



BEA AquaLogic® Enterprise Repository

Policy Management Guide

Version 3.0 RP1
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Overview

- Policies are applied to assets in order to communicate asset requirements that need to be considered during design and development, and to provide administrators with the means to enforce and monitor asset compliance with governance, architecture, and other organizational standards. For example, a policy might articulate corporate quality standards, identifying the platforms that an asset should run on, and identifying acceptable defect density rates.
- A policy can be applied to multiple assets.
- Multiple policies can be applied to any asset.
- Each policy consists of at least one **Assertion Statement**:
 - Each assertion has a name and description, and includes a **Technical Definition**. The Technical Definition accommodates additional metadata that may be required to automatically validate the assertion using third party testing and validation tools. This metadata may be Web service-specific policy information, XML, or any other format that can be read by an external system.
 - For example, an assertion statement for Defect Density might state that defect density must be less than .1%

Note

Policies will only be available in some configurations using the Advanced Edition of ALER. In addition, the **ALER Compliance Template and Policy Management Data Pack** is required in order to use ALER's Policy Management features. Policies and examples may be obtained by installing the datapack

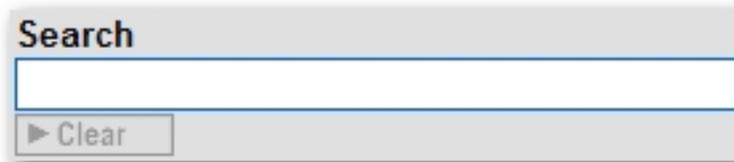
from  [CAP](#), and then using the **Import/Export Tool** to import them into your environment.

Activating the Policy Management Features

Step 1: Enable the Policy Management System Settings

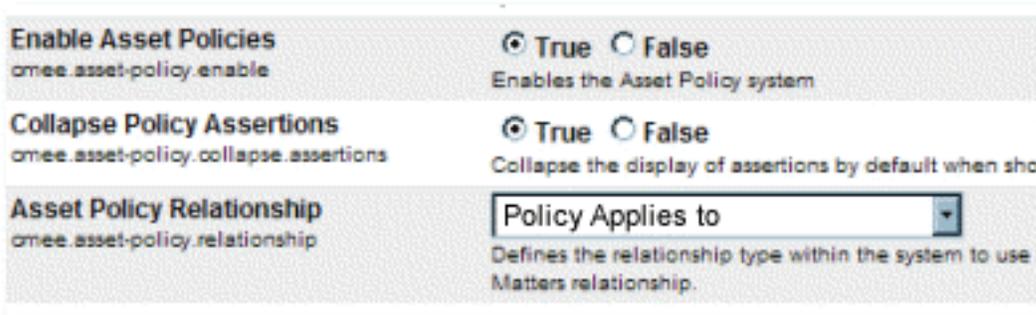
This procedure is performed on the BEA AquaLogic Enterprise Repository **Admin** screen.

1. Click **System Settings** in the left pane.
2. Enter `policy` in the System Settings **Search** text box.



The image shows a search interface with a text input field and a 'Clear' button. The text 'Search' is displayed above the input field.

The **Policy Management** group opens.



The image shows a settings panel with three rows. Each row has a title, a key, and a description. The first row is 'Enable Asset Policies' with radio buttons for 'True' and 'False'. The second row is 'Collapse Policy Assertions' with radio buttons for 'True' and 'False'. The third row is 'Asset Policy Relationship' with a drop-down menu showing 'Policy Applies to'.

3. Make sure the **Enable Asset Policies** property is set to **True**.
4. Use the radio buttons to make the appropriate selection for the **Collapse Policy Assertions** property.
 - o **True** sets the default Asset Detail display of assertions to *collapsed*.
 - o **False** sets the default Asset Detail display of assertions to *expanded*.
5. Select **Policy Applies To** in the **Asset Policy Relationship** drop-down.
6. When finished, click the **Save** button.

Policy management features are now activated.

Step 2: Import the Compliance Template and Policy Management Datapack

After configuring the Policy Management system settings, the Advanced Edition policies and examples can be obtained by installing the Compliance Template and Policy Management Datapack from  [CAP](#), and then using the **Import/Export Tool** to import them into your environment.

