



CHAPTER 19

DLPs E301 to E399



Note

The terms "Unidirectional Path Switched Ring" and "UPSR" may appear in Cisco literature. These terms do not refer to using Cisco ONS 15xxx products in a unidirectional path switched ring configuration. Rather, these terms, as well as "Path Protected Mesh Network" and "PPMN," refer generally to Cisco's path protection feature, which may be used in any topological network configuration. Cisco does not recommend using its path protection feature in any particular topological network configuration.

DLP-E301 Automatically Configure the SNMPv3 Proxy Forwarder Table

Purpose	This procedure creates an entry in the SNMPv3 Proxy Forwarder Table.
Tools/Equipment	None
Prerequisite Procedures	DLP-E26 Log into CTC, page 16-33
Required/As Needed	As needed
Onsite/Remote	Onsite
Security Level	Provisioning or higher

- Step 1** In network view, click **Provisioning > SNMPv3** tabs.
- Step 2** In the SNMPv3 Proxy Server area, complete the following:
- Select the GNE to be used as the SNMPv3 proxy server from the drop-down list.
 - Select the **Enable IPv6 Target/Trap** check box if the nodes and the NMS stations are on an IPv6 network.
- Step 3** In the SNMPv3 Proxy Forwarder Table area, click **Auto Create**.
- Step 4** In the Automatic Configuration of SNMPv3 Proxy Forwarder dialog box, enter the following information:
- Proxy Type—Select the type of proxies to be forwarded. The options are Read and Write.
 - Security Level—Select the security level for the incoming requests that are to be forwarded. The options are:
 - noAuthNoPriv—Uses a username match for authentication.
 - AuthNoPriv—Provides authentication based on the HMAC-MD5 or HMAC-SHA algorithms.

- AuthPriv—Provides authentication based on the HMAC-MD5 or HMAC-SHA algorithms. Provides DES 56-bit encryption based on the CBC-DES (DES-56) standard, in addition to authentication.
- Target Address List—Select the proxy destination.
- Local User Name—Select the user name from the list of users.

**Note**

When you configure SNMPv3 Proxy Forwarder Table automatically, the default_group is used on the ENE. The default_group does not have write access. To enable write access and allow SNMP sets, you need to edit the default_group on ENE.

Step 5 Click **OK** to save the settings.

Step 6 Return to your originating procedure (NTP).

DLP-E302 Manually Configure the SNMPv3 Proxy Trap Forwarder Table

Purpose	This procedure creates an entry in the SNMPv3 Proxy Trap Forwarder Table.
Tools/Equipment	None
Prerequisite Procedures	DLP-E26 Log into CTC, page 16-33
Required/As Needed	As needed
Onsite/Remote	Onsite
Security Level	Provisioning or higher

Step 1 In network view, click **Provisioning > SNMPv3** tabs.

Step 2 In the SNMPv3 Proxy Server area, complete the following:

- Select the GNE to be used as the SNMPv3 proxy server from the drop-down list.
- Select the **Enable IPv6 Target/Trap** check box if the nodes and the NMS stations are on an IPv6 network.

Step 3 In the SNMPv3 Proxy Trap Forwarder Table area, click **Manual Create**.

Step 4 In the Manual Configuration of SNMPv3 Proxy Trap Forwarder dialog box, enter the following information:

- Remote Trap Source—Select the IP address from which the traps are sent. If the IP address is not listed, enter the IP address manually.
- Context Engine ID—Specify the context engine ID of the ENE from which traps need to be forwarded. This field is automatically populated if the source of trap is selected. If the source of trap is not specified, you need to manually enter the context engine ID.
- Target Tag—Specify the tag name. The tag identifies the list of NMS that should receive the forwarded traps. Traps are forwarded to all GNE Trap destinations whose proxy tags list contains this tag.
- Remote User Details
 - User Name—Specify the user name.

- Security Level—Select the security level for the user. The options are noAuthNoPriv, AuthNoPriv, and AuthPriv.
 - Authentication—Select the authentication algorithm.
 - Protocol—Select the authentication algorithm you want to use. The options are NONE, MD5, and SHA. Default is None.
 - Password—Enter the password if you select MD5 or SHA.
 - Privacy—Enables the host to encrypt the contents of the message that is sent to the agent.
 - Protocol—Select NONE or DES as the privacy authentication algorithm. Encryption is disabled if NONE is selected.
 - Password—Enter the password if you select DES. The password should not exceed 64 characters.
- Step 5** Click **OK** to save the information.
- Step 6** Return to your originating procedure (NTP).
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DLP-E302 Automatically Configure the SNMPv3 Proxy Trap Forwarder Table

Purpose	This procedure creates an entry in the SNMPv3 Proxy Trap Forwarder Table automatically.
Tools/Equipment	None
Prerequisite Procedures	DLP-E26 Log into CTC, page 16-33
Required/As Needed	As needed
Onsite/Remote	Onsite
Security Level	Provisioning or higher

- Step 1** In network view, click **Provisioning > SNMPv3** tabs.
- Step 2** In the SNMPv3 Proxy Server area, complete the following:
- Select the GNE to be used as the SNMPv3 proxy server from the drop-down list.
 - Select the Enable IPv6 Target/Trap check box if the nodes and the NMS stations are on an IPv6 network.
- Step 3** In the **SNMPv3 Proxy Trap Forwarder Table** area, click **Auto Create**.
- Step 4** In the Automatic Configuration of SNMPv3 Proxy Trap Forwarder dialog box, enter the following information:
- Target Tag—Specify the tag name. The tag identifies the list of NMS that should receive the forwarded traps. All GNE Trap destinations that have this tag in their proxy tags list are chosen.
 - Source of Trap—The list of ENEs whose traps are forwarded to the SNMPv3 Trap destinations that are identified by the Target Tag.
- Step 5** Click **OK** to save the information.
- Step 6** Return to your originating procedure (NTP).
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