

使用SNMPWalk和交換機CLI配置不匹配的「已消耗」電源內聯值

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簡介

本文描述為從網路管理系統(NMS)取得Cisco交換器介面的使用電源，而對pethMainPseConsumptionPower物件識別碼(OID)進行輪詢時的混淆。

問題

簡單網路管理協定(SNMP)OID - 1.3.6.1.2.1.105.1.3.1.1.4(pethMainPseConsumptionPower)輪詢以獲取使用功率 (瓦特) 時，返回的值與思科交換機上通常使用的CLI不匹配。

範例：

```
NMS>snmpwalk -c public -v2c 10.106.36.239 1.3.6.1.2.1.105.1.3.1.1.4
```

```
SNMPv2-SMI::mib-2.105.1.3.1.1.2.1 = Gauge32: 370
```

```
SNMPv2-SMI::mib-2.105.1.3.1.1.3.1 = INTEGER: 1
```

```
SNMPv2-SMI::mib-2.105.1.3.1.1.4.1 = Gauge32: 121
```

```
SNMPv2-SMI::mib-2.105.1.3.1.1.5.1 = INTEGER: 0
```

```
Switch#
```

```
Show power inline
```

```
Available:370.0(w)
```

```
Used:279.9(w) Remaining:90.1(w)
```

Interface	Admin	Oper	Power (Watts)	Device	Class	Max
Fa0/1	auto	off	0.0	n/a	n/a	15.4

Fa0/2	auto	off	0.0	n/a	n/a	15.4
Fa0/3	auto	off	0.0	n/a	n/a	15.4
Fa0/4	auto	off	0.0	n/a	n/a	15.4
Fa0/5	auto	on	3.3	IP Phone 7821	1	15.4
Fa0/6	auto	off	0.0	n/a	n/a	15.4
Fa0/7	auto	off	0.0	n/a	n/a	15.4
Fa0/8	auto	off	0.0	n/a	n/a	15.4
Fa0/9	auto	on	3.3	IP Phone 7821	1	15.4
Fa0/10	auto	off	0.0	n/a	n/a	15.4
Fa0/11	auto	off	0.0	n/a	n/a	15.4
Fa0/12	auto	off	0.0	n/a	n/a	15.4
Fa0/13	auto	on	3.3	IP Phone 7821	1	15.4
Fa0/14	auto	on	13.7	IP Phone DX650	4	15.4
Fa0/15	auto	on	3.3	IP Phone 7821	1	15.4

以下硬體和軟體版本中出現先前行為：

Switch Ports Model	SW Version	SW Image
* 1 52 WS-C2960+48PST-S	15.0(2)SE6	C2960-LANLITEK9-M
--		
Switch Ports Model	SW Version	SW Image
* 1 26 WS-C2960+24PC-S	15.0(2)SE6	C2960-LANLITEK9-M
--		
Switch Ports Model	SW Version	SW Image
* 1 52 WS-C2960S-48LPS-L	15.0(2)EX5	C2960S-UNIVERSALK9-M
2 52 WS-C2960S-48LPS-L	15.0(2)EX5	C2960S-UNIVERSALK9-M

解決方案

OID `pethMainPseConsumptionPower` 返回介面乙太網供電(PoE)所消耗的功率。對於像2960這樣具有功率感應和策略功能的交換機，此對象識別符號提供PoE裝置的實際功耗。您可以通過 `show power inline police` 命令看到此情況，該命令提供實際功耗以及埠單獨功耗（位於Oper Power下，結尾也是Totals下）。

```
NMS> snmpwalk -v 2c -c public 10.106.36.239 1.3.6.1.2.1.105.1.3.1.1
```

```
SNMPv2-SMI::mib-2.105.1.3.1.1.2.1 = Gauge32: 462
```

```
SNMPv2-SMI::mib-2.105.1.3.1.1.3.1 = INTEGER: 1
```

```
SNMPv2-SMI::mib-2.105.1.3.1.1.4.1 = Gauge32: 23
```

```
SNMPv2-SMI::mib-2.105.1.3.1.1.5.1 = INTEGER: 0
```

```
Switch#
```

show power inline police

Available:

