



Configuration Example: Converged Access Management through Prime Infrastructure with SNMP v2 and v3

The Converged Access Management through Prime Infrastructure with SNMP v2 and v3 document describes how to add Converged Access (Cisco Catalyst 3850 Series and Cisco Catalyst 3650 Series Switches) to Prime Infrastructure with Simple Network Management Protocol (SNMP) v2 and v3.



Note

For more information on the commands used in this section, refer to [Command Lookup Tool](#) (Registered customers only).

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Prerequisites

We recommend that you have knowledge on the following topics:

- Converged Access Cisco IOS Version 3.3.2 or later.
- Prime Infrastructure Version 2.0 or later.

Supported Platforms and Releases

- Cisco Catalyst 3850 Series Switch
- Cisco Catalyst 3650 Series Switch

**Note**

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.

Configuring Converged Access Management

Configuring SNMP v2 on a Switch using CLI

To configure SNMP v2, use the following commands:

```
Device# configure terminal
```

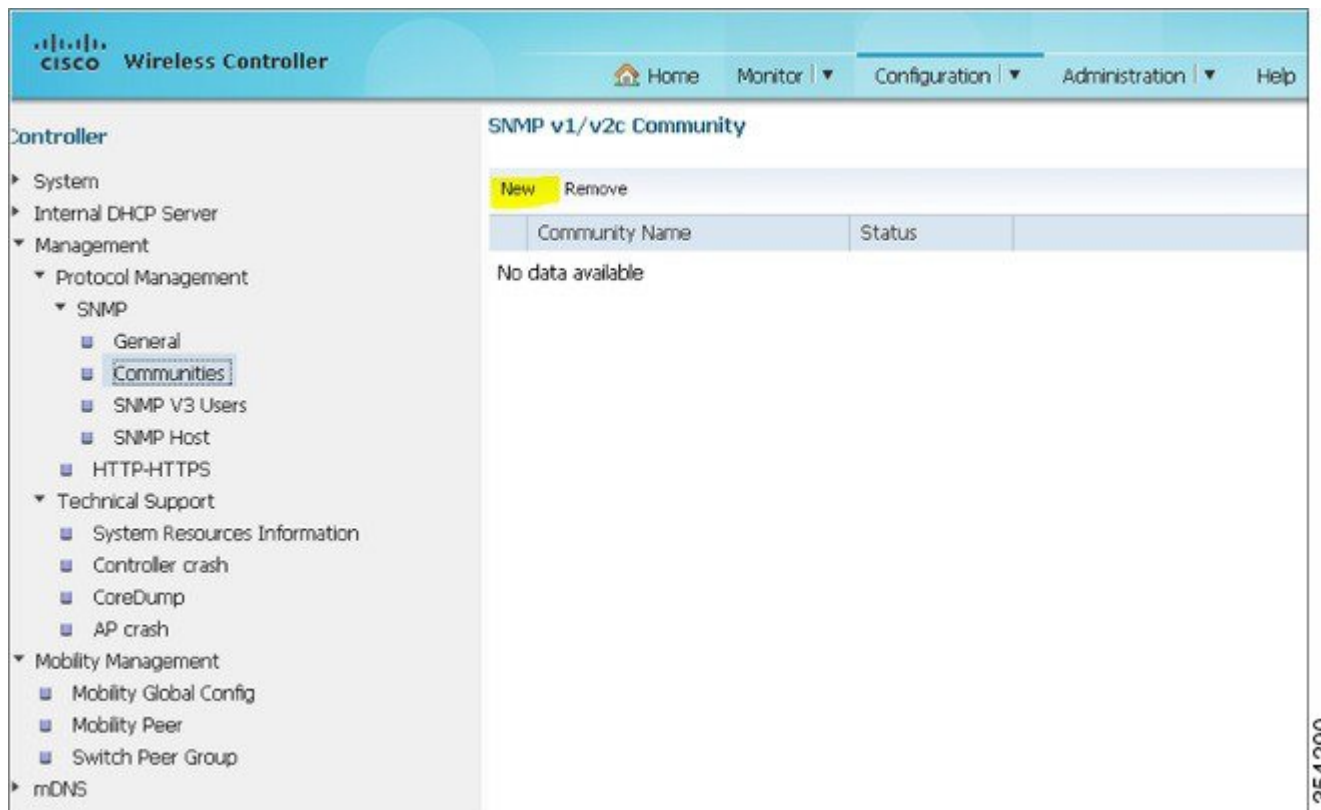
```
Device(config)# snmp-server community V2Community RW
```

