

# Exemplo de gerenciamento de acesso convergido (5760/3850/3650) via infraestrutura Prime com configuração SNMP v2 e v3

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## Introduction

Este documento descreve como adicionar o acesso convergido (5760/3850/3650) à infraestrutura Prime com SNMP (Simple Network Management Protocol) v2 e v3.

## Prerequisites

### Requirements

A Cisco recomenda que você tenha conhecimento destes tópicos:

- Acesso convergido (5760/3850/3650) Cisco IOS<sup>®</sup> versão 3.3.x ou posterior ou Denali 16.x
- Prime Infrastructure versão 2.0 ou posterior

### Componentes Utilizados

Este documento não se restringe a versões de software e hardware específicas.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

## Configurar (Prime Infrastructure 2.2 e anterior)

### Configuração do SNMP v2 em um switch

#### GUI

Escolha **Configuration > Controller > Management > SNMP > Communities > New**.

**CISCO Wireless Controller** Home Monitor Configuration Administration Help

**Controller**

- System
- Internal DHCP Server
- Management
  - Protocol Management
    - SNMP
      - General
      - Communities
      - SNMP V3 Users
      - SNMP Host
    - HTTP-HTTPS
  - Technical Support
    - System Resources Information
    - Controller crash
    - CoreDump
    - AP crash
- Mobility Management
  - Mobility Global Config
  - Mobility Peer
  - Switch Peer Group
- mDNS

**SNMP v1/v2c Community**

New Remove

Community Name	Status
No data available	

**CISCO Wireless Controller** Home Monitor Configuration Administration Help

**Controller**

- System
- Internal DHCP Server
- Management
  - Protocol Management
    - SNMP
      - General
      - Communities
      - SNMP V3 Users
      - SNMP Host
    - HTTP-HTTPS
  - Technical Support
    - System Resources Information
    - Controller crash
    - CoreDump
    - AP crash
- Mobility Management
  - Mobility Global Config
  - Mobility Peer
  - Switch Peer Group
- mDNS

**SNMP v1/v2c Community**

SNMP v1/v2c Community > New

Community Name

Access Mode

CLI

Insira os seguintes comandos:

```
conf t
```

```
snmp-server community V2Community RW
```

## Configuração SNMP v3 em um switch

CLI

Insira os seguintes comandos:

```
conf t
```

```
snmp-server group V3Group v3 auth read V3Read write V3Write
```

```
snmp-server user V3User V3Group v3 auth sha Password1 priv aes 128 Password1
```

```
snmp-server view V3Read iso included
```

```
snmp-server view V3Write iso included
```

