



## Using the Service Configuration Editor

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To configure a Cisco Service Control Engine (Cisco SCE) platform to handle traffic, you must define a service configuration and apply it to the platform. Use the Service Configuration Editor tool to create, define, and manage service configurations.

This module describes how to use the Service Configuration Editor tool.

- [Service Configurations](#) , page 1
- [Managing Service Configurations](#) , page 1

## Service Configurations

A service configuration is a data structure that defines how the Cisco SCE platform analyses network traffic, what rules apply to the traffic, and what actions the Cisco SCE platform takes to enforce these rules.

A service configuration consists of the following two main elements:

- Services—Define the categories to which transactions are classified
- Packages—Define how the Cisco SCE platform acts upon transactions from different services

Service configurations are stored as PQB files.

## Managing Service Configurations

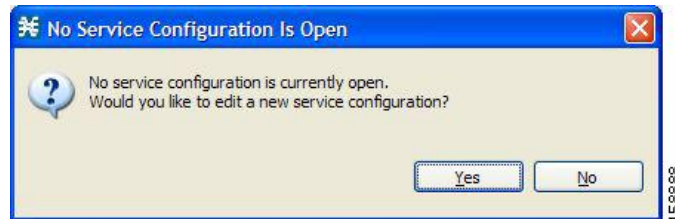
This section explains how to:

- Manage service configurations
- Export and import service configuration data
- Apply service configurations to Cisco SCE platforms and retrieve them

## Opening the Service Configuration Editor Tool

If no service configurations are open when you open or switch to the Service Configuration Editor tool, a No Service Configuration Is Open dialog box appears.

**Figure 1: No Service Configuration Is Open**



### Procedure

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- Step 1** To create a new service configuration (see [Adding New Service Configurations](#), on page 2), click **Yes**.
- Step 2** To open an existing service configuration (see [Opening Existing Service Configurations](#), on page 4), click **No**.
- The Configuration option is included in the main menu only when at least one service configuration is open. You can have many service configurations open at a time; each is displayed in its own view, and you click a view to make the service configuration of the view active.
- When a service configuration has unsaved changes, an asterisk precedes its name on the view.
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## Adding New Service Configurations

You can add a new service configuration whenever necessary.



### Note

You cannot add a second new service configuration until you have saved the first one.

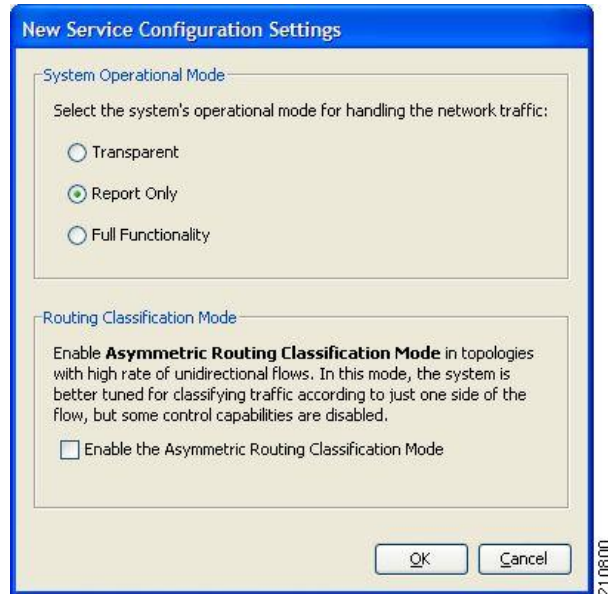
When a new service configuration opens, it contains the default service configuration supplied with SCA BB. This includes a default package, which contains a default service rule.

### Procedure

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- Step 1** In the Console toolbar, click  (New Service Configuration).

A New Service Configuration Settings dialog box appears.

**Figure 2: New Service Configuration Settings**



**Step 2** Select an operational mode for the service configuration.

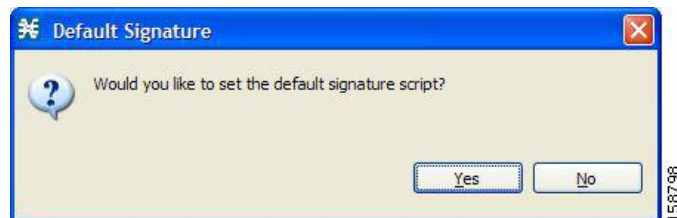
**Step 3** Select a routing classification mode for the system.

