



# Configuring SNMP

This document describes the Simple Network Management Protocol (SNMP) feature and configuration steps to implement network management using SNMP.

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## Information About SNMP

SNMP is an application layer protocol that facilitates the exchange of management information among network devices, such as nodes and routers. It comprises part of the TCP/IP suite. System administrators can remotely manage network performance, find and solve network problems, and plan for network growth by using SNMP.

## How to Provision SNMP

### Configuring and Retrieving Default SNMP Configurations

#### DETAILED STEPS

	Command or Action	Purpose
Step 1	<b>ProvisionSnmConf</b>  <b>Example:</b> Switch# ProvisionSnmConf	Enters the ProvisionSnmConf mode.
Step 2	<b>setSnmDefaultConf setSnmDefaultConfigRequest request-id</b>  <b>Example:</b> Switch(ProvisionSnmConf) # setSnmDefaultConf setSnmDefaultConfigRequest 1	Configures SNMP default configuration status. <ul style="list-style-type: none"> <li>• <b>setSnmDefaultConfigRequest</b>—Specifies SNMP default configuration.</li> <li>• <i>request_id</i>—Request ID. The default value is 1.</li> </ul>

	Command or Action	Purpose
<b>Step 3</b>	<b>getSnmDefaultConf getSnmDefaultConfRequest</b>  <b>Example:</b> Switch(ProvisionSnmConf) # getSnmDefaultConf getSnmDefaultConfRequest	Retrieves SNMP default configuration status.  <ul style="list-style-type: none"> <li>• <b>getSnmDefaultConfRequest</b>—Retrieves SNMP default configuration.</li> </ul>
<b>Step 4</b>	<b>getSnmDefaultConf review</b>  <b>Example:</b> Switch(ProvisionSnmConf) # getSnmDefaultConf review	Displays the configuration.
<b>Step 5</b>	<b>getSnmDefaultConf commit</b>  <b>Example:</b> Switch(ProvisionSnmConf) # getSnmDefaultConf commit	Sends the configuration to NID.
<b>Step 6</b>	<b>exit</b>  <b>Example:</b> Switch(ProvisionSnmConf) # exit	Exits the ProvisionSnmConf mode.

### Configuration Example

The example shows how to configure and retrieve Default SNMP Configurations:

```
Switch(ProvisionSnmConf) # setSnmDefaultConf setSnmDefaultConfigRequest 1
Switch(ProvisionSnmConf) # getSnmDefaultConf getSnmDefaultConfRequest
```

```
Switch(ProvisionSnmConf) # getSnmDefaultConf review
Switch(ProvisionSnmConf) # getSnmDefaultConf commit
Switch(ProvisionSnmConf) # exit
```

The following is a sample output on the NID.

```
Switch(ProvisionSnmConf) #getSnmDefaultConf getSnmDefaultConfRequest
Switch(ProvisionSnmConf) #
Switch(ProvisionSnmConf) #getSnmDefaultConf review
Commands in queue:
getSnmDefaultConf getSnmDefaultConfRequest
Switch(ProvisionSnmConf) #getSnmDefaultConf commit
GetSnmDefaultConf-Output.getSnmDefaultResponse.trap = false
GetSnmDefaultConf-Output.getSnmDefaultResponse.version = 'v2c'
GetSnmDefaultConf-Output.getSnmDefaultResponse.snmp_server = 'disable'

GetSnmDefaultConf Commit Success!!!
```

