

Exemple de configuration de la gestion de l'accès convergé (5760/3850/3650) via Prime Infrastructure avec SNMP v2 et v3

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Introduction

Ce document décrit comment ajouter l'accès convergent (5760/3850/3650) à Prime Infrastructure avec SNMP (Simple Network Management Protocol) v2 et v3.

Conditions préalables

Conditions requises

Cisco vous recommande de prendre connaissance des rubriques suivantes :

- Accès convergé (5760/3850/3650) Cisco IOS[®] Version 3.3.x et ultérieure ou Denali 16.x
- Prime Infrastructure Version 2.0 ou ultérieure

Components Used

Ce document n'est pas limité à des versions de matériel et de logiciel spécifiques.

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.

Configurer (Prime Infrastructure 2.2 et versions antérieures)

Configuration SNMP v2 sur un commutateur

IUG

Choisissez **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
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 - 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

Sélectionnez ces commandes :

```
conf t
```

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

Configuration SNMP v3 sur un commutateur

CLI

Sélectionnez ces commandes :

```
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: Utilisez la vue Cycle de vie.

Choisissez **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: Si les paramètres Telnet/Secure Shell ne sont pas entrés, Prime Infrastructure ne collectera pas d'inventaire auprès du commutateur.

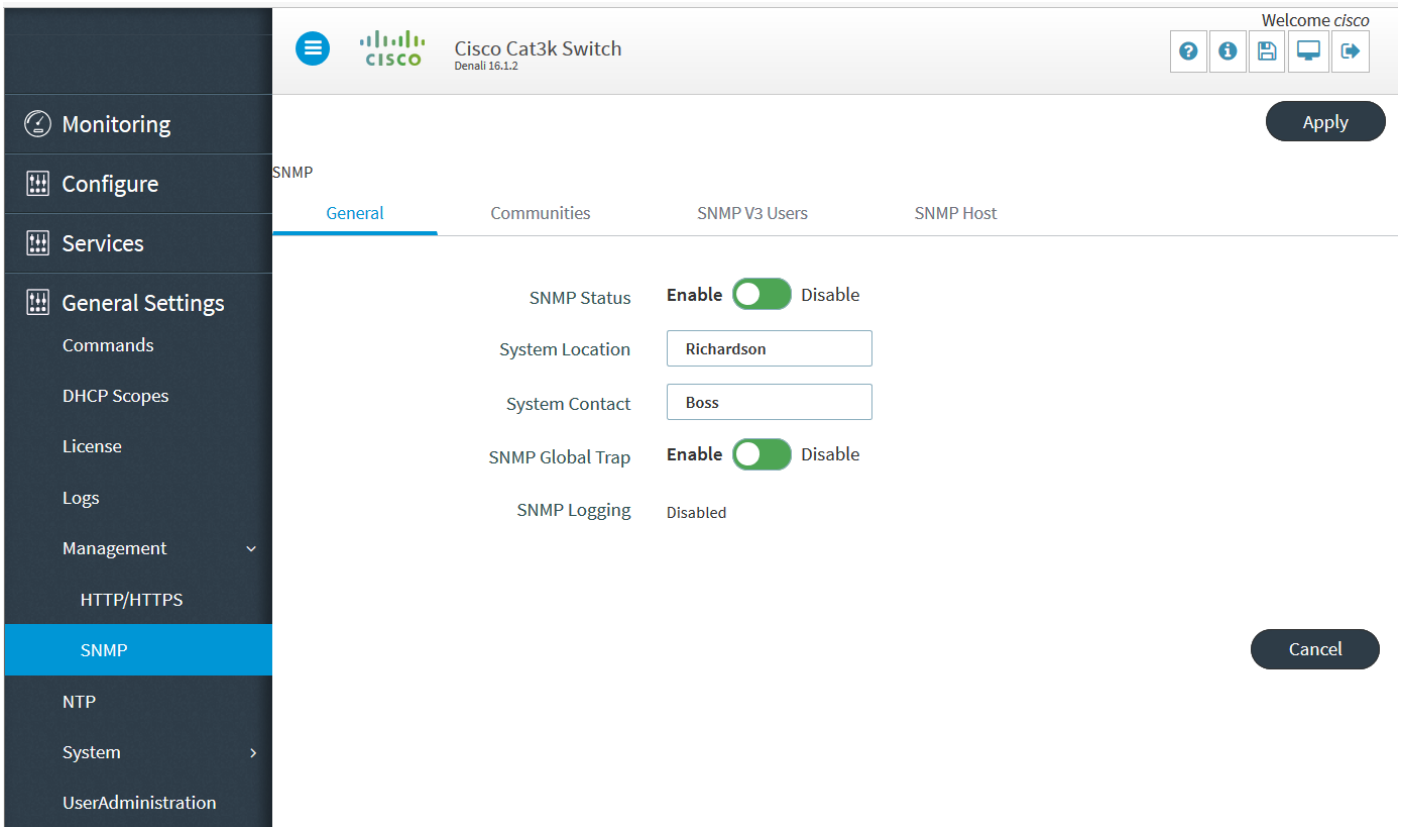
Configurer (Prime Infrastructure 3.x et versions ultérieures)

Configuration SNMP sur un commutateur (Denali 16.x)

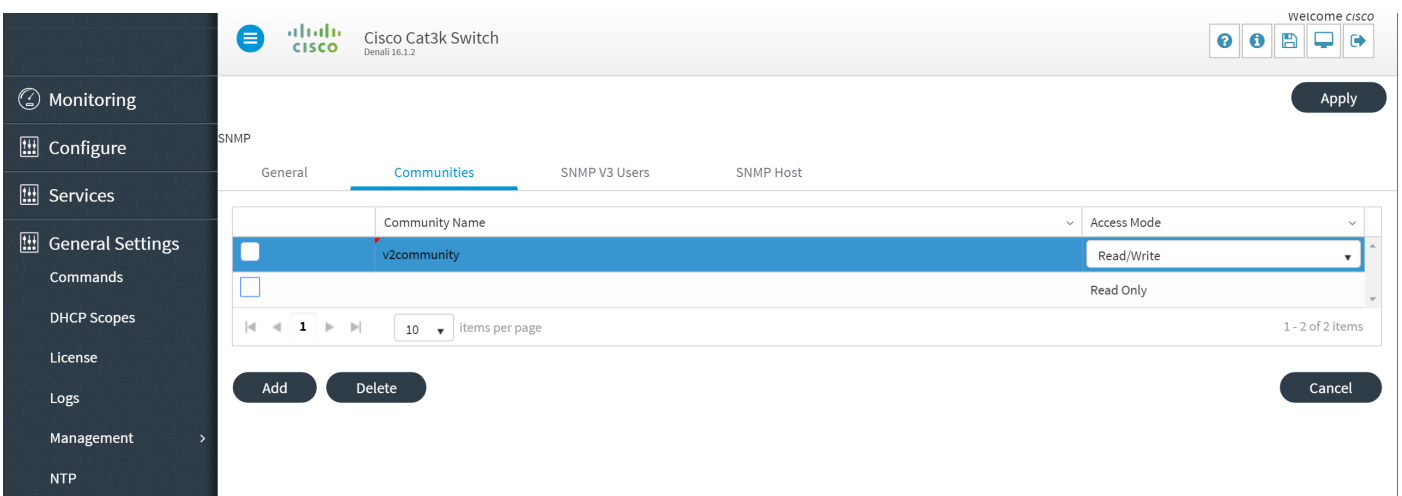
IUG

Choisissez **General Settings > Management > SNMP**.

Activez **SNMP**.



Configuration SNMP v2 de l'interface utilisateur graphique sur un commutateur (Denali 16.x)



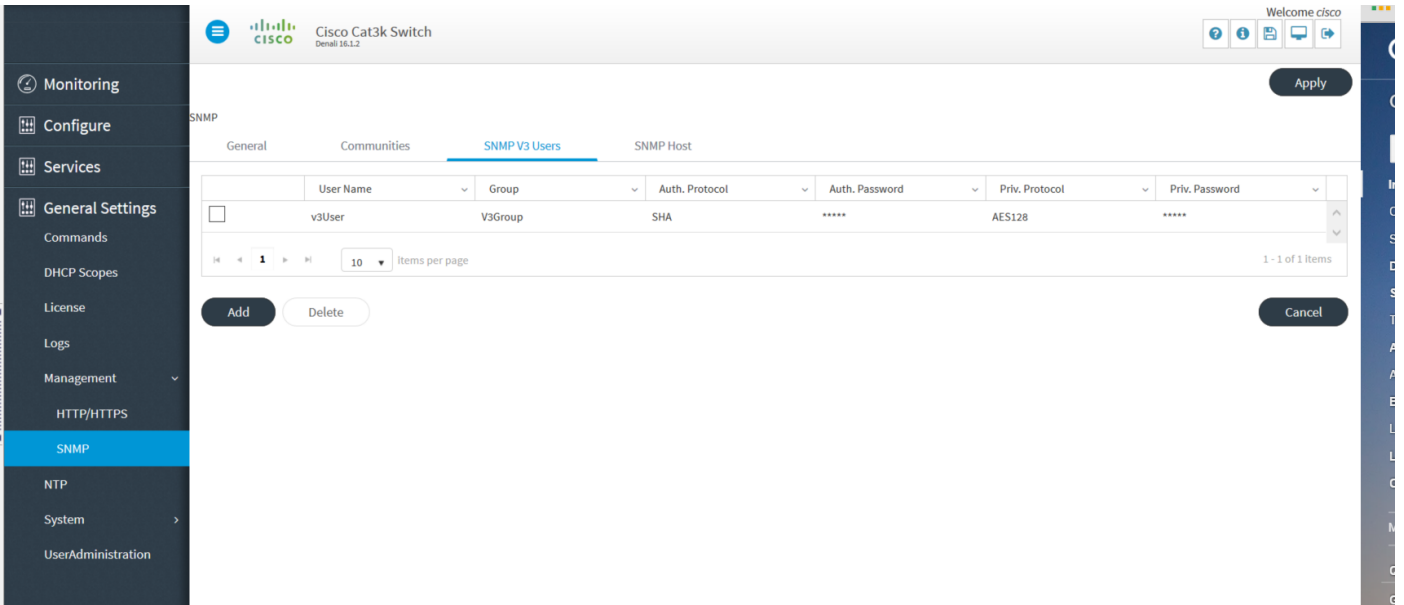
Configuration de CLI SNMP v2 sur un commutateur (Denali 16.x)

Sélectionnez ces commandes :

