



## Policy Groups

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## Policy Groups

*Table 1: Feature History*

Feature Name	Release Information	Description
Policy Groups	Cisco IOS XE 26.1.1a	The information in this document is carried forward from Cisco IOS XE Release 17.18.x, with no new features introduced in Cisco IOS XE Release 26.1. This release maintains the existing functionality and enhancements from Cisco IOS XE Release 17.18.x without adding any additional capabilities.

## Information About Policy Groups

Policy groups simplify the experience of configuring and deploying various policies on SD-Routing devices. Policy groups are a collection of different policies that you can configure through workflows and associate with and deploy on different SD-Routing devices.

## Overview of Policy Groups

Policy Groups provide a simple, reusable, and structured approach for configuring policies and policy objects in SD-Routing devices.

Policy groups are a collection of various policies and policy parameters that you can configure quickly through a simplified workflow. Policy groups allows you to configure the basic and necessary policies with defaults to get your systems up and running. The more advanced user can switch to the **Advanced** layout to take complete control and configure detailed policy parameters such as service-level agreement (SLA) class,

Quality of Service (QoS) Maps, and Match-Action parameters pertaining to the traffic policy. After creating a policy group, you can associate it with one or more sites or a single device at the site in the network and deploy it on devices managed by configuration groups.

After you've configured a policy group, you can deploy it by using the [Deploy Policy Group Workflow](#).

## Overview of Policy Group Workflows

The policy group workflow guides you in creating a policy group for one or more sites or a single device at the site in the network that is managed by configuration groups in SD-Routing devices. The workflow provides you with an improved configuration and troubleshooting experience. The workflow has the following features:

- You can review the various configuration values on a single page within the workflow.
- You can easily identify and fix incorrect values that appear highlighted in red. In addition, an asterisk that is adjacent to a field name helps you identify the mandatory values within the workflow.

### Deploy Policy Group Workflow

You can access the workflow by choosing **Workflows > Deploy Policy Group** menu in Cisco SD-WAN Manager.

The **Deploy Policy Group** workflow enables you to associate devices with a previously created policy group and deploy the policy group to the selected devices. You can review device configurations to further add Site IDs and other variables that must be provided as part of a policy group before deploying the policy group.

## Benefits of Policy Groups

- Simplified user experience through an intuitive UI that allows you to quickly configure the basic policies that are required to get your deployments up and running.
- Option to edit policy groups based on the changing needs of your network and save the configuration. You can choose to deploy these changes only when needed - during maintenance windows or in off-production hours.
- A **Preview CLI** option to preview the difference in configuration for relevant devices such as Cisco SD-WAN device and SD-Routing device in one location.
- Workflows to deploy policy groups.

## Restrictions for Policy Groups

- You cannot deploy policy groups to devices that are not already managed by a configurations group.

## Configure a Group of Interest for Policy Group

Group of interest provides a list of related policy objects that you can configure and call in the match or action components of a policy. Click **Group of Interest** to create new objects for the policy group as described in the following sections:

### Application List

1. Click **Application List**.
2. Click **Add Application List**.
3. From the **Application/Application family list** drop-down, choose the required applications or application families.
4. Click **Save**.

A few application lists are preconfigured. You cannot edit or delete these lists.

**Microsoft\_Apps**: Includes Microsoft applications, such as Excel, Skype, and Xbox. To display a full list of Microsoft applications, click the list in the **Entries** column.

**Google\_Apps**: Includes Google applications, such as Gmail, Google Maps, and YouTube. To display a full list of Google applications, click the list in the **Entries** column.

### App Probe Class

1. Click **Add App Probe Class**.
2. In the **App Probe** dialog box, specify the following:

Field	Description
<b>Probe Class Name</b>	Enter a name for the probe class.
<b>Forwarding Class</b>	Choose the forwarding class from the drop-down list.
<b>Color</b>	Choose the color from the drop-down list.
<b>DSCP</b>	Enter the DSCP value.