## Configuring SNMPv2c Community Parameters

### DETAILED STEPS

	Command or Action	Purpose
Step 1	<b>ProvisionSnmpConf</b>  <b>Example:</b> Switch# ProvisionSnmpConf	Enters the ProvisionSnmpConf mode.
Step 2	<b>setSnmpServerConf snmsnp-server-conf { trap {true   false}   version {v1   v2c   v3}   snmp-server {enable   disable}   community-v2c {comm-name <i>comm-name</i>   mode {ro   rw}}}</b>  <b>Example:</b> Switch(ProvisionSnmpConf)# setSnmpServerConf snmp-server-conf snmp-server enable Switch(ProvisionSnmpConf)# setSnmpServerConf snmp-server-conf version v2c Switch(ProvisionSnmpConf)# setSnmpServerConf snmp-server-conf trap true Switch(ProvisionSnmpConf)# setSnmpServerConf snmp-server-conf community-v2c comm_name Public Switch(ProvisionSnmpConf)# setSnmpServerConf snmp-server-conf community-v2c mode ro	Configures SNMP server. <ul style="list-style-type: none"> <li>• <b>trap</b>—Specifies SNMP traps.</li> <li>• <b>true</b>—Enables SNMP trap.</li> <li>• <b>false</b>—Disables SNMP trap.</li> <li>• <b>version</b>—Specifies SNMP host version.</li> <li>• <b>v1</b>—Specifies SNMP version v1.</li> <li>• <b>v2c</b>—Specifies SNMP version v2c.</li> <li>• <b>v3</b>—Specifies SNMP version v3.</li> <li>• <b>snmp-server</b>—Specifies the SNMP server.</li> <li>• <b>Enable</b>—Enables the SNMP server.</li> <li>• <b>Disable</b>—Disables the SNMP server.</li> <li>• <b>community-v2c</b>—Specifies the v2c community.</li> <li>• <b>comm_name</b>—Specifies the v2c community name.</li> <li>• <b>comm-name</b>—v2c community name.</li> <li>• <b>mode</b>—Specifies read or write mode.</li> <li>• <b>ro</b>—Read mode.</li> <li>• <b>rw</b>—Write mode.</li> </ul>
Step 3	<b>setSnmpServerConf review</b>  <b>Example:</b> Switch(ProvisionSnmpConf)# setSnmpServerConf review	Displays the configuration.
Step 4	<b>setSnmpServerConf commit</b>  <b>Example:</b> Switch(ProvisionSnmpConf)# setSnmpServerConf commit	Sends the configuration to NID.

	Command or Action	Purpose
<b>Step 5</b>	<b>getSnmpServerConf getSnmpServerConfigRequest</b>  <b>Example:</b> Switch(ProvisionSnmpConf)# getSnmpServerConf getSnmpServerConfigRequest	Retrieves SNMP server configuration.
<b>Step 6</b>	<b>getSnmpServerConf review</b>  <b>Example:</b> Switch(ProvisionSnmpConf)# getSnmpServerConf review	Displays the configuration.
<b>Step 7</b>	<b>getSnmpServerConf commit</b>  <b>Example:</b> Switch(ProvisionSnmpConf)# getSnmpServerConf commit	Sends the configuration to NID.
<b>Step 8</b>	<b>exit</b>  <b>Example:</b> Switch(ProvisionSnmpConf)# exit	Exits the ProvisionSnmpConf mode.

### Configuration Example

The example shows how to configure and retrieve SNMPv2c community parameters:

```
Switch(ProvisionSnmpConf)# setSnmpServerConf snmp-server-conf snmp-server enable
Switch(ProvisionSnmpConf)# setSnmpServerConf snmp-server-conf version v2c
Switch(ProvisionSnmpConf)# setSnmpServerConf snmp-server-conf trap true
Switch(ProvisionSnmpConf)# setSnmpServerConf snmp-server-conf community-v2c comm_name Public
Switch(ProvisionSnmpConf)# setSnmpServerConf snmp-server-conf community-v2c mode ro
Switch(ProvisionSnmpConf)# setSnmpServerConf review
Switch(ProvisionSnmpConf)# setSnmpServerConf commit
```

```
Switch(ProvisionSnmpConf)# getSnmpServerConf getSnmpServerConfigRequest
Switch(ProvisionSnmpConf)# getSnmpServerConf review
Switch(ProvisionSnmpConf)# getSnmpServerConf commit
Switch(ProvisionSnmpConf)# exit
```