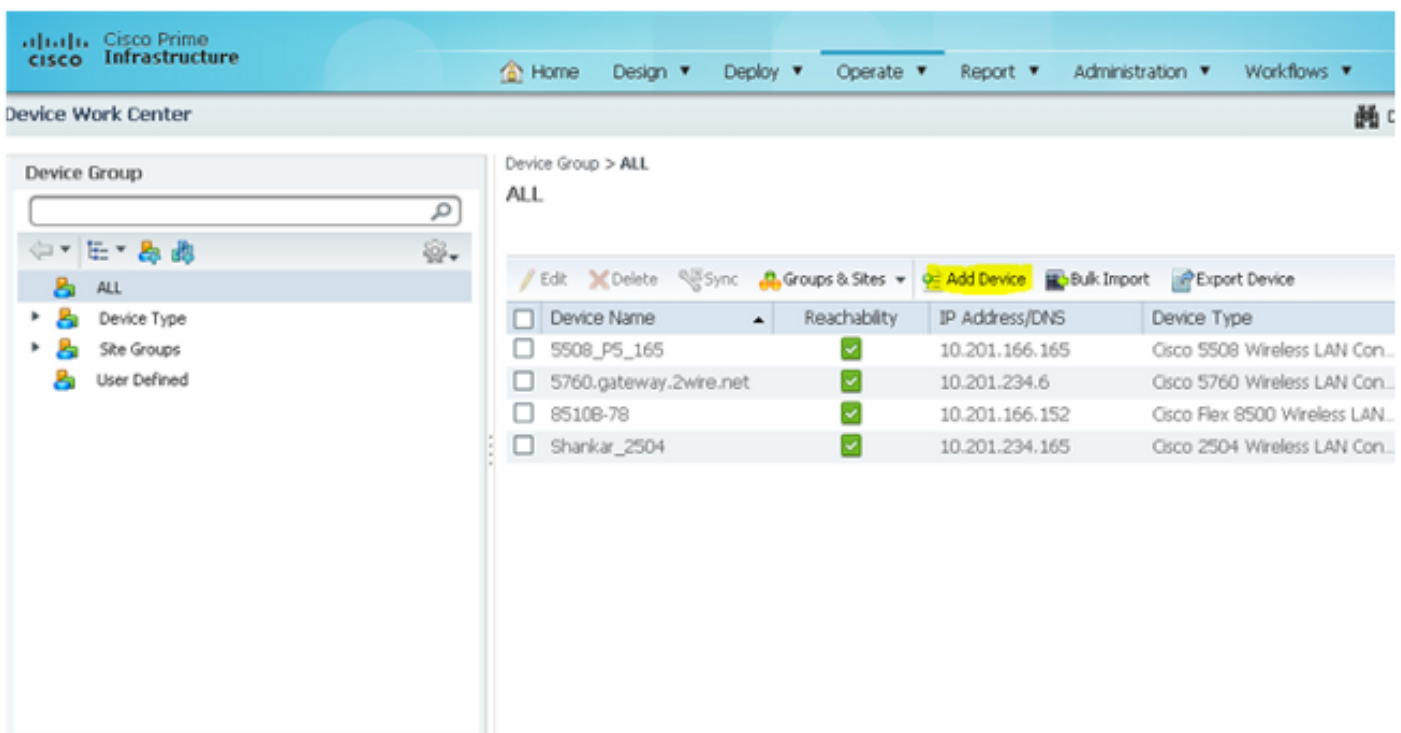
```
snmp-server host 10.201.234.170 version 3 auth V3User
```

```
snmp-server enable traps
```

## Prime Infrastructure

Note: Use a visualização do ciclo de vida.

Escolha Operate > Device Work Center > Add Device.



The screenshot shows the Cisco Prime Infrastructure web interface. The top navigation bar includes Home, Design, Deploy, Operate, Report, Administration, and Workflows. The main content area is titled "Device Work Center" and shows a "Device Group > ALL" view. A table lists several devices with their names, reachability status, IP addresses, and device types.

Device Name	Reachability	IP Address/DNS	Device Type
5508_PS_165	✓	10.201.166.165	Cisco 5508 Wireless LAN Con...
5760.gateway.2wire.net	✓	10.201.234.6	Cisco 5760 Wireless LAN Con...
85108-78	✓	10.201.166.152	Cisco Flex 8500 Wireless LAN...
Shankar_2504	✓	10.201.234.165	Cisco 2504 Wireless LAN Con...

SNMP v2

## Add Device

### ▼ General Parameters \*

IP Address

DNS Name

### ▼ SNMP Parameters

Version

\* Retries

\* Timeout  (secs)

\* Community  ?

\* Confirm Community

### ▼ Telnet/SSH Parameters

Protocol

\* Timeout  (secs)

Username

Password

Confirm Password

Enable Password

Confirm Enable Password

Add

Cancel

SNMP v3

### Add Device

▼ General Parameters \*

IP Address

DNS Name

---

▼ SNMP Parameters

Version

\* Retries

\* Timeout  (secs)

Username

Auth. Type

Auth. Password

Privacy Type

Privacy Password

---

▼ Telnet/SSH Parameters

Protocol

\* Timeout  (secs)

Username

Password

**Note:** Se os parâmetros Telnet/Secure Shell não forem inseridos, o Prime Infrastructure não coletará inventário do switch.