```
conf t
```

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

Configuration SNMP v3 de l'interface utilisateur graphique sur un commutateur (Denali 16.x)



Configuration de CLI SNMP v3 sur un commutateur (Denali 16.x)

Sélectionnez ces commandes :

```
conf t
```

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

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

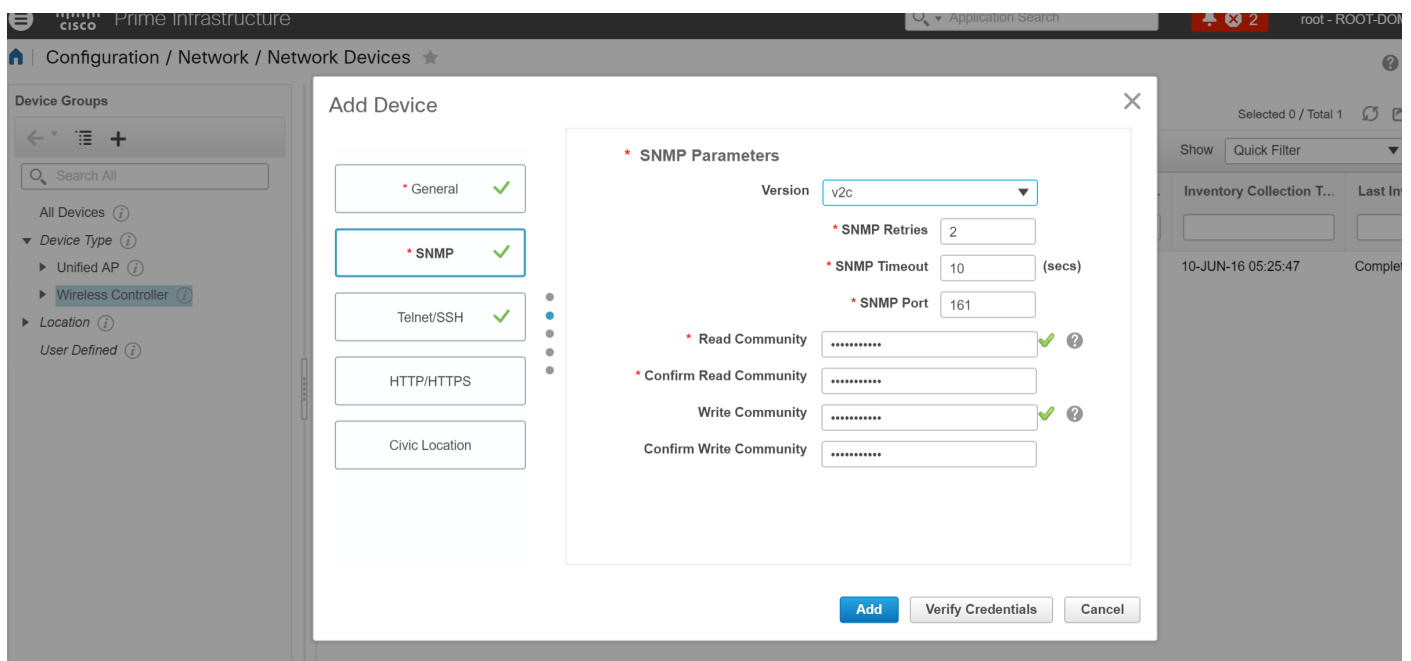
```
snmp-server view V3Write iso included
```

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

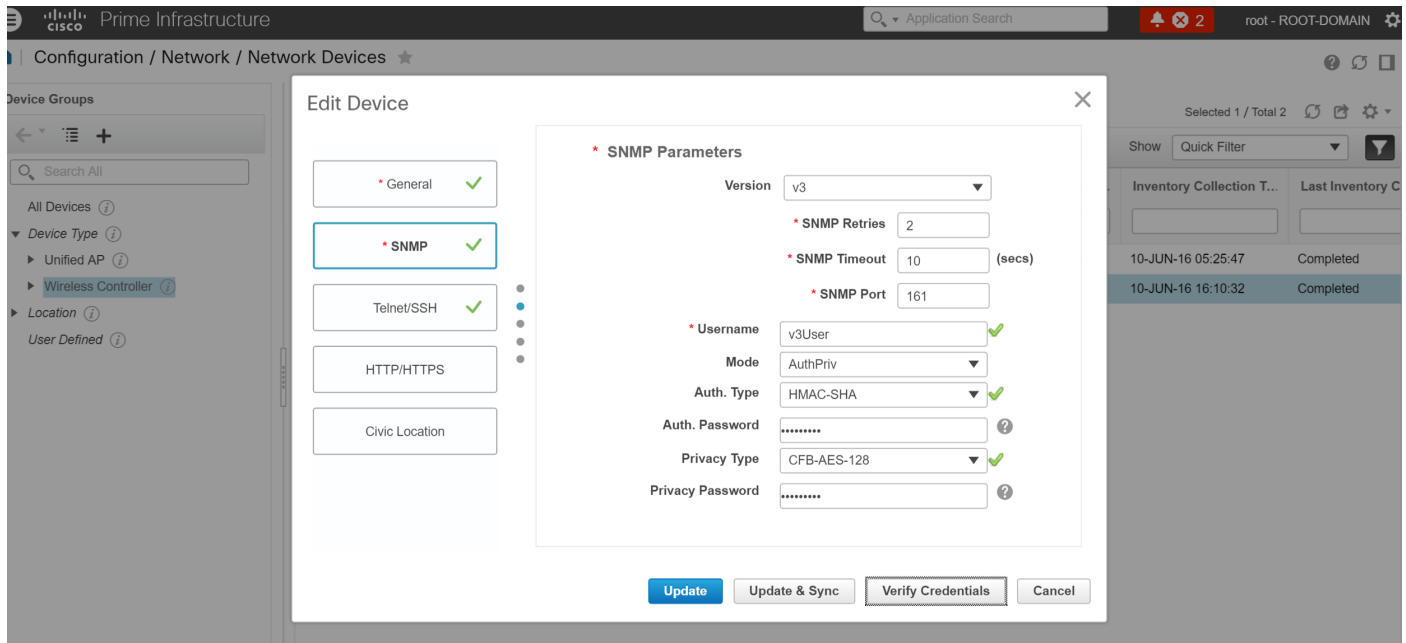
```
snmp-server enable traps
```

Prime Infrastructure

SNMP v2



SNMP v3



Vérification