The following is a sample output on the NID.

```
Switch(ProvisionSnmpConf)#getSnmpServerConf commit
GetSnmpServerConf-Output.snmp-server-conf.trap = true
GetSnmpServerConf-Output.snmp-server-conf.version.t = 2
GetSnmpServerConf-Output.snmp-server-conf.version.u.v2c = 'v2c'
GetSnmpServerConf-Output.snmp-server-conf.snmp_server.t = 1
GetSnmpServerConf-Output.snmp-server-conf.snmp_server.u.enable = 'enabled'
GetSnmpServerConf-Output.snmp-server-conf.community-v2c.comm_name =
'Public'
GetSnmpServerConf-Output.snmp-server-conf.community-v2c.mode.t = 1
GetSnmpServerConf-Output.snmp-server-conf.community-v2c.mode.u.ro = 'RO'

GetSnmpServerConf Commit Success!!!
```

# Configuring SNMPv3 Community

## DETAILED STEPS

	Command or Action	Purpose
Step 1	<b>ProvisionSnmConf</b>  <b>Example:</b> Switch# ProvisionSnmConf	Enters the ProvisionSnmConf mode.
Step 2	<b>setSnmCommunity snmp-community-conf { name   community-ip ip-address   community-mask mask}</b>  <b>Example:</b> Switch(ProvisionSnmConf)# setSnmCommunity snmp-community-conf community-ip 10.10.10.1 Switch(ProvisionSnmConf)# setSnmCommunity snmp-community-conf community-mask 255.255.255.0 Switch(ProvisionSnmConf)# setSnmCommunity snmp-community-conf community-name user12	Configures SNMP default configuration status. <ul style="list-style-type: none"> <li>• <b>community-name</b>—Configures SNMP community string.</li> <li>• <b>name</b>—Name of the community.</li> <li>• <b>community-ip</b>—Specifies community IP.</li> <li>• <b>ip_address</b>—IP address.</li> <li>• <b>community-mask</b>—Specifies community mask.</li> <li>• <b>mask</b>—Mask address.</li> </ul>
Step 3	<b>getSnmCommunity getSnmCommunityConfRequest</b>  <b>Example:</b> Switch(ProvisionSnmConf)# getSnmCommunity getSnmCommunityConfRequest	Configures SNMP default configuration status. <ul style="list-style-type: none"> <li>• <b>getSnmCommunityConfRequest</b>—Retrieves SNMP configuration information.</li> </ul>
Step 4	<b>getSnmCommunity review</b>  <b>Example:</b> Switch(ProvisionSnmConf)# getSnmCommunity review	Displays the configuration.
Step 5	<b>getSnmCommunity commit</b>  <b>Example:</b> Switch(ProvisionSnmConf)# getSnmCommunity commit	Sends the configuration to NID.
Step 6	<b>exit</b>  <b>Example:</b> Switch(ProvisionSnmConf)# exit	Exits from the ProvisionSnmConf mode.

### Configuration Example

The example shows how to configure and retrieve SNMPv3 Community:

```
Switch(ProvisionSnmConf)# setSnmCommunity snmp-community-conf community-ip 10.10.10.1
Switch(ProvisionSnmConf)# setSnmCommunity snmp-community-conf community-mask 255.255.255.0
Switch(ProvisionSnmConf)# setSnmCommunity snmp-community-conf community-name user12
```

```
Switch(ProvisionSnmpConf)# getSnmpCommunity getSnmpCommunityConfReques
Switch(ProvisionSnmpConf)# getSnmpCommunity review
Switch(ProvisionSnmpConf)# getSnmpCommunity commit
Switch(ProvisionSnmpConf)# exit
```