Configuring SNMP v2 on a Switch using GUI

Perform the following steps to configure SNMP v2:

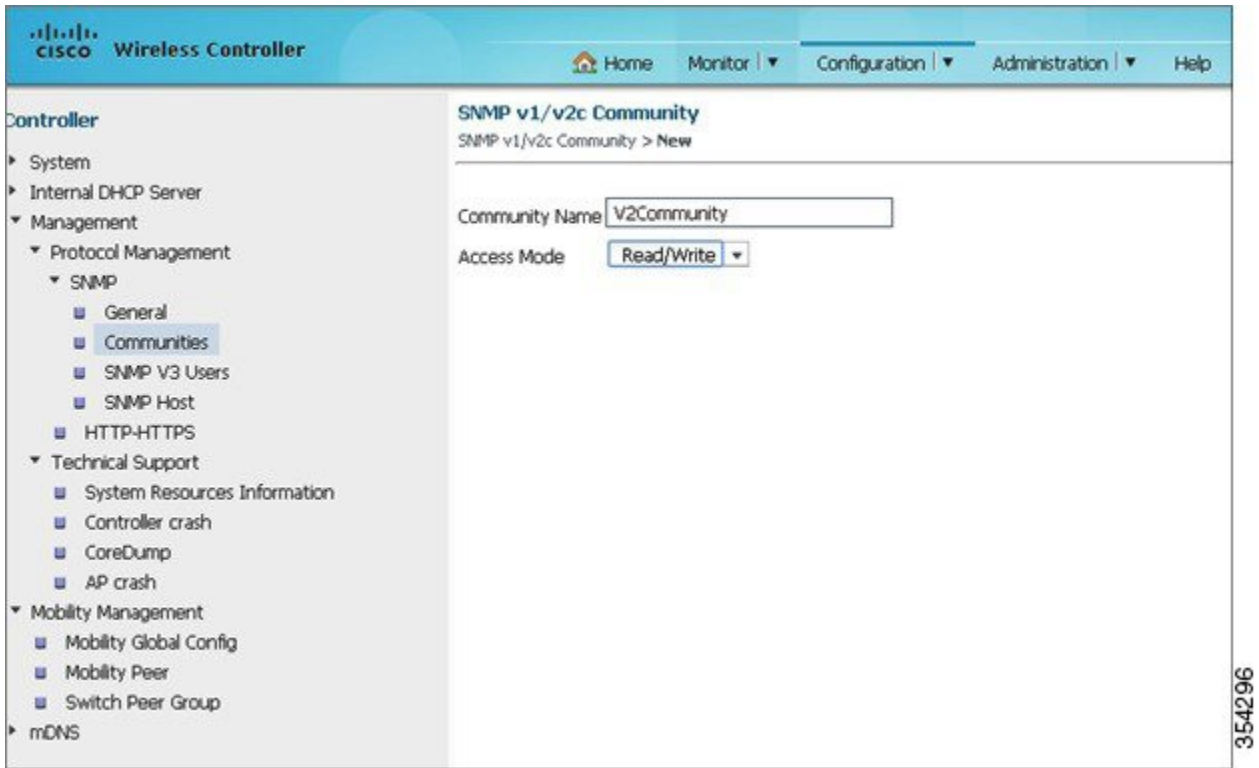
Step 1 From the GUI, navigate to **Configuration > Controller > Management > SNMP > Communities > New**

Figure 1: Configuring SNMP V2



Step 2 Enter the details as shown in the following figure.