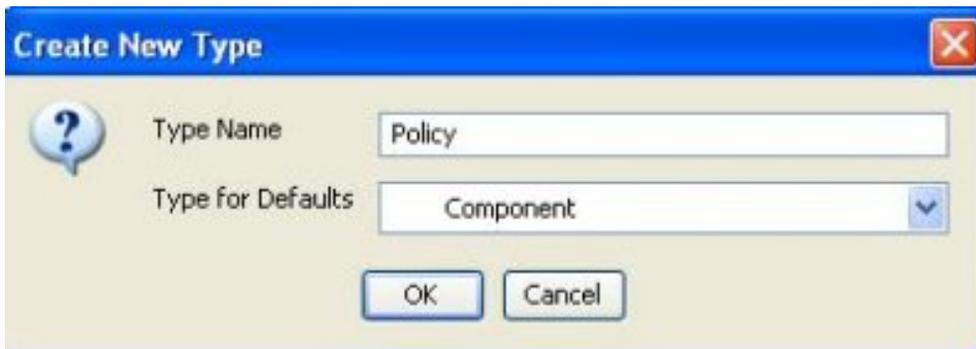
Creating a Policy Type

A policy type template can be created using any existing asset type or compliance template type as the basis. Note that Policies are only available in certain product configurations. If your configuration does not support Policies, then you will be unable to create a policy type template.

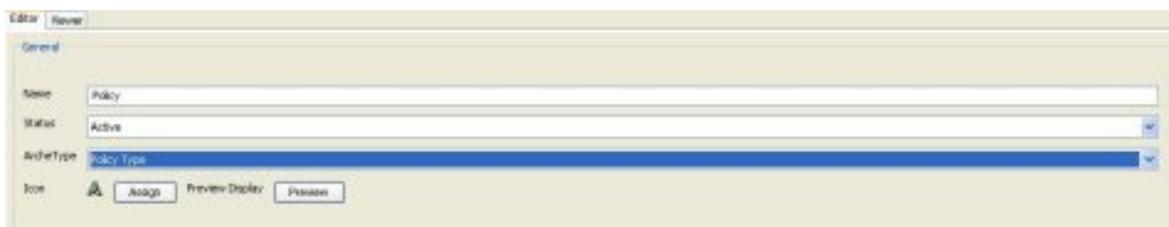
1. Click **Edit/Manage Assets** on the AquaLogic Enterprise Repository **Assets** screen to launch the **Asset Editor**.



2. Open the **Actions** menu in the **Asset Editor**.
3. Click **Manage Types** to launch the **Type Manager**.
4. Open the **File** menu and click **New**.
5. Select a template from the **Type for Defaults** pull-down in the **Create New Type** pop-up.



6. Enter a name in the **Type Name** box.
7. Click **OK**.
8. Select **Policy Type** from the **Archetype** pull-down on **Editor** tab in the **Type Manager**.