The following is a sample output on the NID.

```
Switch(ProvisionSnmpConf)# $SnmpCommunityConfReques
Switch(ProvisionSnmpConf)#
Switch(ProvisionSnmpConf)# getSnmpCommunity review
Commands in queue:
getSnmpCommunity getSnmpCommunityConfRequest
Switch(ProvisionSnmpConf)#
Switch(ProvisionSnmpConf)# getSnmpCommunity com
Switch(ProvisionSnmpConf)# getSnmpCommunity commit
GetSnmpCommunity-Output.getSnmpCommunityResponse[0].community-name =
'public'
GetSnmpCommunity-Output.getSnmpCommunityResponse[0].community-ip =
'0.0.0.0'
GetSnmpCommunity-Output.getSnmpCommunityResponse[0].community-mask =
'0.0.0.0'
GetSnmpCommunity-Output.getSnmpCommunityResponse[1].community-name =
'private'
GetSnmpCommunity-Output.getSnmpCommunityResponse[1].community-ip =
'0.0.0.0'
GetSnmpCommunity-Output.getSnmpCommunityResponse[1].community-mask =
'0.0.0.0'
GetSnmpCommunity-Output.getSnmpCommunityResponse[2].community-name =
'user12'
GetSnmpCommunity-Output.getSnmpCommunityResponse[2].community-ip =
'10.10.10.1'
GetSnmpCommunity-Output.getSnmpCommunityResponse[2].community-mask =
'255.255.255.0'

GetSnmpCommunity Commit Success!!!
```

## Configuring Trap Destination

### DETAILED STEPS

	Command or Action	Purpose
Step 1	<b>ProvisionSnmpConf</b>  <b>Example:</b> Switch# ProvisionSnmpConf	Enters the ProvisionSnmpConf mode.
Step 2	<b>setSnmpHost snmp-host-config {host-id <i>host-id</i>  set-trap {enable   disable}   version {v1   v2c   v3} udp-port-no <i>udp-port-no</i>   address {ipv4 <i>ipv4-address</i>   ipv6 <i>ipv6-address</i>}   inform-mode {enable   disable}   inf-retries <i>retry-instances</i>   timeout-inform <i>timeout-inform-value</i>}</b>	Configures SNMP host. <ul style="list-style-type: none"> <li>• <b>host-id</b>—Specifies the host name.</li> <li>• <i>host-id</i>—Host name.</li> <li>• <b>set-trap</b>—Specifies the trap.</li> </ul>

	Command or Action	Purpose
	<p><b>Example:</b></p> <pre>Switch(ProvisionSnmpConf)# setSnmpHost snmp-host-config address ipv4 10.106.212.248 Switch(ProvisionSnmpConf)# setSnmpHost snmp-host-config host-id trap-config Switch(ProvisionSnmpConf)# setSnmpHost snmp-host-config inf-retries 255 Switch(ProvisionSnmpConf)# setSnmpHost snmp-host-config inform_mode enable Switch(ProvisionSnmpConf)# setSnmpHost snmp-host-config set-trap enable Switch(ProvisionSnmpConf)# setSnmpHost snmp-host-config timeout-inform 2147 Switch(ProvisionSnmpConf)# setSnmpHost snmp-host-config udp-port-no 162 Switch(ProvisionSnmpConf)# setSnmpHost snmp-host-config version v2c</pre>	<ul style="list-style-type: none"> <li>• <b>enable</b>—Enables the trap.</li> <li>• <b>disable</b>—Disables the trap.</li> <li>• <b>version</b>—Specifies SNMP host version.</li> <li>• <b>v1</b>—Specifies SNMP version v1.</li> <li>• <b>v2c</b>—Specifies SNMP version v2c.</li> <li>• <b>v3</b>—Specifies SNMP version v3.</li> <li>• <b>udp-port-no</b>—Specifies the host port number.</li> <li>• <i>udp-port-no</i>—Host port number.</li> <li>• <b>address</b>—Specifies the IP address.</li> <li>• <b>ipv4</b>—Specifies IPv4 address.</li> <li>• <i>ipv4-address</i>—IPv4 address.</li> <li>• <b>ipv6</b>—Specifies IPv6 address.</li> <li>• <i>ipv6-address</i>—IPv6 address.</li> <li>• <b>inform-mode</b>—Specifies inform mode.</li> <li>• <b>enable</b>—Enables inform mode.</li> <li>• <b>disable</b>—Disables inform mode.</li> <li>• <b>inf-retries</b>—Specifies inform retries.</li> <li>• <i>retry-instances</i>—Inform retry number.</li> <li>• <b>timeout-inform</b>—Specifies timeout inform.</li> <li>• <i>timeout-inform-value</i>—Timeout inform value.</li> </ul>
<b>Step 3</b>	<p><b>setSnmpHost review</b></p> <p><b>Example:</b></p> <pre>Switch(ProvisionSnmpConf)# setSnmpHost review</pre>	Displays the configuration.
<b>Step 4</b>	<p><b>setSnmpHost commit</b></p> <p><b>Example:</b></p> <pre>Switch(ProvisionSnmpConf)# setSnmpHost commit</pre>	Sends the configuration to NID.
<b>Step 5</b>	<p><b>getSnmpHost getSnmpHostRequest</b></p> <p><b>Example:</b></p> <pre>Switch(ProvisionSnmpConf)# getSnmpHost getSnmpHostRequest</pre>	Retrieves SNMP host configuration information.

