

解釋ASR 5000和ASR 5500上LAG的show port CLI的輸出

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(LAG)show port npu countersshow port utilization tableportLAGLAGNPULAGStarOS v18

由於設計/架構限制，埠npu計數器的報告僅限於將LAG組中的所有埠合併在一起，而不是在單個埠級別。這不適用於繼續按預期報告的埠資料鏈路計數器。

由於LAG的實施要求LAG中的所有埠都處於活動狀態，因此「show port utilization table」報告所有LAG埠的利用率，無論它們是ASR 5000/5500的分佈埠（活動埠）還是約定埠（備用埠）。符號：通常約定埠不顯示流量，但存在約定埠的Rx和/或Tx方向也承載流量的情況（不是本文的主題，只是指出它）。

同時，對於非LAG埠，ASR 5000與ASR 5500的報告值之間存在差異。ASR 5000不報告備用埠的利用率，而ASR 5500報告備用埠的利用率（即使這些埠在操作上已關閉）

與前面提到的情況一致，LAG的「show port table」報告所有埠處於運行狀態，而非LAG報告僅埠對的活動埠處於運行狀態。

對於「show port npu counters」，列出所有LAG埠，但以下情況為真：

- ASR 5000:

- 主（已配置）埠下的計數器是所有當前活動埠的總計數
- 所有其他連線埠（包括主要連線埠對）的計數器不相關，不應使用

- ASR 5500:

- 主埠及其備用埠下的計數器是所有當前活動埠的總計數（它們報告的值相似，但略有不同 — 使用任一）
- 所有其它埠的計數均為0

對於非LAG埠，僅報告活動埠的計數器。備用埠甚至未列在NPU級別的輸出中（從未列過）。

輸出範例

此處的輸出支援先前的解釋。它基於如下硬體配置：

ASR 5000:LAG埠19/20、23/26、27/28和非LAG埠21/37

ASR 5500:LAG埠5/10、11、15、16;6/10、11、15、16和非LAG埠5/28和6/28、5/29和6/29

提醒：本文的重點是LAG埠的計數器。

ASR 5000

```
***** show port utilization *****
Wednesday May 28 12:28:04 UTC 2014

----- Average Port Utilization (in mbps) -----
Port   Type
-----
Current          5min          15min
Rx      Tx      Rx      Tx      Rx      Tx
-----
19/1   10G Ethernet      514    572    503    534    490    517
20/1   10G Ethernet      0      0      0      0      0      0

21/1   1000 Ethernet      0      0      0      0      0      0

23/1   10G Ethernet      460    529    448    516    431    510
26/1   10G Ethernet      0      0      0      0      0      0
27/1   10G Ethernet      674    532    634    519    619    499
28/1   10G Ethernet      0      0      0      0      0      0
```

```
***** show port table all *****
Wednesday May 28 12:28:03 UTC 2014
Port  Role Type              Admin  Oper Link State  Pair  Redundant
-----
19/1  Srvc 10G Ethernet      Enabled -   Up    -      None  LA+ 19/1
      Untagged          Enabled Up    -   Active -      -
      Tagged VLAN 2423  Enabled Up    -   Active -      -
      Tagged VLAN 2424  Enabled Up    -   Active -      -
      Tagged VLAN 2401  Enabled Up    -   Active -      -
      Tagged VLAN 2009  Enabled Up    -   Active -      -
      Tagged VLAN 2010  Enabled Up    -   Active -      -
      Tagged VLAN 2007  Enabled Up    -   Active -      -
      Tagged VLAN 2498  Enabled Up    -   Active -      -
      Tagged VLAN 2499  Enabled Up    -   Active -      -
20/1  Srvc 10G Ethernet      Enabled Up    Up    Active None  LA~ 19/1

21/1  Srvc 1000 Ethernet  Enabled -   Up    -      37/1  L2 Link
      Untagged          Enabled Down -   Active -      -
      Tagged VLAN 30    Enabled Up    -   Active -      -

23/1  Srvc 10G Ethernet  Enabled Up    Up    Active None  LA+ 19/1
26/1  Srvc 10G Ethernet  Enabled Up    Up    Active None  LA~ 19/1

27/1  Srvc 10G Ethernet  Enabled Up    Up    Active None  LA+ 19/1
28/1  Srvc 10G Ethernet  Enabled Up    Up    Active None  LA~ 19/1

37/1  Srvc 1000 Ethernet  Enabled -   Up    -      21/1  L2 Link
      Untagged          Enabled Down -   Standby -      -
      Tagged VLAN 30    Enabled Down -   Standby -      -
```

***** show port npu counters *****

Counters for port 19/1

Counter	Rx Frames	Rx Bytes	Tx Frames	Tx Bytes
Unicast	74783944546254086740066587874	69151428800023783215178712378		

Counters for port 20/1

Counter	Rx Frames	Rx Bytes	Tx Frames	Tx Bytes
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Counters for port 23/1

Counter	Rx Frames	Rx Bytes	Tx Frames	Tx Bytes
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Counters for port 26/1

Counter	Rx Frames	Rx Bytes	Tx Frames	Tx Bytes
---------	-----------	----------	-----------	----------

Counters for port 27/1

Counter	Rx Frames	Rx Bytes	Tx Frames	Tx Bytes
---------	-----------	----------	-----------	----------