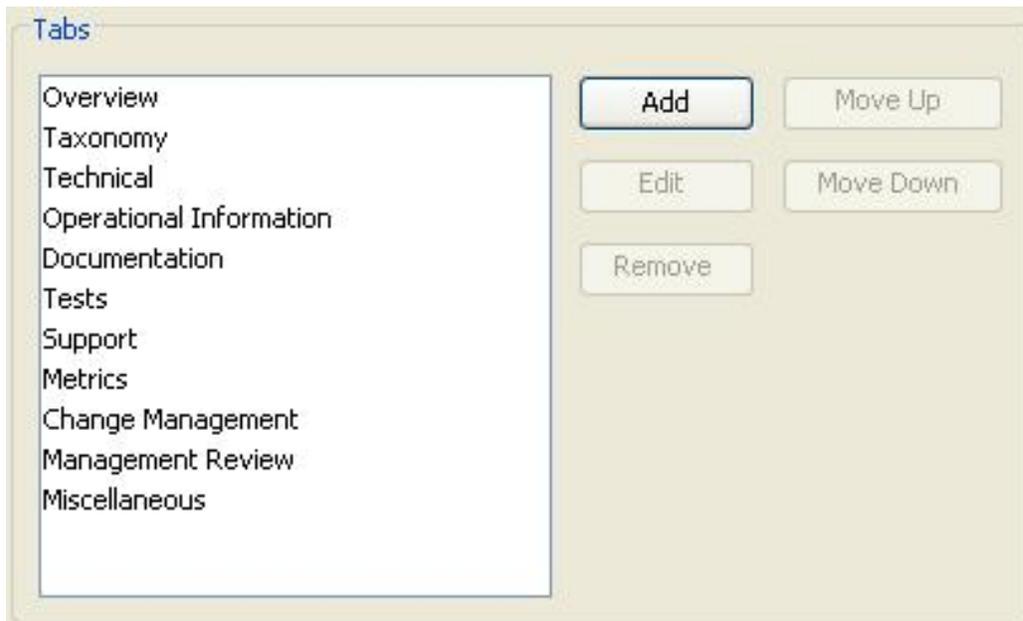


Adding the Policy Assertion Element to the Policy Type

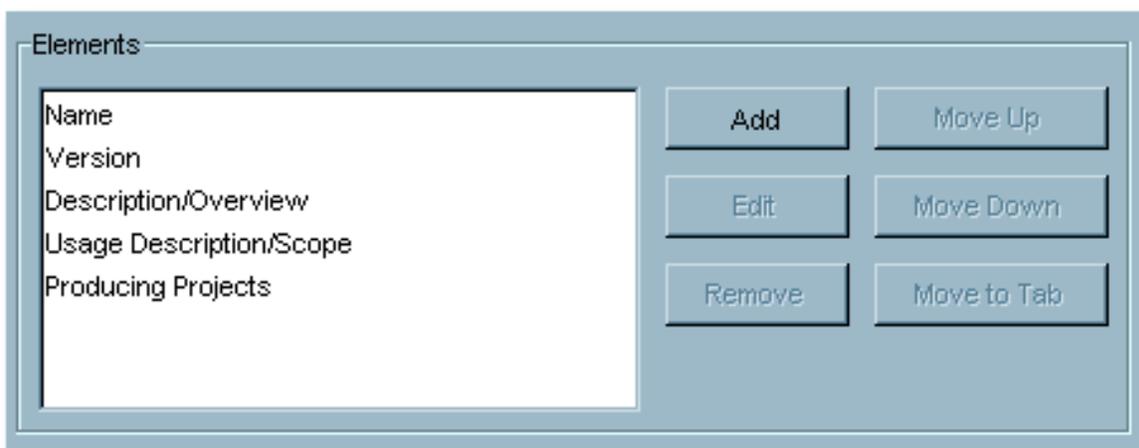
In order for the new Policy template to function properly the **Policy Assertions** element must be added. This simple procedure is performed in the **Type Manager**.

The **Policy Assertions** element may be added to any tab in the Policy template. The following instructions will add the **Policy Assertions** element to the **Overview** tab.

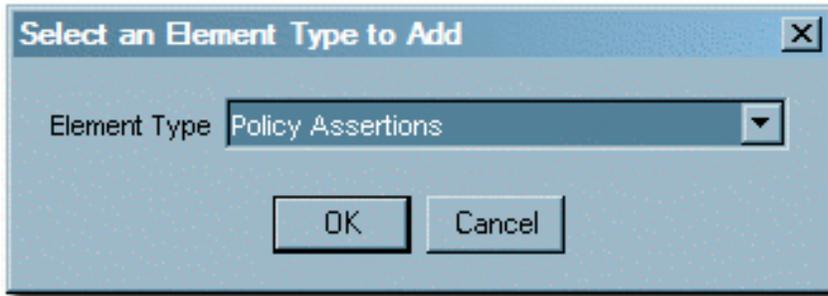
1. Select **Overview** in the **Tabs** section of the **Type Manager**.



Any elements already assigned to the **Overview** tab will be listed in the **Elements** section of the **Type Manager**.



