

Whenever UE connected But not getting Internet.

In UE:

Go to settings > Access point Names > Update APN

For APN Name go to oai_db3.sql file which located in database and check the values of SST and SD. Then go to docker-compose-basic-nrf.yaml file and check SST and SD values in oai-amf section according to that values check DNN_NI in oai-smf section. Here the DNN_NI Name is APN. Update and reconnect.

APN Name (in User Equipment) should match with DNN_NI value in oai-smf of yaml file.

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INSERT INTO 'SessionManagementSubscriptionData' ('ueid', 'servingPlmnid', 'singleNssai', 'dnnConfigurations') VALUES ('999100000000111', '99910', '{\"sst\": 1, \"sd\": \"I\"}', '{\"default\": {\"pduSessionType\": \"IPV4\"}, \"sscs\": {\"defaultSscMode\": \"SSC_MODE_1\"}, \"sgqosProfile\": {\"sqi\": 6, \"sqi\": 6}}')
INSERT INTO 'SessionManagementSubscriptionData' ('ueid', 'servingPlmnid', 'singleNssai', 'dnnConfigurations') VALUES ('001010000000031', '00101', '{\"sst\": 1, \"sd\": \"I\"}', '{\"oai\": {\"pduSessionTypes\": {\"defaultSessionType\": \"IPV4\"}, \"sscs\": {\"defaultSscMode\": \"SSC_MODE_1\"}, \"sgqosProfile\": {\"sqi\": 6, \"sqi\": 6}}}')
INSERT INTO 'SessionManagementSubscriptionData' ('ueid', 'servingPlmnid', 'singleNssai', 'dnnConfigurations') VALUES ('001010000000032', '00101', '{\"sst\": 1, \"sd\": \"I\"}', '{\"default\": {\"pduSessionTypes\": {\"defaultSessionType\": \"IPV4\"}, \"sscs\": {\"defaultSscMode\": \"SSC_MODE_1\"}, \"sgqosProfile\": {\"sqi\": 6, \"sqi\": 6}}}')
INSERT INTO 'SessionManagementSubscriptionData' ('ueid', 'servingPlmnid', 'singleNssai', 'dnnConfigurations') VALUES ('001010000000033', '00101', '{\"sst\": 1, \"sd\": \"I\"}', '{\"default\": {\"pduSessionTypes\": {\"defaultSessionType\": \"IPV4\"}, \"sscs\": {\"defaultSscMode\": \"SSC_MODE_1\"}, \"sgqosProfile\": {\"sqi\": 6, \"sqi\": 6}}}')
INSERT INTO 'SessionManagementSubscriptionData' ('ueid', 'servingPlmnid', 'singleNssai', 'dnnConfigurations') VALUES ('001010000000034', '00101', '{\"sst\": 1, \"sd\": \"I\"}', '{\"default\": {\"pduSessionTypes\": {\"defaultSessionType\": \"IPV4\"}, \"sscs\": {\"defaultSscMode\": \"SSC_MODE_1\"}, \"sgqosProfile\": {\"sqi\": 6, \"sqi\": 6}}}')
INSERT INTO 'SessionManagementSubscriptionData' ('ueid', 'servingPlmnid', 'singleNssai', 'dnnConfigurations') VALUES ('001010000000035', '00101', '{\"sst\": 1, \"sd\": \"I\"}', '{\"default\": {\"pduSessionTypes\": {\"defaultSessionType\": \"IPV4\"}, \"sscs\": {\"defaultSscMode\": \"SSC_MODE_1\"}, \"sgqosProfile\": {\"sqi\": 6, \"sqi\": 6}}}')
INSERT INTO 'SessionManagementSubscriptionData' ('ueid', 'servingPlmnid', 'singleNssai', 'dnnConfigurations') VALUES ('001010000000036', '00101', '{\"sst\": 1, \"sd\": \"I\"}', '{\"default\": {\"pduSessionTypes\": {\"defaultSessionType\": \"IPV4\"}, \"sscs\": {\"defaultSscMode\": \"SSC_MODE_1\"}, \"sgqosProfile\": {\"sqi\": 6, \"sqi\": 6}}}')
INSERT INTO 'SessionManagementSubscriptionData' ('ueid', 'servingPlmnid', 'singleNssai', 'dnnConfigurations') VALUES ('001010000000037', '00101', '{\"sst\": 1, \"sd\": \"I\"}', '{\"default\": {\"pduSessionTypes\": {\"defaultSessionType\": \"IPV4\"}, \"sscs\": {\"defaultSscMode\": \"SSC_MODE_1\"}, \"sgqosProfile\": {\"sqi\": 6, \"sqi\": 6}}}')
INSERT INTO 'SessionManagementSubscriptionData' ('ueid', 'servingPlmnid', 'singleNssai', 'dnnConfigurations') VALUES ('208950000000032', '20895', '{\"sst\": 222, \"sd\": \"I23\"}', '{\"default\": {\"pduSessionTypes\": {\"defaultSessionType\": \"IPV4\"}, \"sscs\": {\"defaultSscMode\": \"SSC_MODE_1\"}, \"sgqosProfile\": {\"sqi\": 6, \"sqi\": 6}}}')
INSERT INTO 'SessionManagementSubscriptionData' ('ueid', 'servingPlmnid', 'singleNssai', 'dnnConfigurations') VALUES ('208950000000040', '00101', '{\"sst\": 1, \"sd\": \"I\"}', '{\"default\": {\"pduSessionTypes\": {\"defaultSessionType\": \"IPV4\"}, \"sscs\": {\"defaultSscMode\": \"SSC_MODE_1\"}, \"sgqosProfile\": {\"sqi\": 6, \"sqi\": 6}}}')
INSERT INTO 'SessionManagementSubscriptionData' ('ueid', 'servingPlmnid', 'singleNssai', 'dnnConfigurations') VALUES ('208950000000041', '00101', '{\"sst\": 1, \"sd\": \"I\"}', '{\"default\": {\"pduSessionTypes\": {\"defaultSessionType\": \"IPV4\"}, \"sscs\": {\"defaultSscMode\": \"SSC_MODE_1\"}, \"sgqosProfile\": {\"sqi\": 6, \"sqi\": 6}}}')
.....
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oai-smf:
  container_name: "oai-smf"
  image: oaisoftwarealliance/oai-smf:v1.5.1
  expose:
    - 80/tcp
    - 8080/tcp
    - 8805/udp
  environment:
    - TZ=Europe/Paris
    - SMF_INTERFACE_NAME_FOR_N4=eth0
    - SMF_INTERFACE_NAME_FOR_SBI=eth0
    - DEFAULT_DNS_IPV4_ADDRESS=172.21.3.100
    - DEFAULT_DNS_SEC_IPV4_ADDRESS=8.8.8.8
    - AMF_IPV4_ADDRESS=192.168.70.132
    - AMF_FQDN=oai-amf
    - UDM_IPV4_ADDRESS=192.168.70.137
    - UDM_FQDN=oai-udm
    - UPF_IPV4_ADDRESS=192.168.70.134
    - UPF_FQDN_0=oai-spgwu
    - NRF_IPV4_ADDRESS=192.168.70.130
    - NRF_FQDN=oai-nrf
    - USE_LOCAL_SUBSCRIPTION_INFO=yes #Set to yes if SMF uses local subscription information instead of from an UDM
    - REGISTER_NRF=yes
    - DISCOVER_UPF=yes
    - USE_FQDN_DNS=yes
    # changes for HTTP2
    - HTTP_VERSION=2
    - AMF_PORT=8080
    - UDM_PORT=8080
    - NRF_PORT=8080
    - UE_MTU=1500
    # Slice 0 (1, 0xFFFFF)
    - DNN_NI0=oai
    - TYPE0=IPv4
    - DNN_RANGE0=12.1.1.151 - 12.1.1.253
    - NSSAI_SST0=1
    - SESSION_AMBR_UL0=200Mbps
    - SESSION_AMBR_DL0=400Mbps
    # Slice 1 (1, 1)
    - DNN_NI1=oai.ipv4
    - TYPE1=IPv4
    - DNN_RANGE1=12.1.1.151 - 12.1.1.150
    - NSSAI_SST1=1
    - NSSAI_SD1=1
    - SESSION_AMBR_UL1=100Mbps
    - SESSION_AMBR_DL1=200Mbps
    # Slice 2 (2, 0xFFFFF)
```