3. You can add more entries if needed by clicking on **+ icon**.
4. Click **Save**.

To configure multiple colors in a single list, you can choose multiple colors from the drop-down list.

### Color

1. Click **Color**.
2. Click **New Color List** and specify the following:

Field	Description
<b>Color List Name</b>	Enter a name for the list.
<b>Select Color</b>	Choose one or more color lists types from the drop-down list.

3. Click **Add**.

To configure multiple colors in a single list, you can choose multiple colors from the drop-down list.

### Community List

A community list is used to create groups of communities to use in a match clause of a route map. A community list can be used to control which routes are accepted, preferred, distributed, or advertised. You can also use a community list to set, append, or modify the communities of a route.

1. Click **Community List**.
2. Click **Add Community List** and specify the following:

Field	Description
<b>Community List Name</b>	Enter a name of the community list.
<b>Add Community</b>	<p>Enter one or more communities separated by commas.</p> <ul style="list-style-type: none"> <li>• <b>aa:nn</b>: Autonomous System (AS) number and network number. Each number is a 2-byte value with a range from 1 to 65535. For example, 65526.</li> <li>• <b>internet</b>: Routes in this community are advertised to the internet community. This community comprises all BGP-speaking networking devices.</li> <li>• <b>local-as</b>: Routes in this community are not advertised outside the local AS number.</li> <li>• <b>no-advertise</b>: Attaches the NO_ADVERTISE community to routes. Routes in this community are not advertised to other BGP peers.</li> <li>• <b>no-export</b>: Attaches the NO_EXPORT community to routes. Routes in this community are not advertised outside the local AS or outside a BGP confederation boundary. To configure multiple BGP communities in a single list, include multiple <b>community</b> options, specifying one community in each option.</li> </ul>

3. Click **Save**.

### Data Prefix

1. Click **Data Prefix**.
2. Click **Add Data Prefix**.
3. In the **Data Prefix list** dialog box, specify the following:

Field	Description
<b>Data Prefix List Name</b>	Enter a name for the data prefix list.
<b>Add Data Prefix</b>	Enter one or more data prefixes separated by commas.

4. Click **Save**.

**Data Prefix IPv6**

1. Click **Data Prefix IPv6**.
2. Click **Add Data Prefix IPv6**.
3. In the **Data Prefix List** dialog box, specify the following:

Field	Description
<b>Data Prefix List Name</b>	Enter a name for the IPv6 data prefix list.
<b>Add Data Prefix</b>	Enter one or more IPv6 data prefixes separated by commas.

4. Click **Save**.

**Expanded Community List**

1. Click **Expanded Community List**.
2. Click **Add Expanded Community List** and specify the following:

Field	Description
<b>Community List Name</b>	Enter a name for the community list.
<b>Add Community</b>	Specify details of the expanded community list that is used to filter communities using a regular expression.

**Forwarding Class**

1. Click **Add Forwarding Class** and specify the following:

Field	Description
<b>Forwarding Class</b>	Enter a name for the forwarding class.
<b>Queue</b>	Choose a value for the queue from the drop-down list.

2. Click **Save**.

**Policer**

1. Click **Policer**.
2. Click **Add Policer** and specify the following:

Field	Description
<b>Policer List Name</b>	Enter a name for the policer list.
<b>Burst (bytes)</b>	Enter the maximum traffic burst size. The range is from 15,000 to 10,000,000 bytes.

Field	Description
<b>Exceed</b>	Choose the action to take when the burst size or traffic rate is exceeded. The options are: <ul style="list-style-type: none"> <li>• Drop: sets the packet loss priority (PLP) to low</li> <li>• Remark: sets the packet loss priority (PLP) to high</li> </ul>
<b>Rate</b>	Enter the maximum traffic rate, a value from 8 through 10 <sup>11</sup> bits per second (bps).