2. Click **Add**.
3. Select **Policy Assertions** from the pull-down in the **Select an Element Type to Add** pop-up.



4. Click **OK**.
5. The **Edit Policy Assertions** pop-up will appear. Enter a name for the Policy Assertion in the **Display Name** text box. (The example below uses "Policy Assertions" as the name for the element.)



6. Click **OK**.

The **Policy Assertions** element now appears in the **Elements** list.

Creating a Policy

A **Policy** is a very specific type of asset, with a unique relationship to other assets. Policies are created using a **Policy Type** (see [Creating a Policy Type](#).)

This procedure is performed in the **Asset Editor**.

1. Open the **File** menu and click **New**.
2. In the **Create a New Asset** pop-up, enter a name for the policy in the **Name** text box.



3. Enter a version number (optional).
4. Select the appropriate policy type from the **Type** pull-down.
5. Select the appropriate **Initial State** from that pull-down.
6. Click **OK**.

The policy opens in the **Asset Editor**.

Metrics	Change Management	Management Review	Miscellaneous	Administration
Overview	Taxonomy	Technical	Operational Information	Documentation
				Tests
				Support

Name: Sample Policy - Corporate Quality Standards

Version: 2.0

Description:

Producing Project(s):

Add

Delete

Policy Assertions

Name	Description

Add

Edit

Delete

Note the **Policy Assertions** section on the **Overview Tab**.

7. Click **Add** in the **Policy Assertions** section.

The **Edit** pop-up opens.

8. Fill in the **Name**, **Description**, and **Technical Definition** sections as appropriate.

Edit

Name: Defect Density

Description: Defect density is less than .1%

Technical Definition: The technical definition accommodates any additional metadata that may be required to validate the Assertion. This metadata may be Web-service specific policy information, XML, or information to be read by an external system.

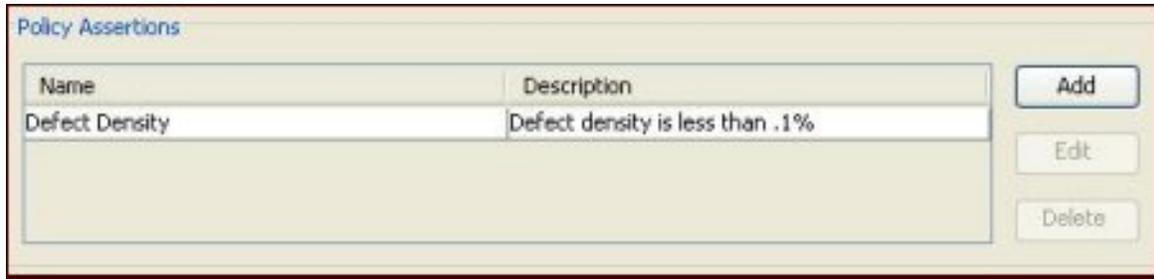
OK Cancel

Note: **Name** and **Description** are human-readable information; **Technical Definition** should be machine-readable (XML or similar) information that will allow the assertion to be passed to other

processes.

9. Click **OK**.

The new policy assertion is displayed in the **Policy Assertions** section.



10. Repeat the procedure to add additional assertions to the policy.

Adding the Applied Asset Policies Element to a Type

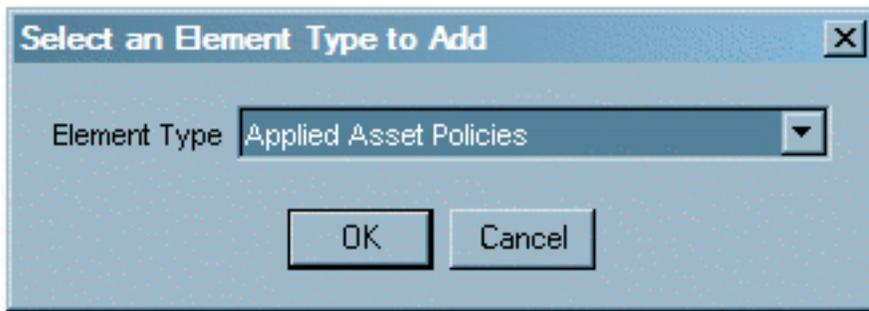
Policies can only be applied to assets of types to which the **Applied Asset Policies** element has been added. For example, if a Corporate Quality Policy is applicable to all services, then the **Applied Asset Policies** element must be added to the Service asset type to allow the policy to be applied.

