

说明“显示子概略的”统计

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简介

本文描述什么看来是在计数报告与“显示子概略的”命令的用户的一不一致。通常计数从“显示子摘要”加起来到“完全用户”计数的所有用户类型在顶部。然而，用户的投入的和默认持票人和使用的存在某些限定符能导致不匹配的计数多种用户类型什么为“完全用户”预计。

说明通过示例

计数投入和VoLTE用户的默认持票人

一旦在长期演变(VoLTE)的语音，有IP多媒体系统(IMS)应用程序点名称的(APN)一个专用和默认持票人对所有VoLTE呼叫设置是重要的。“请由一个显示子summ”增量每个唯一用户的“完全用户”字段的，即使每个用户有两个持票人。但是，事实每个用户有两个持票人在CLI的小节捕获。例如，请注意此处计数pgw-gtp-ipv6代表计数IMS的APN专用和默认持票人，而总数只捕获事实两个持票人是为同样IMS APN。这进一步被确认由实际上列出各自的持票人的PGW限定符，但是类似非PGW版本，只有计数一个用户一次每APN通过总字段。

这些示例从包括LTE的信息包数据网络网关(PGW)采取和改进的高速率数据包数据(eHRPD)呼叫类型。

注意pgw-gtp-ipv6 (LTE) + pgw-pmip-ipv6 (eHRPD) -共计专用的持票人=托塔尔Sub

```
[local]PGW> show sub summ apn ims  
Sunday August 23 03:58:07 UTC 2015
```

Total Subscribers:	1851827		
Active:	1851827	Dormant:	0
hsgw-ipv4-ipv6:	0	pgw-pmip-ipv6:	285069
pgw-pmip-ipv4:	0	pgw-pmip-ipv4-ipv6:	0
pgw-gtp-ipv6:	1567307	pgw-gtp-ipv4:	0

```
[local]PGW> show sub pgw-only summ apn ims  
Sunday August 23 03:58:08 UTC 2015
```

Total Subscribers	: 1851820		
Total Home	: 1851816	Total Visitors	: 4
Total Roamers	: 0	Total S6b Assume Positive	: 0
Total Bearers	: 1567308		
Total Default Bearers	: 1566761	Total Dedicated Bearers	: 547

```
Total PDNs by RAT-Type
EUTRAN          : 1566761      UTRAN          : 0
GERAN           : 0           WLAN           : 0
OTHER           : 285059
```

```
pmip-pdn-type-ipv4      : 0
pmip-pdn-type-ipv6      : 285059
pmip-pdn-type-ipv4-ipv6 : 0
gtp-pdn-type-ipv4       : 0
gtp-pdn-type-ipv6       : 1567308
```

此首席均等应用“显示sub” summ，不用任何限定符。

65 + 1567327 + 285074 + 235124 + 1653 = 3430145 - 547 (专用的持票人) = 3429598 ~=
3429614

```
[local]PGW> show sub summ
Sunday August 23 03:58:07 UTC 2015
```

```
Total Subscribers:      3429614
Active:                  3429614      Dormant:          0
LAPI Devices:           0
pdsn-simple-ipv4:       0           pdsn-simple-ipv6: 0
pdsn-mobile-ip:         0           ha-mobile-ipv6:   0
hsgw-ipv6:              0           hsgw-ipv4:        0
hsgw-ipv4-ipv6:         0           pgw-pmip-ipv6:    285074
pgw-pmip-ipv4:          65          pgw-pmip-ipv4-ipv6: 235124
pgw-gtp-ipv6:           1567327      pgw-gtp-ipv4:     1653
pgw-gtp-ipv4-ipv6:     1340902      sgw-gtp-ipv6:     0
```