	Command or Action	Purpose
<b>Step 6</b>	<b>getSnmHost review</b>  <b>Example:</b> Switch(ProvisionSnmHost) # getSnmHost review	Displays the configuration.
<b>Step 7</b>	<b>getSnmHost commit</b>  <b>Example:</b> Switch(ProvisionSnmHost) # getSnmHost commit	Sends the configuration to NID.
<b>Step 8</b>	<b>exit</b>  <b>Example:</b> Switch(ProvisionSnmHost) # exit	Exits the ProvisionSnmHost mode.

### Configuration Example

The example shows how to configure and retrieve trap destination:

```
Switch(ProvisionSnmHost) # setSnmHost snmp-host-config address ipv4 10.106.212.248
Switch(ProvisionSnmHost) # setSnmHost snmp-host-config host-id trap-config
Switch(ProvisionSnmHost) # setSnmHost snmp-host-config inf-retries 255
Switch(ProvisionSnmHost) # setSnmHost snmp-host-config inform-mode enable
Switch(ProvisionSnmHost) # setSnmHost snmp-host-config set-trap enable
Switch(ProvisionSnmHost) # setSnmHost snmp-host-config timeout-inform 2147
Switch(ProvisionSnmHost) # setSnmHost snmp-host-config udp-port-no 162
Switch(ProvisionSnmHost) # setSnmHost snmp-host-config version v2c
Switch(ProvisionSnmHost) # setSnmHost review
Switch(ProvisionSnmHost) # setSnmHost commit

Switch(ProvisionSnmHost) # getSnmHost getSnmHostRequest
Switch(ProvisionSnmHost) # getSnmHost review
Switch(ProvisionSnmHost) # getSnmHost commit
Switch(ProvisionSnmHost) # exit
```

## Configuring an Entry in SNMP View List

### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	<b>ProvisionSnmHost</b>  <b>Example:</b> Switch# ProvisionSnmHost	Enters the ProvisionSnmHost mode.
<b>Step 2</b>	<b>setSnmView setSnmViewRequest {view-name   view-oid oid-value  view-type {included   excluded}}</b>  <b>Example:</b> Switch(ProvisionSnmHost) # setSnmView setSnmViewRequest view_type included	Configures SNMP view. <ul style="list-style-type: none"> <li>• <b>view-name</b><i>view_name</i>—Specifies view name.</li> <li>• <b>view-oid</b>—Specifies object identifier.</li> <li>• <b>oid-value</b>—Object identifier value.</li> </ul>



