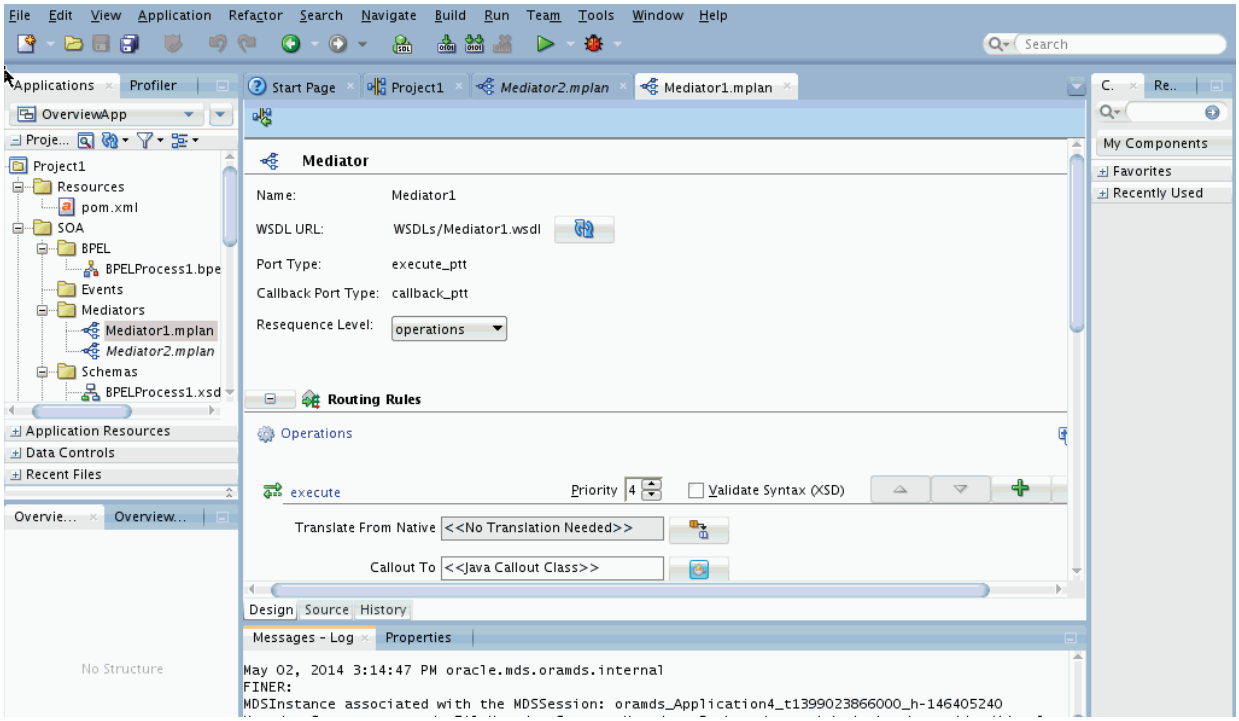
Figure 19-5 Mediator Editor Window



Each section of the view shown in Figure 19-5 lets you perform specific design and deployment tasks. The sections in this view include the following:

- Applications window

  The Applications window, shown in the upper left section of Figure 19-5, displays the Mediator mplan file. This file appears under the SOA Content folder of the project where you created a Mediator. For more information about the Applications window and the composite files, see Table 2-4.

- Mediator Editor

12 The Mediator Editor, shown in the middle of Figure 19-5, provides a visual view of the Mediator. This view appears when you perform one of the following actions:

  – Double-click an icon in the .

  – Double-click the `.mplan` file for the Mediator in the Applications window.

- Source View

  The Source view displays the source code of a Mediator. Click **Source** at the bottom of the Mediator Editor to view the source code. The code in Source view is immediately updated to reflect any changes to an a Mediator.

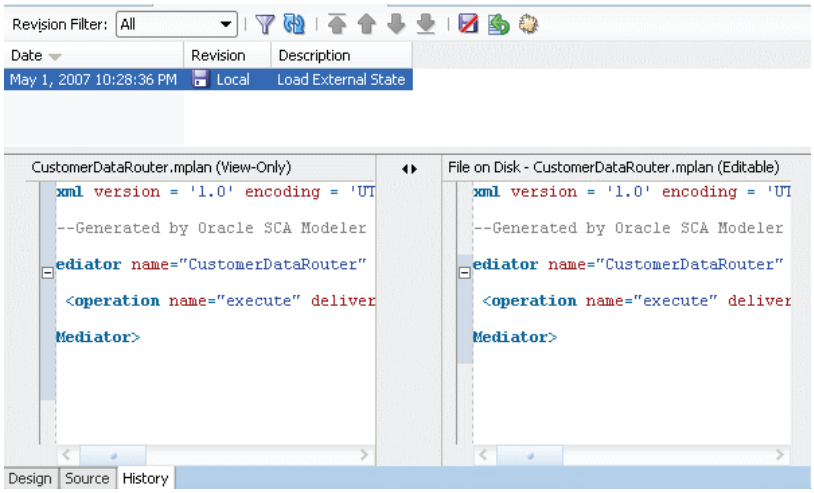
  The following example shows sample Mediator source code:

```
<?xml version = '1.0' encoding = 'UTF-8'?>
<!--Generated by Oracle SCA Modeler version 1.0 at [4/16/07 10:05 PM].-->
<Mediator name="CustomerDataRouter" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
xmlns="http://xmlns.oracle.com/sca/1.0/mediator"/>
```

