPowerdBm10           86

------------odiSetPhySelfInfo --RF_INFO_FCN:  notsupport: 2result: 1
```

3. Solution

Change the PLMN from 46000 to 46011 for both Core Netowrk and gNB.

UE regiesters successfully.