


# Call Routing: System Provisioning - Routing

In this section:

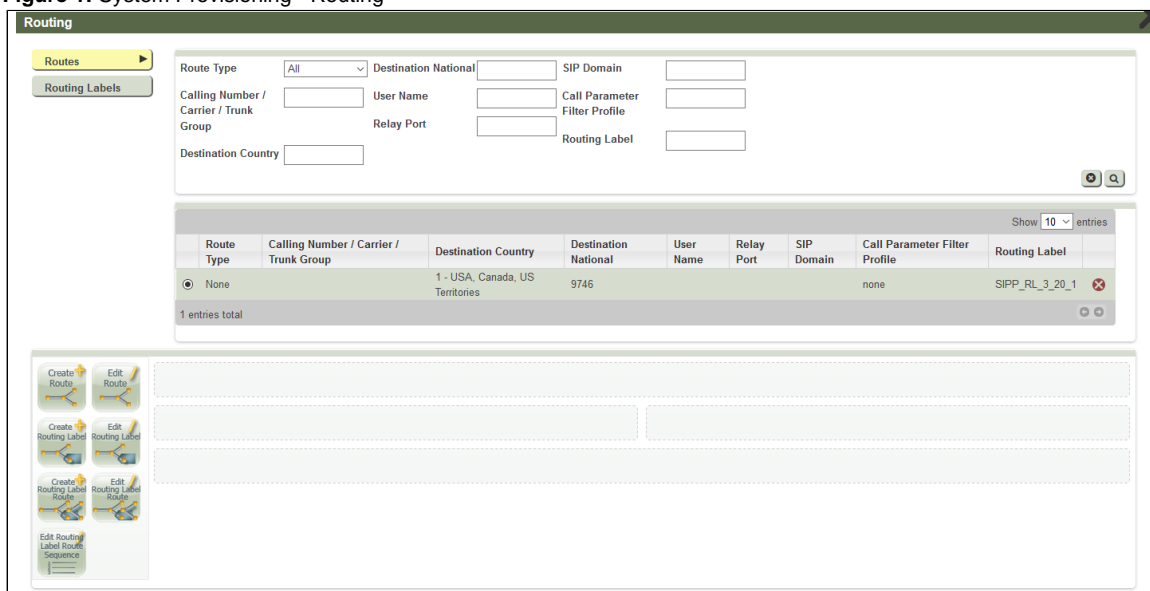
- [Route](#)
- [Routing Label](#)
- [Routing Label Route](#)
- [Routing Label Route Sequence](#)

Routing management allows you to manage all the configurations associated with routing calls based on the carriers' business requirements.

 If an SBC Application upgrade was performed recently, clear the browser cache prior to working with Routes and Routing Labels.

To view the Routing workspace, select **Configuration > System Provisioning > Category: Call Routing > Routing**. The **Routing** window displays. Click the **Routes** button.


**Figure 1:** System Provisioning - Routing



Route Type	Calling Number / Carrier / Trunk Group	Destination Country	Destination National	User Name	Relay Port	SIP Domain	Call Parameter Filter Profile	Routing Label
None	1 - USA, Canada, US Territories		9746				none	SIPPL_RL_3_20_1

The Routing screen is comprised of the following sections:

- A toggle menu displays on the left side of the screen with the option to view/edit either Routes (default) or Routing labels.
- The main workspace displays a search section and a table section which lists route information based on the selection from the toggle menu.
- A Toolkit workspace on the lower part of the screen containing chiclets used to launch the Routing tools.

 If you exit a tool without saving, your changes are not saved.

See the following sections on this page to provision routing labels, routing label routes and routes:

- [Route](#)
  - ['Create Route' Tool](#)
  - ['Edit Route' Tool](#)
  - [Delete a Route](#)
- [Routing Label](#)
  - ['Create Routing Label' Tool](#)
  - ['Edit Routing Label' Tool](#)

- Delete a Routing Label
- Routing Label Route
  - 'Create Routing Label Route' Tool
  - 'Edit Routing Label Route' Tool
  - Delete a Routing Label Route
- Routing Label Route Sequence
  - 'Edit Routing Label Route Sequence' Tool

## Route

### 'Create Route' Tool

Use this tool to create a routing label route.