- History Window

The History window displays history information about the Mediator file, including a revision history and side-by-side comparisons of read-only and editable versions of a file. Click **History** at the bottom of the Design window shown in Figure 19-5 to open the History window. Figure 19-6 shows the History view for a Mediator file.

Figure 19-6 History Window



19.5 Configuring the Mediator Interface Definition

When you create a new Mediator, you can specify an interface template that generates a basic set of default files in the Mediator project. These files provide a framework from which you can design and configure the Mediator. You can create a Mediator with the following interface options:

- **Mediator with no interface definition**

  This creates an empty Mediator and does not create a WSDL file. This method provides you with the flexibility to create the SOA components in the order you want.

  After you create a Mediator without an interface definition, you must create a service or an event that starts the component. You can also define the interface implicitly by dragging and dropping a service, or the output interface from another component, to the Mediator input.

- **Mediator with the interface defined by a WSDL file**

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  This bases the interface definition on a WSDL file, which describes the interfaces of a Mediator, such as port type, operations, services, and schemas. The WSDL file can already exist or you can generate one from a schema file.

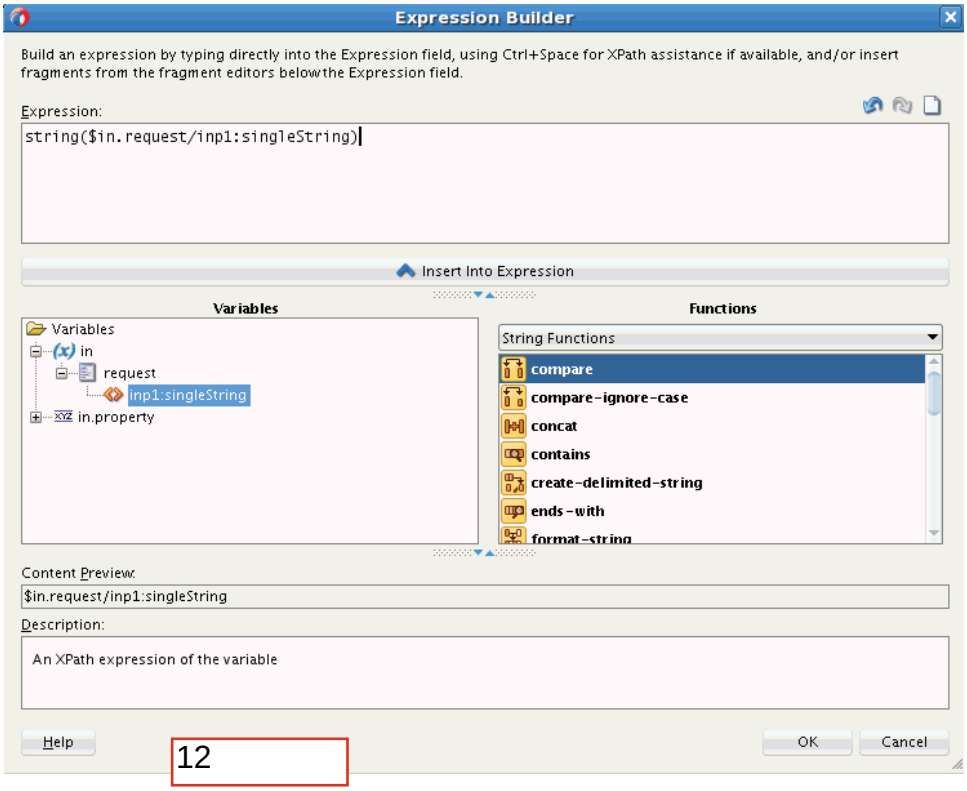
- **Mediator with a one-way interface**

  This defines an interface with a one-way interaction, where the client sends a message to a service and the service does not need to reply.

- **Mediator with a synchronous interface**

  This creates an interface with synchronous request-response interactions. In a synchronous interaction, a client sends a request to a service and receives an immediate response. The client does not proceed further until the response arrives.

Figure 20-20 Completed Input String in Expression Builder



5. To the right of the **NXSD Schema** field, select the **Search** icon to invoke the Type Chooser dialog for selecting the schema. If the schema does not exist, you can click the second icon to create the schema.