这是更加确切，当您由请通过专用的持票人传递语音数据QCI = 1的VoLTE用户时合格。在这种情况下
下请注意pgw-gtp-ipv6是双完全用户，因为计数专用并且默认每个VOLTE用户的持票人。

```
[local]PGW> show sub summ apn ims qci 1
Sunday August 23 04:34:57 UTC 2015
```

```
Total Subscribers:      302
Active:                  302      Dormant:          0
LAPI Devices:           0
pdsn-simple-ipv4:       0           pdsn-simple-ipv6: 0
pdsn-mobile-ip:         0           ha-mobile-ipv6:   0
hsgw-ipv6:              0           hsgw-ipv4:        0
hsgw-ipv4-ipv6:         0           pgw-pmip-ipv6:    0
pgw-pmip-ipv4:          0           pgw-pmip-ipv4-ipv6: 0
pgw-gtp-ipv6:           605          pgw-gtp-ipv4:     0
```

```
[local]PGW> show sub pgw-only summ apn ims qci 1
Sunday August 23 04:34:58 UTC 2015
```

```
Total Subscribers      : 302
Total Home              : 302      Total Visitors      : 0
Total Roamers           : 0       Total S6b Assume Positive : 0
Total Bearers           : 605
Total Default Bearers   : 302      Total Dedicated Bearers : 303
```

```
Total PDNs by RAT-Type
EUTRAN          : 302      UTRAN          : 0
GERAN           : 0       WLAN           : 0
OTHER           : 0
```

```

pmip-pdn-type-ipv4      : 0
pmip-pdn-type-ipv6      : 0
pmip-pdn-type-ipv4-ipv6 : 0
gtp-pdn-type-ipv4       : 0
gtp-pdn-type-ipv6       : 605

```

计数专用并且默认共享同样callid的持票人

一相关示例是，当您由callid时列出用户。单个callid代表给的APN的所有持票人，而共享该callid的所有持票人(2)获得列出/单个计数。同时总字段一次只增加为了代表APN的所有那些持票人。在本例中，IMS默认持票人ID= 5和IMS投入持票人ID= 7。

```

[local]PGW> show sub callid 0000d532
Sunday August 23 04:39:54 UTC 2015

```

vvvvvv	CALLID	MSID	USERNAME	IP	TIME-IDLE
YTCNAT	0000d532	320490143033837	0320490143033837@nai.epc.mnc490.mcc320.3gppnetwork.org		
		2600:5555:801a:1bee::d5:3201		00h38m02s	
YTCNAT	0000d532	320490143033837	0320490143033837@nai.epc.mnc490.mcc320.3gppnetwork.org		
		2600:5555:801a:1bee::d5:3201		00h38m02s	

```

[local]PGW> show sub summ callid 0000d532
Sunday August 23 04:39:56 UTC 2015

```

Total Subscribers:	1		
Active:	1	Dormant:	0
LAPI Devices:	0		
pdsn-simple-ipv4:	0	pdsn-simple-ipv6:	0
pdsn-mobile-ip:	0	ha-mobile-ipv6:	0
hsgw-ipv6:	0	hsgw-ipv4:	0
hsgw-ipv4-ipv6:	0	pgw-pmip-ipv6:	0
pgw-pmip-ipv4:	0	pgw-pmip-ipv4-ipv6:	0
pgw-gtp-ipv6:	2	pgw-gtp-ipv4:	0

```

[local]PGW> show sub pgw-only callid 0000d532
Sunday August 23 04:39:57 UTC 2015

```

vvvvvv	CALLID	IMSI/IMEI	v	v IP	APN	TIME-IDLE
YECHDN	0000d532	3204900143033837	005	L 2600:5555:801a:1bee::d5:3201	ims	00h38m05s
YECHEH	0000d532	3204900143033837	007	L 2600:5555:801a:1bee::d5:3201	ims	00h38m05s

```

[local]PGW> show sub pgw-only summ callid 0000d532
Sunday August 23 04:39:59 UTC 2015