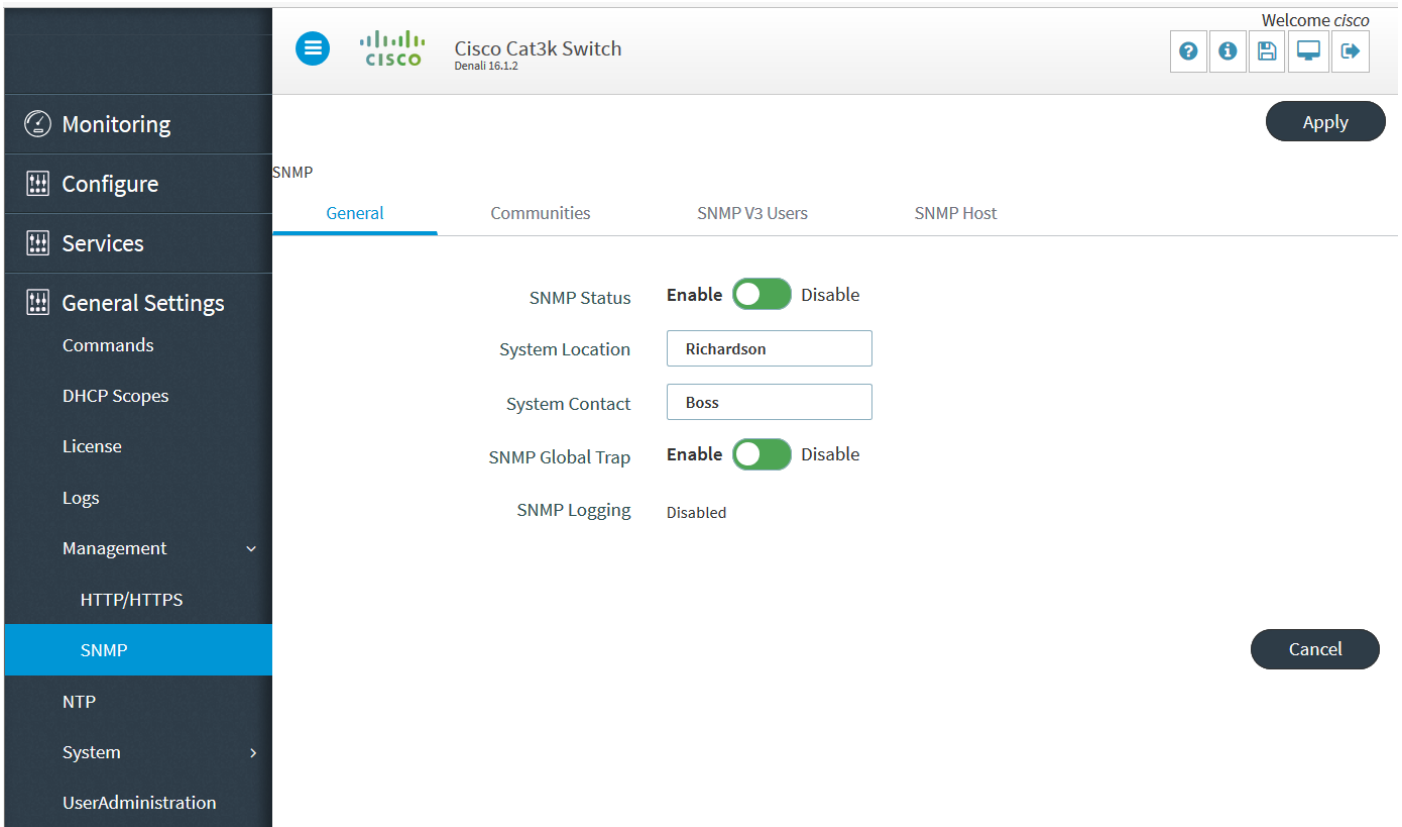
## Configurar (Prime Infrastructure 3.x e posterior)

