



# cnSGW-C Troubleshooting

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## show subscriber and cdl show Commands

Table 1: Feature History

Feature Name	Release Information	Description
Supporting IPv6 Only eNB Insertion through Show and Clear Subscriber CLI commands	2024.02.0	<p>Before you add IPv6 only eNBs in a network, all UPFs in a mesh must be IPv6 enabled for successful handovers of IPv4 only eNB sessions to IPv6 only eNB sessions. In addition, all sessions must have V4V6 tunnel before inserting a V6 only eNB. To support this IPV6 only eNB insertion, cnSGW-c includes the following CLI commands:</p> <ul style="list-style-type: none"> <li>• The <b>show subscriber nf-service sgw data-tunnel data_tunnel_type</b> and <b>show subscriber count nf-service sgw data-tunnel data_tunnel_type</b> CLI commands</li> <li>• The <b>clear subscriber nf-service sgw data-tunnel data_tunnel_type</b> CLI command</li> </ul> <p><b>Default Setting:</b> Not Applicable</p>

This section describes troubleshooting information.

- To display the SGW subscriber information, use the following commands:

```
show subscriber namespace sgw imsi imsi_value
```

```
show subscriber nf-service sgw imsi imsi_value
```

```
show subscriber count { all }
```

```
show subscriber namespace sgw imsi 123456789012348
subscriber-details
{
  "subResponses": [
    {
      "status": true,
      "genericInfo": {
        "imsi": "imsi-123456789012348",
        "imei": "imei-123456786666660",
        "msisdn": "msisdn-223310101010101",
        "accessType": "EUTRAN",
        "plmnId": {
          "mcc": "123",
          "mnc": "456"
        },
        "sgwProfileName": "sgw1",
        "unAuthenticatedImsi": "No"
      },
      "s11cInterfaceInfo": {
        "sgwTeid": "[0x12000147] 301990215",
        "sgwIPv4Address": "209.165.201.19",
        "mmeTeid": "[0x62b5] 25269",
        "mmeIPv4Address": "209.165.201.20"
      },
      "pdnInfoList": {
        "totalPdn": 1,
        "pdnInfo": [
          {
            "pdnId": "PDN-1",
            "apn": "intershat",
            "attachType": "Initial Attach",
            "sgwRelocState": "N/A",
            "operatorPolicyName": "N/A",
            "dnnProfileName": "N/A",
            "defaultEbi": 5,
            "pdnType": "IPv4",
            "allocatedIPv4": "209.165.201.26",
            "apnSelectionMode": "Subscribed",
            "ambrUplink": "10 Kbps",
            "ambrDownlink": "20 Kbps",
            "s5cInterfaceInfo": {
              "sgwTeid": "[0x52000147] 1375732039",
              "sgwIPv4Address": "209.165.201.19",
              "pgwTeid": "[0x339a] 13210",
              "pgwIPv4Address": "209.165.201.18"
            },
            "sxaInterfaceInfo": {
              "selectedUP": "209.165.201.20",
              "upEpKey": "209.165.201.20:209.165.201.19",
              "cpSeid": "[0x1200014752000147] 1297038098512740679",
              "upSeid": "[0x2712] 10002"
            },
            "bearerInfoList": {
              "totalBearer": 1,
              "bearerInfo": [
                {
                  "bearerId": "Bearer-1",
```



```

    data-size 406
  }

```

- To display the subscriber output based on the data tunnel type, use the following command:

```
show subscriber nf-service sgw data-tunnel data_tunnel_type
```

```

show subscriber nf-service sgw data-tunnel IPV4V6
subscriber-details
{
  "subResponses": [
    [
      "id-index:1:0:32768",
      "id-index-key:1:0:globalKey:32768",
      "id-value:16777344",
      "imsi:imsi-123456789012348",
      "msisdn:msisdn-223310101010101",
      "imei:imei-123456786666660",
      "upf:10.1.12.212",
      "upfEpKey:10.1.12.212:10.1.10.78",
      "subscriber-type:non-volte",
      "s5s8Ipv4:10.1.15.100",
      "s11Ipv4:10.1.12.212",
      "data-tunnel:IPV4V6",
      "namespace:sgw",
      "nf-service:sgw"
    ]
  ]
}

```

- To display the subscriber count output based on data tunnel type, use the following command:

```
show subscriber count nf-service sgw data-tunnel data_tunnel_type
```

```

show subscriber count nf-service sgw data-tunnel IPV4V6
subscriber-details
{
  "sessionCount": 1
}

```

- To clear subscriber information, use the following commands:

```
clear subscriber all
```

```
clear subscriber nf-service sgw all
```

```

clear subscriber all
result
ClearSubscriber Request submitted

```

```

clear subscriber nf-service sgw all
result
ClearSubscriber Request submitted

```

- To clear the subscriber information using a data tunnel type, use the following command:

```
clear subscriber nf-service sgw data-tunnel data_tunnel_type
```

```

clear subscriber nf-service sgw data-tunnel IPV4V6
result
Clear subscriber request submitted successfully for GR Instance ID 1. Waiting Time is
9.351706 seconds

```