



## **snmp mib event trigger owner through snmp-server enable informs**

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## snmp-server chassis-id

To provide a message line identifying the Simple Network Management Protocol (SNMP) server serial number, use the **snmp-server chassis-id** command in global configuration mode. To restore the default value, if any, use the **no** form of this command.

**snmp-server chassis-id** *text*

**no snmp-server chassis-id**

### Syntax Description

<i>text</i>	Message that identifies the chassis serial number.
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### Command Default

On hardware platforms where the serial number can be machine read, the default is the serial number. For example, a Cisco 7000 router has a default chassis-id value of its serial number.

### Command Modes

Global configuration

### Command History

Release	Modification
10.0	This command was introduced.
12.2(33)SRA	This command was integrated into Cisco IOS Release 12.2(33)SRA.
12.2SX	This command is supported in the Cisco IOS Release 12.2SX train. Support in a specific 12.2SX release of this train depends on your feature set, platform, and platform hardware.
Cisco IOS XE Release 3.2SE	This command was implemented in Cisco IOS XE Release 3.2SE.
Cisco IOS XE Release 3.3SE	This command was implemented in Cisco IOS XE Release 3.3SE.

### Usage Guidelines

The Cisco MIB provides a chassis MIB variable that enables the SNMP manager to gather data on system card descriptions, chassis type, chassis hardware version, chassis ID string, software version of ROM monitor, software version of system image in ROM, bytes of processor RAM installed, bytes of NVRAM installed, bytes of NVRAM in use, current configuration register setting, and the value of the configuration register at the next reload. The following installed card information is provided: type of card, serial number, hardware version, software version, and chassis slot number.

The chassis ID message can be seen with the **show snmp** command.

**Examples**

In the following example, the chassis serial number specified is 1234456:

```
Router(config)# snmp-server chassis-id 1234456
```

**Related Commands**

Command	Description
<b>show snmp</b>	Checks the status of SNMP communications.
show snmp chassis	Displays the SNMP server serial number.

## snmp-server community

To set up the community access string to permit access to the Simple Network Management Protocol (SNMP), use the **snmp-server community** command in global configuration mode. To remove the specified community string, use the **no** form of this command.

**snmp-server community** *string* [**view** *view-name*] [**ro**|**rw**] [**ipv6** *nacl*] [*access-list-number*|*extended-access-list-number*] *access-list-name*]

**no snmp-server community** *string*

### Syntax Description

<i>string</i>	Community string that consists of 1 to 32 alphanumeric characters and functions much like a password, permitting access to SNMP. Blank spaces are not permitted in the community string.  <b>Note</b> The @ symbol is used for delimiting the context information. Avoid using the @ symbol as part of the SNMP community string when configuring this command.
<b>view</b>	(Optional) Specifies a previously defined view. The view defines the objects available to the SNMP community.
<i>view-name</i>	(Optional) Name of a previously defined view.
<b>ro</b>	(Optional) Specifies read-only access. Authorized management stations can retrieve only MIB objects.
<b>rw</b>	(Optional) Specifies read-write access. Authorized management stations can both retrieve and modify MIB objects.
<b>ipv6</b>	(Optional) Specifies an IPv6 named access list.
<i>nacl</i>	(Optional) IPv6 named access list.
<i>access-list-number</i>	(Optional) Integer from 1 to 99 that specifies a standard access list of IP addresses or a string (not to exceed 64 characters) that is the name of a standard access list of IP addresses allowed access to the SNMP agent.  Alternatively, an integer from 1300 to 1999 that specifies a list of IP addresses in the expanded range of standard access list numbers that are allowed to use the community string to gain access to the SNMP agent.

**Command Default** An SNMP community string permits read-only access to all objects.

**Command Modes** Global configuration (config)

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	10.0	This command was introduced.
	12.0(14)ST	This command was integrated into Cisco IOS Release 12.0(14)ST.
	12.0(17)S	This command was integrated into Cisco IOS Release 12.0(17)S.
	12.2(14)S	This command was integrated into Cisco IOS Release 12.2(14)S.
	12.3(2)T	The access list values were enhanced to support the expanded range of standard access list values and to support named standard access lists.
	12.0(27)S	The <b>ipv6 nacl</b> keyword and argument pair was added to support assignment of IPv6 named access lists. This keyword and argument pair is not supported in Cisco IOS 12.2S releases.
	12.3(14)T	The <b>ipv6 nacl</b> keyword and argument pair was integrated into Cisco IOS Release 12.3(14)T to support assignment of IPv6 named access lists. This keyword and argument pair is not supported in Cisco IOS 12.2S releases.
	12.2(28)SB	This command was integrated into Cisco IOS Release 12.2(28)SB.
	12.2(33)SRA	This command was integrated into Cisco IOS Release 12.2(33)SRA.
	12.4(11)T	This command was integrated into Cisco IOS Release 12.4(11)T.
	12.2(31)SB2	This command was integrated into Cisco IOS Release 12.2(31)SB2.
	12.2(33)SXH	This command was integrated into Cisco IOS Release 12.2(33)SXH.
	Cisco IOS XE Release 2.1	This command was introduced on Cisco ASR 1000 Aggregation Series Routers.
	12.2(33)SB	This command was integrated into Cisco IOS Release 12.2(33)SB.
	12.2(33)SRE	This command was modified. The automatic insertion of the <b>snmp-server community</b> command into the configuration, along with the community string specified in the <b>snmp-server host</b> command, is changed. The <b>snmp-server community</b> command has to be manually configured.