1. From the Toolkit section, launch the **Create Route** chiclet



2. Enter/select desired configuration details.
3. Click **Save**.

**Figure 2:** System Provisioning - Routing Create Route Tool

 A screenshot of a web-based configuration tool titled 'Create Route'. The interface has a light gray header with a plus sign icon, the title 'Create Route', and standard window controls (info, close, maximize). The main area contains several configuration fields:
 

- Route Type:** A dropdown menu currently set to 'None'.
- Routing Type:** Three radio button options: 'Standard' (selected), 'User Name', and 'Relay'.
- Destination Country:** A dropdown menu.
- Destination National:** A text input field.
- SIP Domain:** A dropdown menu.
- Routing Label:** A dropdown menu set to 'RoutingLabel1', with a plus sign and a magnifying glass icon to its right.
- Call Parameter Filter Profile:** A dropdown menu set to 'None'.
- Time Range Profile:** A dropdown menu set to 'All'.
- Call Types:** A text input field containing 'All'.
- Digit Types:** A text input field containing 'All'.

 At the bottom of the form are two buttons: 'Undo Edits' (with a red 'x' icon) and 'Save' (with a floppy disk icon).

+ Create Route i - x

<b>Route Type</b>	<input type="text" value="None"/>
<b>Routing Type</b>	<input type="radio"/> Standard <input checked="" type="radio"/> User Name <input type="radio"/> Relay
<b>User Name</b>	<input type="text"/>
<b>SIP Domain</b>	<input type="text"/>
<b>Routing Label</b>	<input type="text" value="RoutingLabel1"/> <span style="float: right;">+ 🔍</span>
<b>Call Parameter Filter Profile</b>	<input type="text" value="None"/>
<b>Time Range Profile</b>	<input type="text" value="All"/>
<b>Call Types</b>	All
<b>Digit Types</b>	All

+ Create Route i - x

<b>Route Type</b>	<input type="text" value="None"/>
<b>Routing Type</b>	<input type="radio"/> Standard <input type="radio"/> User Name <input checked="" type="radio"/> Relay
<b>Destination Country</b>	<input type="text"/>
<b>Relay Port</b>	<input type="text"/>
<b>SIP Domain</b>	<input type="text"/>
<b>Routing Label</b>	<input type="text" value="RoutingLabel1"/> <span style="float: right;">+ 🔍</span>
<b>Call Parameter Filter Profile</b>	<input type="text" value="None"/>
<b>Time Range Profile</b>	<input type="text" value="All"/>
<b>Call Types</b>	All
<b>Digit Types</b>	All

Standard Routing Type:

Field/Control	Description
Route Type	Select route type from drop-down menu.
Routing Type	"Standard"
Destination National	Enter the destination national number.
Destination Country	Select the destination country from the drop-down menu.
SIP Domain	Select the SIP domain from the drop-down menu.
Routing Label	Select the routing label to associate with this route.
Call Parameter Filter Profile	Select the call parameter filter profile to associate with this route.
Time Range Profile	Select the time range profile to associate with this route.
All Call Types	Select this option to include all call types.
All Digit Types	Select this option to include all digit types.

**User Name Routing Type:**

Field/Control	Description
Route Type	Select route type from drop-down menu.
Routing Type	"User Name"
User Name	Enter desired User Name.
SIP Domain	Select the SIP domain from the drop-down menu.
Routing Label	Select the routing label to associate with this route.
Call Parameter Filter Profile	Select the call parameter filter profile to associate with this route.
Time Range Profile	Select the time range profile to associate with this route.
Call Types	Select this option to include all call types.
Digit Types	Select this option to include all digit types.