	Command or Action	Purpose
	<pre>Switch(ProvisionSnmpConf) # setSnmpView setSnmpViewRequest view-oid .1.3.6.1.2.1.31 Switch(ProvisionSnmpConf) # setSnmpView setSnmpViewRequest view-name ifMIB</pre>	<ul style="list-style-type: none"> <li>• <b>view-type</b>—Specifies view type.</li> <li>• <b>included</b>—Includes view type.</li> <li>• <b>excluded</b>—Excludes view type.</li> </ul>
<b>Step 3</b>	<p><b>setSnmpView review</b></p> <p><b>Example:</b> Switch(ProvisionSnmpConf) # setSnmpView review</p>	Displays the configuration.
<b>Step 4</b>	<p><b>setSnmpView commit</b></p> <p><b>Example:</b> Switch(ProvisionSnmpConf) # setSnmpView commit</p>	Sends the configuration to NID.
<b>Step 5</b>	<p><b>getSnmpView getSnmpViewRequest</b></p> <p><b>Example:</b> Switch(ProvisionSnmpConf) # getSnmpView getSnmpViewRequest</p>	Retrieves SNMP default configuration status. <ul style="list-style-type: none"> <li>• <b>getSnmpViewRequest</b>—Retrieves SNMP default configuration.</li> </ul>
<b>Step 6</b>	<p><b>getSnmpView review</b></p> <p><b>Example:</b> Switch(ProvisionSnmpConf) # getSnmpView review</p>	Displays the configuration.
<b>Step 7</b>	<p><b>getSnmpView commit</b></p> <p><b>Example:</b> Switch(ProvisionSnmpConf) # getSnmpView commit</p>	Sends the configuration to NID.
<b>Step 8</b>	<p><b>exit</b></p> <p><b>Example:</b> Switch(ProvisionSnmpConf) # exit</p>	Exits the ProvisionSnmpConf mode.

### Configuration Example

The example shows how to configure and retrieve an entry in SNMP view list:

```
Switch(ProvisionSnmpConf) # setSnmpView setSnmpViewRequest view-type included
Switch(ProvisionSnmpConf) # setSnmpView setSnmpViewRequest view-oid .1.3.6.1.2.1.31
Switch(ProvisionSnmpConf) # setSnmpView setSnmpViewRequest view-name ifMIB
Switch(ProvisionSnmpConf) # setSnmpView review
Switch(ProvisionSnmpConf) # setSnmpView commit
```

```
Switch(ProvisionSnmpConf) # getSnmpView getSnmpViewRequest
Switch(ProvisionSnmpConf) # getSnmpView review
Switch(ProvisionSnmpConf) # getSnmpView commit
Switch(ProvisionSnmpConf) # exit
```

The following is a sample output on the NID.

```
Switch(ProvisionSnmpConf) #
Switch(ProvisionSnmpConf) #getSnmpView getSnmpViewRequest
```

```

Switch(ProvisionSnmpConf)#getSnmpView review
Commands in queue:
getSnmpView getSnmpViewRequest
Switch(ProvisionSnmpConf)#getSnmpView commit
GetSnmpView-Output.getSnmpViewResponse[0].view-name = 'ifMIB'
GetSnmpView-Output.getSnmpViewResponse[0].view-oid = '.1.3.6.1.2.1.31'
GetSnmpView-Output.getSnmpViewResponse[0].view-type = 'included'
GetSnmpView-Output.getSnmpViewResponse[1].view-name = 'default_view'
GetSnmpView-Output.getSnmpViewResponse[1].view-oid = '.1'
GetSnmpView-Output.getSnmpViewResponse[1].view-type = 'included'

```

## Creating an SNMPv3 User

### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	<b>ProvisionSnmpConf</b>  <b>Example:</b> Switch# ProvisionSnmpConf	Enters the ProvisionSnmpConf mode.
<b>Step 2</b>	<b>setSnmpUserConf setSnmpUsersRequest {user-name user-name   user-engine-id user-engine-id   protocolauth {md5   sha}   protocol-passwd protocol-passwd   privedgeauth {aes   des}   priv_passwdpriv-passwd }</b>  <b>Example:</b> Switch(ProvisionSnmpConf)# setSnmpUserConf setSnmpUsersRequest priv-passwd 12345678 Switch(ProvisionSnmpConf)# setSnmpUserConf setSnmpUsersRequest privedgeauth aes Switch(ProvisionSnmpConf)# setSnmpUserConf setSnmpUsersRequest protocol-passwd 12345678 Switch(ProvisionSnmpConf)# setSnmpUserConf setSnmpUsersRequest protocolauth md5 Switch(ProvisionSnmpConf)# setSnmpUserConf setSnmpUsersRequest user-engine-id 800007e5017f000001 Switch(ProvisionSnmpConf)# setSnmpUserConf setSnmpUsersRequest user-name user1	Configures an SNMP user. <ul style="list-style-type: none"> <li>• <b>user-name</b>—Specifies user name.</li> <li>• <i>user-name</i>—User name.</li> <li>• <b>user-engine-id</b>—Specifies user engine ID.</li> <li>• <i>user-engine-id</i>—User engine ID.</li> <li>• <b>protocolauth</b>—Specifies authentication protocol.</li> <li>• <b>md5</b>—Specifies MD5 authentication protocol.</li> <li>• <b>sha</b>—Specifies SHA authentication protocol.</li> <li>• <b>protocol-passwd</b>—Specifies protocol password.</li> <li>• <i>protocol-passwd</i>—Protocol password.</li> <li>• <b>privedgeauth</b>—Specifies privilege authentication type.</li> <li>• <b>aes</b>—Specifies AES authentication.</li> <li>• <b>des</b>—Specifies DES authentication.</li> <li>• <b>priv-passwd</b>—Specifies privacy password.</li> <li>• <i>priv-passwd</i>—Privacy password.</li> </ul>
<b>Step 3</b>	<b>setSnmpUserConf review</b>  <b>Example:</b> Switch(ProvisionSnmpConf)# setSnmpUserConf review	Displays the configuration.

