

**SAP Composite Application
Framework**



**Administering
Entity Classification**



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Typographic Conventions

Icons

Type Style	Represents	Icon	Meaning
<i>Example Text</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options.		Caution
	Cross-references to other documentation.		Example
Example text	Emphasized words or phrases in body text, graphic titles, and table titles.		Note
EXAMPLE TEXT	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.		Recommendation
Example text	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.		Syntax
Example text	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.		
<Example text>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.		
EXAMPLE TEXT	Keys on the keyboard, for example, F2 or ENTER.		

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Prerequisites

Before you start with this tutorial you should have installed the following Software:

- SAP Web Application Server Java 7.0
- KM Server
- SAP NetWeaver Developer Studio 7.0

This tutorial is based on the following How-to Guides:

- Create an Application Service

Additionally you should have configured CAF as described in the How-to Guide “Installation and Configuration Guide”.

Applicable Releases

This tutorial is compatible with the following releases:

- SAP NetWeaver '04s
- SAP Composite Application Framework (CAF) 7.0

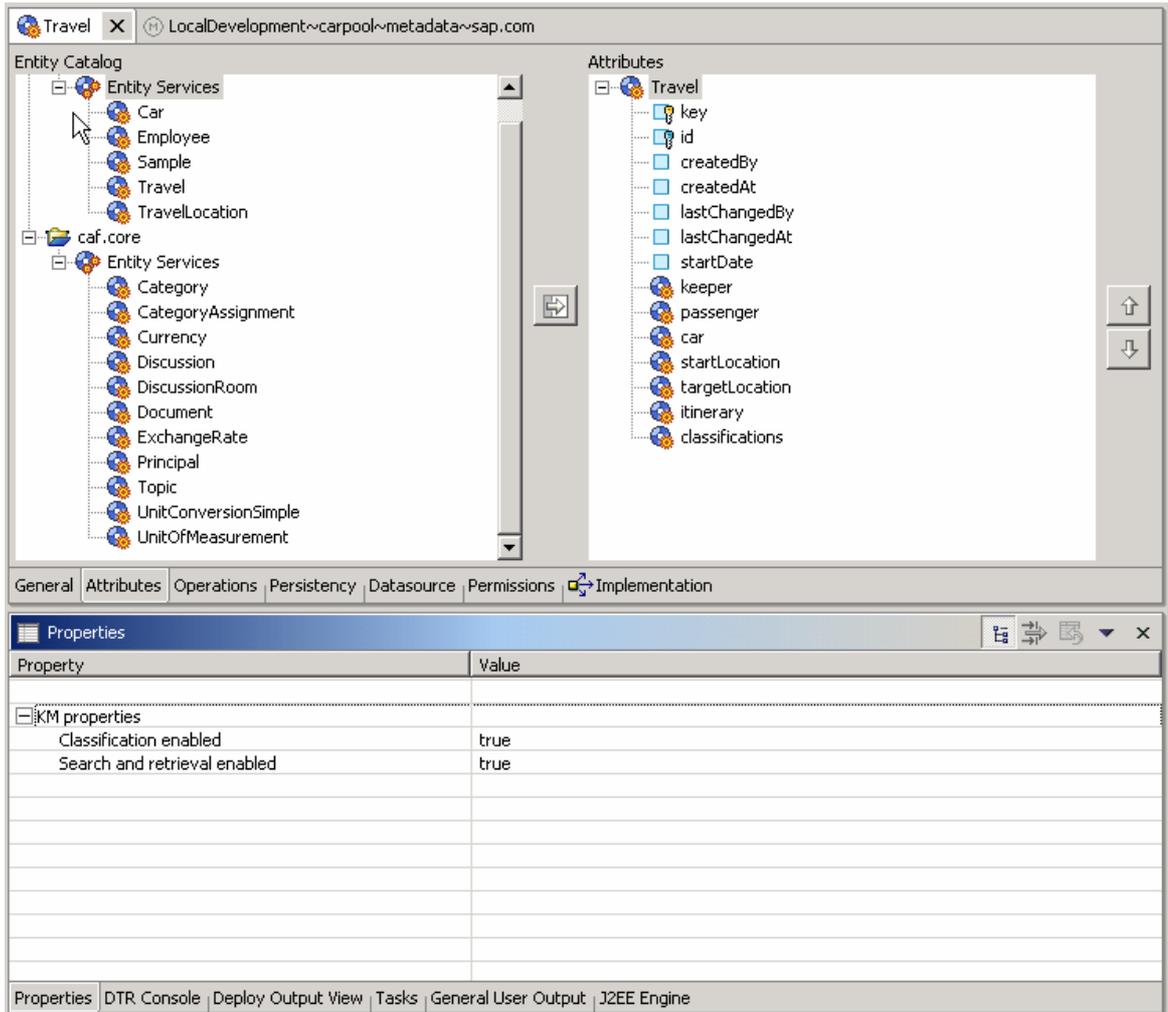
Disclaimer

Any software coding and/or code lines / strings ("Code") included in this documentation are only examples and are not intended to be used in a productive system environment. The Code is only intended better explain and visualize the syntax and phrasing rules of certain coding. SAP does not warrant the correctness and completeness of the Code given herein, and SAP shall not be liable for errors or damages caused by the usage of the Code, except if such damages were caused by SAP intentionally or grossly negligent.

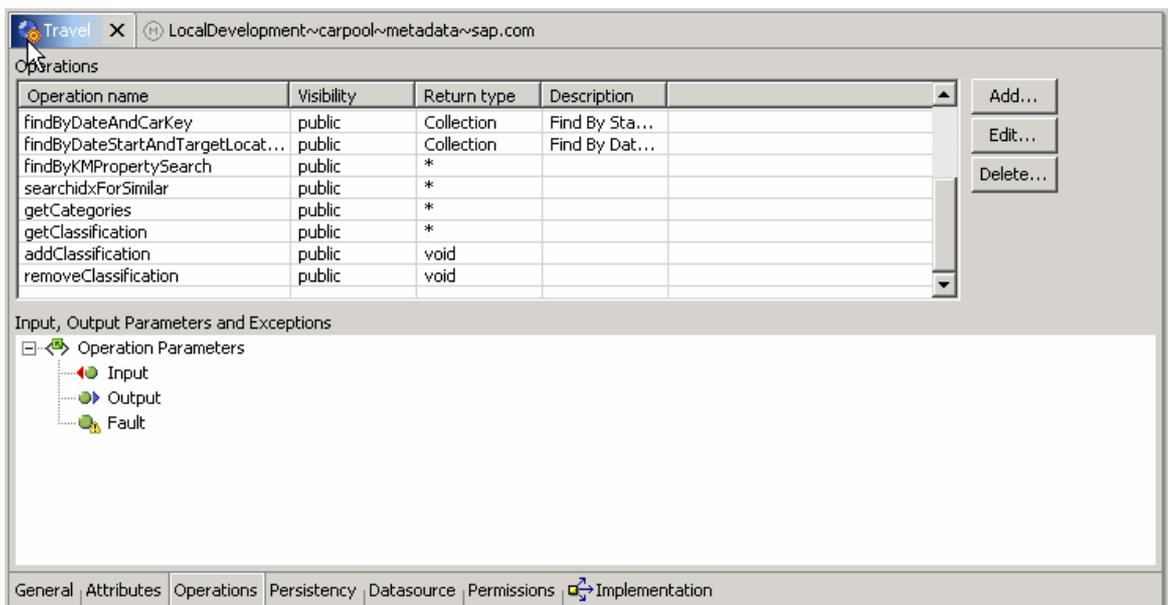
Classification of Entities

CAF provides features for grouping entities into different categories and also performing search based on categories. In the following sections we will discuss how to categorize the *Travel* entity.

