

CUPS UP — 选项34 (CSS数据) 输出在监控协议/用户中不可见

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简介

本文档介绍监控协议/用户在控制和用户平面分离(CUPS)用户平面(UP)上关于选项34呼叫搜索空间(CSS)数据的行为，其中行为从传统非CUPS系统更改。

问题

在传统非CUPS中，当为监控协议/用户启用选项34 (CSS数据) 时，将打印发往增强计费服务(ECS)模块或从该模块发送的数据包。

```
MONITOR GLOBAL PROTOCOLS:
```

```
11 - SNMP 21 - L2TP (Admin only)
12 - RADIUS Authentication (Admin only) 22 - L2TPMGR (Admin only)
13 - RADIUS Accounting (Admin only) 23 - L2TP Data (Admin only)
14 - All (R-P Interface) (Admin only) 24 - GTPC (Admin only)
15 - Mobile IPv4 (Admin only) 25 - TACACS (Admin only)
16 - AllMGR (Admin only) 26 - GTPU (Admin only)
17 - PPP (Admin only) 27 - GTPP (Admin only)
18 - A10 (Admin only) 28 - DHCP (Admin only)
19 - User L3 (Admin only) 29 - CDR (Admin only)
20 - USERTCP STACK (Admin only) 30 - DHCPV6 (Admin only)
31 - RADIUS COA (Admin only) 51 - SCTP (Admin only)
32 - MIP Tunnel (Admin only) 52 - M3UA (Admin only)
33 - L3 Tunnel (Admin only) 53 - SCCP (Admin only)
> 34 - CSS Data (Admin only) 54 - TCAP (Admin only)
35 - CSS Signaling (Admin only) 55 - MAP (Admin only)
```

传统非CUPS PGW的输出示例如下：

```
Sunday May 02 2021
```

```
<<<
```

```
CSS Uplink Output PDU to ACS- slot:2 cpu:17 inst:4369
```

```
192.168.0.177 > 192.168.3.1: icmp: echo request (DF) (ttl 64, id 45402, len 84)
```

```
Sunday May 02 2021
```

```
***CONTROL*** 11:22:22:165 Eventid:77202
```

```
Rule matched : DEFAULT for uplink packet of subscriber MSID : 593440538564309
```

```
Sunday May 02 2021
```

```
INBOUND>>>>> 11:22:22:165 Eventid:77001(9)
```

```
CSS Uplink Input PDU from ACS- slot:3 cpu:34 inst:8738
```

```
192.168.0.177 > 192.168.3.1: icmp: echo request (DF) (ttl 64, id 45402, len 84)
```

CUPS UP34

Wednesday May 12 2021

CONTROL 03:46:03:656 Eventid:77203

Rule matched : DEFAULT for uplink packet of subscriber CallID : 0x3e02061

((VPP)),CUPS UP 3419L3ECSSGi26 (GTPU) 19L3



/GTPU2619SGiTCP

MSS19NO GTPU2sessmgrGTPUVPPGTPUL3ECS219CUPSCUPSCUPS:

Wednesday May 12 2021

INBOUND>>>> 03:46:03:652 Eventid:142004(3)

GTPU Rx PDU, from fe80:192:168:1::3:2152 to fe80:10:200:1::100:2152 (92) TOS:0

TEID: 0x0000200E, Message type: GTP_TPDU_MSG (0xFF)

Sequence Number:: NA

GTP HEADER FOLLOWS:

Version number: 1

Protocol type: 1 (GTP C/U)

Message Type: 0xFF (GTP_TPDU_MSG)

Message Length: 0x0054 (84)

Tunnel ID: 0x0000200E

GTP HEADER ENDS.

Payload protocol: IPv4

PROTOCOL PAYLOAD FOLLOWS:

192.168.1.1 > 192.168.205.1: icmp: echo request (DF) (ttl 64, id 1521, len 84)

PROTOCOL PAYLOAD ENDS.

