# Verifying Cloud Native BNG User Plane Configuration

This chapter describes the show commands to be executed on the router to verify cloud native BNG user plane configuration.

For details on cnBNG commands, see the *Cloud Native BNG Command Reference for Cisco ASR 9000 Series Routers*.


- Verify cnBNG NAL Process Information, on page 1
- Verify Control Plane Connection Status, on page 2
- Verify Subscriber Information, on page 3
- Verify cnBNG NAL Counters, on page 12


# Verify cnBNG NAL Process Information

You can use the following commands to verify the NAL process information on cnBNG user plane.

- 
```
Router#show cnbng-nal process-info location 0/RSP0/CPU0
Mon Aug  3 00:12:42.080 UTC

Location: 0/RSP0/CPU0

 HA Pre_Init Role          : PRIMARY
 HA Role                   : PRIMARY
 Restart-flag              : FALSE
 card_type                 : 0
 Node-Id                   : 0
 Disc-Hist File-logging    : FALSE
 Test-server config-enabled: FALSE

 Proc-flags     : 8000FFBF

    OT Connection Status: UP
    IM Connection Status: UP
    IPv4 RIB Connection Status: UP
    IPv6 RIB Connection Status: UP
    SUBDB Connection Status: UP
```

- 
```
Router#show cnbng-nal process-readiness
```

```
Mon Aug  3 00:12:00.778 UTC

Location: 0/RSP1/CPU0

NAL resync pending flags:
        Service Resync Pending
        Interface Resync Pending
        IPv4 Route Resync Pending
        IPv6 Route Resync Pending

SIR status: not ready

Location: 0/RSP0/CPU0
NAL resync pending flags:
        NONE

SIR status: ready
```

- ```
  Router#show processes cnbng_nal
  Fri Sep 11 09:22:45.139 UTC
                   Job Id: 456
                      PID: 1543

  Router#show processes memory 1543
  Fri Sep 11 09:24:12.398 UTC
  JID      Text(KB)   Data(KB)  Stack(KB) Dynamic(KB) Process
  ------ ---------- ---------- ---------- ---------- ------------------------------
  456           992    1700604        200       19999 cnbng_nal
  ```

# Verify Control Plane Connection Status

You can use the following command to verify the connection status of cnBNG control plane.

- ```
  Router#show cnbng-nal cp connection status
  Fri Feb 19 11:27:31.178 UTC

  Location: 0/RSP0/CPU0


  User-Plane configurations:
  -------------------------
  IP             : 10.105.227.96
   GTP Port       : 2152
  PFCP Port      : 8805
  VRF            : default


  Control-Plane configurations:
  ----------------------------
  PRIMARY IP     : 10.84.102.235
   GTP Port       : 2152
  PFCP Port      : 8805

   Association retry count: 10

  Connection Status: Up
  Connection Status time stamp: Thu Feb 11 12:46:19 2021
  ```

```
Connection Prev Status : Down
Connection Prev Status time stamp: Thu Feb 11 12:44:55 2021

Association status: Active
Association status time stamp: Thu Feb 11 12:46:18 2021
```