**Relay Routing Type:**

Field/Control	Description
Route Type	Select route type from drop-down menu.
Routing Type	"Relay"
Destination Country	Select the destination country from the drop-down menu.
Relay Port	Select the relay port from the drop-down menu.
SIP Domain	Select the SIP domain from the drop-down menu.
Routing Label	Select the routing label to associate with this route.
Call Parameter Filter Profile	Select the call parameter filter profile to associate with this route.

Time Range Profile	Select the time range profile to associate with this route.
Call Types	Select this option to include call types.
Digit Types	Select this option to include digit types.

## 'Edit Route' Tool

Use this tool to select, and then edit a route.

1. Select **Routes** from the toggle menu.
2. From the main workspace:
  - a. Use the routes search section to locate a routing label.
  - b. Select route from the table.
3. Launch the **Edit Route** chiclet



4. Edit configuration details.
5. Click **Save**.

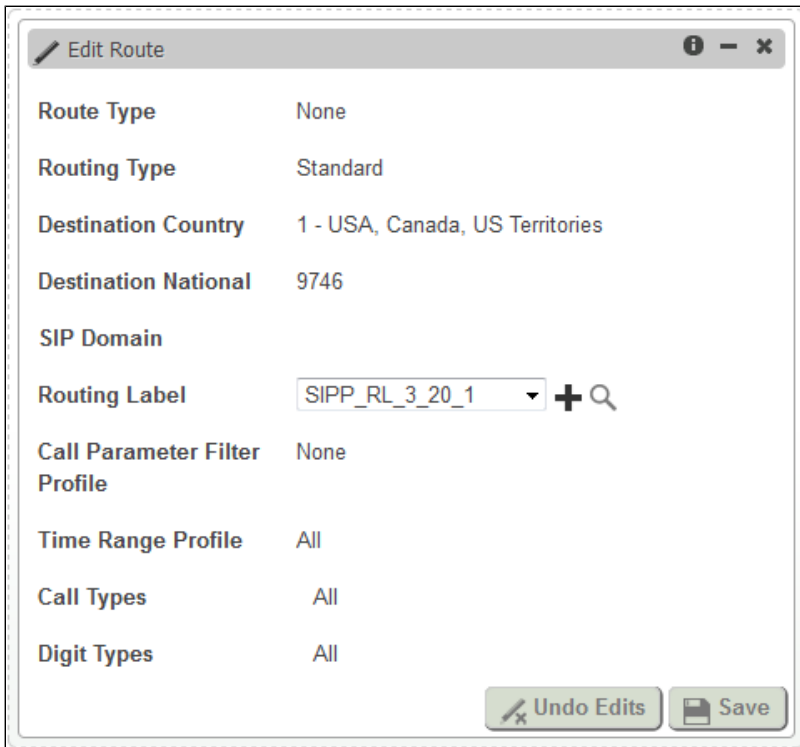
**Figure 3:** Edit Route Tool

Route search:

The screenshot shows the 'Routing' tool interface. On the left, there is a toggle menu with 'Routes' selected and 'Routing Labels' highlighted. The main workspace contains a search section with three input fields: 'ID (Name)', 'TG of Routing Label', and 'IP Peer of Routing Label'. Below the search section is a table with the following columns: ID (Name), Action, Script, Type, Overflow Number, Overflow Nature of Address, Overflow Numbering Plan Indicator, and Number of Routes per Call. The table contains two entries: 'RoutingLabel1' and 'RoutingLabelRoute1'. The 'RoutingLabelRoute1' entry is selected and highlighted with a red border. The table also shows '2 entries total' at the bottom.

ID (Name)	Action	Script	Type	Overflow Number	Overflow Nature of Address	Overflow Numbering Plan Indicator	Number of Routes per Call
RoutingLabel1	Routes		Sequence		None	None	10
RoutingLabelRoute1	Routes		Sequence		None	None	10

Edit Route:

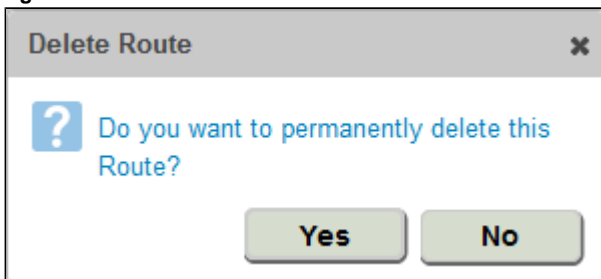


## Delete a Route

To delete a route, do the following.