Selecting asymmetric routing classification mode gives more accurate protocol classification in topologies with a high rate of unidirectional flows. Several classification, reporting, and control features are not supported when this mode is enabled (see [Asymmetric Routing Classification Mode](#))

**Step 4** Click OK.

If you have set a default DSS file, a Default Signature message appears.

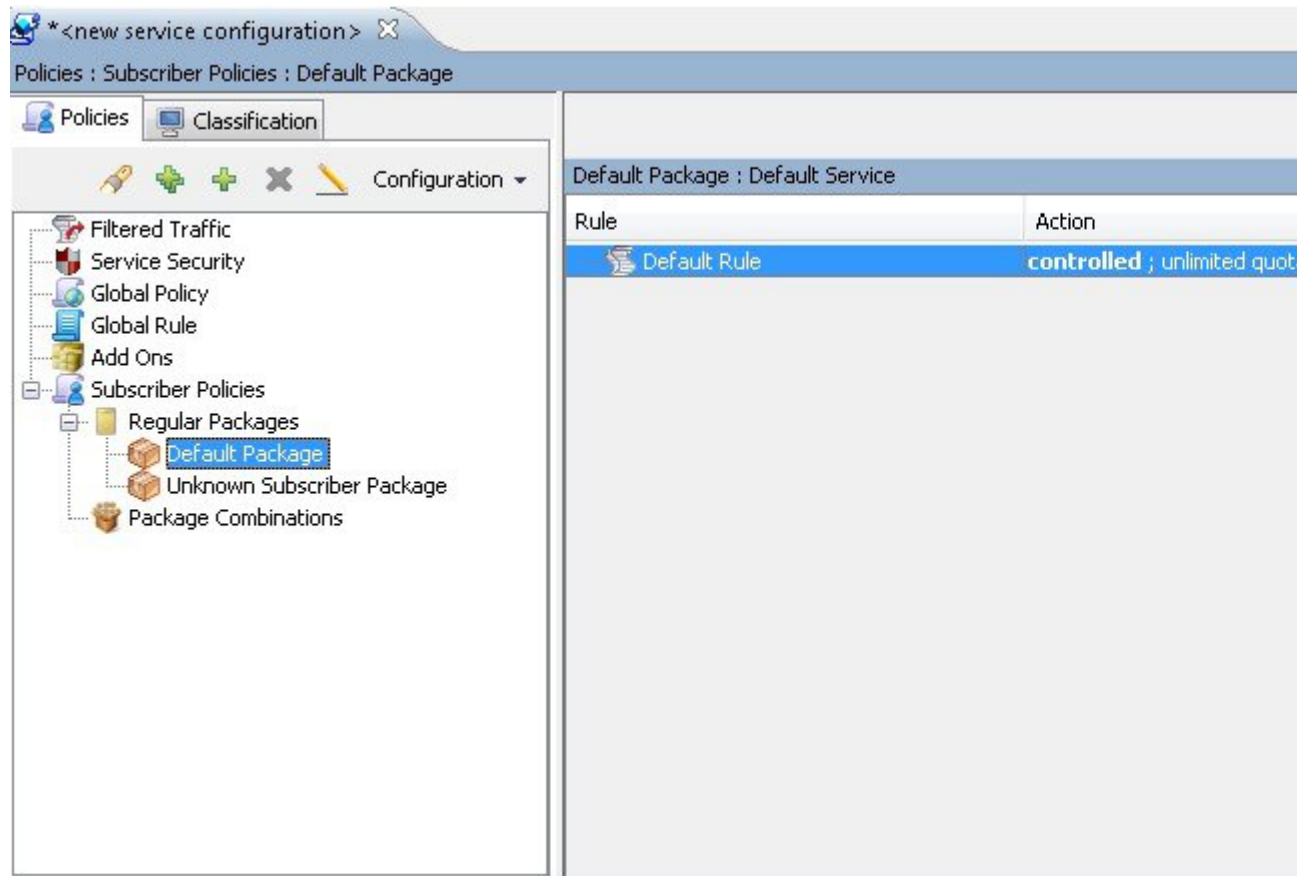
**Figure 3: Default Signature**



**Step 5** (Recommended) Click Yes to import the default DSS file. Click No to continue without importing the default DSS file.

