Configuring SNMP V3 in Cisco Unified Serviceability

How to Work with SNMP Users

Configuring an SNMP User

Before You Begin

Review the SNMP configuration checklist.

Procedure

Step 1   Select **Snmp > V3 > User**.

Step 2   Select the required server from the Server list box.

Step 3   Select **Find**.

Step 4   Perform one or more of the following actions:

If you want to:	Action
Add a new SNMP user	**a.** Select **Snmp** > **V3** > **User**. **b.** Select **Add New** **c.** Go to Step 5.
Modify an existing SNMP user	**a.** Locate the user. **b.** Select the name of the SNMP user that you want to edit. **c.** Go to Step 5.

Step 5   Enter the configuration settings for V3

Field	Description
Server	This setting displays as read only because you already specified the server.
User Name	In the field, enter the name of the user for which you want to provide access. The name can contain up to 32 characters and can contain any combination of alphanumeric characters, hyphens (-), and underscore characters (_). **Tip** Enter users that you have already configured for the network management system (NMS). For existing SNMP users, this setting displays as read only.
Authentication Required	Check to require authentication, then enter the password in the Password and Reenter Password fields, and select the appropriate protocol. The password must contain at least 8 characters.
Privacy Required	If you checked Authentication Required, you can specify privacy information. Check to require privacy, and then enter the password in the Password and Reenter Password fields, and select an appropriate protocol. The password must contain at least eight characters.
Accept SNMP Packets from any host	To accept SNMP packets from any host, select the radio button.
Accept SNMP Packets only from these hosts	To accept SNMP packets from specific hosts, select the radio button. In the Host IP Address field, enter a host from which you want to accept SNMP packets and select **Insert**. Repeat this process for each host from which you want to accept SNMP packets. To delete a host, select that Host from the Host IP Addresses pane and select **Remove**.

Field	Description
Access Privileges	From the list box, select one of the following options for the access level: • **ReadOnly**—The user can only read the values of MIB objects. • **ReadWrite**—The user can read and write the values of MIB objects. • **ReadWriteNotify**—The user can read and write the values of MIB objects and send MIB object values for a trap and inform messages. • **NotifyOnly**—The user can only send MIB object values for a trap and inform messages. • **None**—The user cannot read, write, or send trap information. To change the trap configuration parameters, you need to configure a user with NotifyOnly or ReadWriteNotify privileges.
Apply To All Nodes	Check to apply the user configuration to all nodes in the cluster.

Step 6   Perform one of the following actions:

a.   Select **Save** to save changes to an existing user.

Step 7   Perform one of the following actions when a message indicates that changes will not take effect until you restart the SNMP master agent:

a.   Select **OK** to restart the SNMP master agent service.

b.   Select **Cancel** to continue the configuration without restarting the SNMP master agent.

Troubleshooting Tips

• We recommend that you wait until you finish the SNMP configuration before you restart the SNMP master agent service.

• To access this Cisco Unified Communications Manager server that has the user that you configure, make sure that you configure this user on the NMS with the appropriate authentication and privacy settings.

• You can select **Clear All** at any time to delete all information that you entered for all settings.

• The **Add New** button does not display in the SNMP User Configuration window until you select the **Find** button. If no users exist and you want to add want a user, select the **Find** button and wait for the window to refresh. The **Add New** button displays.

Related Topics

Finding an SNMP User

Before You Begin

Review the SNMP configuration checklist.

Procedure

Step 1   Select **Snmp > V3 > User**.

Step 2   Select the specific search criteria that you want to use to find the user; for example, begins with.

Step 3   Enter the user name for which you want to search.

Step 4   Select the hostname or IP address of the server where you access the user from the Server list box.

Step 5   Select **Find**.

Step 6   Check the name of the option and check **Apply to All Nodes**.

Step 7   Select the user that you want to view from the list of results.

Troubleshooting Tips

• After you select the Find button, the Add New button displays. After the search results display, **Apply to All Nodes** displays.

• The **Add New** button does not display in the SNMP User Configuration window until you select the **Find** button. If no users exist and you want to add want a user, select the **Find** button and wait for the window to refresh. The **Add New** button displays.

Related Topics

• SNMP Configuration Checklist, page 6-8

• Configuring SNMP V1/V2c in Cisco Unified Serviceability, page 7-1

Deleting an SNMP User

Before You Begin

Review the SNMP configuration checklist.

Procedure

Step 1   Locate the SNMP user.

Step 2   Check the user that you want to delete from the list of matching records.

Step 3   Select **Delete Selected**. A message indicates that the system will delete notification entries that relate to this user.

Step 4   Select **OK** to continue the deletion. A message indicates that changes will not take effect until you restart the SNMP master agent.

Step 5   Perform one of the following actions:

   a.   Select **OK** to restart the SNMP master agent service.

b. Select **Cancel** to continue the configuration without restarting the SNMP master agent.

Troubleshooting Tips

Cisco recommends that you wait until you finish all the SNMP configuration before you restart the SNMP master agent service.

Related Topics

- SNMP Configuration Checklist
- Configuring and Viewing Services in Cisco Unified Serviceability, page 5-1

How to Work with SNMP Notification Destinations

- Configuring a Notification Destination for SNMP V3, page 8-5
- Finding a Notification Destination for SNMP V3, page 8-7
- Deleting a Notification Destination for SNMP V3, page 8-8

Configuring a Notification Destination for SNMP V3

You can configure the trap and inform receiver.