Figure 2: Configuring SNMP V2



Configuring SNMP v3 on a Switch using CLI

To configure SNMP v3, use the following commands:

```
Device# configure terminal
Device(config)# snmp-server group V3Group v3 auth read V3Read write V3Write
Device(config)# snmp-server user V3User V3Group v3 auth sha Password1 priv aes 128 Password1
Device(config)# snmp-server view V3Read iso included
Device(config)# snmp-server view V3Write iso included
Device(config)# snmp-server host 198.51.100.170 version 3 auth V3User
Device(config)# snmp-server enable traps
```

Configuring on Prime Infrastructure

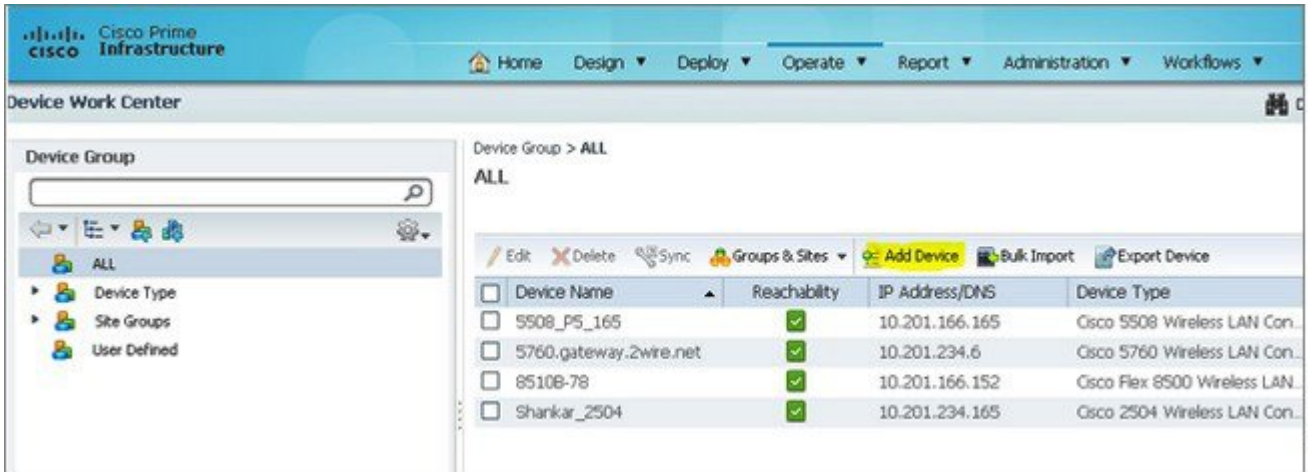
Perform the following tasks to configure SNMP v2 and SNMP v3 on Prime Infrastructure:



Note Use the Lifecycle view.

Step 1 Navigate to **Operate > Device Work Center > Add Device**.

Figure 3: Add Device



354292

Step 2 Add the SNMP V2 configuration details as shown in the following figure:

Figure 4: SNMP V2 Configuration Details

The screenshot shows a configuration window titled "Add Device" with a close button (X) in the top right corner. The window is divided into three sections:

- General Parameters ***: Contains two radio buttons. The first is selected and labeled "IP Address" with a text box containing "10.201.236.136". The second is labeled "DNS Name" with an empty text box.
- SNMP Parameters**: Contains a dropdown menu for "Version" set to "v2c". Below it are four fields with red asterisks: "Retries" (value: 2), "Timeout" (value: 10, with "(secs)" to the right), "Community" (masked with dots and a help icon), and "Confirm Community" (masked with dots).
- Telnet/SSH Parameters**: Contains a dropdown menu for "Protocol" set to "Telnet". Below it are six fields with red asterisks: "Timeout" (value: 60, with "(secs)" to the right), "Username" (value: cisco), "Password" (masked with dots), "Confirm Password" (masked with dots), "Enable Password" (masked with dots), and "Confirm Enable Password" (masked with dots).