The new service configuration is added to the Console window, open on the Network Traffic tab, and becomes the active service configuration.

**Figure 4: Service Configuration Editor**



## Opening Existing Service Configurations

You can open a saved service configuration for viewing or for editing, or to apply it to a Cisco SCE platform. Service configuration files have the extension PQB.

### Procedure

#### Step 1

In the Console toolbar, click the Open A Service Configuration File (📁) icon. Alternatively, you can choose File > Open Service Configuration from the Console main menu. An Open dialog box appears.

#### Step 2

Browse to a service configuration file.

- Step 3** Click Open.  
The Open dialog box closes.

If the default DSS file has not been imported into the service configuration, a Default Signature message appears.

**Figure 5: Default Signature**



- Step 4** (Recommended) Click Yes to import the default DSS file. Click No to continue without importing the default DSS file.

The service configuration is loaded into the Console. This service configuration becomes the active service configuration. The title of the Console window includes the name of the service configuration.



**Note**

Common SCABB console is going to be used for SCE 8000 platform releases.

SCE 8000 platform level service tree will be maintained if we open 4.1.x, 5.1.x or any earlier release PQB file in 5.2.0 SCABB console.

## How to Save the Current Service Configuration

You can save the active service configuration.

### Saving the Current Service Configuration to a Service Configuration File

#### Procedure


- Step 1** From the Console main menu, choose File > Save As .  
A Save As dialog box appears.
- Step 2** If prompted, enter your password.
- Step 3** Browse to the folder where you want to save the file containing the service configuration.
- Step 4** In the File name field, enter a new file name, or select an existing PQB file.
- Step 5** Click Save.  
During processing, a Saving Service Configuration File message appears.

The service configuration is saved to the selected file. If the file exists, it is overwritten.

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## Saving the Current Service Configuration to the File from Which it Was Loaded

### Procedure

In the Console toolbar, click the Save (  ) icon.  
If the current service configuration was not loaded from a PQB file (that is, if it is new, or it was retrieved from a SCE platform), the Save As dialog box opens as in the previous procedure.

## Closing Service Configurations

### Procedure

- Step 1** On the service configuration view, click the Close (  ) icon.  
If there are no unsaved changes, the service configuration view closes. If there are unsaved changes a Save Resource message appears.

**Figure 6: Save Resource**



- Step 2** Click Yes.
- If this is an existing edited service configuration, the changes are saved and the service configuration view closes.
  - If this is a new service configuration, a Save As dialog box opens.
- Step 3** Enter a name for the service configuration and click Save.  
The Save As dialog box closes, the changes are saved, and the service configuration view closes.
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## Exporting Service Configuration Data

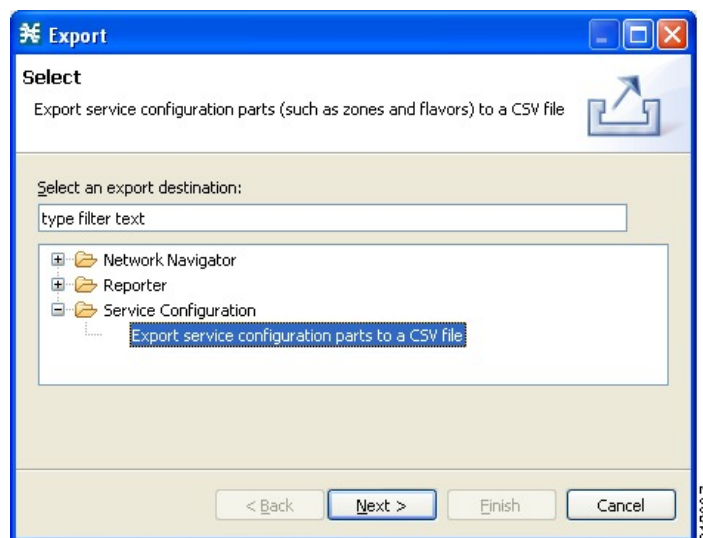
You can export service configuration data from the current service configuration to CSV files. The CSV file formats are described in the “CSV File Formats” chapter of *Cisco Service Control Application Suit for Broadband Reference Guide*.

Each type of service configuration element is exported to a separate file.

### Procedure

- Step 1** From the Console main menu, choose **File > Export**.  
The Export dialog box appears.