1. Select **Routes** from the toggle menu.
2. From the main workspace, use the routes search section to locate a routing label.
3. Select route from the table, and click the **Delete** icon.
4. When prompted for confirmation, click **Yes** to delete the route.

Figure 4: Delete Route



## Routing Label

### 'Create Routing Label' Tool

Use this tool to create a routing label.

1. From the Toolkit section, click the **Create Routing Label** chiclet



to launch the tool.

2. Enter/select desired configuration details.
3. Click **Save**.

**Figure 5:** System Provisioning - Routing Create window

Field/Control	Description
ID (Name)	Routing Label name
Action	Options: <ul style="list-style-type: none"> <li>• Route</li> <li>• Script</li> </ul>
Prioritization Type	Options: <ul style="list-style-type: none"> <li>• Sequence</li> <li>• Proportion Allocation</li> <li>• Round-Robin</li> <li>• All Proportion Allocation</li> <li>• Least Cost Routing</li> </ul>
Overflow Number	Enter overflow number, if desired.
Overflow Nature of Address	Select from drop-down menu.
Overflow Numbering Plan Indicator	Options: <ul style="list-style-type: none"> <li>• None</li> <li>• ISDN</li> <li>• Sata</li> <li>• Telex</li> <li>• Private</li> </ul>

### 'Edit Routing Label' Tool

Use this tool to select, and then edit a routing label.

1. Select **Routing Labels** from the toggle menu.
2. From the main workspace:
  - a. Use the routing label search section to locate a routing label.
  - b. Select routing label from the table.
3. From the Toolkit section, click the **Edit Routing Label** chiclet



to launch the tool.