- 1) As the first step, we need to enable the entity for *Classification* (or *Categorization*). This is done in the IDE. Open the *Travel Entity* in the IDE. Switch to the *Attributes* tab. Select the root node (*Travel*). In the *Properties* tab, set the property *Classification Enabled* to true.



As a result of these settings, a new related entity of name classifications will be added to Travel Entity. A few operations will also be added to the entity.



Save the metadata, Generate Code, build and deploy the DC.

- 2) The next step is to define the Categories. Launch the URL http://<was_host>:<was_port>/webdynpro/dispatcher/sap.com/caf~UI~cladmin/ClassificationsAdmin. Alternatively you can navigate to Classification Administrator from the CAF Runtime Configuration screen (http://<was_host>:<was_port>/caf).

The screenshot displays the SAP Classification Administration web interface. At the top, there is a header with the SAP logo and the title "Classification Administration". Below the header, there are navigation tabs: "Hierarchy Maintenance", "Hierarchy Assignment", "Language Maintenance", and "Import/Export". The "Hierarchy Maintenance" tab is currently selected. Below the tabs, there is a prompt: "Select a hierarchy to load its category tree below". The main content area is divided into two sections: "Hierarchies" and "Categories".

The "Hierarchies" section contains a table with columns "Name" and "Description". Above the table are input fields for "Name" and "Description", and buttons for "Add", "Modify", and "Delete". The table is currently empty. Below the table, there is a row indicator showing "Row 0 of 0".

The "Categories" section also contains a table with columns "Name" and "Description". Above the table are input fields for "Name" and "Description", and buttons for "Add", "Modify", "Delete", and "Deselect All". The table is currently empty. Below the table, there is a row indicator showing "Row 0 of 0".

At the bottom right of the interface, there are "Save" and "Refresh" buttons.

- 3) In the Hierarchy Maintenance tab we can create hierarchies and categories within them. Let us create a hierarchy named TravelType. Enter the following data and click the *Add* button.

Name: TravelType

Description: Travel Type

SAP Classification Administration
 PLACEHOLDER FOR BRIEF USAGE INFORMATION AND / OR COPYRIGHT NOTICE

Hierarchy Maintenance | Hierarchy Assignment | Language Maintenance | Import/Export

Select a hierarchy to load its category tree below

Hierarchies

Name: TravelType Description: Travel Type Add Modify Delete

Name	Description
TravelType	Travel Type

Row 1 of 1

Categories

Name: Description: Add Modify Delete Deselect All

Name	Description
------	-------------

Row 0 of 0

Save Refresh

Select the hierarchy TravelType and add the following two categories to it.

Name	Description
Domestic	Domestic
International	International

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Hierarchy Maintenance | Hierarchy Assignment | Language Maintenance | Import/Export