Référez-vous à cette section pour vous assurer du bon fonctionnement de votre configuration.

Certaines commandes d'affichage (« show ») sont offertes par l'outil « Cisco CLI Analyzer » réservé aux clients inscrits. Utilisez cet outil pour obtenir une analyse des rapports produits par ces commandes.

Configuration SNMP v2 sur un commutateur (Cisco IOS-XE)

Entrez cette commande :

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

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

Configuration SNMP v3 sur un commutateur (Cisco IOS-XE)

Sélectionnez ces commandes :

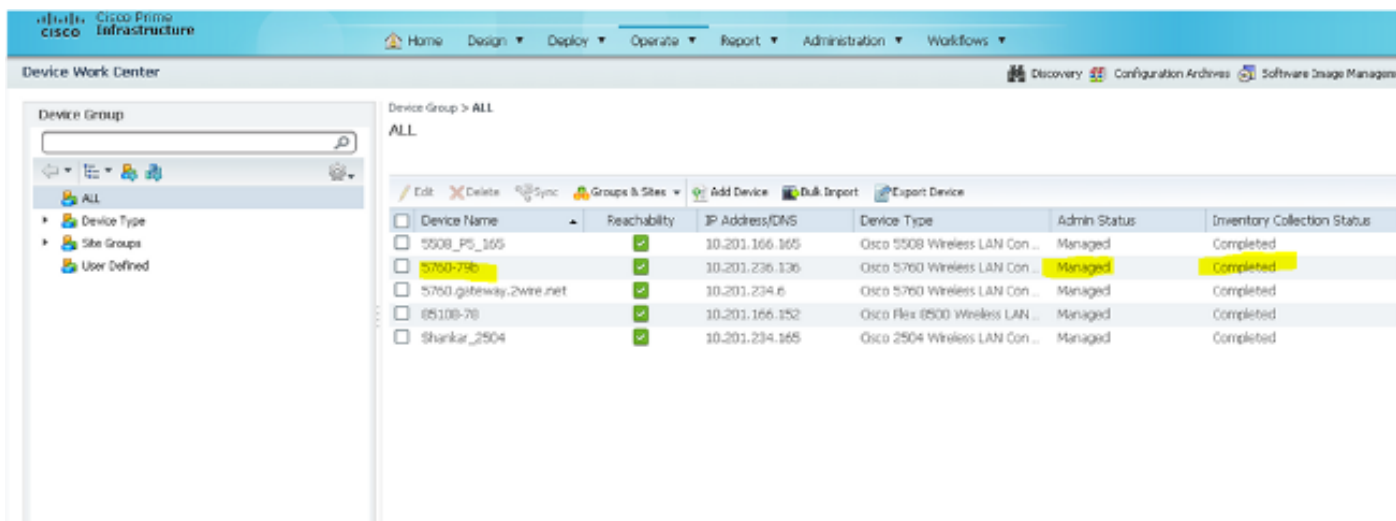
```
5760-79b#show snmp user
```