The procedure for adding the **Applied Asset Policies** element is performed in the **Type Manager** and is nearly identical to the [Adding the Policy Assertion Element to the Policy Type](#) procedure.

1. Open the selected asset type.
2. In the **Tabs** section, select the tab to which the **Applied Asset Policies** element will be added.
3. In the **Elements** section, click **Add**.

The **Select an Element Type to Add** pop-up opens

4. Select the **Applied Asset Policies** element.



5. Click **OK**.

The **Edit Applied Asset Policies** pop-up opens.

6. Enter an appropriate name in the **Display Name** text box.
7. Click **OK**.
8. The **Applied Asset Policies** element appears bearing its assigned name in the list in the **Elements** section.

Applying a Policy to an Asset

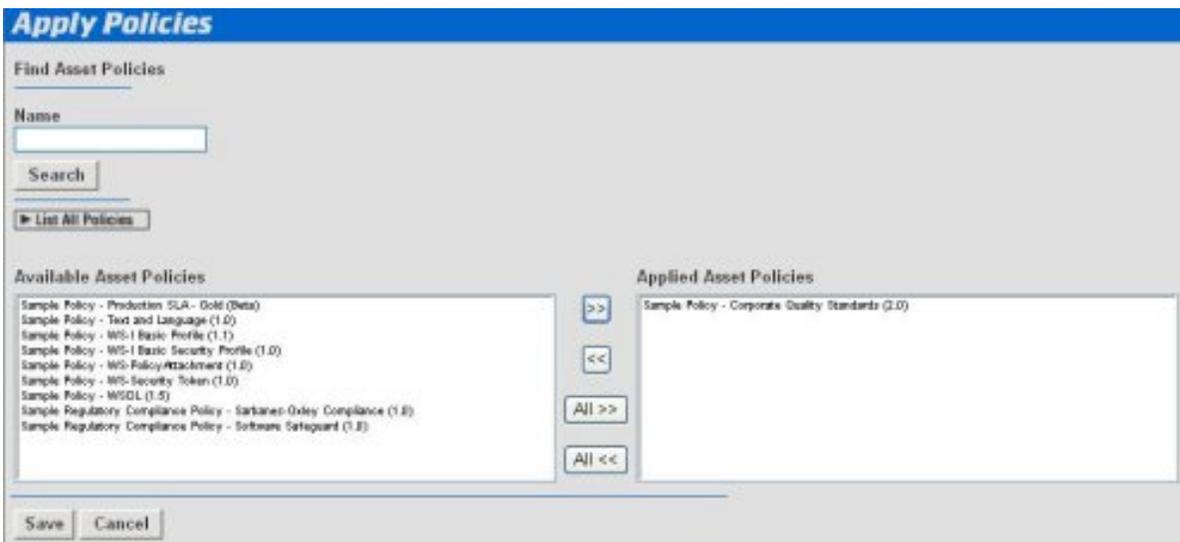
Note: User must be assigned the **Apply Policy** permission in the **Policy Basic Access Setting**.

The procedure for adding a policy to an asset is performed in the asset detail display.

1. Using AquaLogic Enterprise Repository's **Search** or other means, locate the asset to which the policy is to be added.
2. Click the **Apply Policies** button in the asset detail display.



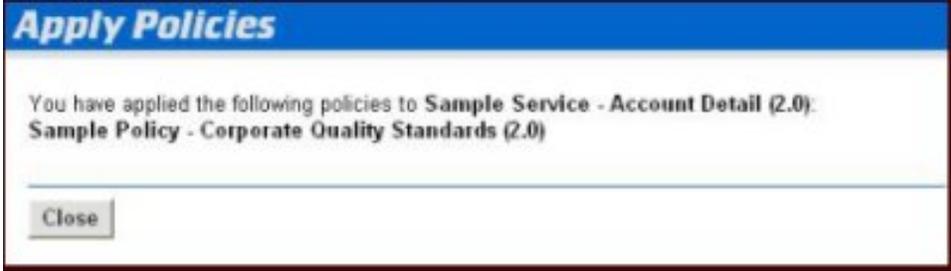
3. Click **List All Policies** to display a list in the **Available Asset Policies** box.