### Configuração SNMP em um switch (Denali 16.x)

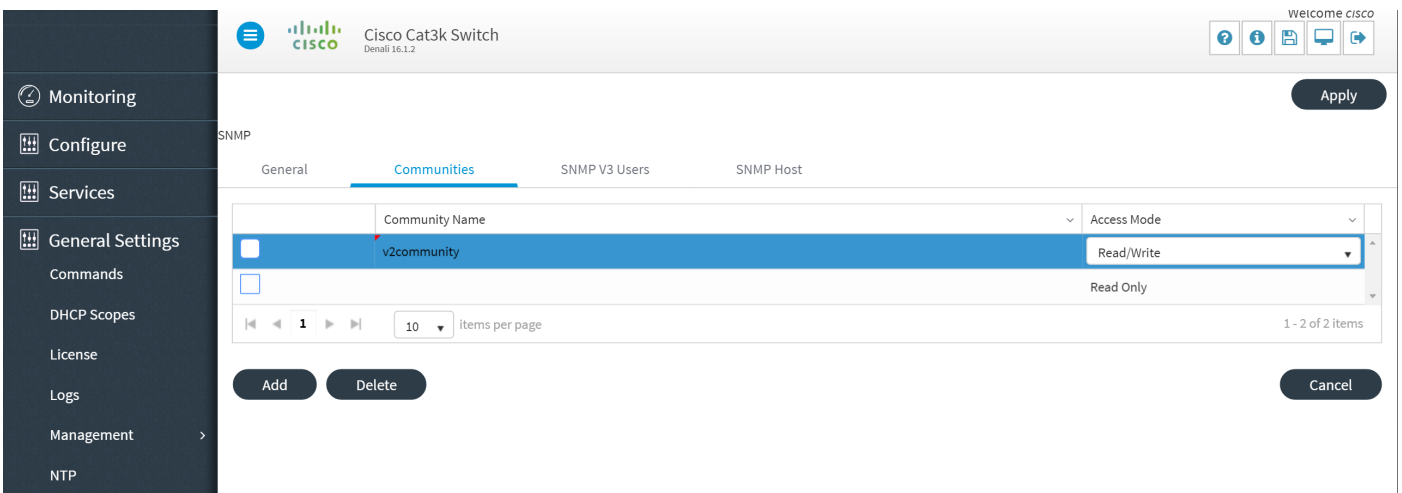
#### GUI

Escolha **General Settings > Management > SNMP**.

Habilite o **SNMP**.



## Configuração de SNMP v2 GUI em um switch (Denali 16.x)



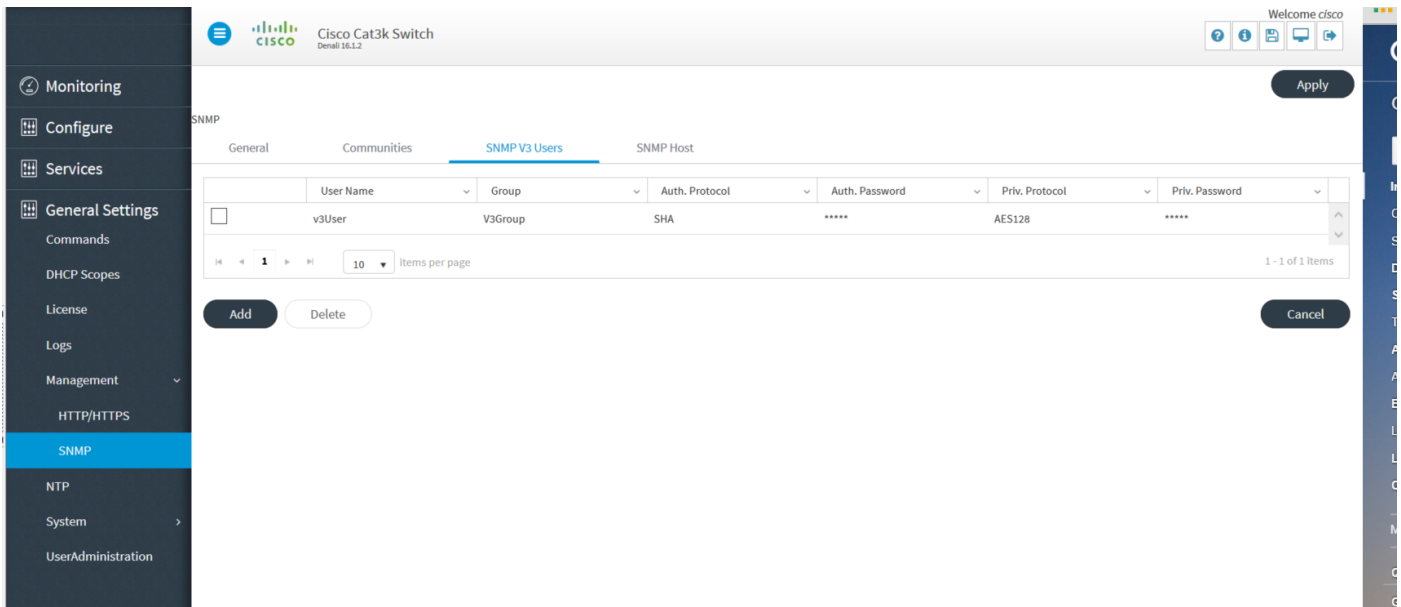
## CLI SNMP v2 Configuration on a Switch (Denali 16.x)