3. Click **Save**.

### Preferred Color Group

1. Click **Add Preferred Color Group**.
2. In the **Preferred Color Group Name** field, enter a name for the preferred color group.
3. Choose the color preference and path preference for the primary, secondary, and tertiary colors from the **Color Preference** and the **Path Preference** drop-down lists.

Field	Description
<b>Preferred Color Group Name</b>	Enter a name for the preferred color group.
<b>Color Preference</b>	Choose the color preference from the drop-down list. You can choose multiple colors.
<b>Path Preference</b>	Choose the path preference from the drop-down list. The options are: <ul style="list-style-type: none"> <li>• Direct Path</li> <li>• Multi Hop Path</li> <li>• All Paths</li> </ul>

4. Click **Save**.

### Prefix List

1. Click **Prefix List**.
2. Click **Add Prefix List** and specify the following:

Field	Description
<b>Prefix List Name</b>	Enter a name for the IPv4 prefix list.
<b>Add Prefix</b>	Enter one or more IPv4 prefixes separated by commas.

3. Click **Save**.

**Prefix List IPv6**

1. Click **Prefix List IPv6**.
2. Click **Add Prefix List** and specify the following:

Field	Description
<b>Prefix List Name</b>	Enter a name for the IPv6 prefix list.
<b>Add Prefix</b>	Enter one or more IPv6 prefixes separated by commas.

3. Click **Save**.

**SLA Class**

1. Click **SLA Class**.
2. Click **Add SLA Class** and specify the following:

Field	Description
<b>SLA Class List Name</b>	Enter a name of the SLA class list.
<b>Loss (%)</b>	Enter the maximum packet loss on the connection, a value from 0 through 100.
<b>Latency</b>	Enter the maximum packet latency on the connection, a value from 1 through 1,000 milliseconds.
<b>Jitter</b>	Enter the maximum jitter on the connection, a value from 1 through 1,000 milliseconds.
<b>App Probe Class</b>	Choose the app probe class from the drop-down list or click <b>Create New</b> to create one.
<b>Fallback Best Tunnel</b>	Choose this option to enable the best tunnel criteria.

3. Click **Save**.

**TLOC List**

1. Click **TLOC List**.
2. Click **Add TLOC List** and specify the following:

Field	Description
<b>List Name</b>	Enter a name for the TLOC list.
<b>TLOC IP</b>	Specify the IP address for TLOC.
<b>Color</b>	Choose the color from the drop-down list.

Field	Description
<b>Encapsulation</b>	Choose the value from the drop-down list. The options are: <ul style="list-style-type: none"> <li>• IPSec</li> <li>• GRE</li> </ul>
<b>Preference</b>	Choose a preference to associate with the TLOC. The range is 0 to 4294967295.

3. Click **Save**.

## Configure Policy Group

To create a new policy group, follow the steps below and configure the values in the following table. If you have already created a policy group, click the policy group from the list of available policy groups to edit.

1. From the Cisco SD-WAN Manager menu, choose **Configuration > Policy Groups > Add Policy Group**.
2. Enter a **Policy Group Name** and provide a description (optional).
3. Select **SD-Routing** as the **Solution** from the drop-down list.
4. Click **Create** and configure the following:

*Table 2: Policy group parameters*

Field	Description
<b>Policy Group Name</b>	Specify the name of the policy group.
<b>Description</b>	Provide a description for the policy group. It can contain up to 2048 characters including spaces.
<b>Policy</b>	
<b>NGFW</b>	Choose an NGFW policy from the drop-downlist. Click <b>Create New</b> to create a new policy.
<b>Secure Internet Gateway (SIG)/ Secure Service Edge (SSE)</b>	Configure SIG or SSE tunnels before you apply a data policy for redirecting application traffic. Select an SSE or SIG policy from the drop-down list. Click <b>Create New</b> to create a new policy.

5. Click **Save** to save your configuration.
6. Click **Deploy** to select sites and deploy the policy group.