Release	Modification
15.1(0)M	This command was modified. The automatic insertion of the <b>snmp-server community</b> command into the configuration, along with the community string specified in the <b>snmp-server host</b> command, is changed. The <b>snmp-server community</b> command has to be manually configured.
Cisco IOS XE Release 3.2SE	This command was implemented in Cisco IOS XE Release 3.2SE.
Cisco IOS XE Release 3.3SE	This command was implemented in Cisco IOS XE Release 3.3SE.

### Usage Guidelines

The **no snmp-server** command disables all versions of SNMP (SNMPv1, SNMPv2C, SNMPv3).

The first **snmp-server** command that you enter enables all versions of SNMP.

To configure SNMP community strings for the MPLS LDP MIB, use the **snmp-server community** command on the host network management station (NMS).



#### Note

In Cisco IOS Release 12.0(3) to 12.2(33)SRD, if a community string was not defined using the **snmp-server community** command prior to using the **snmp-server host** command, the default form of the **snmp-server community** command was automatically inserted into the configuration. The password (community string) used for this automatic configuration of the **snmp-server community** was same as specified in the **snmp-server host** command. However, in Cisco IOS Release 12.2(33)SRE and later releases, you have to manually configure the **snmp-server community** command.

The **snmp-server community** command can be used to specify only an IPv6 named access list, only an IPv4 access list, or both. For you to configure both IPv4 and IPv6 access lists, the IPv6 access list must appear first in the command statement.



#### Note

The @ symbol is used as a delimiter between the community string and the context in which it is used. For example, specific VLAN information in BRIDGE-MIB may be polled using `community@VLAN_ID` (for example, `public@100`) where 100 is the VLAN number. Avoid using the @ symbol as part of the SNMP community string when configuring this command.

### Examples

The following example shows how to set the read/write community string to newstring:

```
Router(config)# snmp-server community newstring rw
```

The following example shows how to allow read-only access for all objects to members of the standard named access list lmnop that specify the comaccess community string. No other SNMP managers have access to any objects.

```
Router(config)# snmp-server community comaccess ro lmnop
```

The following example shows how to assign the string comaccess to SNMP, allow read-only access, and specify that IP access list 4 can use the community string:

```
Router(config)# snmp-server community comaccess ro 4
```

The following example shows how to assign the string manager to SNMP and allow read-write access to the objects in the restricted view:

```
Router(config)# snmp-server community manager view restricted rw
```

The following example shows how to remove the community comaccess:

```
Router(config)# no snmp-server community comaccess
```

The following example shows how to disable all versions of SNMP:

```
Router(config)# no snmp-server
```

The following example shows how to configure an IPv6 access list named list1 and links an SNMP community string with this access list:

```
Router(config)# ipv6 access-list list1
Router(config-ipv6-acl)# permit ipv6 2001:DB8:0:12::/64 any
Router(config-ipv6-acl)# exit
Router(config)# snmp-server community comaccess rw ipv6 list1
```

## Related Commands

Command	Description
<b>access-list</b>	Configures the access list mechanism for filtering frames by protocol type or vendor code.
show snmp community	Displays SNMP community access strings.
<b>snmp-server enable traps</b>	Enables the router to send SNMP notification messages to a designated network management workstation.
<b>snmp-server host</b>	Specifies the targeted recipient of an SNMP notification operation.
<b>snmp-server view</b>	Creates or updates a view entry.

## snmp-server contact

To set the system contact (sysContact) string, use the **snmp-server contact** command in global configuration mode. To remove the system contact information, use the **no** form of this command.

**snmp-server contact** *text*

**no snmp-server contact**

### Syntax Description

<i>text</i>	String that describes the system contact information.
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### Command Default

No system contact string is set.

### Command Modes

Global configuration

### Command History

Release	Modification
10.0	This command was introduced.
12.2(33)SRA	This command was integrated into Cisco IOS Release 12.2(33)SRA.
12.2SX	This command is supported in the Cisco IOS Release 12.2SX train. Support in a specific 12.2SX release of this train depends on your feature set, platform, and platform hardware.
Cisco IOS XE Release 3.2SE	This command was implemented in Cisco IOS XE Release 3.2SE.
Cisco IOS XE Release 3.3SE	This command was implemented in Cisco IOS XE Release 3.3SE.

### Examples

The following is an example of a system contact string:

```
Router(config)#snmp-server contact '{"phone": "123-456-7899", "name": "Bob"}'
```

### Related Commands

Command	Description
show snmp contact	Displays SNMP system contact information.
<b>snmp-server location</b>	Sets the system location string.