Insira os seguintes comandos:

```
conf t
```

```
snmp-server community V2Community RW
```

## Configuração de SNMP v3 GUI em um switch (Denali 16.x)



## CLI SNMP v3 Configuration on a Switch (Denali 16.x)

Insira os seguintes comandos:

```
conf t
```

```
snmp-server user V3user V3Group v3 auth sha Password1 priv aes 128 Password1
```

```
snmp-server view V3Read iso included
```

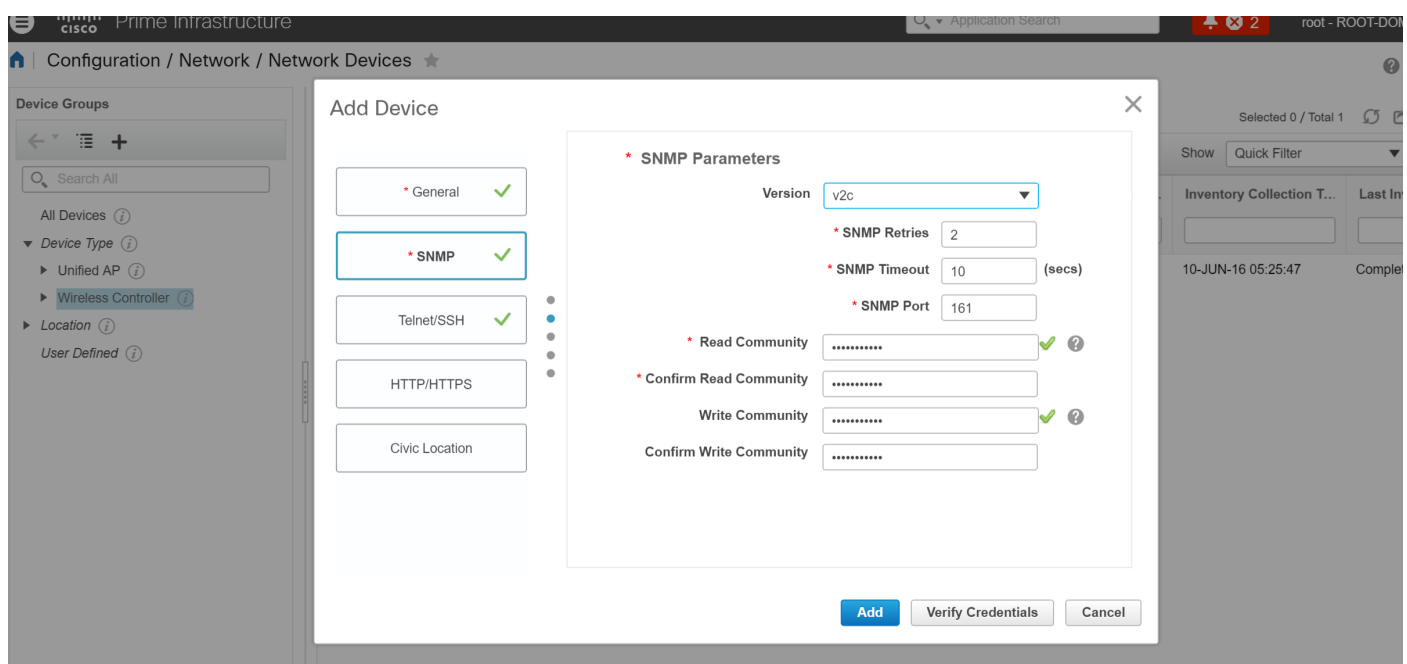
```
snmp-server view V3Write iso included
```

```
snmp-server host 10.201.236.107 version 3 auth V3user
```

```
snmp-server enable traps
```