```
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: L'interface de ligne de commande est préférée à l'interface utilisateur graphique pour la configuration SNMP v3 sur l'accès convergé pour certains problèmes connus qui sont traités dans l'ID de bogue Cisco [CSCuo52406](https://www.cisco.com/cisco/webbugtool/show_bug.do?bugID=CSCuo52406).

Infrastructure Prime (2.2 et versions antérieures)



The screenshot shows the Cisco Prime Infrastructure Device Work Center interface. The main area displays a table of devices under the 'ALL' group. The table has columns for Device Name, Reachability, IP Address/DNS, Device Type, Admin Status, and Inventory Collection Status. The device '5760-79b' is highlighted in yellow, showing its IP address as 10.201.236.136 and its status as 'Managed' and 'Completed'.

Device Name	Reachability	IP Address/DNS	Device Type	Admin Status	Inventory Collection Status
5508_P5_165	✓	10.201.166.165	Osco 5508 Wireless LAN Con...	Managed	Completed
5760-79b	✓	10.201.236.136	Osco 5760 Wireless LAN Con...	Managed	Completed
5760_gateway.2wire.net	✓	10.201.234.6	Osco 5760 Wireless LAN Con...	Managed	Completed
65108-76	✓	10.201.166.152	Osco Flex (6500) Wireless LAN ...	Managed	Completed
Shankar_2504	✓	10.201.234.165	Osco 2504 Wireless LAN Con...	Managed	Completed

