

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

Contenu

[Introduction](#)

[Conditions préalables](#)

[Conditions requises](#)

[Components Used](#)

[Configurer \(Prime Infrastructure 2.2 et versions antérieures\)](#)

[Configuration SNMP v2 sur un commutateur](#)

[IUG](#)

[CLI](#)

[Configuration SNMP v3 sur un commutateur](#)

[CLI](#)

[Prime Infrastructure](#)

[SNMP v2](#)

[SNMP v3](#)

[Configurer \(Prime Infrastructure 3.x et versions ultérieures\)](#)

[Configuration SNMP sur un commutateur \(Denali 16.x\)](#)

[IUG](#)

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

[Configuration de CLI SNMP v2 sur un commutateur \(Denali 16.x\)](#)

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

[Configuration de CLI SNMP v3 sur un commutateur \(Denali 16.x\)](#)

[Prime Infrastructure](#)

[SNMP v2](#)

[SNMP v3](#)

[Vérification](#)

[Configuration SNMP v2 sur un commutateur \(Cisco IOS-XE\)](#)

[Configuration SNMP v3 sur un commutateur \(Cisco IOS-XE\)](#)

[Infrastructure Prime \(2.2 et versions antérieures\)](#)

[Configuration SNMP v2 sur un commutateur \(Denali 16.x\)](#)

[Configuration SNMP v3 sur un commutateur \(Denali 16.x\)](#)

[Prime Infrastructure](#)

[Dépannage](#)

[À partir de l'accès convergent](#)

[De Prime Infrastructure](#)

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
 - 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	V2Community
Access Mode	Read/Write

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 interface. The top navigation bar includes Home, Design, Deploy, Operate (which is currently selected), Report, Administration, and Workflows. Below the navigation is a search bar and a toolbar with icons for Home, Design, Deploy, Operate, Report, Administration, and Workflows. The main area is titled 'Device Group > ALL'. On the left, there's a sidebar with a tree view under 'Device Group' showing 'ALL', 'Device Type', 'Site Groups', and 'User Defined'. The main pane displays a table of devices with columns: Device Name, Reachability, IP Address/DNS, and Device Type. The 'Add Device' button is highlighted with a yellow box. The table data is as follows:

Device Name	Reachability	IP Address/DNS	Device Type
5508_P5_165	✓	10.201.166.165	Cisco 5508 Wireless LAN Con...
5760.gateway.2wire.net	✓	10.201.234.6	Cisco 5760 Wireless LAN Con...
8510B-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	v3
* Retries	<input type="text" value="2"/>
* Timeout	<input type="text" value="10"/> (secs)
Username	<input type="text" value="V3User"/>
Auth. Type	HMAC-SHA
Auth. Password	*****
Privacy Type	CFB-AES-128
Privacy Password	*****

▼ Telnet/SSH Parameters

Protocol	Telnet
* Timeout	<input type="text" value="60"/> (secs)
Username	<input type="text" value="cisco"/>
Password	*****

Add

Cancel

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.

The screenshot shows the Cisco Cat3k Switch Denali 16.1.2 interface. The left sidebar has a dark theme with white icons and text. The main area has a light background. The title bar says "Cisco Cat3k Switch Denali 16.1.2". The top right has a "Welcome cisco" message and several small icons. The main content area is titled "SNMP" and has tabs for "General", "Communities", "SNMP V3 Users", and "SNMP Host". The "General" tab is selected. It shows fields for "SNMP Status" (Enable/Disable), "System Location" (Richardson), "System Contact" (Boss), "SNMP Global Trap" (Enable/Disable), and "SNMP Logging" (Disabled). A large blue "Apply" button is at the bottom right.

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

This screenshot shows the "Communities" tab under the SNMP configuration. The left sidebar is identical to the previous one. The main area shows a table with a single row for "v2community". The table columns are "Community Name" (containing "v2community") and "Access Mode" (set to "Read/Write"). There are buttons for "Add" and "Delete" at the bottom. A "Cancel" button is on the far right. The table has a header row and two data rows. The first data row for "v2community" is highlighted in blue. The second data row is partially visible below it.

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)

The screenshot shows the Cisco Cat3k Switch Denali 16.1.2 web interface. The left sidebar has sections like Monitoring, Configure, Services, General Settings, Commands, DHCP Scopes, License, Logs, Management, HTTP/HTTPS, and SNMP (which is selected). The main content area is titled "SNMP" and shows the "SNMP V3 Users" tab. A table lists a single user entry: "v3User" under "User Name", "V3Group" under "Group", "SHA" under "Auth. Protocol", "****" under "Auth. Password", "AES128" under "Priv. Protocol", and "****" under "Priv. Password". Below the table are buttons for "Add", "Delete", and "Cancel".