4. Use the **>>** or **All >>** buttons to move selected policies to the **Applied Asset Policies** box.

In the example above the **Sample Policy - Corporate Quality Standards** policy has been applied.

- 5. Click **Save**.
- 6. A confirmation message is displayed.



- 7. Click **Close**.
- 8. Refresh the asset detail frame.

- 9. The presence of the  icon in the **Overview** section of the asset detail indicates that a policy has been applied. (A smaller version of the same icon indicates policy assignment for assets listed in search results.)



Note that **Sample Policy - Corporate Quality Standards** is identified as an applied policy in the **Relationships** section of the asset detail. Click the text link for any listed policy to display its details.



The **Relationships** section of the policy detail lists the assets to which **Sample Policy - Corporate Quality Standards** has been applied. Click the link for **Sample Service - Account Detail (2.0)** to return to the detail display for that asset.

Note: Multiple policies may be applied to any eligible asset.

Viewing Policy Status

Policy status is indicated by the specific icon that appears in the asset detail display and in search results. (Policy status is also indicated in the optional **Navigator**.)

Policy status is determined by the asset's compliance with assertion statements within applied policies. If multiple policies are applied, the asset achieves passed status only when in compliance with each applied policy.

Similarly, since a policy can consist of multiple assertion statements, an asset achieves passed status only when in compliance with **all** assertion statements within **all** applied policies.

	<p>Status: Applied</p> <p>Indicates that one or more policies have been applied to the asset, and that pass/fail status is indeterminate.</p> <p>Any combination of passed and indeterminate assertion statements results in indeterminate asset status.</p>
	<p>Status: Passed</p> <p>Indicates that the asset is in compliance with every assertion statement within every applied policy.</p>
	<p>Status: Failed</p> <p>Indicates that the asset is not in compliance with all assertion statements within all applied policies.</p> <p>Failure to comply with any assertion statement within any applied policy results in Failed status.</p>

Validating Policy Assertions

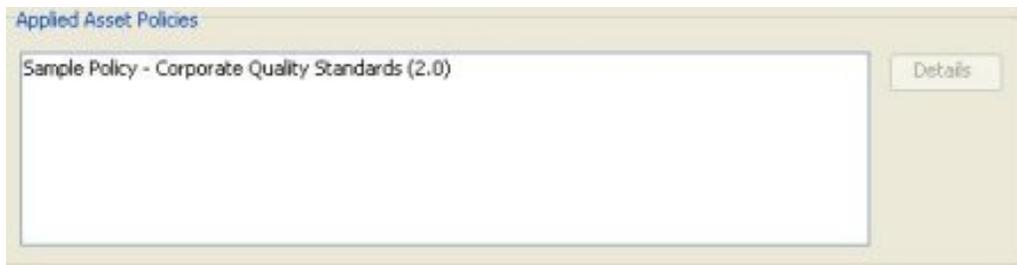
Policy assertions can be validated manually (through the Enterprise Repository) or automatically using testing and validation tools. This document will cover the manual validation of policy assertions. For automatic validation processes, refer to the documentation for your specific testing and validation tools.

Manual validation of policy assertions is performed in the **Asset Editor**.