Counters for port 28/1

Counter	Rx Frames	Rx Bytes	Tx Frames	Tx Bytes
---------	-----------	----------	-----------	----------

NON-LAG:

Counters for port 21/1

Counter	Rx Frames	Rx Bytes	Tx Frames	Tx Bytes
---------	-----------	----------	-----------	----------

ASR 5500

[local]PGW> show port utilization table

Sunday June 01 03:57:59 UTC 2014

Port	Type	----- Average Port Utilization (in mbps) -----					
		Current		5min		15min	
		Rx	Tx	Rx	Tx	Rx	Tx
5/10	10G Ethernet	1919	1973	1982	2066	2025	2094
5/11	10G Ethernet	1911	1751	1976	1828	2023	1883
5/15	10G Ethernet	1910	2064	1975	2064	2004	2130
5/16	10G Ethernet	1933	1943	1987	2012	2014	2019
5/28	10G Ethernet	9	69	9	70	9	71
5/29	10G Ethernet	0	0	0	0	0	0
6/10	10G Ethernet	0	0	0	0	0	0
6/11	10G Ethernet	0	0	0	0	0	0
6/15	10G Ethernet	0	0	0	0	0	0
6/16	10G Ethernet	0	0	0	0	0	0
6/28	10G Ethernet	0	0	0	0	0	0
6/29	10G Ethernet	1	0	1	10	1	11

[local]PGW> show port table all

Sunday June 01 03:58:48 UTC 2014

Port	Role	Type	Admin	Oper	Link	State	Pair	Redundant
5/10	Srvc	10G Ethernet	Enabled	-	Up	-	6/10	LA+ 5/10

```

        Untagged                Enabled Up - Active - -
        Tagged VLAN 2011         Enabled Up - Active - -
        Tagged VLAN 2405         Enabled Up - Active - -
        Tagged VLAN 2015         Enabled Up - Active - -
        Tagged VLAN 2427         Enabled Up - Active - -
        Tagged VLAN 2407         Enabled Up - Active - -
        Tagged VLAN 2455         Enabled Up - Active - -
5/11 Srvc 10G Ethernet         Enabled Up Up Active 6/11 LA+ 5/10
5/15 Srvc 10G Ethernet         Enabled Up Up Active 6/15 LA+ 5/10
5/16 Srvc 10G Ethernet         Enabled Up Up Active 6/16 LA+ 5/10

5/28 Srvc 10G Ethernet         Enabled - Up - 6/28 L2 Link
        Untagged                Enabled Up - Active - -
        Tagged VLAN 2400         Enabled Up - Active - -
5/29 Srvc 10G Ethernet         Enabled - Up - 6/29 L2 Link
        Untagged                Enabled Down - Standby - -
        Tagged VLAN 31          Enabled Down - Standby - -

6/10 Srvc 10G Ethernet         Enabled - Up - 5/10 LA~ 5/10
        Untagged                Enabled Up - Active - -
        Tagged VLAN 2011         Enabled Up - Active - -
        Tagged VLAN 2405         Enabled Up - Active - -
        Tagged VLAN 2015         Enabled Up - Active - -
        Tagged VLAN 2427         Enabled Up - Active - -
        Tagged VLAN 2407         Enabled Up - Active - -
        Tagged VLAN 2455         Enabled Up - Active - -
6/11 Srvc 10G Ethernet         Enabled Up Up Active 5/11 LA~ 5/10
6/15 Srvc 10G Ethernet         Enabled Up Up Active 5/15 LA~ 5/10
6/16 Srvc 10G Ethernet         Enabled Up Up Active 5/16 LA~ 5/10

6/28 Srvc 10G Ethernet         Enabled - Up - 5/28 L2 Link
        Untagged                Enabled Down - Standby - -
        Tagged VLAN 2400         Enabled Down - Standby - -
6/29 Srvc 10G Ethernet         Enabled - Up - 5/29 L2 Link
        Untagged                Enabled Up - Active - -
        Tagged VLAN 31          Enabled Up - Active - -

```

[local]PGW> show port npu counters

Counters for port 5/10

Counter	Rx Frames	Rx Bytes	Tx Frames	Tx Bytes
Unicast	936150697918	636869996072149	9369282682521055230987905964	

Counters for port 5/11

Counter	Rx Frames	Rx Bytes	Tx Frames	Tx Bytes
Unicast	0	0	0	0

Counters for port 5/15

Counter	Rx Frames	Rx Bytes	Tx Frames	Tx Bytes
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Counters for port 5/16

Counter	Rx Frames	Rx Bytes	Tx Frames	Tx Bytes
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Counters for port 6/10

Counter	Rx Frames	Rx Bytes	Tx Frames	Tx Bytes
Unicast	936156167721	636873912574349	9369336716261055237102737046	

Counters for port 6/11

Counter	Rx Frames	Rx Bytes	Tx Frames	Tx Bytes
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Counters for port 6/15

Counter	Rx Frames	Rx Bytes	Tx Frames	Tx Bytes
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Counters for port 6/16

Counter	Rx Frames	Rx Bytes	Tx Frames	Tx Bytes
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同樣地，此命令僅列出活動埠：

Counters for port 5/28

Counter	Rx Frames	Rx Bytes	Tx Frames	Tx Bytes
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Counters for port 6/29

Counter	Rx Frames	Rx Bytes	Tx Frames	Tx Bytes
---------	-----------	----------	-----------	----------