# Verify Subscriber Information

You can use the following commands to verify subscriber information on the cnBNG user plane.

-

```
Router#show cnbng-nal subscriber access-interface bundle-Ether 1.1
Mon Aug  3 00:04:42.558 UTC
=====================
Location: 0/RSP0/CPU0
=====================

               Type            PPPoE           IPoE
               ====            =====           ====

Session Counts by State:
        initializing           0               0
          connecting           0               0
           connected           0               0
           activated           0               8000
                idle           0               0
       disconnecting           0               0
              Total:           0               8000


Session Counts by Address-Family:
               none            0               0
               ipv4            0               0
               ipv6            0               8000
               dual            0               0
             Total:            0               8000


=====================
Location: 0/RSP1/CPU0
=====================

               Type            PPPoE           IPoE
               ====            =====           ====

Session Counts by State:
        initializing           0               0
          connecting           0               0
           connected           0               0
           activated           0               8000
                idle           0               0
       disconnecting           0               0
              Total:           0               8000


Session Counts by Address-Family:
               none            0               0
               ipv4            0               0
               ipv6            0               8000
```

```
                dual            0               0
               Total:           0               8000
```

- 
```
Router#show cnbng-nal subscriber all
Fri Sep 11 06:07:52.343 UTC
   Codes: CN - Connecting, CD - Connected, AC - Activated,

        ID - Idle, DN - Disconnecting, IN - Initializing



CPID(hex)Interface            State Mac Address    Subscriber IP Addr / Prefix (Vrf)
Ifhandle
-------------------------------------------------------------------------------------

1005ca0  BE2.500.ip2149474448 AC    0010.942e.3b00 13.0.92.160 (default) 0x225e60
                                                   1:4::5c9f (IANA)
                                                   2003:db0:0:5c9e::/64 (IAPD)
10053b2  BE2.500.ip2149466000 AC    0010.942e.3689 13.0.83.175 (default) 0xfdfe0
                                                   1:4::53b1 (IANA)
                                                   2003:db0:0:53b0::/64 (IAPD)
1004c81  BE2.600.ip2149013936 AC    0010.942e.5230 13.0.76.129 (default) 0x4079a0
                                                   1:4::4c80 (IANA)
                                                   2003:db0:0:4c7f::/64 (IAPD)
1004aaa  BE2.500.ip2149353232 AC    0010.942e.3205 13.0.74.169 (default) 0x5192e0
                                                   1:4::4aa9 (IANA)
                                                   2003:db0:0:4aa8::/64 (IAPD)
1004927  BE2.600.ip2149518576 AC    0010.942e.50b1 13.0.73.116 (default) 0x219ba0
                                                   1:4::4926 (IANA)
                                                   2003:db0:0:4925::/64 (IAPD)
10047e4  BE2.800.ip2149422928 AC    0010.9431.a7c7 13.0.71.228 (default) 0x41ff60
                                                   1:4::47e4 (IANA)
                                                   2003:db0:0:47e2::/64 (IAPD)
1004777  BE2.600.ip2149520224 AC    0010.942e.5021 13.0.71.115 (default) 0x41420
                                                   1:4::4776 (IANA)
                                                   2003:db0:0:4775::/64 (IAPD)
1003a6d  BE2.800.ip2149369728 AC    0010.9431.a3a1 13.0.58.105 (default) 0x141360
                                                   1:4::3a6d (IANA)
```

```
                                                2003:db0:0:3a6a::/64 (IAPD)
10038b7  BE2.600.ip2149362240 AC    0010.942e.4bb2 13.0.56.178 (default) 0x259aa0
                                                1:4::38b6 (IANA)
                                                2003:db0:0:38b5::/64 (IAPD)
10028ba  BE2.500.ip2149210768 AC    0010.942e.2873 13.0.40.185 (default) 0x129620
                                                1:4::28b9 (IANA)
                                                2003:db0:0:28b8::/64 (IAPD)
100247b  BE2.600.ip2149396320 AC    0010.942e.46a3 13.0.36.113 (default) 0x4b8e0
                                                1:4::2471 (IANA)
                                                2003:db0:0:2470::/64 (IAPD)
100207a  BE2.500.ip2149356496 AC    0010.942e.2663 13.0.32.117 (default) 0x1a9460
                                                1:4::2079 (IANA)
                                                2003:db0:0:2078::/64 (IAPD)
1001d3f  BE2.600.ip2149251360 AC    0010.942e.44d4 13.0.29.61 (default) 0xcc760
```

- 
```
Router#show cnbng-nal subscriber all summary
Sun Aug  2 16:26:44.281 UTC
=====================
Location: 0/RSP0/CPU0
=====================

                Type            PPPoE           IPoE
                ====            =====           ====

Session Counts by State:
        initializing            0               0
          connecting            0               0
           connected            0               0
           activated            0               130
                idle            0               0
       disconnecting            0               0
              Total:            0               130

Session Counts by Address-Family:
                none            0               0
                ipv4            0               130
                ipv6            0               0
                dual            0               0
              Total:            0               130

=====================

   Location: 0/RSP0/CPU0

   =====================