1. Locate the asset to be updated.
2. Locate the **Applied Asset Policies** section within the asset.

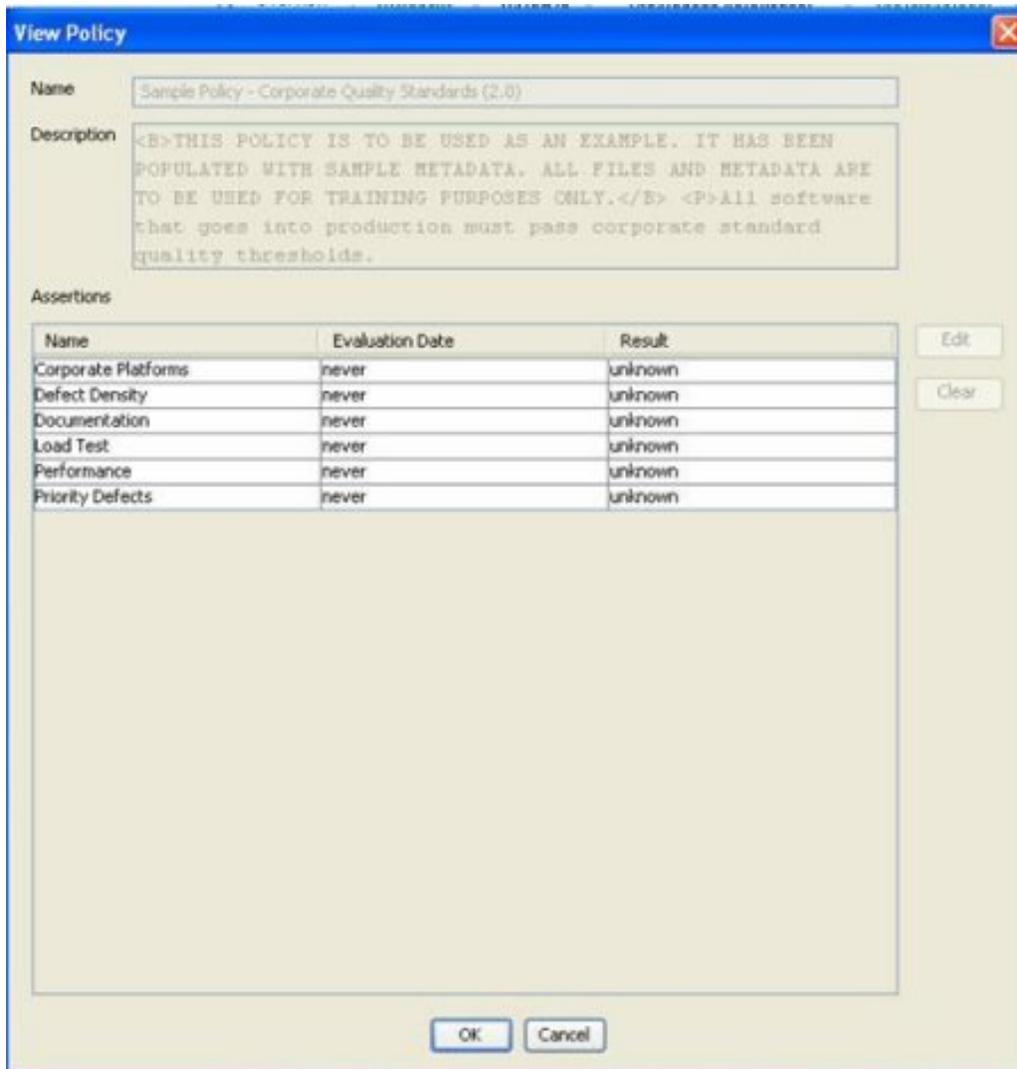
The specific label and location of this section will be determined by the configuration of the Policy element within the Type template.

3. Select (single click) the policy to be updated.



4. Click **Details**.

The **View Policy** pop-up opens.

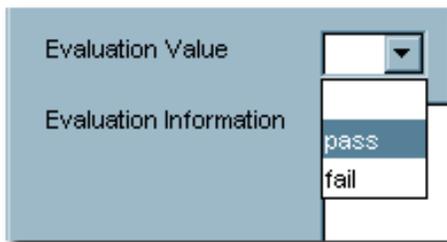


The asset's compliance status with any policy listed in the **View Policy** section is indicated in the **Result** column. In the example above the status **unknown** indicates that the policy has been applied to the asset but compliance with that policy's assertion statement(s) has not been evaluated.

5. Select (single click) the assertion statement to be updated.
6. Click **Edit**.

The **Edit Assertion Result** pop-up opens.