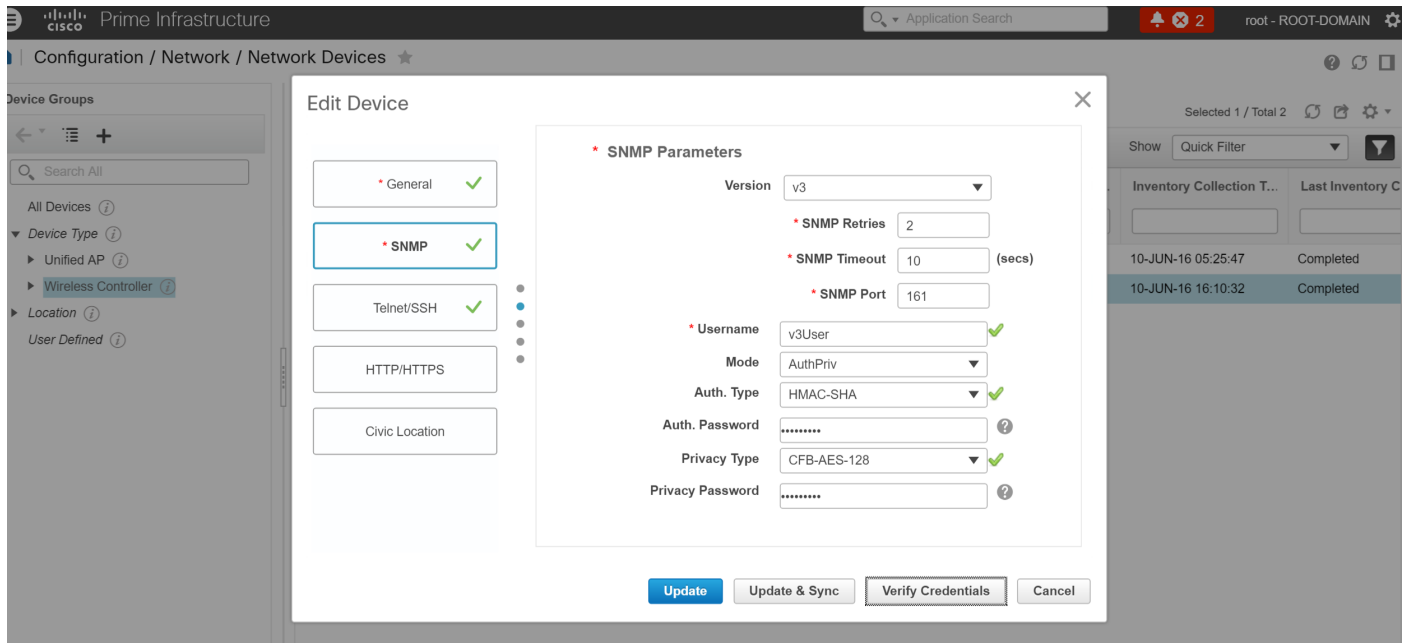
## Prime Infrastructure

### SNMP v2





## SNMP v3



## Verificar

Use esta seção para confirmar se a sua configuração funciona corretamente.

O Cisco CLI Analyzer (somente clientes registrados) aceita alguns comandos show. Use o Cisco CLI Analyzer para visualizar uma análise da saída do comando show.

## Configuração SNMP v2 em um switch (Cisco IOS-XE)

Digite este comando:

```
5760-79b#show snmp community
```

```
Community name: V2Community
Community Index: V2Community
Community SecurityName: V2Community
storage-type: nonvolatile          active
```

## Configuração SNMP v3 em um switch (Cisco IOS-XE)

Insira os seguintes comandos:

```
5760-79b#show snmp user
```

```
User name: V3User
Engine ID: 80000009030068BC0C5A8F80
storage-type: nonvolatile          active
Authentication Protocol: SHA
Privacy Protocol: AES128
Group-name: V3Group
```

