

解释ASR 5000和ASR 5500上LAG的show port CLI的输出

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(LAG)“show port npu counters”“show port utilization table”LAGLAGnpuLAGStarOS v18

由于设计/架构限制，端口npu计数器的报告仅限于将LAG组中的所有端口聚集在一起，而不是在单个端口级别。这不适用于继续按预期报告的端口数据链路计数器。

由于实施LAG要求LAG中的所有端口都处于活动状态，因此“show port utilization table”报告所有LAG端口的利用率，无论这些端口是为ASR 5000/5500分发（主用）端口还是同意（备用）端口。表示：通常，已同意的端口不显示流量，但有一些情况下，已同意端口的Rx和/或Tx方向也传输流量（不是本文的主题，而只是指出）。

同时，对于非LAG端口，报告的ASR 5000与ASR 5500有所不同。ASR 5000不报告备用端口的利用率，而ASR 5500报告备用端口的利用率（即使这些端口在运行中处于关闭状态）

与刚才提到的一致，LAG的“show port table”报告所有端口的运行情况为up，而非LAG，在非LAG中，只有端口对的活动端口运行正常。

对于“show port npu counters”，列出所有LAG端口，但以下情况正确：

- ASR 5000:

- 主（已配置）端口下的计数器是当前所有活动端口的总计数
- 所有其他端口（包括主端口对）的计数器不相关，不应使用

- ASR 5500:

- 主端口及其备用端口下的计数器是当前所有活动端口的TOTAL计数（它们都报告一个相似但稍有不同值 — 使用其中一个）
- 所有其他端口的计数器为0

对于NON-LAG端口，仅报告活动端口的计数器。NPU级别的输出中甚至未列出备用端口（从未列出）。

输出示例

此处的输出是支持上述解释。它基于以下硬件配置：

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

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

提醒：本文的重点是LAG端口的计数器。

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
      Untagged          Enabled Up    Up    Active -      -
      Tagged VLAN 2423  Enabled Up    Up    Active -      -
      Tagged VLAN 2424  Enabled Up    Up    Active -      -
      Tagged VLAN 2401  Enabled Up    Up    Active -      -
      Tagged VLAN 2009  Enabled Up    Up    Active -      -
      Tagged VLAN 2010  Enabled Up    Up    Active -      -
      Tagged VLAN 2007  Enabled Up    Up    Active -      -
      Tagged VLAN 2498  Enabled Up    Up    Active -      -
      Tagged VLAN 2499  Enabled Up    Up    Active -      -
20/1  Srvc 10G Ethernet      Enabled Up    Up    Active None  LA~ 19/1

21/1  Srvc 1000 Ethernet
      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
      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 |
|---------|-----------|----------|-----------|----------|
|---------|-----------|----------|-----------|----------|

Counters for port 23/1

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

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 |
|---------|-----------|----------|-----------|----------|
|---------|-----------|----------|-----------|----------|

Counters for port 5/16

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

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 |
|---------|-----------|----------|-----------|----------|
|---------|-----------|----------|-----------|----------|

Counters for port 6/15

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

Counters for port 6/16

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

同样，此命令仅列出活动端口：

Counters for port 5/28

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

Counters for port 6/29

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