At the bottom right of the window are "Add" and "Cancel" buttons. A vertical scroll bar is on the right side, and the number "354201" is printed vertically at the bottom right corner of the window frame.

Step 3 Enter the SNMP v3 details as shown in the following figure:

Figure 5: SNMP V3 Configuration Details

The screenshot shows the 'Add Device' configuration window with the following settings:

- General Parameters ***
 - IP Address: 10.201.236.136
 - DNS Name: (empty)
- SNMP Parameters**
 - Version: v3
 - * Retries: 2
 - * Timeout: 10 (secs)
 - Username: V3User
 - Auth. Type: HMAC-SHA
 - Auth. Password: (masked with dots)
 - Privacy Type: CFB-AES-128
 - Privacy Password: (masked with dots)
- Telnet/SSH Parameters**
 - Protocol: Telnet
 - * Timeout: 60 (secs)
 - Username: cisco
 - Password: (masked with dots)

Buttons: Add, Cancel. A vertical scrollbar on the right side of the window is visible, with the number 354295 at the bottom.

Note If Telnet or Secure Shell parameters are not entered, Prime Infrastructure will not collect inventory from the switch.

Verifying Converged Access Management Configuration

Verifying SNMP v2 Configuration on a Switch

To verify SNMP v2 configuration on the switch, use the following commands:

```
Device# show snmp community

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

Verifying SNMP v3 Configuration on a Switch

To verify SNMP v3 configuration on a switch, use the following commands:

```
Device# show snmp user

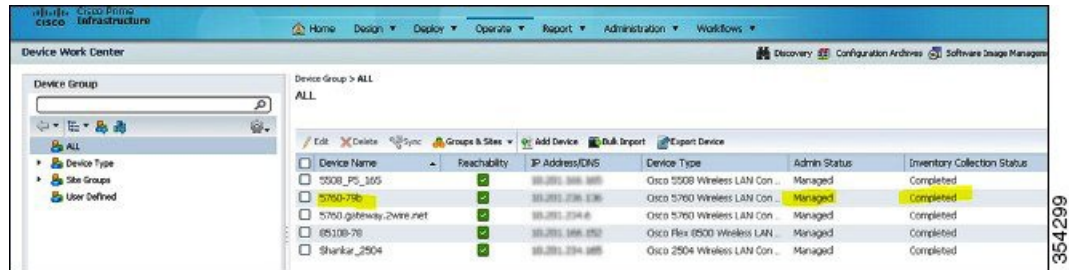
User name: V3User
Engine ID: 80000009030068BC0C5A8F80
storage-type: nonvolatile      active
Authentication Protocol: SHA
Privacy Protocol: AES128
Group-name: V3Group

Device# 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
```

Verifying Configuration on Prime Infrastructure

The following figure verifies the configuration on Prime Infrastructure:

Figure 6: Verifying Prime Infrastructure Configuration



Device Name	Reachability	IP Address/DNS	Device Type	Admin Status	Inventory Collection Status
5508_IP_305	✓	10.255.1.100	Osco 5508 Wireless LAN Con ..	Managed	Completed
5760-750	✓	10.255.1.101	Osco 5760 Wireless LAN Con ..	Managed	Completed
5760_gateway_2Wire.net	✓	10.255.1.102	Osco 5760 Wireless LAN Con ..	Managed	Completed
85108-78	✓	10.255.1.103	Osco Flex (8500) Wireless LAN ..	Managed	Completed
Shankar_2504	✓	10.255.1.104	Osco 2504 Wireless LAN Con ..	Managed	Completed

Troubleshooting Converged Access Management Configuration Issues

There is currently no specific troubleshooting information available for this configuration.