```

Total Subscribers	: 1		
Total Home	: 1	Total Visitors	: 0
Total Roamers	: 0	Total S6b Assume Positive	: 0
Total Bearers	: 2		
Total Default Bearers	: 1	Total Dedicated Bearers	: 1
Total PDNs by RAT-Type			
EUTRAN	: 1	UTRAN	: 0
GERAN	: 0	WLAN	: 0
OTHER	: 0		
pmip-pdn-type-ipv4	: 0		
pmip-pdn-type-ipv6	: 0		
pmip-pdn-type-ipv4-ipv6	: 0		

```
gtp-pdn-type-ipv4      : 0
gtp-pdn-type-ipv6      : 2
```

适用于专用/默认持票人与所有用户限定符的混合

最后，很可能最混乱的示例是应用在持票人级别以及到用户所有一个接一个的地方使用的多限定符。在本例中，第三限定符被添加缩小为极大比一个天(86400秒)连接的用户。因为此示例也使用代表VoLTE用户的QCI 1，也许预计命中数列表是空的，因为多少个人是在呼叫请求非常地比24个小时？但是结果不是真和操作如可能已预期。即结果不是为极大比一个天连接的IMS VoLTE会话，作为该编号可能是0。反而，结果是有一VoLTE会话的所有IMS用户，并且默认IMS或专用的(VoLTE)的地方IMS会话是UP为极大比一个天(前面哪些不会是不常见)。

在此输出中，连接时间极大比限定符对比在默认IMS持票人的一个天连接的极大的用户限制输出，与，不用不考虑已连接的呼叫时间的限定符比较。

```
[local]PGW> show sub summ apn ims qci 1 connected-time greater-than 86400
Sunday August 23 05:18:23 UTC 2015
```

Total Subscribers:	113		
Active:	113	Dormant:	0
LAPI Devices:	0		
pdsn-simple-ipv4:	0	pdsn-simple-ipv6:	0
pdsn-mobile-ip:	0	ha-mobile-ipv6:	0
hsgw-ipv6:	0	hsgw-ipv4:	0
hsgw-ipv4-ipv6:	0	pgw-pmip-ipv6:	0
pgw-pmip-ipv4:	0	pgw-pmip-ipv4-ipv6:	0
pgw-gtp-ipv6:	226	pgw-gtp-ipv4:	0

```
[local]PGW> show sub summ apn ims qci 1
Sunday August 23 05:18:52 UTC 2015
```

Total Subscribers:	248		
Active:	248	Dormant:	0
LAPI Devices:	0		
pdsn-simple-ipv4:	0	pdsn-simple-ipv6:	0
pdsn-mobile-ip:	0	ha-mobile-ipv6:	0
hsgw-ipv6:	0	hsgw-ipv4:	0
hsgw-ipv4-ipv6:	0	pgw-pmip-ipv6:	0
pgw-pmip-ipv4:	0	pgw-pmip-ipv4-ipv6:	0
pgw-gtp-ipv6:	497	pgw-gtp-ipv4:	0

这是与完整输出的一示例比一个天满足极大已连接时间标准的一个给的用户的。

Note:互联网APN默认的连接时间是在一些分钟内，在您输入命令后，因此您可以肯定它是比导致此用户报告。的一个天的默认IMS持票人(已连接星期五八月7 20:01:23)满足标准已连接极大

```
[local]PGW> show sub apn ims qci 1 connected-time greater-than 86400
Monday August 10 12:04:29 UTC 2015
```

vvvvvv	CALLID	MSID	USERNAME	IP	TIME-
-----	-----	-----	-----	-----	-----
YTCNAT	00eff501	320490127668665	0320490127668665@nai.epc.mnc490.mcc320.3gppnetwork.org		
	2600:5555:8001:9ccb::eff5:101	00h00m00s			

```
[local]PGW> show sub pgw-only full imsi 320490127668665
Monday August 10 12:06:38 UTC 2015
```

Username: 0320490127668665@nai.epc.mnc490.mcc320.3gppnetwork.org

Subscriber Type : Home
Status : Online/Active
State : Connected
Connect Time : Fri Aug 7 20:01:23 2015