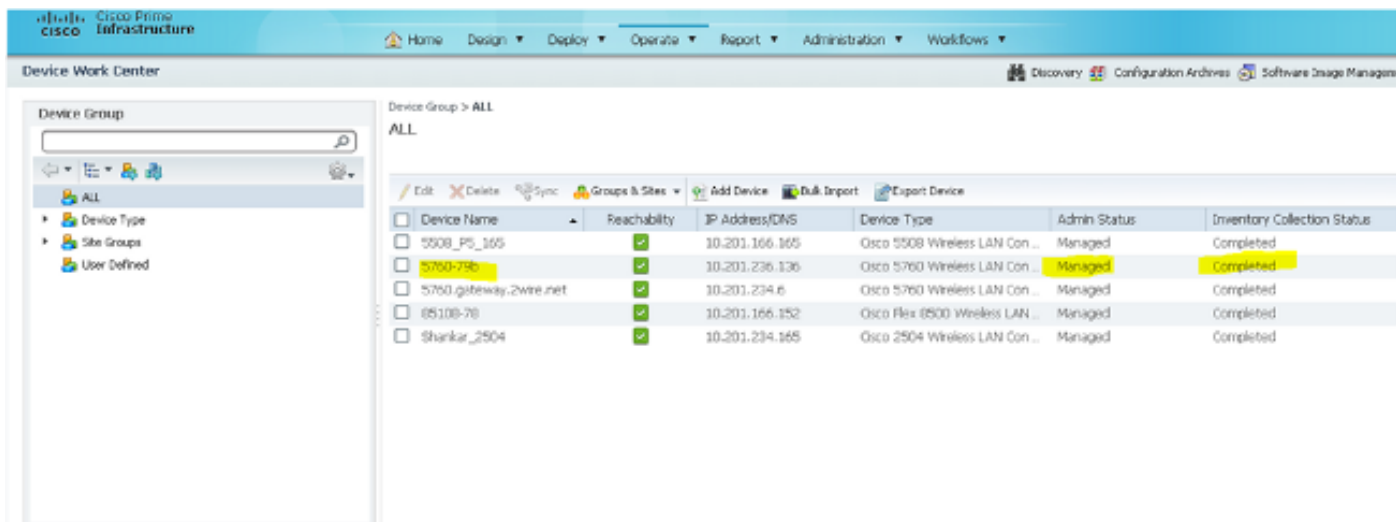
```
5760-79b#show snmp group
```

```
groupname: V3Group                                security model:v3 auth
```

```
contextname: <no context specified>      storage-type: nonvolatile
readview : V3Read                        writeview: V3Write
notifyview: <no notifyview specified>
row status: active
```

**Note:** A CLI é preferida à GUI para a configuração SNMP v3 no acesso convergido para alguns problemas conhecidos que são abordados na ID de bug da Cisco [CSCuo52406](https://tools.cisco.com/bugcenter/bug/?bugID=CSCuo52406).

## Prime Infrastructure (2.2 e anterior)



## Configuração SNMP v2 em um switch (Denali 16.x)

Digite este comando:

```
polaris-3850#show snmp community
```

```
Community name: v2community
Community Index: v2community
Community SecurityName: v2community
storage-type: nonvolatile      active
```

## Configuração SNMP v3 em um switch (Denali 16.x)

Insira os seguintes comandos:

```
polaris-3850#show snmp user
```

```
User name: v3user
Engine ID: 80000009030068BC0C5A8F80
storage-type: nonvolatile      active
Authentication Protocol: SHA
Privacy Protocol: AES128
Group-name: V3Group
```

```
polaris-3850#show snmp group
```

```
groupname: V3Group
contextname: <no context specified>
readview : V3Read
notifyview: <no notifyview specified>
row status: active
security model:v3 auth
storage-type: nonvolatile
writeview: V3Write
```

# Prime Infrastructure

The screenshot shows the Cisco Prime Infrastructure web interface. The top navigation bar includes the Cisco logo, the text 'Prime Infrastructure', an 'Application Search' field, a notification icon with the number '2', and the user 'root - ROOT-DOMAIN'. The breadcrumb trail is 'Configuration / Network / Network Devices'. On the left, there is a 'Device Groups' sidebar with a search bar and a tree view containing 'All Devices', 'Device Type' (with sub-items 'Unified AP' and 'Wireless Controller'), 'Location', and 'User Defined'. The main content area is titled 'Device Groups All Devices' and shows a table of devices. The table has columns for 'Reachability', 'Admin Status', 'Device Name', 'IP Address', 'DNS Name', 'Device Type', 'Last Inventory Collect...', and 'Last Success'. Two devices are listed: one named 'AirMario' with IP 10.201.236.100, status 'Managed', and 'Completed' inventory collection on June 10, 2016; and another with IP 10.201.234.36, status 'Un-Managed', and 'Synchronizing' inventory collection.