                   Type        PPPoE       IPoE
```

```
                ====        =====       ====


  Session Counts by State:

         initializing        0           0

           connecting        0           0

            connected        226         0

            activated        31774       0

                 idle        0           0

        disconnecting        0           0

               Total:        32000       0


  Session Counts by Address-Family:

                 none        226         0

                 ipv4        7774        0

                 ipv6        0           0

                 dual        24000       0

               Total:        32000       0
```

- 
```
Router#show cnbng-nal subscriber all detail
Mon Aug  3 00:00:14.624 UTC
Location: 0/2/CPU0
==================
Location: 0/RSP1/CPU0
==================
Interface:                Bundle-Ether1.1.ip2148413040
UPID:                     0x800e2e70
CPID:                     0x0100918f
PPPOE Session Id:         0x0000
Type:                     IPoE
IPv4 Address:             0.0.0.0
IPv4 Framed Route:
  Prefix:                 0.0.0.0/0
  Next Hop:               0.0.0.0
  Tag:                    0
IPv6 IANA Address:        1:5::345c
IPv6 IAPD Prefix:         2004:cd0:0:188d::/64
CPE link local Address:   ::
IPv6 Framed Route:
  Prefix:                 ::/0
  Next Hop:               ::
  Tag:                    0
IPv6 State:               UP, Sat Jul 25 02:09:55 2020
Mac Address:              5065.aaab.d864
Inner VLAN ID:            Not Set
Outer VLAN ID:            100
```

```
Outer VLAN Cos:            0
Outer VLAN DEI:            1
Created:                   Sat Jul 25 02:09:54 2020
State:                     Activated
Ifhandle:                  0x000b75a0
VRF:                       default
Access-interface:          Bundle-Ether1.1
 Attribute List: 0x5556aed3f878
1:  ipv6-enable     len=  4  value= 1(1)
2:  ipv4-unnumbered len=  9  value= Loopback1
3:  strict-rpf      len=  4  value= 1(1)
4:  ipv6-strict-rpf len=  4  value= 1(1)
5:  ipv4-icmp-unreachable len=  4  value= 1(1)
6:  ipv6-unreachable len=  4  value= 1(1)
7:  ipv4-mtu        len=  4  value= 1500(5dc)
8:  ipv6-mtu        len=  4  value= 1500(5dc)
Session Accounting:        enabled
Interim Interval:          1800 secs
Last interim timestamp:    Sun Aug  2 23:39:46 2020
Interim fail count: None
Last interim failed reason: NA
Last stats:
  BytesIn: 0
  BytesOut: 384570
  BytesInGiga: 0
  BytesOutGiga: 0
Feature IDs activated :
  0x800e2e71
  0x800e2e72
```

- 

```
Router#show cnbng-nal subscriber type ipoe summary
Mon Aug  3 00:06:15.032 UTC
=====================
Location: 0/RSP0/CPU0
=====================

                Type            PPPoE           IPoE
                ====            =====           ====

Session Counts by State:
        initializing            0               0
          connecting            0               0
           connected            0               0
           activated            0               8000
                idle            0               0
       disconnecting            0               0
               Total:           0               8000

Session Counts by Address-Family:
                none            0               0
                ipv4            0               0
                ipv6            0               8000
                dual            0               0
              Total:            0               8000

=====================
Location: 0/RSP1/CPU0
=====================

                Type            PPPoE           IPoE
                ====            =====           ====

Session Counts by State:
```

```
        initializing           0               0
          connecting           0               0
           connected           0               0
           activated           0               8000
                idle           0               0
       disconnecting           0               0
              Total:           0               8000

Session Counts by Address-Family:
               none            0               0
               ipv4            0               0
               ipv6            0               8000
               dual            0               0
              Total:           0               8000

Router#
```

- 
```
Router#show cnbng-nal subscriber type pppoe summary
Mon Aug  3 00:06:15.032 UTC
=====================
Location: 0/RSP0/CPU0
=====================

               Type            PPPoE           IPoE
               ====            =====           ====

Session Counts by State:
        initializing           0               0
          connecting           0               0
           connected           0               0
           activated           31031           0
                idle           0               0
       disconnecting           0               0
              Total:           31031           0

Session Counts by Address-Family:
               none            0               0
               ipv4            31031           0
               ipv6            0               0
               dual            0               0
              Total:           31031           0

Router#
```

- 
```
Router#show cnbng-nal subscriber disconnect-history unique
Mon Aug  3 00:07:22.716 UTC

Location: 0/RSP1/CPU0

| Count|       Last Interface        | Disconnected Reason |            Last Time
                                                                        Disconnected

 Location: 0/1/CPU0
 Location: 0/RSP0/CPU0

| Count|       Last Interface        | Disconnected Reason |            Last Time
                                                                        Disconnected
35494    Bundle-Ether1.1.ip2148328848  Disconnect by CP                 Sat Jul 25
                                                                        02:04:55 2020

14154    Bundle-Ether1.1.ip2148324096  Disconnect by clear CLI          Sat Jul 25
                                                                        02:05:48 2020
```

