

5000系列的ASR “显示会话进展”在已连接APNs的仅HSGW报道一(如果超过一个)给的IMSI的

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简介

此条款说明在之间会话计数的差异显示sub并且显示会话进展on命令HSGW。

呼叫ID是在ASR5K平台用于的实体代表呼叫会话。在信息包数据网络网关(PGW)上，有每应用程序点名称(APN)连接的唯一呼叫ID特定的用户国际移动会话标识符的(IMSI)。相反地，在eHRPD服务网关(HSGW)，所有APNs共享IMSI的同一呼叫ID。因为请显示SUB子APN关于呼叫ID基本类型的会话进展进展报告，和，因此计数比比较更低PGW并且不反射APNs总数。

说明

在PGW，APN连接为show subscriber命令的同样IMSI分开计数与互相，并且“请显示会话进展”。这是单个用户的示例连接三不同APNs，并且分配三独立的呼叫ID。注释呼叫ID的值可以是接近的在给的IMSI的接近度。

```
[local] PGW>PGW imsi 311480131055555
09 13:41:24 UTC 2015
+----- (w) - pgw-gtp-ipv4 (y) - pgw-gtp-ipv6
|           (z) - pgw-gtp-ipv4-ipv6 (x) - pgw-pmip-ipv4
|           (u) - pgw-pmip-ipv6 (v) - pgw-pmip-ipv4-ipv6
|           () -
|
|+----- (u) - (G) - GERAN
||           (w) - WLAN (n) -
||           (u) - HSPA(e) - eUTRAN
||           (h) - eHRPD () -
||
||+----- (c) - (c) -
|||           (d) - (u) -
|||
|||+-----PLMN           (h) - (v) -
|||           (r) - (u) -
|||
|||+----- (d) - (e) -
|||
|||+ (a) -IMSI (u) -IMSI
|||+ (o) -IMEI (n) -
|||
```

```

|||||
||||| (l) -
||||| (S) - ()
||||| (u) -
||||| |
||||| |
||||| +-----+
||||| EBI-----+ |
||||| | |
vvvvvvv CALLID IMSI/IMEI v v IP APN TIME-IDLE
-----
YECHDN 4d9c05f3 311480131055555 0052600:5555:8007:71a5:0:4d:9c05:f301
APN1 00h16m27s
ZECHDN 4d9c0c9e 311480131055555 0062600:5555:b02f:6bec:0:4d:9c0c:9e01
100.123.165.246 APN2 00h00m43s
ZECHDN 4da040b5 311480131055555 0072600:5555:9006:9f:0:4d:a040:b501
10.150.22.115 APN3 00h00m45s

```

在以下输出中，长期演变(LTE) (gtp)和演变的高速率数据包数据(eHRPD) (pmip)计数在PGW被看到。值可以被确认之间显示子总和并且显示会话进展：

```

[local] PGW> show subscriber

          3822449

:                3822449                0

pdsn-simple-ipv4                0pdsn-simple-ipv6                0

PDSNIP                0ha-mobile-ipv6                0

hsgw-ipv6                0hsgw-ipv4                0

hsgw-ipv4-ipv6                0pgw-pmip-ipv6                258454

pgw-pmip-ipv4                209pgw-pmip-ipv4-ipv6                220120

pgw-gtp-ipv6                1793806pgw-gtp-ipv4
          6701

pgw-gtp-ipv4-ipv6                1543679sgw-gtp-ipv6
          0

[local] PGW>

3821347

6909@ PDN-TYPE-IPv4 CONNECTED

2051456@ PDN-TYPE-IPv6 CONNECTED

1762878@ PDN-TYPE-IPv4+IPv6 CONNECTED

