

# Configurar o valor "consumido" em linha de energia incompatível com SNMPWalk e CLI do switch

## Contents

[Introduction](#)

[Problema](#)

[Solução](#)

[Informações Relacionadas](#)

## Introduction

Este documento descreve a confusão em torno do polling do **pethMainPseConsumptionPower** Object Identifier (OID) para obter a potência de uso em uma interface de um Switch Cisco do Network Management System (NMS).

## Problema

OID do Protocolo de Gerenciamento de Rede Simples (SNMP - Simple Network Management Protocol) - 1.3.6.1.2.1.105.1.3.1.1.4 (pethMainPseConsumptionPower), quando interrogado para obter a potência de uso em Watts, retorna um valor que não corresponde à CLI geralmente usada no switch Cisco.

Exemplo:

```
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

O comportamento anterior é visto nessas versões de hardware e software:

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

## Solução

O OID **pethMainPseConsumptionPower** retorna a potência consumida pelo Power over Ethernet (PoE) para uma interface. Para um switch como o 2960 que tem capacidade de detecção e vigilância de energia, esse identificador de objeto fornece **energia real** consumida por dispositivos PoE. Você pode ver isso com o comando **show power inline police**, que fornece a potência consumida, juntamente com o consumo individual da porta (sob Oper Power e também Totals no final).

```
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

Interface	Admin State	Oper State	Admin Police	Oper Police	Cutoff Power	Oper Power
Gi0/40	auto	off	none	n/a	n/a	n/a
Gi0/41	auto	off	none	n/a	n/a	n/a
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**

A coluna **USED** power representa a quantidade de PoE alocada às portas.  
A coluna de energia **DISPONÍVEL** representa a quantidade total de PoE no sistema.  
A coluna de potência **RESTANTE** significa (Disponível - Utilizado)

Portanto, o comando correto a ser usado para comparar a saída de SNMPWALK de `pethMainPseConsumptionPower` é `show power inline police`.

## Informações Relacionadas

[Configurando Power over Ethernet](#)