```
 2777    Bundle-Ether1.1.ip2148194512  Disconnect due to create failure Sat Jul 25
                                                                        01:38:29 2020
```

- 
```
Router#show cnbng-nal subscriber disconnect-history last location
Mon Aug  3 00:08:42.655 UTC

Disconnect-reason:         Disconnect by clear CLI
Disconnect-timestamp:      Sat Jul 25 02:05:48 2020
  Message Txn ID: 55663
  Session Txn ID: 1
  Failed at: Sat Jul 25 01:57:03 2020
  Feature Mask: 0x0
  SVM State: 0
  IPSUB flags: 0x600a200
  Pending callback: 0x2
  Data:

Interface:                 Bundle-Ether1.1.ip2148324096
UPID:                      0x800cd300
CPID:                      0x01007bd8
PPPOE Session Id:          0x0000
Type:                      IPoE
IPv4 Address:              0.0.0.0
IPv4 Framed Route:
  Prefix:                  0.0.0.0/0
  Next Hop:                0.0.0.0
  Tag:                     0
IPv6 IANA Address:         1:5::3de5
IPv6 IAPD Prefix:          2004:cd0:0:616::/64
CPE link local Address:    ::
IPv6 Framed Route:
  Prefix:                  ::/0
  Next Hop:                ::
  Tag:                     0
IPv6 State:                UP, Sat Jul 25 01:57:03 2020
Mac Address:               5065.aaab.cfbb
Inner VLAN ID:             Not Set
Outer VLAN ID:             100
Outer VLAN Cos:            0
Outer VLAN DEI:            1
Created:                   Sat Jul 25 02:05:48 2020
State:                     Init
Ifhandle:                  0x000323a0
VRF:                       default
Access-interface:          Bundle-Ether1.1
 Attribute List: 0x559125764408
1:  ipv6-enable     len=  4  value= 1(1)
2:  ipv4-unnumbered len=  9  value= Loopback1
3:  strict-rpf      len=  4  value= 1(1)
4:  ipv6-strict-rpf len=  4  value= 1(1)
5:  ipv4-icmp-unreachable len=  4  value= 1(1)
6:  ipv6-unreachable len=  4  value= 1(1)
7:  ipv4-mtu        len=  4  value= 1500(5dc)
8:  ipv6-mtu        len=  4  value= 1500(5dc)
Session Accounting:        enabled
Interim Interval:          1800 secs
Last interim timestamp:    Sat Jul 25 02:05:47 2020
Interim fail count: None
Last interim failed reason: NA
Last stats:
  BytesIn: 0
  BytesOut: 540
  BytesInGiga: 0
  BytesOutGiga: 0
```

```
Feature IDs activated :
  0x800cd301
  0x800cd302

[Event History]
UPID:  0x800cd300

| Event Name               | Time Stamp             | S, M
| Create                   | Jul 25 01:57:02.999679 | 0, 0
| New Session Request      | Jul 25 01:57:02.999686 | 0, 0
| Interface create         | Jul 25 01:57:02.999823 | 0, 0
| SVM create               | Jul 25 01:57:03.018268 | 0, 0
| UP Install(req)          | Jul 25 01:57:03.018321 | 0, 0
| UP Install(CB)           | Jul 25 01:57:03.019220 | 0, 0
| Last Assoc(req)          | Jul 25 01:57:03.019232 | 0, 0
| Last Assoc(CB)           | Jul 25 01:57:03.020160 | 0, 1
| Produce done(req)        | Jul 25 01:57:03.020233 | 0, 0
| IPv4 Caps Up             | Jul 25 01:57:03.188034 | 0, 0
| IPv6 Caps Up             | Jul 25 01:57:03.233210 | 0, 0
| Init data req            | Jul 25 01:57:03.254482 | 0, 1
| Init data cb             | Jul 25 01:57:03.369027 | 0, 1
| Client Session up        | Jul 25 01:57:03.379152 | 0, 0
| Produce done             | Jul 25 01:57:03.977629 | 0, 0
| IPv6 Up                  | Jul 25 01:57:03.977643 | 0, 0
| Session up notified      | Jul 25 01:57:03.977650 | 0, 0
| Stats start              | Jul 25 01:57:03.977841 | 0, 0
| Disconnect notified      | Jul 25 02:05:47.548202 | 0, 0
| Disconnect ack           | Jul 25 02:05:47.550293 | 0, 0
| IPv4 Caps Down           | Jul 25 02:05:47.652232 | 0, 0
| IPv6 Caps Down           | Jul 25 02:05:47.652333 | 0, 0
| Final stats              | Jul 25 02:05:47.753805 | 0, 0
| SVM delete               | Jul 25 02:05:47.780713 | 0, 0
| SVM cleanup              | Jul 25 02:05:48.283050 | 0, 0
Help: S - Sticky Event, M - Multiple Occurrence
```

- 

```
Router#show cnbng-nal subscriber fadb
Mon Aug  3 00:03:12.858 UTC

Location: 0/RSP1/CPU0
==================

UPID:       0x800ec810
Service-ID: 0x04000003  Service-Name: JHV_VOICE
Feature-ID: 0x800ec812
 Attribute List: 0x559cba6d0008
1:  feature-acct-bitmask len=  4  value= 805306413(3000002d)
Accounting:               enabled
Interim fail count: None
Last interim failed reason: None
Last stats:
  BytesIn: 0
  BytesOut: 0
  BytesInGiga: 0
  BytesOutGiga: 0

UPID:       0x800e9470
Service-ID: 0x04000003  Service-Name: JHV_VOICE
Feature-ID: 0x800e9472
 Attribute List: 0x559cba6d0008
1:  feature-acct-bitmask len=  4  value= 805306413(3000002d)
Accounting:               enabled
Interim fail count: None
Last interim failed reason: None
```

```
Last stats:
  BytesIn: 0
  BytesOut: 0
  BytesInGiga: 0
  BytesOutGiga: 0

UPID:       0x800e7ee0
Service-ID: 0x04000003  Service-Name: JHV_VOICE
Feature-ID: 0x800e7ee2
 Attribute List: 0x559cba6d0008
1:  feature-acct-bitmask len=  4  value= 805306413(3000002d)
Accounting:               enabled
Interim fail count: None
Last interim failed reason: None
Last stats:
  BytesIn: 0
  BytesOut: 0
  BytesInGiga: 0
  BytesOutGiga: 0

UPID:       0x800e16e0
Service-ID: 0x04000004  Service-Name: LIVE_TV
Feature-ID: 0x800e16e1
 Attribute List: 0x559cba6d0008
1:  feature-acct-bitmask len=  4  value= 0(0)
Accounting:               disabled
Interim fail count: None
Last interim failed reason: None
Last stats:
  BytesIn: 0
  BytesOut: 0
  BytesInGiga: 0
  BytesOutGiga: 0

UPID:       0x800dda90
Service-ID: 0x04000003  Service-Name: JHV_VOICE
Feature-ID: 0x800dda91
 Attribute List: 0x559cba6d0008
1:  feature-acct-bitmask len=  4  value= 805306413(3000002d)
Accounting:               enabled
Interim fail count: None
Last interim failed reason: None
Last stats:
  BytesIn: 0
  BytesOut: 0
  BytesInGiga: 0
  BytesOutGiga: 0

UPID:       0x800dd4e0
Service-ID: 0x04000004  Service-Name: LIVE_TV
Feature-ID: 0x800dd4e1
 Attribute List: 0x559cba6d0008
1:  feature-acct-bitmask len=  4  value= 0(0)
Accounting:               disabled
Interim fail count: None
Last interim failed reason: None
Last stats:
  BytesIn: 0
  BytesOut: 0
  BytesInGiga: 0
  BytesOutGiga: 0
```