Select a hierarchy to load its category tree below

Hierarchies

Name: TravelType Description: Travel Type Add Modify Delete

Name	Description
TravelType	Travel Type

Row 1 of 1

Categories

Name: Description: Add Modify Delete Deselect All

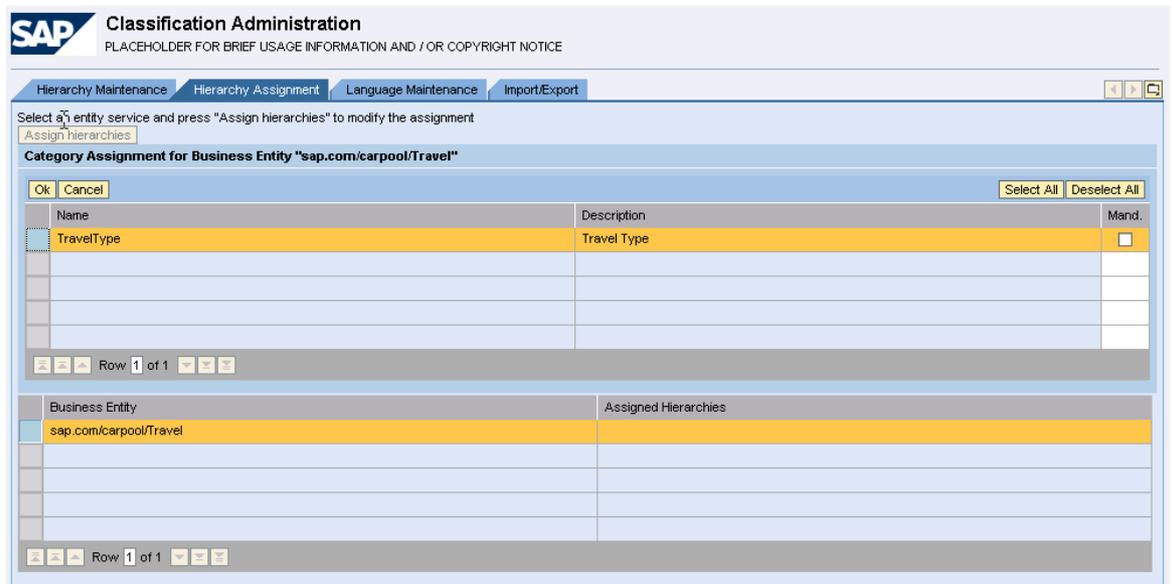
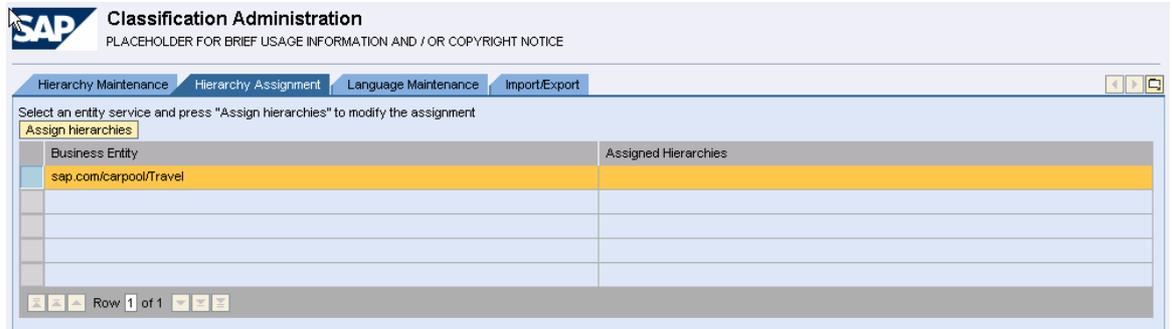
Name	Description
▪ Domestic	Domestic
▪ International	International

Row 1 of 2

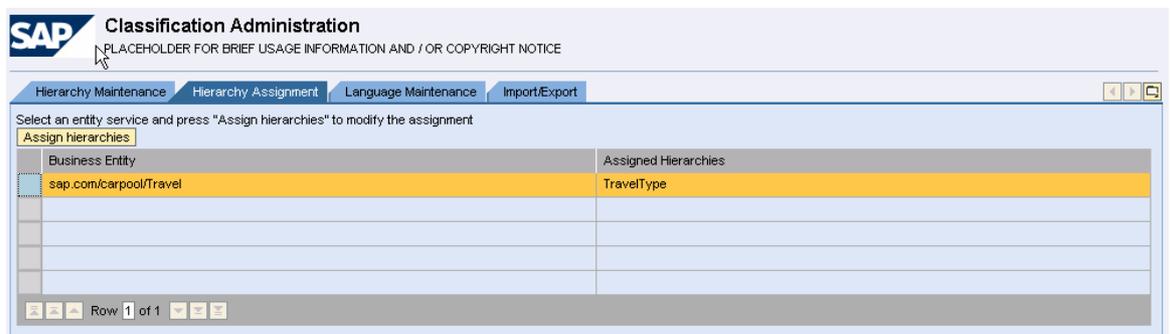
Save Refresh

Save the hierarchy.