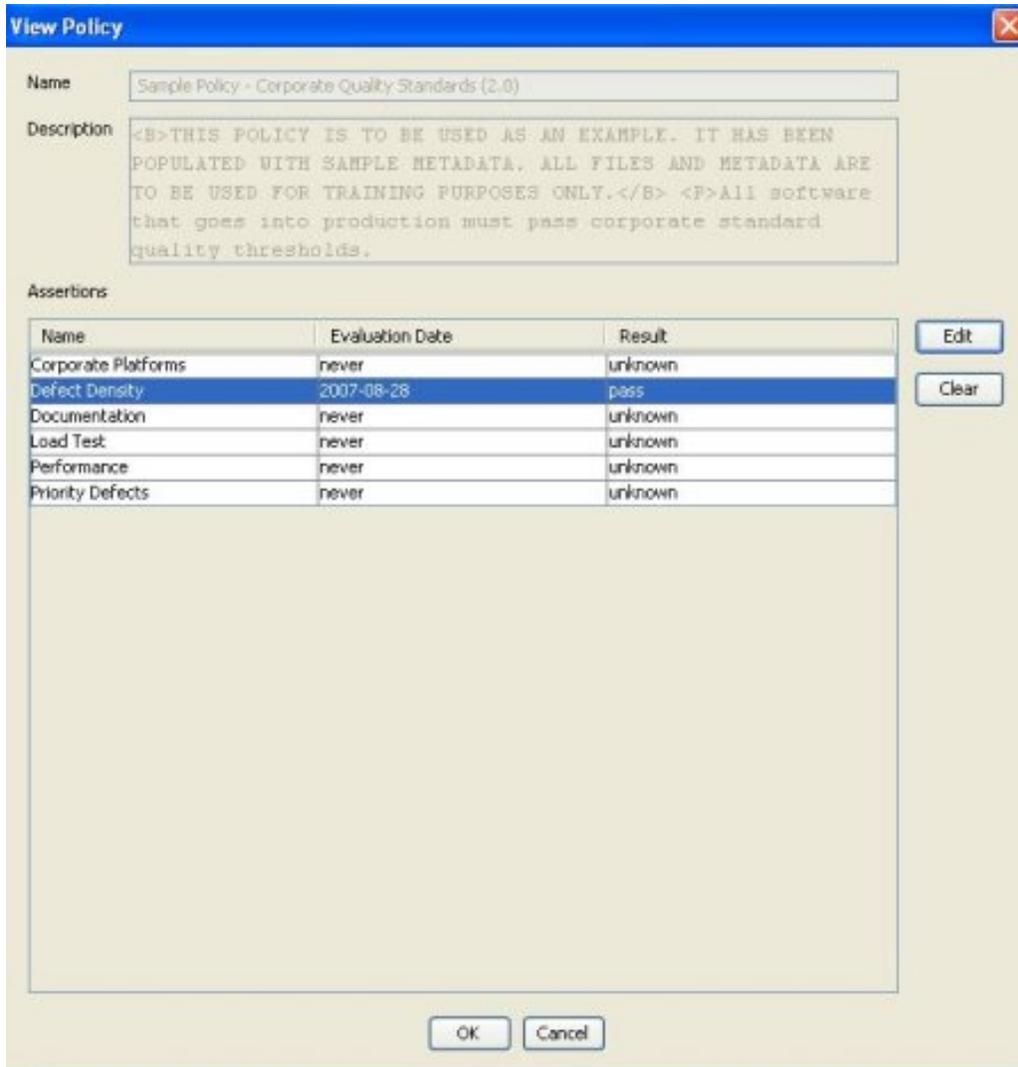
7. Open the **Evaluation Value** pull-down and select the appropriate status.



In this example the **pass** status is selected. Note that additional details can be provided in **Evaluation Information**.

8. Click **OK**.

9. The updated status is displayed in the **Result** column in the **View Policy** pop-up.



10. Continue to validate remaining assertions in the same manner.
11. When finished, click **OK** to close the **View Policy** pop-up.
12. Save the changes to the asset.

13. The  icon appears in the asset detail.



It also appears next to the asset's name in search results, indicating policy compliance.

<input type="checkbox"/>	Name	Version	Type	Status
<input type="checkbox"/>	  Sample Service - Account Detail	2.0	Service	Registered