# Verify cnBNG NAL Counters

You can use the following commands to verify various NAL counters on the cnBNG user plane:

- ```
  Router#show cnbng-nal counters type all
  Sun Aug  2 20:42:49.548 UTC

  Location: 0/RSP0/CPU0

  Subscriber Counters
  -------------------

  Counter name                      Value
  ============                      =====
  INTF Delete                       500
  IPv4 caps down                    500
  IPv6 caps down                    500
  IPv4 Rou del                      500
  IPv6 Rou del                      500
  Blkdis q empty                    1
  DB cache hit                      17113

  Error Counters
  --------------

  Counter name                      Value
  ============                      =====

  Accounting Counters
  -------------------

  Counter name                      Value
  ============                      =====
  Sess Stop req                     500
  Feat Stop req                     500
  Stop req                          3000
  Stop cb                           3000
  Final cb                          3000
  Feat Final cb                     500
  Sess Final cb                     2500

  SVM Counters
  ------------

  Counter name                      Value
  ============                      =====
  Sess deleted                      500
  Delete CB                         500
  Feat deleted                      1000
  Cleanup                           500
  Sess stats, before svm            500
  Feat stats, before svm            500

  SPA Counters
  ------------

  Counter name                      Value
  =============                     =====
  SPA Delete Req                    500
  SPA Update Req                    500
  Sub Delete Res                    500
  ```
  ```