- 4) The next step is to assign hierarchy *TravelType* to the entity *Travel*. This means the instances of the *Travel* entity can be organized in the hierarchy *TravelType*. Switch to the *Hierarchy Assignment* tab. Select the *Travel* entity and click the *Assign Hierarchies* button.



Select the hierarchy *TravelType* and click the *OK* button.



- 5) The Language Maintenance tab allows us to maintain the hierarchy and category descriptions in different languages.

Classification Administration
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Hierarchy Maintenance | Hierarchy Assignment | **Language Maintenance** | Import/Export

Select a category to maintain it in different languages

Categories

Name	Description
▼ TravelType	Travel Type
▪ Domestic	Domestic
▪ International	International

Row 1 of 3

Languages

Language: English | Name: Domestic | Description: Domestic | Add | Modify | Delete

Language	Name	Description
English	Domestic	Domestic

Row 1 of 1

Save Refresh

- 6) Through the *Import/Export* tab, we can import and export hierarchies.

Switch to *Import/Export* tab. There are two options to export the hierarchy.

First Option:

Select the hierarchy and click the *BW Export* button. The export file (*.zip) will be created and a link to download them will be displayed. The zip archive will contain csv files if a format acceptable by BW.

Classification Administration
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Hierarchy Maintenance | Hierarchy Assignment | Language Maintenance | **Import/Export**

Name of the target Info object in BW: | **BW Export** | Download

Select All | Deselect All

Name	Description
TravelType	Travel Type

Row 1 of 1

Select one or more categories and press "Export" to export to xml

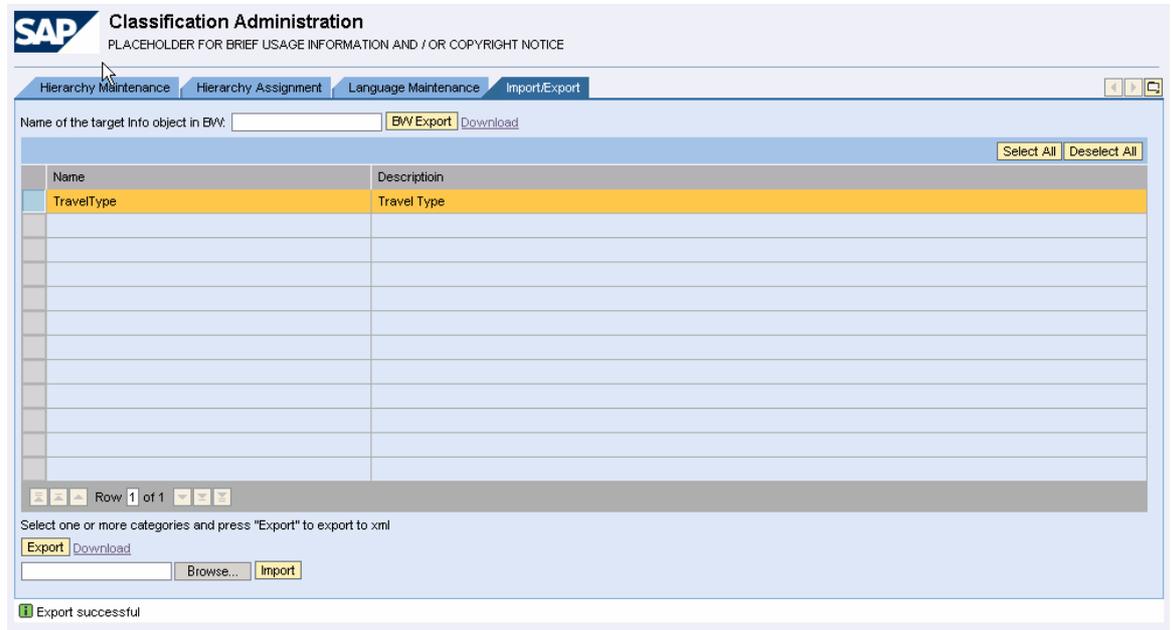
Export | Download

| Browse... | **Import**

Export to bw format successful

Second Option:

We can also export the hierarchy information as XML file. Select the hierarchy and click the Export button at the bottom of the screen. The XML file will be created and a link for it will be displayed.