4. Edit configuration details.
5. Click **Save**.

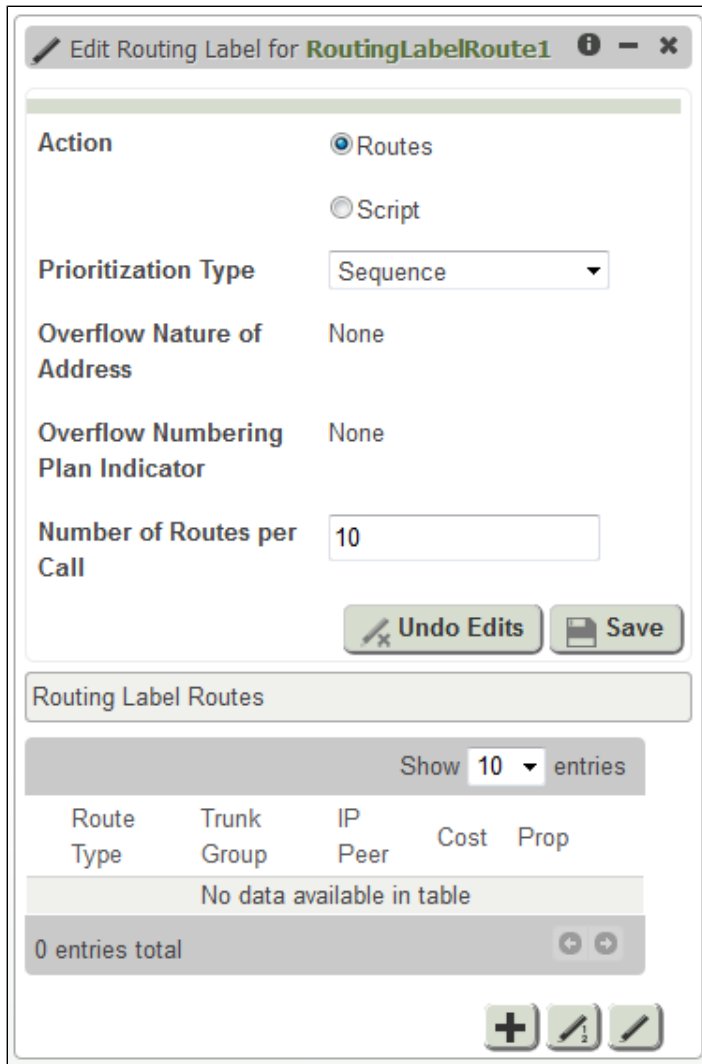
**Figure 6:** Edit Routing Label Tool

Routing Label Search:

A screenshot of a web-based interface for routing label search. The interface has a dark green header bar with the word 'Routing' in white. Below the header, there are two toggle buttons: 'Routes' and 'Routing Labels', with 'Routing Labels' being selected and highlighted in yellow. To the right of the toggles is a search section with three input fields: 'ID (Name)', 'TG of Routing Label Routes', and 'IP Peer of Routing Label Routes'. Below the search fields is a table with columns: 'ID (Name)', 'Action', 'Script', 'Type', 'Overflow Number', 'Overflow Nature of Address', 'Overflow Numbering Plan Indicator', and 'Number of Routes per Call'. The table contains two rows: 'RoutingLabel1' and 'RoutingLabelRoute1'. The 'RoutingLabelRoute1' row is selected and highlighted with a red border. At the bottom of the table, it says '2 entries total'. There are also some small icons for search and refresh.

Edit Routing Label:





## Delete a Routing Label

To delete a routing label and its associated routing label routes, do the following.

1. Select **Routing Labels** from the toggle menu.
2. From the main workspace, use the routing label search section to locate a routing label.
3. Select routing label from the table.
4. From the Action column, click the **Delete** icon.
5. When prompted for confirmation, click **Yes** to delete the routing label



You cannot delete a routing label that is associated with a route. Point the route to another routing label before attempting to delete the routing label.

**Figure 7:** Delete Routing Label

Routing Label Search:

**Routing**

Routes  
Routing Labels ▶

ID (Name)  TG of Routing Label  IP Peer of Routing Label Routes

Show 5 entries

ID (Name)	Action	Script	Type	Overflow Number	Overflow Nature of Address	Overflow Numbering Plan Indicator	Number of Routes per Call
<input type="radio"/> RoutingLabel1	Routes		Sequence		None	None	10
<input checked="" type="radio"/> RoutingLabelRoute1	Routes		Sequence		None	None	10

2 entries total

Delete confirmation:

**Delete Routing Label** ✕

? Do you want to permanently delete this Routing Label and any Routing Label Routes it may have?

Yes No

## Routing Label Route

### 'Create Routing Label Route' Tool

Use this tool to create a routing label route.

1. From the Toolkit section, click the **Create Routing Label Route** chiclet



to launch the tool.

2. Enter/select desired configuration details.
3. Click **Save**.

**Figure 8:** Create Routing Label Route Tool

**Create Routing Label Route**

Click on the Create button from inside the Create Routing Label or Edit Routing Label tool to identify what Routing label this will be created for.

**Route Type**

**Zone for TG and IP Peer**

**Trunk Group**

**IP Peer**

**Cost**

**Proportion**

**Test**

**In Service**

When Trunk Group is selected as the option for **Route Type**, all the Trunk Group related fields are displayed.

**Create Routing Label Route**

Click on the Create button from inside the Create Routing Label or Edit Routing Label tool to identify what Routing label this will be created for.

**Route Type**

**Zone for TG and IP Peer**

**Trunk Group**

**IP Peer**

**Cost**

**Proportion**

**Test**

**In Service**

When IP Peer is selected as the option for **Route Type**, the Trunk Group related fields are hidden and the field, "Zone for TG and IP Peer" is changed to "Zone for IP Peer". This enhancement allows you to create **Routing Label Routes** with just an IP Peer as an option.