	Command or Action	Purpose
Step 4	<b>setSnmpUserConf commit</b>  <b>Example:</b> Switch(ProvisionSnmpConf)# setSnmpUserConf commit	Sends the configuration to NID.
Step 5	<b>getSnmpUserConf getSnmpUserConfRequest</b>  <b>Example:</b> Switch(ProvisionSnmpConf)# getSnmpUserConf getSnmpUserConfRequest	Retrieves SNMP user configuration.
Step 6	<b>getSnmpUserConf review</b>  <b>Example:</b> Switch(ProvisionSnmpConf)# getSnmpUserConf review	Displays the configuration.
Step 7	<b>getSnmpUserConf commit</b>  <b>Example:</b> Switch(ProvisionSnmpConf)# getSnmpUserConf commit	Sends the configuration to NID.
Step 8	<b>exit</b>  <b>Example:</b> Switch(ProvisionSnmpConf)# exit	Exits the ProvisionSnmpConf mode.

### Configuration Example

The example shows how to create and retrieve an SNMPv3 user:

```
Switch(ProvisionSnmpConf)# setSnmpUserConf setSnmpUsersRequest priv-passwd 12345678
Switch(ProvisionSnmpConf)# setSnmpUserConf setSnmpUsersRequest privilegeauth aes
Switch(ProvisionSnmpConf)# setSnmpUserConf setSnmpUsersRequest protocol-passwd 12345678
Switch(ProvisionSnmpConf)# setSnmpUserConf setSnmpUsersRequest protocolauth md5
Switch(ProvisionSnmpConf)# setSnmpUserConf setSnmpUsersRequest user-engine-id
800007e5017f000001
Switch(ProvisionSnmpConf)# setSnmpUserConf setSnmpUsersRequest user-name user1
Switch(ProvisionSnmpConf)# setSnmpUserConf review
Switch(ProvisionSnmpConf)# setSnmpUserConf commit

Switch(ProvisionSnmpConf)# getSnmpUserConf getSnmpUserConfRequest
Switch(ProvisionSnmpConf)# getSnmpUserConf review
Switch(ProvisionSnmpConf)# getSnmpUserConf commit
Switch(ProvisionSnmpConf)# exit
```

The following is a sample output on the NID.

```
Switch(ProvisionSnmpConf)# $ getSnmpUserConfRequest
Switch(ProvisionSnmpConf)# getSnmpUserConf review
Commands in queue:
getSnmpUserConf getSnmpUserConfRequest
Switch(ProvisionSnmpConf)# getSnmpUserConf commit
GetSnmpUserConf-Output.getSnmpUserConfResponse[0].user-name = 'user1'
GetSnmpUserConf-Output.getSnmpUserConfResponse[0].engine-id =
'800007e5017f000001'
GetSnmpUserConf-Output.getSnmpUserConfResponse[0].protocol = 'MD5'
```

```

GetSnmUserConf-Output.getSnmUserConfResponse[0].priv = 'DES'
GetSnmUserConf-Output.getSnmUserConfResponse[1].user-name =
'default-user'
GetSnmUserConf-Output.getSnmUserConfResponse[1].engine-id =
'800007e5017f000001'
GetSnmUserConf-Output.getSnmUserConfResponse[1].protocol = 'None'
GetSnmUserConf-Output.getSnmUserConfResponse[1].priv = 'None'

GetSnmUserConf Commit Success!!!