For example, the TravelType hierarchy will result in the following XML.

```
<?xml version="1.0" encoding="UTF-8"?>
<categories>
  <category key="f0134380-13df-11da-cec5-000e7fa67ada">
    <languages>
      <value name="TravelType" description="Travel Type" lang="en"/>
    </languages>
  </category>
  <category key="f01e8e20-13df-11da-a426-000e7fa67ada">
    <languages>
      <value name="Domestic" description="Domestic" lang="en"/>
    </languages>
  </category>
  <category key="f020d810-13df-11da-a644-000e7fa67ada">
    <languages>
      <value name="International" description="International" lang="en"/>
    </languages>
  </category>
</categories>
```

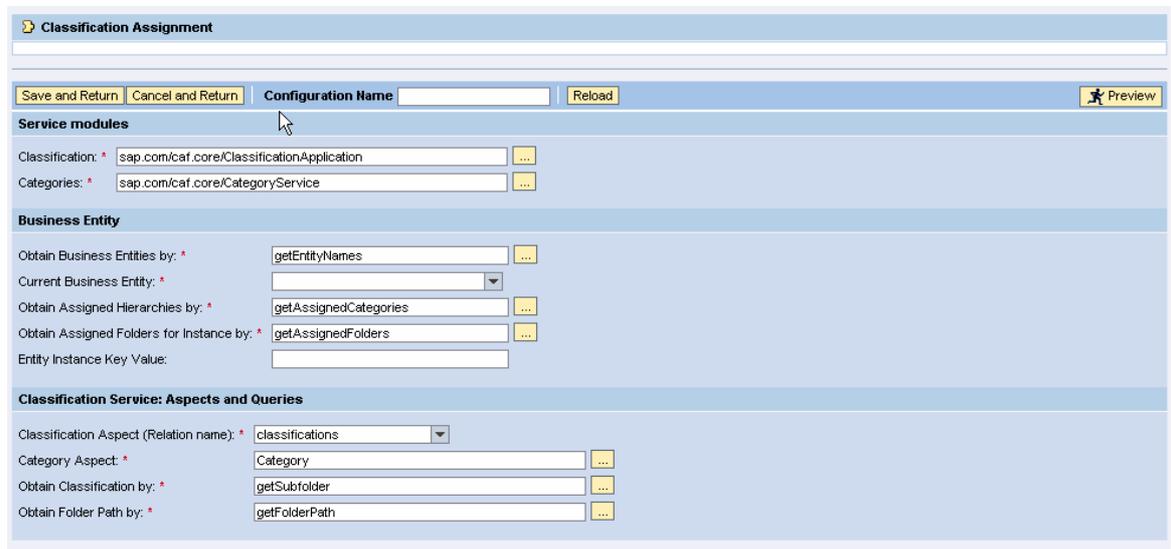
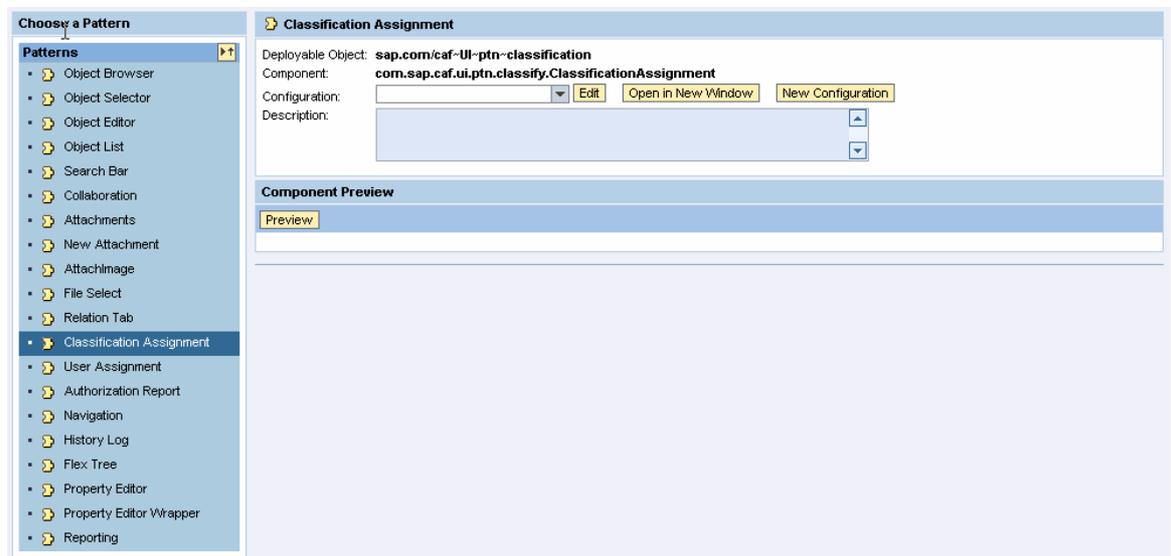
```
</category>
</categories>
```