462.0 (w)

Used:43.6(w) Remaining:418.4(w)

Interface	Admin State	Oper State	Admin Police	Oper Police	Cutoff Power	Oper Power
Gi0/1	auto	on	none	n/a	n/a	5.7
Gi0/2	auto	on	none	n/a	n/a	3.9
Gi0/3	auto	on	none	n/a	n/a	5.2
Gi0/4	auto	on	none	n/a	n/a	8.7
Gi0/5	auto	off	none	n/a	n/a	n/a
Gi0/6	auto	off	none	n/a	n/a	n/a
Gi0/7	auto	off	none	n/a	n/a	n/a
Gi0/8	auto	off	none	n/a	n/a	n/a
Gi0/9	auto	off	none	n/a	n/a	n/a
Gi0/10	auto	off	none	n/a	n/a	n/a
Gi0/11	auto	off	none	n/a	n/a	n/a
Gi0/12	auto	off	none	n/a	n/a	n/a
Gi0/13	auto	off	none	n/a	n/a	n/a
Gi0/14	auto	off	none	n/a	n/a	n/a
Gi0/15	auto	off	none	n/a	n/a	n/a
Gi0/16	auto	off	none	n/a	n/a	n/a
Gi0/17	auto	off	none	n/a	n/a	n/a
Gi0/18	auto	off	none	n/a	n/a	n/a
Gi0/19	auto	off	none	n/a	n/a	n/a
Interface	Admin State	Oper State	Admin Police	Oper Police	Cutoff Power	Oper Power
Gi0/20	auto	off	none	n/a	n/a	n/a
Gi0/21	auto	off	none	n/a	n/a	n/a
Gi0/22	auto	off	none	n/a	n/a	n/a
Gi0/23	auto	off	none	n/a	n/a	n/a
Gi0/24	auto	off	none	n/a	n/a	n/a
Gi0/25	auto	off	none	n/a	n/a	n/a
Gi0/26	auto	off	none	n/a	n/a	n/a
Gi0/27	auto	off	none	n/a	n/a	n/a
Gi0/28	auto	off	none	n/a	n/a	n/a
Gi0/29	auto	off	none	n/a	n/a	n/a
Gi0/30	auto	off	none	n/a	n/a	n/a
Gi0/31	auto	off	none	n/a	n/a	n/a
Gi0/32	auto	off	none	n/a	n/a	n/a
Gi0/33	auto	off	none	n/a	n/a	n/a
Gi0/34	auto	off	none	n/a	n/a	n/a
Gi0/35	auto	off	none	n/a	n/a	n/a
Gi0/36	auto	off	none	n/a	n/a	n/a
Gi0/37	auto	off	none	n/a	n/a	n/a
Gi0/38	auto	off	none	n/a	n/a	n/a
Gi0/39	auto	off	none	n/a	n/a	n/a
Gi0/40	auto	off	none	n/a	n/a	n/a
Gi0/41	auto	off	none	n/a	n/a	n/a
Interface	Admin State	Oper State	Admin Police	Oper Police	Cutoff Power	Oper Power
Gi0/42	auto	off	none	n/a	n/a	n/a
Gi0/43	auto	off	none	n/a	n/a	n/a
Gi0/44	auto	off	none	n/a	n/a	n/a
Gi0/45	auto	off	none	n/a	n/a	n/a

Gi0/46	auto	off	none	n/a	n/a	n/a
Gi0/47	auto	off	none	n/a	n/a	n/a
Gi0/48	auto	off	none	n/a	n/a	n/a

Totals:

23.4

USED電源列表表示分配給埠的PoE數量。

AVAILABLE電源列表表示系統中PoE的總量。

REMAINING POWER列表表示 (可用 — 已使用)

因此，要比較pethMainPseConsumptionPower SNMPWALK的輸出，要使用的正確命令是show power inline police。

相關資訊

[配置乙太網供電](#)