## Troubleshoot

Esta seção fornece informações que podem ser usadas para o troubleshooting da sua configuração.

### Do acesso convergido

O comando **show logging** mostra os pacotes ativos enviados para o endereço IP do Prime Infrastructure a partir do WLC.

Insira os seguintes comandos:

```
polaris-3850#debug snmp packets
Polaris-3850#show logging
entPhysicalEntry.7.2042 = Gi2/0/1
*Jun 10 15:58:51.817: SNMP: Packet sent via UDP to 10.201.236.107
*Jun 10 15:58:51.819: SNMP: Packet received via UDP from 10.201.236.107 on Vlan1105
*Jun 10 15:58:51.825: SNMP: Get-bulk request, reqid 945449769, nonrptr 0, maxreps 10
Jun 10 15:58:51.904: SNMP: Packet sent via UDP to 10.201.236.107
*Jun 10 15:58:51.927: SNMP: Packet received via UDP from 10.201.236.107 on Vlan1105
*Jun 10 15:58:51.928: SNMP: Get-bulk request, reqid 945449775, nonrptr 0, maxreps 10
entPhysicalEntry.7.2062 = NULL TYPE/VALUE
*Jun 10 15:58:51.931: SNMP: Response, reqid 945449775, errstat 0, erridx 0
entPhysicalEntry.7.2063 = Gi2/0/22
entPhysicalEntry.7.2064 = Gi2/0/23
entPhysicalEntry.7.2065 = Gi2/0/24
entPhysicalEntry.7.2066 = Switch 2 FRU Uplink Module 1
--More--
entPhysicalEntry.7.2067 = Gi2/1/1 Container
entPhysicalEntry.7.2068 = Gi2/1/2 Container
entPhysicalEntry.7.2069 = Te2/1/3 Container
entPhysicalEntry.7.2070 = Te2/1/4 Container
entPhysicalEntry.8.1 = V01

*Jun 10 15:58:51.951: SNMP: Packet sent via UDP to 10.201.236.107
*Jun 10 15:58:51.974: SNMP: Packet received via UDP from 10.201.236.107 on Vlan1105
*Jun 10 15:58:51.975: SNMP: Get-bulk request, reqid 945449777, nonrptr 0, maxreps 10
ciscoEnvMonTemperatureStatusEntry.3 = NULL TYPE/VALUE
*Jun 10 15:58:51.978: SNMP: Response, reqid 945449777, errstat 0, erridx 0
```

```
ciscoEnvMonTemperatureStatusEntry.3.2008 = 28
ciscoEnvMonTemperatureStatusEntry.3.2009 = 40
ciscoEnvMonTemperatureStatusEntry.3.2010 = 44
```

```
ciscoEnvMonTemperatureStatusEntry.6.2008 = 1
```

```
--More--
```

```
*Jun 10 15:58:52.001: SNMP: Packet sent via UDP to 10.201.236.107
```

## Da Prime Infrastructure

SNMPWALK entre dispositivos.

Insira os seguintes comandos:

```
PrimeInfrastructurejoker/admin# shell
```

```
Enter shell access password :
```

```
Starting bash shell ...
```

```
ade # snmpwalk -v2c -c v2community 10.201.234.36 sysUpTime
```

```
DISMAN-EVENT-MIB::sysUpTimeInstance = Timeticks: (238833753) 27 days, 15:25:37.53
```

```
v2community = comunidade snmp
```

10.201.234.36 = WLC IP

Esse é o resultado se a acessibilidade estiver lá:

```
DISMAN-EVENT-MIB::sysUpTimeInstance = Timeticks: xx.xxx
```