Configuration SNMP v2 sur un commutateur (Denali 16.x)

Entrez cette commande :

```
polaris-3850#show snmp community
Community name: v2community
Community Index: v2community
Community SecurityName: v2community
storage-type: nonvolatile      active
```

Configuration SNMP v3 sur un commutateur (Denali 16.x)

Sélectionnez ces commandes :

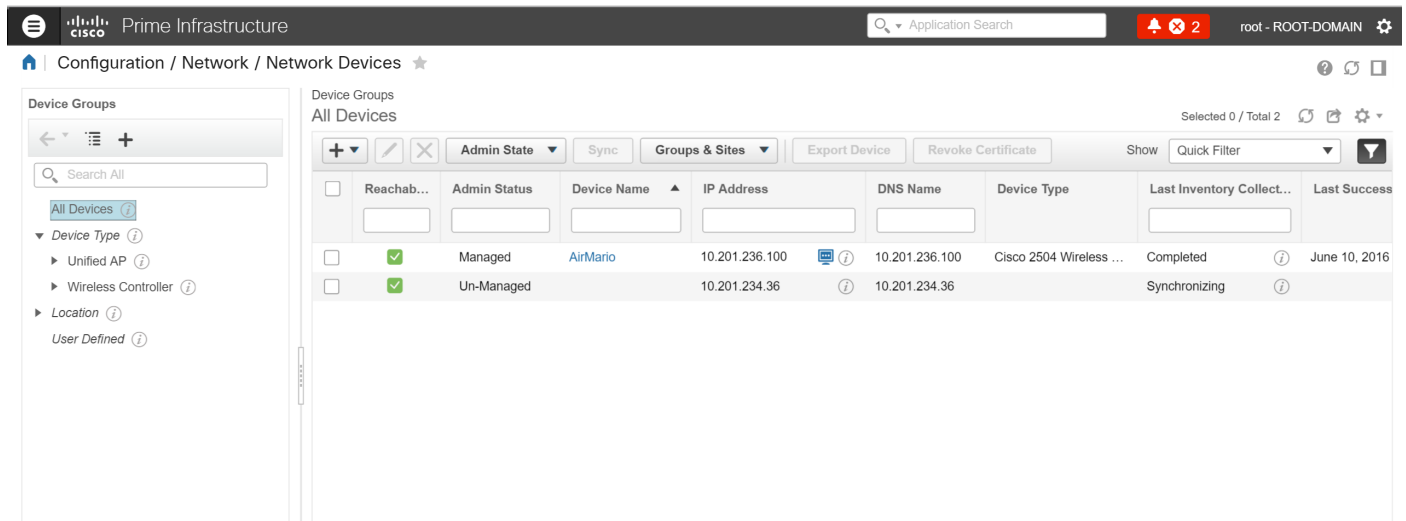
```
polaris-3850#show snmp user
User name: v3user
Engine ID: 80000009030068BC0C5A8F80
storage-type: nonvolatile      active
Authentication Protocol: SHA
Privacy Protocol: AES128
Group-name: V3Group
```

```
polaris-3850#show snmp group
groupname: V3Group                security model:v3 auth
contextname: <no context specified> storage-type: nonvolatile
```

readview : V3Read
notifyview: <no notifyview specified>
row status: active

writeview: V3Write

Prime Infrastructure



Reachab...	Admin Status	Device Name	IP Address	DNS Name	Device Type	Last Inventory Collect...	Last Success
<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		<input type="text"/>	
<input type="checkbox"/>	Managed	AirMario	10.201.236.100	10.201.236.100	Cisco 2504 Wireless ...	Completed	June 10, 2016
<input type="checkbox"/>	Un-Managed		10.201.234.36	10.201.234.36		Synchronizing	

Dépannage

Cette section fournit des informations que vous pouvez utiliser pour dépanner votre configuration.

À partir de l'accès convergent

La commande **show logging** affiche les paquets actifs envoyés à l'adresse IP de Prime Infrastructure à partir du WLC.

Sélectionnez ces commandes :

```
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, nonrprr 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, nonrprr 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, nonrprr 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
```

De Prime Infrastructure

SNMPWALK entre les périphériques.

Sélectionnez ces commandes :

```
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 = snmp community
```

10.201.234.36 = IP WLC

Ceci est le résultat si l'accessibilité est présente :

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