```

## Creating an SNMP User

### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	<b>ProvisionSnmConf</b>  <b>Example:</b> Switch# ProvisionSnmConf	Enters the ProvisionSnmConf mode.
<b>Step 2</b>	<b>setSnmConfig snmp-config {location location-name   contact contact-name   engine-id engine-id }</b>  <b>Example:</b> Switch(ProvisionSnmConf)# setSnmConfig snmp-config engine-id 800007e5017f000001 Switch(ProvisionSnmConf)# setSnmConfig snmp-config contact user2 Switch(ProvisionSnmConf)# setSnmConfig snmp-config location Bangalore	Configures an SNMP user. <ul style="list-style-type: none"> <li>• <b>location</b>—Specifies SNMP location.</li> <li>• <i>location-name</i>—SNMP location name.</li> <li>• <b>contact</b>—Specifies SNMP contact.</li> <li>• <i>contact-name</i>—SNMP contact name.</li> <li>• <b>engine-id</b>—Specifies engine ID.</li> <li>• <i>engine-id</i>—Engine ID.</li> </ul>
<b>Step 3</b>	<b>setSnmConfig review</b>  <b>Example:</b> Switch(ProvisionSnmConf)# setSnmConfig review	Displays the configuration.
<b>Step 4</b>	<b>setSnmConfig commit</b>  <b>Example:</b> Switch(ProvisionSnmConf)# setSnmConfig commit	Sends the configuration to NID.
<b>Step 5</b>	<b>getSnmConfig getSnmConfigRequest</b>  <b>Example:</b> Switch(ProvisionSnmConf)# getSnmConfig getSnmConfigRequest	Retrieves SNMP user configuration.
<b>Step 6</b>	<b>getSnmConfig review</b>  <b>Example:</b> Switch(ProvisionSnmConf)# getSnmConfig review	Displays the configuration.

	Command or Action	Purpose
<b>Step 7</b>	<b>getSnmpConfig commit</b>  <b>Example:</b> Switch(ProvisionSnmpConf) # getSnmpConfig commit	Sends the configuration to NID.
<b>Step 8</b>	<b>exit</b>  <b>Example:</b> Switch(ProvisionSnmpConf) # exit	Exits the ProvisionSnmpConf mode.

### Configuration Example

The example shows how to create and retrieve an SNMP user:

```
Switch(ProvisionSnmpConf) # setSnmpUserConf setSnmpUsersRequest priv-passwd 12345678
Switch(ProvisionSnmpConf) # setSnmpConfig snmp-config engine-id 800007e5017f000001
Switch(ProvisionSnmpConf) # setSnmpConfig snmp-config contact user2
Switch(ProvisionSnmpConf) # setSnmpConfig snmp-config location Bangalore
Switch(ProvisionSnmpConf) # setSnmpConfig review
Switch(ProvisionSnmpConf) # setSnmpConfig commit
```

```
Switch(ProvisionSnmpConf) # getSnmpConfig getSnmpConfigRequest
Switch(ProvisionSnmpConf) # getSnmpConfig review
Switch(ProvisionSnmpConf) # getSnmpConfig commit
Switch(ProvisionSnmpConf) # exit
```

The following is a sample output on the NID.

```
Switch(ProvisionSnmpConf) # $getSnmpConfigRequest
Switch(ProvisionSnmpConf) # getSnmpConfig commit
GetSnmpConfig-Output.getSnmpConfigResponse.location = 'Bangalore'
GetSnmpConfig-Output.getSnmpConfigResponse.contact = 'user2'
GetSnmpConfig-Output.getSnmpConfigResponse.engine-id = '800007e5017f000001'
```