```
Sub Update Res                    500
Blkdic adm more                   39
GTPu pkt sent                     1000
PFCP pkt sent                     1463
GTPu pkt punt                     500
PFCP pkt punt                     1463
DHCPv4 pkt punt                   500
DHCPv6 pkt punt                   500
DHCPv6 pkt inj                    500
Alloc count                       3463
Free count                        3463
Mutex lock                        6741
Mutex unlock                      6741
Timer start                       463
Timer expiry                      463
Sub Update IPOE OK                500
Sub Delete IPOE OK                500

CP Recon Counters
------------------

Counter name                      Value
=============                     =====

Histogram/API Performance Stats
-------------------------------

API name       1ms       10ms  100ms  1s  5s  10s  20s  50s  100s
========       ===       ====  =====  ==  ==  ===  ===  ===  ====
Per trans      410       90    0      500 0   0    0    0    0
Sub Create     0         0     0      0   0   0    0    0    0
Sub Update     445       55    0      0   0   0    0    0    0
Sub Delete     0         0     0      500 0   0    0    0    0
IPOE Int Crt   0         0     0      0   0   0    0    0    0
IPOE Int Upd   0         0     0      0   0   0    0    0    0
IPOE Int Del   0         0     0      500 0   0    0    0    0
PPPOE Int Crt  0         0     0      0   0   0    0    0    0
PPPOE Int Upd  0         0     0      0   0   0    0    0    0
PPPOE Int Del  0         0     0      0   0   0    0    0    0
Sess Create    0         0     0      0   0   0    0    0    0
Sess Update    0         0     0      0   0   0    0    0    0
Sess Delete    0         0     10     490 0   0    0    0    0
V4 RT Inst     0         0     0      0   0   0    0    0    0
V4 RT Del      0         6     320    174 0   0    0    0    0
V4 FR Inst     0         0     0      0   0   0    0    0    0
V4 FR Del      0         0     0      0   0   0    0    0    0
V6 RT Inst     0         0     0      0   0   0    0    0    0
V6 RT Del      0         6     310    184 0   0    0    0    0
V6 PD RT Inst  0         0     0      0   0   0    0    0    0
V6 PD RT Del   0         0     0      0   0   0    0    0    0
V6 FR Inst     0         0     0      0   0   0    0    0    0
V6 FR Del      0         0     0      0   0   0    0    0    0
CDM Lookup     0         0     0      0   0   0    0    0    0
CDM Insert     0         0     0      0   0   0    0    0    0
CDM Update     1469      31    0      0   0   0    0    0    0
Eval Lookup    0         0     0      0   0   0    0    0    0
```

- 
```
Router#show cnbng-nal counters type all | beg SPA LIB
Sun Aug  2 20:44:07.902 UTC
SPA LIB Counters
----------------

Counter name                      Value
```

```
=============                       =====
pfcp_rx_counter                     6899
pfcp_tx_counter                     6900
gtpu_tx_counter                     9048
gtpu_rx_counter                     7510
pfcp_keepalive_tx_counter           891
pfcp_keepalive_rx_counter           890

SPA API counters
----------------------
```

- 

```
Router#show cnbng-nal counters type spa
Sun Aug  2 20:42:13.703 UTC

Location: 0/RSP0/CPU0

SPA Counters
------------

Counter name                        Value
=============                       =====
SPA Delete Req                      500
SPA Update Req                      500
Sub Delete Res                      500
Sub Update Res                      500
Blkdic adm more                     39
GTPu pkt sent                       1000
PFCP pkt sent                       1461
GTPu pkt punt                       500
PFCP pkt punt                       1461
DHCPv4 pkt punt                     500
DHCPv6 pkt punt                     500
DHCPv6 pkt inj                      500
Alloc count                         3461
Free count                          3461
Mutex lock                          6727
Mutex unlock                        6727
Timer start                         461
Timer expiry                        461
Sub Update IPOE OK                  500
Sub Delete IPOE OK                  500
```