+ Create Routing Label Route
i - x

Click on the Create button from inside the Create Routing Label or Edit Routing Label tool to identify what Routing label this will be created for.

<b>Route Type</b>	<input type="text" value="IP Peer"/>
<b>Zone for IP Peer</b>	<input type="text" value="EXTERNAL"/> <span style="font-size: x-small;">Q</span>
<b>IP Peer</b>	<input type="text" value="BELUR_EXT_EMS_peer"/> <span style="font-size: x-small;">Q</span>
<b>Cost</b>	<input type="text"/>
<b>Proportion</b>	<input type="text"/>
<b>Test</b>	<input type="text" value="Normal"/>
<b>In Service</b>	<input checked="" type="checkbox"/>

Field/Control	Description
Route Type	<p>Select the route type associated with this routing label route.</p> <ul style="list-style-type: none"> <li>Trunk Group (default): When Trunk Group is selected as the option for <b>Route Type</b>, all the Trunk Group related fields are displayed.</li> <li>IP Peer: When IP Peer is selected as the option for <b>Route Type</b>, the Trunk Group related fields are hidden and the field, "Zone for TG and IP Peer" is changed to "Zone for IP Peer". This enhancement allows you to create <b>Routing Label Routes</b> with just an IP Peer as an option.</li> </ul>
Zone for TG and IP Peer	Select the Zone associated with the Trunk Group and IP Peer.
Trunk Group	Choose a trunk group to associate with this routing label route from the drop-down menu.
IP Peer	Select the IP Peer from the drop-down menu.
Cost	Enter the relative cost of this route to the carrier.
Proportion	Enter a value that specifies the proportion of calls where this route should be the first route choice. If three routes are assigned to this Routing Label with proportions 80, 70, 50, the SBC returns the route assigned the proportion of 80 as the first route 40% of the time (80/200). The total can be any whole number.
Testing	<p>Select the desired mode for making test calls:</p> <ul style="list-style-type: none"> <li><b>Normal</b> - After testing and verifying a route, select this option to use the route for live calls. When selected, the SBC returns the route regardless of the calling party category (CPC) value, or absence of a CPC value, received in the policy request. (Default setting).</li> <li><b>Test</b> - When the CPC value in a policy request is Test Call, the SBC returns the route. When the CPC value is not Test Call or is not present in the policy request, the SBC does not return the route.</li> <li><b>Non-Test</b> - When the CPC value in a policy request is Test Call, the SBC does not return the route. When the CPC value is not Test Call or is not present in the policy request, the SBC returns the route. Select this option for routes not to be returned during testing.</li> </ul>
In Service	Select to indicate route is available for routing.



- If the number representing the chosen Trunk Group matches with the code of any of the nations, the SBC assigns the corresponding nation's name to the Trunk Group.
- After 20 entries are configured in the same Zone under Trunk Group (TG) or IP Peer, the drop-down list adjacent to the TG field disappears. The drop-down list is replaced by a new search panel.

Figure 9: New Search Panel

The image shows two panels from a software interface. The top panel is titled "Find Trunk Group for Create Routing Label" and contains search filters for Zone (defaultSigZone), Name (empty text box), Type (All), State (two radio buttons), and Mode (two checkboxes). Below the filters is a table with columns Name, Type, State, and Mode, displaying "No data available in table" and "0 entries total". The bottom panel is titled "Create Routing Label Route" and contains configuration fields for Route Type (Trunk Group), Zone for TG and IP Peer (defaultSigZone), Trunk Group, IP Peer, Cost, Proportion, Test (Normal), and In Service (checked). It also has "Undo Edits" and "Save" buttons.

### 'Edit Routing Label Route' Tool

Use this tool to select, and then edit a routing label route.

1. Select **Routing Labels** from the toggle menu.
2. From the main workspace:
  - a. Use the routing label search section to locate a routing label.
  - b. Select routing label from the table.

3. Click either the **Create Routing Label**



or **Edit Routing Label** chiclet



or choose the same options using



in the Routing Label Routes panel to launch the respective tool.