6. Select the schema, and click **OK**. The **Element** field is populated from the selected schema. The **Output** field is populated with an intermediate output variable created by Mediator. This variable must be in the format `translateFromNative.out.`*`some_name`*`.`

   Figure 20-21 shows the completed Add Translation dialog.

Figure 20-21 Add Translation Dialog

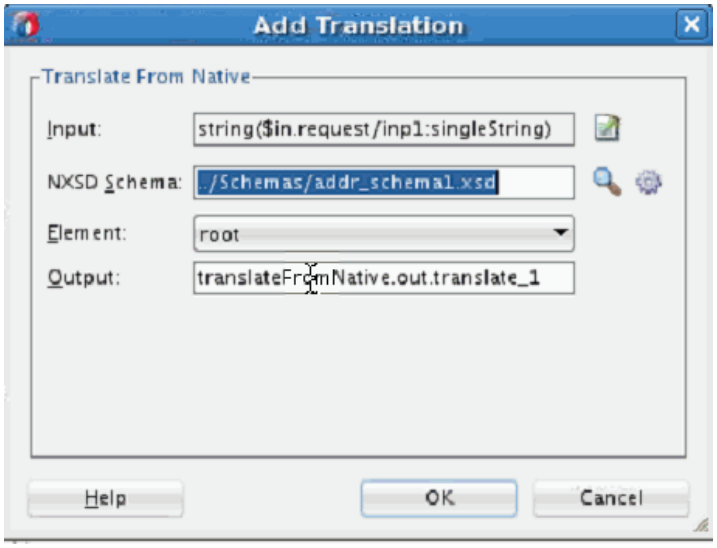
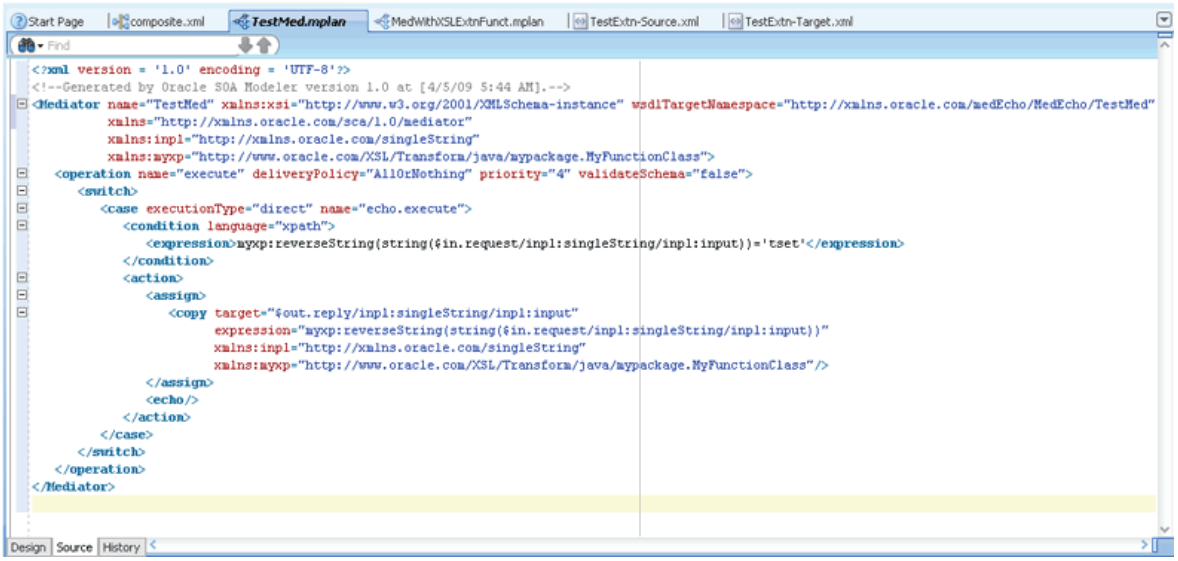


Figure 20-28 Project .mplan file – Modified to Use User-Defined Extension Functions



8. Invoke the test page with a suitable payload.

20.3.2.13 How to Create XQuery Transformations

Oracle Mediator supports XQuery transformations from one XML schema to another. The XQuery 1.0 specification is supported.

20.3.2.13.1 To create an XQuery transformation:

1. In the Routing Rules section, click the **Select an existing mapper file or create a new one** icon to the right of the **Transform Using** field. The Request Transformation Map dialog appears.

2. Do one of the following:

   - If the XQuery map file (.xqy) exists, click **Browse** to find and select the XQuery file to use. Click **OK.**

   - If you are creating a new XQuery map file, click the **Create Mapping** icon. The Create Transformation Map dialog appears.

3. In the Create Transformation Map dialog, select XQuery under **Type.**

   Figure 20-29 shows the Create Transformation Map dialog.