```

oai-amf:
  container_name: "oai-amf"
  image: oaisoftwarealliance/oai-amf:v1.5.1
  expose:
    - 80/tcp
    - 8080/tcp
    - 38412/sctp
  environment:
    - TZ=Europe/Paris
    - MCC=001
    - MNC=01
    - REGION_ID=128
    - AMF_SET_ID=1
    - SERVED_GUAMI_MCC_0=001 # 208 binod
    - SERVED_GUAMI_MNC_0=01 # 95 binod
    - SERVED_GUAMI_REGION_ID_0=128
    - SERVED_GUAMI_AMF_SET_ID_0=1
    - SERVED_GUAMI_MCC_1=001 # 460 binod
    - SERVED_GUAMI_MNC_1=01 # 11 binod
    - SERVED_GUAMI_REGION_ID_1=10
    - SERVED_GUAMI_AMF_SET_ID_1=1
    - PLMN_SUPPORT_MCC=001 # 208 binod
    - PLMN_SUPPORT_MNC=01 # 95 binod
    - PLMN_SUPPORT_TAC=1 # 0xa000 binod
    # Slice 0 (1, 0xFFFFFFFF)
    - SST_0=1
    # At least one slice SHALL be defined.
    # All the others are optional
    # Slice 1 (1, 1)
    - SST_1=1
    - SD_1=1
    # SST_2=222
    - SST_2=222
    - SD_2=123
    - AMF_INTERFACE_NAME_FOR_NGAP=eth0
    - AMF_INTERFACE_NAME_FOR_N11=eth0
    # One single SMF instance
    - SMF_INSTANCE_ID_0=1
    - SMF_FQDN_0=oai-smf
    - SMF_IPV4_ADDR_0=192.168.70.133
    - SELECTED_0=true
    - NF_REGISTRATION=yes
    - USE_FQDN_DNS=yes
    - SMF_SELECTION=yes
    - EXTERNAL_AUSF=yes
    - EXTERNAL_UDM=no
    - EXTERNAL_NSSF=no
    - NRF_IPV4_ADDRESS=192.168.70.130
    - NRF_FQDN=oai-nrf

```