4. Choose a routing label route from the list.
5. Click the **Edit Routing Label** chiclet



to launch the tool.

6. Edit configuration details.
7. Click **Save**.

**Figure 10:** Edit Routing Label Route Tool


✎ Edit Routing Label Route for routingLblRout2 ⓘ - ✕

<b>Route Type</b>	<input type="text" value="Trunk Group"/>
<b>Zone for TG and IP Peer</b>	<input type="text" value="defaultSigZone"/> 🔍
<b>Trunk Group</b>	<input type="text" value="SipTrmkGrp1"/> 🔍
<b>IP Peer</b>	<input type="text"/> 🔍
<b>Cost</b>	<input type="text" value="100000"/>
<b>Proportion</b>	<input type="text" value="2"/>
<b>Test</b>	<input type="text" value="Normal"/>
<b>In Service</b>	<input checked="" type="checkbox"/>

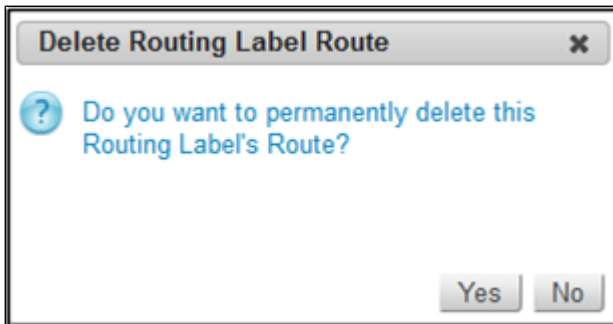
## Delete a Routing Label Route

To delete a routing label route, do the following.

1. Select **Routing Labels** from the toggle menu.
2. From the main workspace:
  - a. Use the routing label search section to locate a routing label.

- b. Select routing label from the table.
3. Click the **Edit Routing Label** chiclet
 
 to launch the tool.
4. Choose a routing label route from the table.
5. In the Action column, click the **Delete** icon.
6. When prompted for confirmation, click **Yes** to delete the routing label route.

**Figure 11:** Delete Routing Label Route



## Routing Label Route Sequence

### 'Edit Routing Label Route Sequence' Tool

Use this tool to select, and then edit a routing label route sequence.

1. Select **Routing Labels** from the toggle menu.
2. From the main workspace, do one or both:
  - a. Use the routing label search section to locate a routing label.
  - b. Select routing label from the table.
3. Click either the **Create Routing Label**




or **Edit Routing Label** chiclet



or choose the same options using



in the Routing Label Routes panel to launch the respective tool.

4. Choose a routing label route from the list.
5. Click the **Edit Routing Label** chiclet
 
 to launch the tool.
6. Click and drag the routing label route(s) to their preferred order.
7. Click **Save**.

**Figure 12:** Edit Routing Label Route Sequence Tool

Original order:

**Edit Routing Label Route Sequence** ⓘ - ✕

ⓘ Drag and drop the Routing Label Routes to the preferred sequence. Click the save button when complete.

	Orig Order	Name	IP Peer	Cost	Proportion
1.	1	SIP123456		10	30
2.	2	SIP123456		50	20
3.	3	SIP123456		45	20

⚡ 📁

Rearranged order:

**Edit Routing Label Route Sequence** ⓘ - ✕

ⓘ Drag and drop the Routing Label Routes to the preferred sequence. Click the save button when complete.

	Orig Order	Name	IP Peer	Cost	Proportion
1.	3. 2	SIP123456		50	20
2.	1	SIP123456		10	30
4.	3	SIP123456		45	20

⚡ 📁

New order:

**Edit Routing Label Route Sequence** ⓘ - ✕

ⓘ Drag and drop the Routing Label Routes to the preferred sequence. Click the save button when complete.

	Orig Order	Trunk Group	IP Peer	Cost	Proportion
1.	2	SIP123456		50	20
2.	1	SIP123456		10	30
3.	3	SIP123456		45	20

⚡ 📁