Wednesday May 12 2021

INBOUND>>>> 03:46:03:652 Eventid:51000(0)

IPv4 Rx PDU

192.168.1.1 > 192.168.205.1: icmp: echo request (DF) (ttl 64, id 1521, len 84)

Wednesday May 12 2021

CONTROL 03:46:03:656 Eventid:77203

Rule matched : DEFAULT for uplink packet of subscriber CallID : 0x3e02061

Wednesday May 12 2021

<<<

IPv4 Tx PDU

192.168.205.1 > 192.168.1.1: icmp: echo reply (DF) (ttl 64, id 11245, len 84)

Wednesday May 12 2021

CONTROL 03:46:03:658 Eventid:77203

Rule matched : DEFAULT for downlink packet of subscriber CallID : 0x3e02061

Wednesday May 12 2021

<<<

IPv4 Tx PDU
192.168.205.1 > 192.168.1.1: icmp: echo reply (DF) (ttl 64, id 11245, len 84)
CUPS:
Sunday May 02 2021
INBOUND>>>> 11:22:22:165 Eventid:142004(3)
GTPU Rx PDU, from 192.168.1.4:2152 to 192.168.10.1:2152 (92) TOS:0
TEID: 0x800CA001, Message type: GTP_TPDU_MSG (0xFF)
Sequence Number:: NA
GTP HEADER FOLLOWS:
Version number: 1
Protocol type: 1 (GTP C/U)
Message Type: 0xFF (GTP_TPDU_MSG)
Message Length: 0x0054 (84)
Tunnel ID: 0x800CA001
GTP HEADER ENDS.
Payload protocol: IPv4
PROTOCOL PAYLOAD FOLLOWS:
192.168.0.177 > 192.168.3.1: icmp: echo request (DF) (ttl 64, id 45402, len 84)
PROTOCOL PAYLOAD ENDS.

Sunday May 02 2021
INBOUND>>>> 11:22:22:165 Eventid:51000(0)
IPv4 Rx PDU
192.168.0.177 > 192.168.3.1: icmp: echo request (DF) (ttl 64, id 45402, len 84)

Sunday May 02 2021
<<<
CSS Uplink Output PDU to ACS- slot:2 cpu:17 inst:4369
192.168.0.177 > 192.168.3.1: icmp: echo request (DF) (ttl 64, id 45402, len 84)

Sunday May 02 2021
CONTROL 11:22:22:165 Eventid:77202
Rule matched : DEFAULT for uplink packet of subscriber MSID : 593440538564309

Sunday May 02 2021
INBOUND>>>> 11:22:22:165 Eventid:77001(9)
CSS Uplink Input PDU from ACS- slot:3 cpu:34 inst:8738
192.168.0.177 > 192.168.3.1: icmp: echo request (DF) (ttl 64, id 45402, len 84)

Sunday May 02 2021
<<<
IPv4 Tx PDU
192.168.3.1 > 192.168.0.177: icmp: echo reply (ttl 64, id 56260, len 84)

Sunday May 02 2021
<<<
CSS Downlink Output PDU to ACS- slot:2 cpu:17 inst:4369
192.168.3.1 > 192.168.0.177: icmp: echo reply (ttl 64, id 56260, len 84)

Sunday May 02 2021
CONTROL 11:22:22:166 Eventid:77202
Rule matched : DEFAULT for downlink packet of subscriber MSID : 593440538564309

Sunday May 02 2021
INBOUND>>>> 11:22:22:166 Eventid:77003(9)
CSS Downlink Input PDU from ACS- slot:3 cpu:34 inst:8738
192.168.3.1 > 192.168.0.177: icmp: echo reply (ttl 64, id 56260, len 84)

Sunday May 02 2021
<<<
GTPU Tx PDU, from 192.168.10.1:2152 to 192.168.1.4:2152 (92) TOS:0
TEID: 0x60010896, Message type: GTP_TPDU_MSG (0xFF)
Sequence Number:: NA

GTP HEADER FOLLOWS:

Version number: 1

Protocol type: 1 (GTP C/U)

Message Type: 0xFF (GTP_TPDU_MSG)

Message Length: 0x0054 (84)

Tunnel ID: 0x60010896

GTP HEADER ENDS.

Payload protocol: IPv4

PROTOCOL PAYLOAD FOLLOWS:

192.168.3.1 > 192.168.0.177: icmp: echo reply (ttl 63, id 56260, len 84)

PROTOCOL PAYLOAD ENDS.