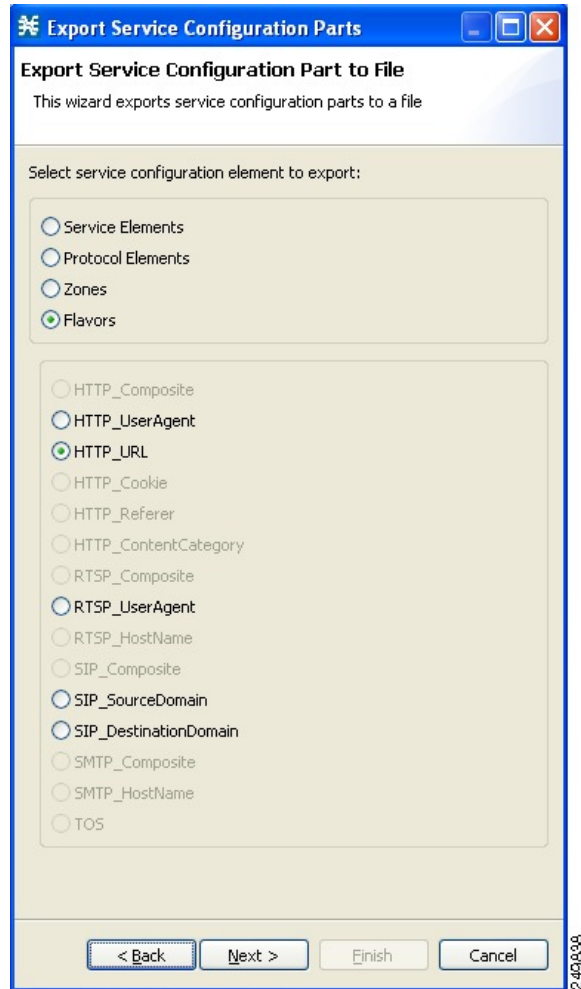
**Figure 7: Export**



- Step 2** From the export destination list, select Export service configuration parts to CSV file .
- Step 3** Click Next.

The Export Service Configuration Parts dialog box appears.

**Figure 8: Export Service Configuration Parts to File**



**Step 4** Select one of the Select service configuration element to export radio buttons:

- Service Elements
- Protocol Elements
- Zones
- Flavors

If you select Flavors, the flavors in the flavor area of the dialog box are enabled.

If you select Zones or Flavors, you have a choice to export the data in Standard format or Easy format.

In Easy format for flavor CSV files, lines in the files are in single URL format. for example, `http://*.cisco.com/files*`. Similarly, in Easy format for zone CSV files, lines in the files contains only zone items. For example, `1.0.0.0/32`.



For more details on Standard format and Easy format, see the *Cisco Service Control Application for Broadband Reference Guide*.

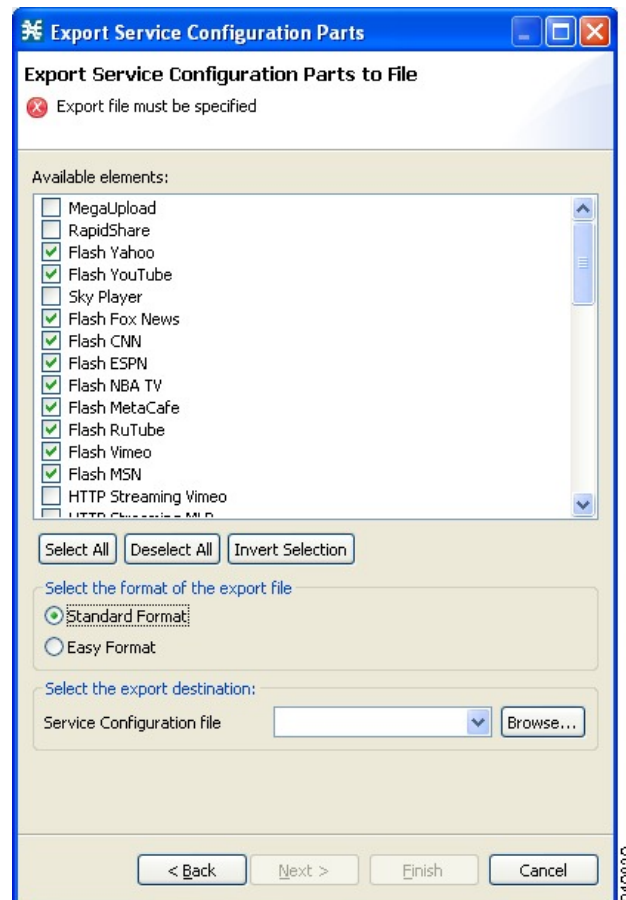
**Note** Only those flavors for which a flavor type is defined in this service configuration are enabled.