Auto Delete : No

Idle time : 00h00m00s
MS TimeZone : -4:00 Daylight Saving Time: +1 hour

Access Type: gtp-pdn-type-ipv6 Network Type: IPv6
Access Tech: eUTRAN pgw-service-name: PGW1
Callid: 00eff501 IMSI: 320490127668665
MSISDN: 16036860864
Interface Type: S5S8GTP Low Access Priority: N/A
Emergency Bearer Type: N/A
IMS-media Bearer: No
S6b Auth Status: Enabled
Access Peer Profile: default
Acct-session-id (C1): 42AE14C2013B7181
ThreeGPP2-correlation-id (C2): 01C250B4 / 0t-G0QsS
Card/Cpu: 1/1 Sessmgr Instance: 4

Bearer Type: Default Bearer-Id: 5
Bearer State: Active
IP allocation type: N/A
IPv6 allocation type: local pool
IP address: 2600:5555:8001:9ccb::eff5:101

...

S5/S8/S2b/S2a-APN: ims
SGi-APN: ims

Bearer QoS:
QCI: 5

...

Username: 0320490127668665@nai.epc.mnc490.mcc320.3gppnetwork.org

Subscriber Type : Home
Status : Online/Active
State : Connected
Connect Time : Mon Aug 10 11:52:51 2015

Auto Delete : No

Idle time : 00h00m00s
MS TimeZone : -4:00 Daylight Saving Time: +1 hour

Access Type: gtp-pdn-type-ipv6 Network Type: IPv6
Access Tech: eUTRAN pgw-service-name: PGW1
Callid: 00eff501 IMSI: 320490127668665
MSISDN: 16036860864
Interface Type: S5S8GTP Low Access Priority: N/A
Emergency Bearer Type: N/A
IMS-media Bearer: Yes
S6b Auth Status: Enabled
Access Peer Profile: default
Acct-session-id (C1): 42AE14C2013E4AF6
ThreeGPP2-correlation-id (C2): 01C250B4 / 0t-G0QsS
Card/Cpu: 1/1 Sessmgr Instance: 4

Bearer Type: Dedicated Bearer-Id: 7
Bearer State: Active
IP allocation type: N/A

IPv6 allocation type: local pool
IP address: 2600:5555:8001:9ccb::eff5:101

...

S5/S8/S2b/S2a-APN: ims
SGi-APN: ims

Bearer QoS:
QCI: 1

Username: 0320490127668665@nai.epc.mnc490.mcc320.3gppnetwork.org

Subscriber Type : Home
Status : Online/Active
State : Connected
Connect Time : Mon Aug 10 11:51:24 2015

Auto Delete : No

Idle time : 00h15m14s
MS TimeZone : -4:00 Daylight Saving Time: +1 hour

Access Type: gtp-pdn-type-ipv4-ipv6 Network Type: IPV4+IPV6
Access Tech: eUTRAN pgw-service-name: PGW1
Callid: 00f2c514 IMSI: 320490127668665
MSISDN: 15556860864
Interface Type: S5S8GTP Low Access Priority: N/A
Emergency Bearer Type: N/A
IMS-media Bearer: No
S6b Auth Status: Enabled
Access Peer Profile: default
Acct-session-id (C1): 42AE14C2013E4AC5
ThreeGPP2-correlation-id (C2): 01C520A2 / 0umaajjh
Card/Cpu: 1/1 Sessmgr Instance: 4

Bearer Type: Default Bearer-Id: 6
Bearer State: Active
IP allocation type: local pool
IPv6 allocation type: local pool
IP address: 2600:5555:b027:b408::f2c5:1401, 100.84.110.26

...

S5/S8/S2b/S2a-APN: internet
SGi-APN: internet

Bearer QoS:
QCI: 8
ARP: 0x069

Total subscribers matching specified criteria: 3