Managing IPSLA Devices

This section contains the following topics:

- Understanding the IPSLA Devices Page
- Viewing IPSLA Devices
- Automatically Importing DCR Devices
- Adding Adhoc Target Devices
- Licensing Behavior While Adding Devices
- Editing IPSLA Device Attributes
- Deleting Devices from IPSLA Monitoring
Understanding the IPSLA Devices Page

For IPSLA Monitoring function work with devices, you must first add devices to Device Credential Repository (DCR). You can also add adhoc target devices for IPSLA Monitoring. The devices added for IPSLA Monitoring both from DCR and adhoc target devices, appear on the IPSLA Devices page.

**Note**

IPSLA is not supported for IOS-XR and ASR9K devices.

Table 14-1 shows the fields and buttons that are available in IPSLA Devices page.

### Table 14-1 IPSLA Devices Page

<table>
<thead>
<tr>
<th>Fields/Buttons</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPSLA Devices</td>
<td>Lists all devices in LMS. The devices are identified by the Device Name that you have entered while adding devices to Device Credential Repository (DCR).</td>
</tr>
<tr>
<td>Add Adhoc Target</td>
<td>Allows you to add adhoc target devices. For more information, see Adding Adhoc Target Devices.</td>
</tr>
<tr>
<td>Edit Device Attributes</td>
<td>Allows you to edit the device attributes. The device attributes are:</td>
</tr>
<tr>
<td></td>
<td>• SNMP Retry</td>
</tr>
<tr>
<td></td>
<td>• SNMP Timeout</td>
</tr>
<tr>
<td></td>
<td>For more information, see Editing IPSLA Device Attributes.</td>
</tr>
<tr>
<td>Update IPSLA Config</td>
<td>• Allows you to update the IPSLA responder enable or disable status</td>
</tr>
<tr>
<td></td>
<td>• Allows you to save the latest information configured in a device to the database.</td>
</tr>
<tr>
<td>Enable IPSLA Responder</td>
<td>Enables responder for the selected devices.</td>
</tr>
<tr>
<td></td>
<td>You cannot enable IPSLA responder for</td>
</tr>
<tr>
<td></td>
<td>• Devices that is not IPSLA capable</td>
</tr>
<tr>
<td></td>
<td>• Adhoc devices</td>
</tr>
<tr>
<td></td>
<td>• Devices with incorrect Read-Write and Read-Only credentials.</td>
</tr>
<tr>
<td>Delete</td>
<td>Allows you to delete devices from managing IPSLA Monitoring functionality. For more information, see Deleting Devices from IPSLA Monitoring.</td>
</tr>
<tr>
<td>Refresh (Icon)</td>
<td>Use this to update the new device count.</td>
</tr>
</tbody>
</table>

**Viewing IPSLA Devices**

The IPSLA Devices page lists all devices based on Device Type Groups, Responder Enabled Devices, and Adhoc Target devices (Monitor > Performance Settings > IPSLA > Devices).

- All Devices—Lists all DCR devices in the application with their device names. The device names are defined when you add the devices in DCR.
• Device Type Groups—Lists all devices in groups and subgroups based on their MDF type.
• User Defined Groups—Lists IPSLA devices that satisfy the group rules. The group rules are defined in IPSLA Collector Group Administration page (Admin > System > Group Management > IPSLA Collector).
• Responder Enabled Devices—Lists all responder enabled target devices.
• Adhoc Target Devices—Lists all adhoc target devices added for IPSLA Monitoring.

To view IPSLA devices, select Monitor > Performance Settings > IPSLA > Devices from the menu. The IPSLA Devices page appears with the list of devices.

Automatically Importing DCR Devices

Whenever you add devices to Device Credential Repository (DCR), the devices are added for IPSLA Monitoring automatically if the Enable Auto Mode option is checked. This option is available under Inventory > Device Administration > Device Allocation Policy.

This option is enabled by default. Hence, the devices get added for IPSLA monitoring automatically after you have added the devices to DCR.

Adding Adhoc Target Devices

You can use this option to add adhoc target devices for IPSLA Monitoring if you want to manage devices from an external source. The Adhoc devices may be either cisco devices or devices with a unique IP address.

The devices added are not included for the device license count.

To add adhoc target devices:

Step 1 Select Monitor > Performance Settings > IPSLA > Devices.
The IPSLA Devices page appears.

Step 2 Click Add Adhoc Target.
The Add Adhoc Devices page appears.

Step 3 Enter the Host Name/IP Address of the target device in the Adhoc Devices field.

\[Note\] Use comma (,) separator to add more than one device.

Step 4 Select the Enable IPSLA Responder check box if IPSLA Responder is enabled on the devices.

Step 5 Click Add to add the adhoc target devices.
A message appears that the devices are added successfully.

Step 6 Click OK.
Licensing Behavior While Adding Devices

Based on the IPSLA device license limit, you can add devices from Device Credential Repository (DCR) either automatically or manually.

Licensing Behavior While Adding Devices Automatically
Select Enable Auto mode option and then either by selecting Managing All devices or Manage by groups option on the Auto Allocation Setting, you can automatically add devices from DCR for IPSLA Monitoring.

Licensing Behavior While Adding Devices Manually
If you do not want to import devices automatically from DCR, then you can import the devices manually from DCR to IPSLA Monitoring.

Editing IPSLA Device Attributes

You can modify the device attributes for single or multiple devices listed in IPSLA Devices page. You cannot modify the adhoc target devices.

The device attributes that you can modify are:
- SNMP Retry—Number of times the system retries to access devices using SNMP options. The default value is 3. The minimum value is 0 and the maximum value is 6.
- SNMP Timeout—Duration of time that the system should wait for a device to respond before it retries to access it again. The default value is 2. The minimum value is 0 and there is no maximum value.

To edit the IPSLA device attributes:

Step 1 Select Monitor > Performance Settings > IPSLA > Devices from the menu.
The IPSLA Devices page appears.

Step 2 Select the required devices for which you want to edit the device attributes.

Step 3 Click Edit Device Attributes.
The Device Attributes Information window appears.

Step 4 Select the required device from the Devices section.

Step 5 Modify the following device attributes in the Device Information section:
- SNMP Retry (0-6 count)
- SNMP Timeout (Min 0 Secs)

You can select the Apply to all Devices check box to apply the attributes of one device to all the other devices listed in the Devices section.

Step 6 Click Modify.
A message appears that the attributes of the selected devices have been modified successfully.

Step 7 Click OK.
Deleting Devices from IPSLA Monitoring

Whenever you add devices to Device Credential Repository (DCR), the devices are added for IPSLA Monitoring automatically if the **Enable Auto Mode** option is checked. This option is available under `Inventory > Device Administration > Device Allocation Policy`.

This option is enabled by default. Hence, the devices get added for IPSLA monitoring automatically after you have added the devices to DCR.

You cannot delete the devices manually from IPSLA Monitoring.

You can also delete the IPSLA devices using the command line interface command:

```
ipm deletedevice -u admin -p admin -device Display Name
```

**Note**

View Permission Report (`Reports > System > Users > Permission`) to check if you have the required privileges to perform this task.