```

因此：

1793806 + 258454 = 2052260

1543679 + 220120 = 1763799

HSGWIDIMSIAPNsRRQAAA (STa) HSGWIMSIPPP VSNCP APN APNs (PDN)IMSIHSGW

APNsAPNHSGWIP(IPv4,IPv6IPv4+IPv6)

```
[HSGWin] HSGW>sub
+----- (S) - PDSNIP (m) - PDSNIP (h) - HAIP
|         (p) - GGSN pdpPPP (h) - HA ipsec (n) - lns-l2tp
|         (i) - ggsn-pdp-type-ipv4 (a) - asngwIP (G) - IPSP
|         (v) - ggsn-pdp-type-ipv6 (b) - asngwIP (c) - cscf SIP
|         (z) - ggsn-pdp-type-ipv4v6
|         (r) - sgw-gtp-ipv4 (o) - sgw-gtp-ipv6 (q) - sgw-gtp-ipv4-
ipv6
|         (w) - pgw-gtp-ipv4 (y) - pgw-gtp-ipv6 (z) - pgw-gtp-ipv4-
ipv6
|         (@) - saegw-gtp-ipv4 (#) - saegw-gtp-ipv6 ($) - saegw-gtp-
ipv4-ipv6
|         (&) - cgw-gtp-ipv4 (^) - cgw-gtp-ipv6 (*) - cgw-gtp-ipv4-
ipv6
|         (p) - sgsn pdpPPP (s) - sgsn (4) - sgsn pdpIP
|         (6) - sgsn-pdp-type-ipv6 (2) - sgsn-pdp-type-ipv4-ipv6
|         (l) - pdifIP (k) - pdifIP (o) - femto IP
|         (f) -fa (j) - asngw
|         (e) - GGSNmbms ue (i) - asnpc (u) - pdg-ipsec-ipv4
|         (e) - ha-mobile-ipv6 (t) - pdg SSL (v) - pdg-ipsec-ipv6
|         (f) - hnbgw-hnb (g) - hnbgw iu (x) - s1-mme
|         (a) - phsgwIP (b) - phsgwIP asngw(y) -
|         (j) - phsgw(c) - phspc (k) - PCC
|         (x) - HSGW (n) - ePDG (t) - hnbgw-ue
|         (m) - hnbgw-henb (q) - wsgIP (r) - samog-pmip
|         (d) - bngIP (l) - PGWpmip (u) -
|         (+) - samog-eogre
|
|+----- (x) - CDMA 1xRTT (e) - GPRS GERAN (i) - IP
||         (d) - CDMA EV-DO (u) - WCDMA (w) -
||         (a) - CDMA EV-DO(G) - GPRS(m) - WiMax
||         (c) - CDMA(n) -(o) - Femto IPsec
||         (p) - PDIF (S) - HSPA (l) - eHRPD
||         (t) - eUTRAN (b) - PPPoE (f) - FEMTO
||         (h) - PHS (q) - WSG () -/
||
||+---- (c) - (c) -
|||     (d) - (u) -
|||         (r) - CSCF(r) - CSCF
|||         (u) - CSCF
|||
|||+-- (a) - (n) -
||||  CSCF () -
```

```

|||||
|||||
|||||+(a) -/(d) -/
|||||
|||||
|||||+Network (i) - IP (m) - Mobile-ip (l) - L2TP
||||| (p) -IP (i) - IPIP (G) - GRE
||||| (v) - IPv6-in-IPv4 (S) - IPSEC (c) - GTP
||||| (a) - R4 (IP-GRE) (t) - IPv6 (u) -
||||| (w) - PMIPv6(IPv4) (y) - PMIPv6(IPv4+IPv6) (r) - IPv4+IPv6
||||| (v) - PMIPv6(IPv6) (/) - GTPv1(For SAMOG) (+) - GTPv2(For
SAMOG)
|||||
|||||
vvvvvv CALLID MSIDIP
-----

```

```

XLCNDv 00004e76 311286039685555 6311480126445555@nai.epc.mnc480.mcc311.3gppnetwork.org
2600:5555:8020:334c:0:e:b6b5:aa01
XLCNDY 00004e76 311286039685555 6311480126445555@nai.epc.mnc480.mcc311.3gppnetwork.org
2600:5555:b027:6f8e:0:e:b6cd:1a01 100.121.59.239

```

```

XLCNDv 0000501c 311289787584444 6311480085164444@nai.epc.mnc480.mcc311.3gppnetwork.org
2600:5555:8027:c7da:0:20:996b:cd01
XLCNDY 0000501c 311289787584444 6311480085164444@nai.epc.mnc480.mcc311.3gppnetwork.org
2600:5555:b020:1fbc:0:20:996c:4201 100.82.205.107

```

““hsgw-ipv6...”SIMPLE-IPv6

hsgw-ipv4-ipv6SIMPLE-IPv4+IPv6hsgw-ipv6SIMPLE-IPv6IMSIPv4/IPv6-based APNSIMPLE-IPv4+IPv6IPv6-based APN (IMS)SIMPLE-IPv6SIMPLE-IPv6IPv4+IPv6 (IPv4)IMSAPNIMSIIIMSIIID HSGW

[HSGWin] HSGW>

460307

: 39756 420551

hsgw-ipv6 247972hsgw-ipv4 1632

hsgw-ipv4-ipv6 209968 pgw-pmip-ipv6 0

[HSGWin] HSGW>

255045

20713

234332

811@ LCP-NEG

84@ LCP-UP

276@

0@ BCMCS

270@

72@ SIMPLE-IPv4 CONNECTED

43944@ SIMPLE-IPv6 CONNECTED

209555@ SIMPLE-IPv4+IPv6 CONNECTED

当查看输出从与仅一连接的IMSI的一个组合HSGW-PGW LAB节点与三APNs时，以上使明白。显示子汇总报告所有六SUB塞申斯，三HSGW的和三PGW的。基础差异是HSGW会话全部共享同一呼叫ID，而为PGW呼叫ID是唯一。

同时为“请显示会话进展”，四呼叫报告，三在PGW的APNs的，并且一个人在HSGW的IPv4+IPv6的APN哪些有效代表全部三个HSGW APNs，给总共四会话而不是实际六报告由显示子命令。

```
[local] ASR#
```

```
6
```

```
:60
```

```
hsgw-ipv6 1hsgw-ipv4 1
```

```
hsgw-ipv4-ipv6 1pgw-pmip-ipv6 1
```

```
pgw-pmip-ipv4 1pgw-pmip-ipv4-ipv6 1
```

```
[local] ASR#
```

```
4
```

```
4
```

```
1@ SIMPLE-IPv4+IPv6 CONNECTED<<HSGW
```

```
1@ PDN-TYPE-IPv4 CONNECTED
```

```
1@ PDN-TYPE-IPv6 CONNECTED
```

```
1@ PDN-TYPE-IPv4+IPv6 CONNECTED
```