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

Sélectionnez ces commandes :

```
conf t

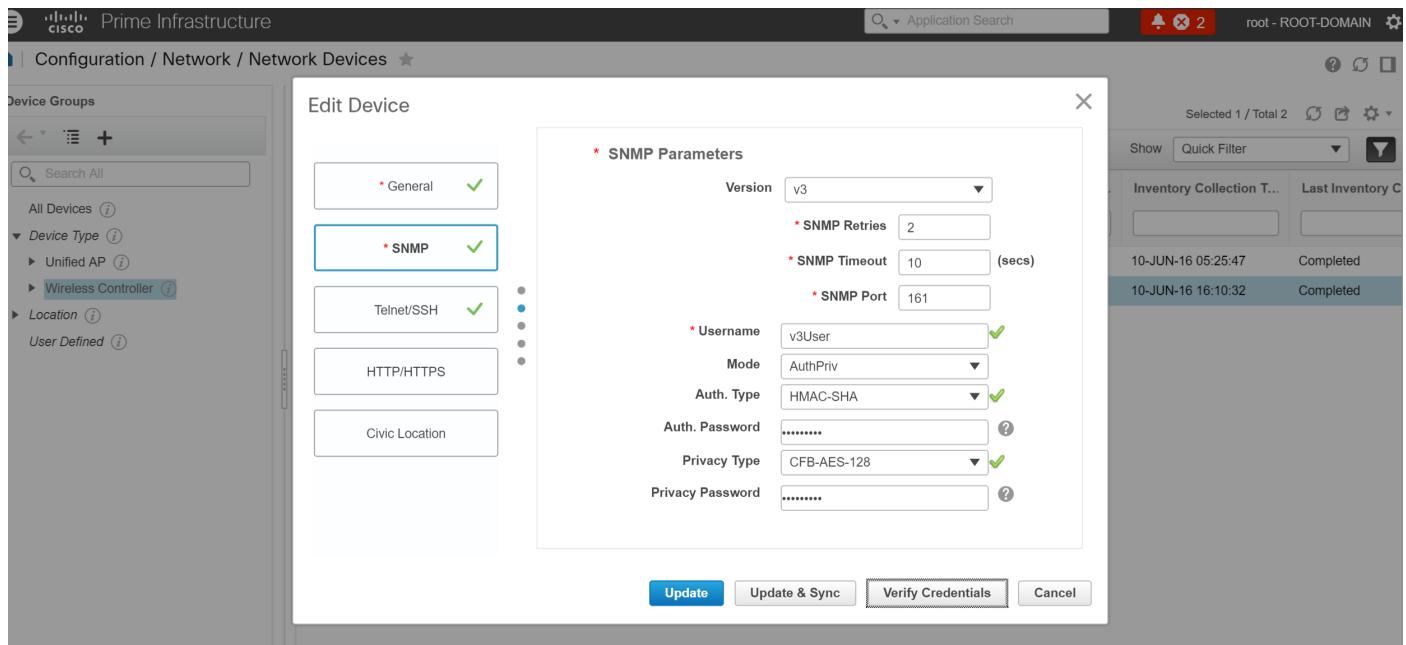
snmp-server user V3user V3Group v3 auth sha Password1 priv aes 128 Password1
snmp-server view V3Read iso included
snmp-server view V3Write iso included
snmp-server host 10.201.236.107 version 3 auth V3user
snmp-server enable traps
```

Prime Infrastructure

SNMP v2

The screenshot shows the Prime Infrastructure interface. On the left, there's a navigation bar with "Prime Infrastructure" and a search bar. The main area is titled "Add Device" and shows a list of device types: General, SNMP (selected), Telnet/SSH, HTTP/HTTPS, and Civic Location. To the right, a detailed configuration dialog is open for "SNMP Parameters". It includes fields for "Version" (set to "v2c"), "SNMP Retries" (2), "SNMP Timeout" (10 secs), "SNMP Port" (161), and several community strings: "Read Community", "Confirm Read Community", "Write Community", and "Confirm Write Community". At the bottom of the dialog are buttons for "Add", "Verify Credentials", and "Cancel".

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

security model:v3 auth
storage-type: nonvolatile
writeview: V3Write

```

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](#).

Infrastructure Prime (2.2 et versions antérieures)

The screenshot shows the Cisco Prime Infrastructure Device Work Center. The top navigation bar includes tabs for Home, Design, Deploy, Operate, Report, Administration, and Workflows. Below the navigation is a toolbar with icons for Discovery, Configuration Archives, and Software Image Management. The main area is titled "Device Group > ALL" and displays a table of devices under the heading "ALL". The columns in the table are: Device Name, Reachability, IP Address/DNS, Device Type, Admin Status, and Inventory Collection Status. The table lists several devices, including "5508_PS_165", "5760-79b", "5760.gateway.zwne.net", "6510B-70", and "Shankar_2504". The "5760-79b" device is highlighted with a yellow background.

Device Name	Reachability	IP Address/DNS	Device Type	Admin Status	Inventory Collection Status
5508_PS_165	✓	10.201.166.165	Cisco 5508 Wireless LAN Con...	Managed	Completed
5760-79b	✓	10.201.236.136	Cisco 5760 Wireless LAN Con...	Managed	Completed
5760.gateway.zwne.net	✓	10.201.234.6	Cisco 5760 Wireless LAN Con...	Managed	Completed
6510B-70	✓	10.201.166.152	Cisco Flex 6500 Wireless LAN...	Managed	Completed
Shankar_2504	✓	10.201.234.165	Cisco 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
contextname: <no context specified>
security model:v3 auth
storage-type: nonvolatile

```

```

readview : V3Read
writeview: V3Write
notifyview: <no notifyview specified>
row status: active

```

Prime Infrastructure

Reachab...	Admin Status	Device Name	IP Address	DNS Name	Device Type	Last Inventory Collect...	Last Success
<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, 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
```

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