**Step 5** If you selected Flavors, select one of the flavor type radio buttons.

**Step 6** Click **Next**.

The second screen of the Export Service Configuration Parts dialog box opens.

**Figure 9: Export Service Configuration Parts to File**



The Available elements pane lists all elements in the service configuration of the selected type.

**Step 7** Select the elements to export, using the check boxes and the select buttons.

**Step 8** (Only for Zones and Flavors) Select the format of the export file.

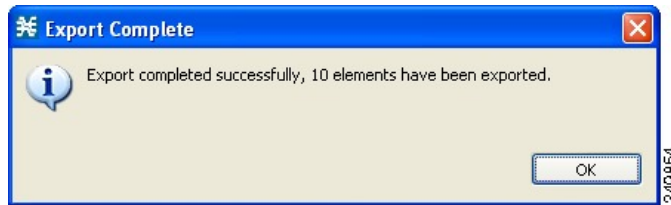
**Step 9** In the Select the export destination area, click **Browse**.  
An Open dialog box appears.

**Step 10** Browse to the folder where you want to save the file containing the service configuration elements.

**Step 11** In the File name field, enter a new file name, or select an existing CSV file.  
(Only for Zones and Flavors) For Easy format, you must select the folder and the file name is the Zone or Flavor name.

- Step 12** Click **Open** to select the file.  
If the file exists, it is overwritten.  
The Open dialog box closes.
- Step 13** Click Finish.  
The selected service configuration elements are exported to the file.  
An Export Complete message appears.

**Figure 10: Export Complete**



- Step 14** Click **OK**.  
The Export Service Configuration Parts dialog box closes.
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## Importing Service Configuration Data

You can import service configuration data to the current service configuration from CSV files. The CSV file formats are described in the “CSV File Formats” chapter of Cisco Service Control Application Suit for Broadband Reference Guide.

Each type of service configuration element is imported from a separate file.

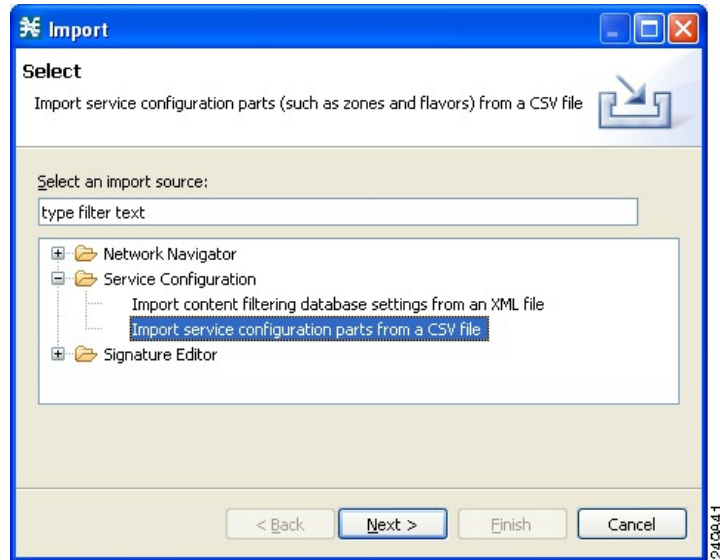
### Procedure

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- Step 1** From the Console main menu, choose File > Import .

The Import dialog box appears.