We can also import the hierarchy from a *CSV* or *XML* files. Select the file using the *Browse* button at the bottom of the screen, and click the *Import* button.

- 7) The next step is to create instances of *Travel* entity and assign them to different *Categories* under the *TravelType* hierarchy.

CAF provides the UI pattern *Classification Assignment* for assigning *Categories*.

Navigate to the *Pattern* list screen. Select the pattern *Classification Assignment* and click the *New Configuration* button.



Most of the fields on the screen are pre-populated. Enter the following data and click *Save and Return*.

Configuration Name: carpool_TravelClassification

Current Business Entity:sap.com/carpool/Travel

- 8) Add the carpool_TravelClassification as a tab to the Object Editor pattern for creating Travel.

Interface	Name to Appear for Tab	Associated Aspect	Component Name	Development Component	Configuration Name	Configure
Tab	Type of Travel	classifications	<input type="checkbox"/> com.sap.caf.ui.ptn.objecteditor.tabcomp.DummyComponent			Configure
Tab	Tab no :2		<input type="checkbox"/> com.sap.caf.ui.ptn.objecteditor.tabcomp.DummyComponent			Configure
Tab	Tab no :3		<input type="checkbox"/> com.sap.caf.ui.ptn.objecteditor.tabcomp.DummyComponent			Configure
Tab	Tab no :4		<input type="checkbox"/> com.sap.caf.ui.ptn.objecteditor.tabcomp.DummyComponent			Configure
Tab	Tab no :5		<input type="checkbox"/> com.sap.caf.ui.ptn.objecteditor.tabcomp.DummyComponent			Configure

Save the Object Editor configuration and test it.

Create Travel

ID: Start Date:

Type of Travel

Classification

Manage Classification...

Values	Remove

Row 0 of 0

Submit Close

Click the button *Manage Classification*. Select the required categories and click OK.

Classification

Manage Classification...

Select the categories and values most appropriate. Click "OK" to apply your choices.

TravelType

	Name	Description
<input checked="" type="checkbox"/>	Domestic	Domestic
<input type="checkbox"/>	International	International

Row 1 of 2

OK Cancel Select All Deselect All

Values	Remove
TravelType -> Domestic	

Row 1 of 1

Submit Close

Click Submit.

Create Travel

ID: Start Date:

Type of Travel

Classification

Manage Classification...

Values	Remove
TravelType -> Domestic	

Row 1 of 1

Enter the values for Travel entity attributes and click Submit.

This creates an instance of Travel entity belonging to category Domestic.

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