Before You Begin

Review the SNMP configuration checklist.

Procedure

Step 1   Select **Snmp > V3 > Notification Destination**.

Step 2   Select the required server from the Server list box.

Step 3   Select **Find**.

Step 4   Perform one or more of the following actions:

If you want to:	Action
Add a new SNMP notification destination	**a.** Select **Add New**
	b. Go to Step 5
Modify an existing SNMP notification destination	**a.** Locate the notification destination.
	b. Select the name of the SNMP notification destination that you want to edit.
	c. Go to Step 5.

Step 5   Configure the settings for V3, as described in the table below.

Field	Description
Server	This setting displays as read only because you already specified the server.
Host IP Addresses	From the list box, select the Host IP address or select **Add New**. If you chose Add New, enter the IP address for the host.
Port Number	In the field, enter the notification-receiving port number on the destination server.
Notification Type	From the list box, select **Inform** or **Trap**. **Tip** Cisco recommends that you select the Inform option. The Inform function retransmits the message until it is acknowledged, thus, making it more reliable than traps.
Remote SNMP Engine Id	This setting displays if you chose Inform from the Notification Type list box. From the list box, select the engine ID or select **Add New**. If you chose Add New, enter the ID in the Remote SNMP Engine Id field, which requires a hexidecimal value.
Security Level	From the list box, select the appropriate security level for the user. • **noAuthNoPriv**—No authentication or privacy configured. • **authNoPriv**—Authentication configured, but no privacy configured. • **authPriv**—Authentication and privacy configured.
User Information pane	From the pane, perform one of the following tasks to associate or disassociate the notification destination with the user. • Select **Create New User**. • Select the radio button for the user and select **Update Select ed User** to modify an existing user. • Select the radio button for the user and select **Delete Selected User** to delete a user. The users that display vary depending on the security level that you configured for the notification destination.
Apply To All Nodes	Check to apply the notification destination configuration to all nodes in the cluster.

Step 6   Perform one of the following actions to save a notification destination:

a. Select **Insert**

b. Select **Save** to save changes to an existing notification destination. A message indicates that changes will not take effect until you restart the SNMP master agent.

Step 7   Perform one of the following actions:

a. Select **OK** to restart the SNMP master agent service.

b. Select **Cancel** to continue the configuration without restarting the SNMP master agent.

Troubleshooting Tips

- You can select **Clear** at any time to delete all information that you entered for the settings

- We recommend that you wait until you finish the SNMP configuration before you restart the SNMP master agent service

- The **Add New** button does not display in the SNMP Notification Destination Configuration window until you select the **Find** button. If no users exist and you want to add want a user, select the **Find** button and wait for the window to refresh. The **Add New** button displays.

Related Topics

- Configuring SNMP V1/V2c in Cisco Unified Serviceability, page 7-1

- Configuring and Viewing Services in Cisco Unified Serviceability, page 5-1

- Finding a Notification Destination for SNMP V3, page 8-7

- SNMP Configuration Checklist, page 6-8

- Configuring MIB2 System Group in Cisco Unified Serviceability, page 9-1

Finding a Notification Destination for SNMP V3

Before You Begin

Review the SNMP configuration checklist.

Procedure

Step 1   Select **Snmp > V3 > Notification Destination**.

Step 2   Select the specific search criteria that you want to use to find the notification destination; for example, begins with.

Step 3   Enter the IP address or hostname of notification destination for which you want to search.

Step 4   Select the hostname or IP address of the server that supports the notification destination in the Server field.

Step 5   Select **Find**.

Step 6   Check the name of the option and check **Apply to All Nodes**.

Step 7   Select the notification destination that you want to view from the list of results.

Troubleshooting Tips

- After you select the Find button, the Add New button displays. After the search results display, **Apply to All Nodes** displays.

- The **Add New** button does not display in the SNMP Notification Destination Configuration window until you select the **Find** button. If no users exist and you want to add want a user, select the **Find** button and wait for the window to refresh. The **Add New** button displays.

Related Topics

- SNMP Configuration Checklist, page 6-8

- Configuring a Notification Destination for SNMP V3, page 8-5

Deleting a Notification Destination for SNMP V3

Before You Begin

Review the SNMP configuration checklist.

Procedure

Step 1 Locate the SNMP notification destination.

Step 2 Check the notification destination that you want to delete from the list of matching records.

Step 3 Select **Delete Selected**. A message asks you if you want to delete the notification destination.

Step 4 Select **OK** to continue the deletion. A message indicates that changes will not take effect until you restart the SNMP master agent.

Step 5 Perform one of the following actions:

  a. Select **OK** to restart the SNMP master agent service.

  b. Select **Cancel** to continue the configuration without restarting the SNMP master agent.

Troubleshooting Tips

Cisco recommends that you wait until you finish the SNMP configuration before you restart the SNMP master agent service.

Related Topics

- SNMP Configuration Checklist, page 6-8
- Configuring and Viewing Services in Cisco Unified Serviceability, page 5-1
- How to Work with SNMP Notification Destinations, page 8-5