**Figure 11: Import**

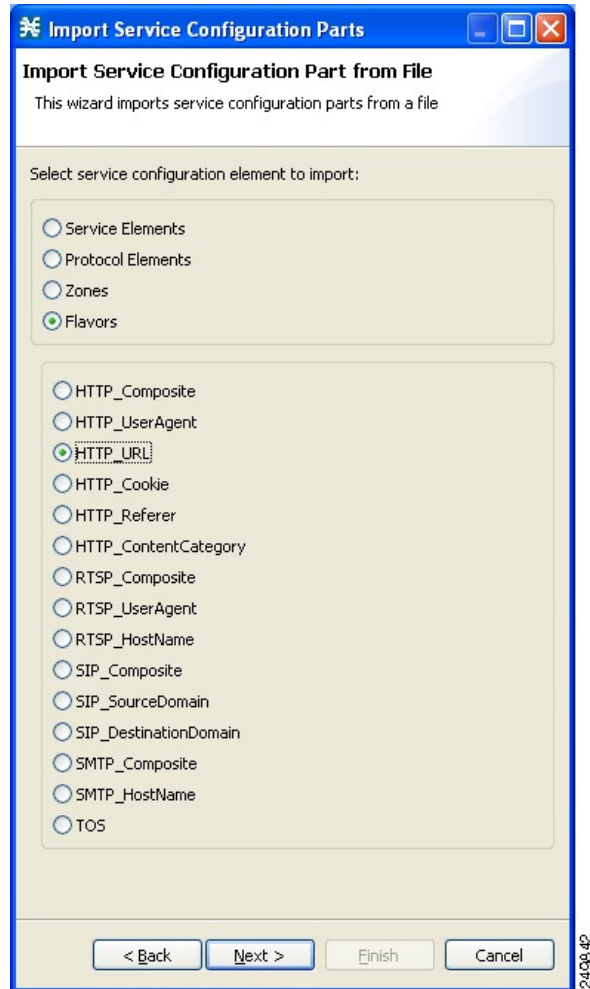


**Step 2** From the Select an import source list, select Import service configuration parts from CSV file .

**Step 3** Click Next.

The Import Service Configuration Parts dialog box appears.

**Figure 12: Import Service Configuration Parts from File**



**Step 4** Select one of the Select service configuration element to import radio buttons:

- Service Elements
- Protocol Elements
- Zones
- Flavors

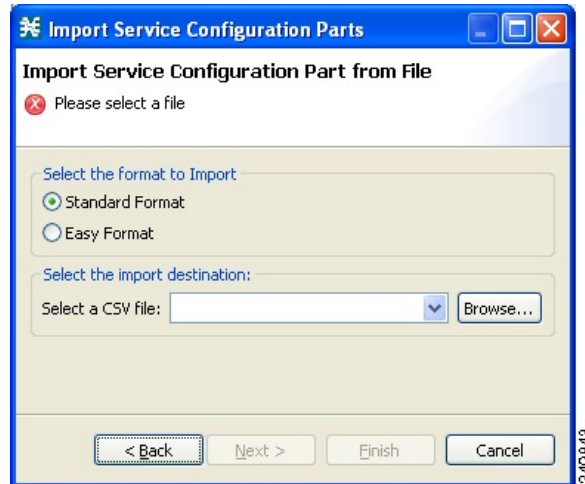
If you select Flavors, the flavors in the flavor area of the dialog box are enabled.

**Step 5** If you selected Flavors, select one of the flavor type radio buttons.

**Step 6** Click Next .

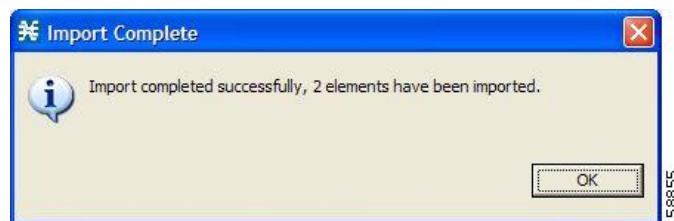
The second screen of the Import Service Configuration Parts dialog box opens.

**Figure 13: Import Service Configuration Parts from File**



- Step 7** (Only for Zones and Flavors) Select the format to Import.
- Step 8** Click Browse.  
An Open dialog box appears.
- Step 9** Browse to the folder containing the file to import, and select a CSV file.
- Step 10** Click Open to select the file.  
The Open dialog box closes.
- Step 11** Click Finish.  
The configuration elements are imported from the file.  
An Import Complete message appears.

**Figure 14: Import Complete**



- Step 12** Click OK.  
The Import Service Configuration Parts dialog box closes.

## How to Apply and Retrieve Service Configurations

For a new or edited service configuration to take effect, you must apply it to the Cisco SCE platform. Until you do, the Cisco SCE platform continues to enforce the previous service configuration.

You can use the Service Configuration Editor to apply a service configuration to a Cisco SCE platform, but not to retrieve a service configuration.

You can apply or retrieve a service configuration using:

- [The Network Navigator Tool](#)
- **servconf**, the Cisco SCA BB Service Configuration Utility (see [The Cisco SCA BB Service Configuration Utility](#))

## Validating the Current Service Configuration

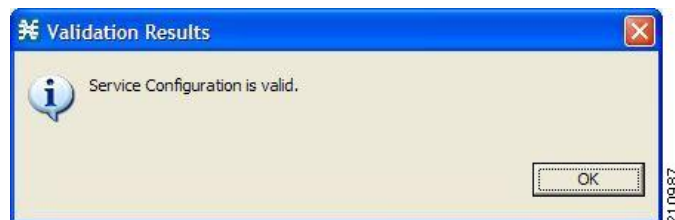
Use the Validate option to validate the new or updated service configuration currently displayed. The validation process checks for overall service configuration coherence, and points out possible pitfalls in the service configuration.

The Validate process runs automatically when you select Apply Service Configuration to SCE devices. The Validation Results dialog box appears only if the procedure found errors or issued warnings about the current service configuration.

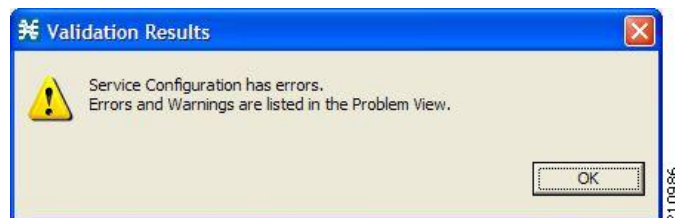
### Procedure

- Step 1** From the Console main menu, choose File > Validate .  
The Validation Results dialog box appears.

**Figure 15: Validation Results - Service Configuration is valid**



**Figure 16: Validation Results - Service Configuration has errors**



Any problems with the service configuration are listed in the Problems view.

- Step 2** Click OK.  
The Service Configuration Validation dialog box closes.
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## Applying a Service Configuration to SCE Platforms

When you click Apply Service Configuration to SCE Devices, the validation process runs automatically on the current service configuration.



**Note** You can use the Validate menu command to validate the service configuration manually.

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**Note** If anomaly-based detection of malicious traffic is enabled, any access control list (ACL) that is configured on the Service Control Engine (SCE) platform but is not applied to anything (for example, an interface, an access map, or an SNMP community string) might be deleted when a service configuration is applied to the platform. Workaround : Disable anomaly-based detection of malicious traffic. In the Network Traffic tab, select Service Security . In the Service Security Dashboard, clear the Enable anomaly detection check box.

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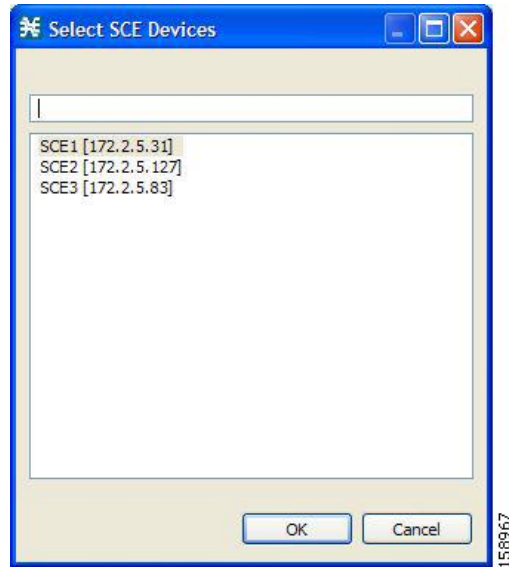
### Procedure

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- Step 1** In the Console toolbar, click the **Apply Service Configuration to SCE Devices** ().

The Select SCE Devices dialog box appears.

**Figure 17: Select SCE Devices**



All SCE platforms defined in the Network Navigator are listed in the dialog box.

**Step 2** Select one or more SCE platforms from the list.

**Step 3** Click OK.

A Password Management dialog box appears for each platform selected.

**Step 4** Enter the appropriate password.

**Step 5** Click **Apply**.

The Password Management dialog box closes.

An Applying service configuration to SCE progress bar appears for each SCE platform selected.

The validation process runs on the service configuration.

- If there is a problem and the validation process ends with a warning or error, the Validation Results dialog box appears. Click OK, modify the service configuration based on the information provided in the Problems view, and then repeat this procedure.
- If the validation process runs successfully, the service configuration is applied to the selected SCE platforms.