

# HP SOA Systinet Validation Plugin

Software Version: 2.52

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## User Guide

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# Welcome to HP SOA Systinet Validation Plugin

Welcome to HP SOA Systinet Validation Plugin, a tool for use with the Policy Manager component of SOA Systinet. Validation Plugin enables you to validate any local or remote resource against policies taken from Policy Manager without adding these resources to the SOA Systinet repository.

This book includes the following chapters:

- [Policies on page 11](#). Instructions for including Policy Manager policies into Validation Plugin and for updating local copies of policies against the Policy Manager server.
- [Ad Hoc Validation on page 15](#). Running unscheduled validation of one or more documents against one or more policies. Output can be formatted according to a stylesheet or it can be in plain text.
- [Automatic Validation on page 23](#). Setting up the automatic validation of documents in your Eclipse project.



**Warning:** Validation Plugin uses the Eclipse API to store passwords. Saved passwords are stored in a file that is difficult but not impossible for an intruder to read.

## Document Conventions

The typographic conventions used in this document are:

<b>run.bat make</b>	Script name or other executable command plus mandatory arguments.
<code>[--help]</code>	A command-line option.
either   or	A choice of arguments.
<i>replace_value</i>	A command-line argument that should be replaced with an actual value.
{arg1   arg2}	A choice between two command-line arguments where one or the other is mandatory.
<code>rmdir /S /Q System32</code>	Operating system commands and other user input that you can type on the command line and press <b>Enter</b> to invoke. Items in <i>italics</i> should be replaced by actual values.
<code>C:\System.ini</code>	Filenames, directory names, paths and package names.
<code>a.append(b);</code>	Program source code.
<code>server.Version</code>	An inline Java or C++ class name.
<code>getVersion()</code>	An inline Java method name.
<b>Shift-N</b>	A combination of keystrokes.
<b>Service View</b>	A label, word or phrase in a GUI window, often clickable.
<b>OK</b>	A button in a GUI window.
<b>New-&gt;Service</b>	Menu choice.

## Documentation Updates

This manual's title page contains the following identifying information:

- Software version number
- Document release date, which changes each time the document is updated
- Software release date, which indicates the release date of this version of the software

To check for recent updates, or to verify that you are using the most recent edition of a document, go to:

**<http://h20230.www2.hp.com/selfsolve/manuals>**

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- If you have an active HP Software support contract, visit the HP Software Support Web site and use the Self-Solve Knowledge Search to find answers to technical questions.
- For the latest information about support processes and tools available for products formerly produced by Mercury, we encourage you to visit the Mercury Customer Support Web site at: <http://hp.com/go/hpssoftwaresupport>.
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- If you have additional questions, contact your HP Sales Representative.

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- Search for knowledge documents of interest
- Submit and track support cases and enhancement requests
- Download software patches
- Manage support contracts



- Look up HP support contacts
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To register for an HP Passport ID, go to: <http://h20229.www2.hp.com/passport-registration.html>



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# 1 Policies

Validation Plugin validates local documents against policies. It uses pluggable pieces of code called validation handlers to perform validations. Validation Plugin comes with a default set of policies. You can add or delete policies and update your local policies against versions on a SOA Systinet server. Validation Plugin also includes the default HP SOA Systinet Policy Manager extension, which contains the default Policy Manager validation handlers. You can add custom validation handlers to Validation Plugin by adding extensions that contain them, although in the majority of use cases this is not necessary.

This chapter contains the following sections:

- [Setting Up Policies on page 11](#)
- [Validation Handlers on page 13](#)

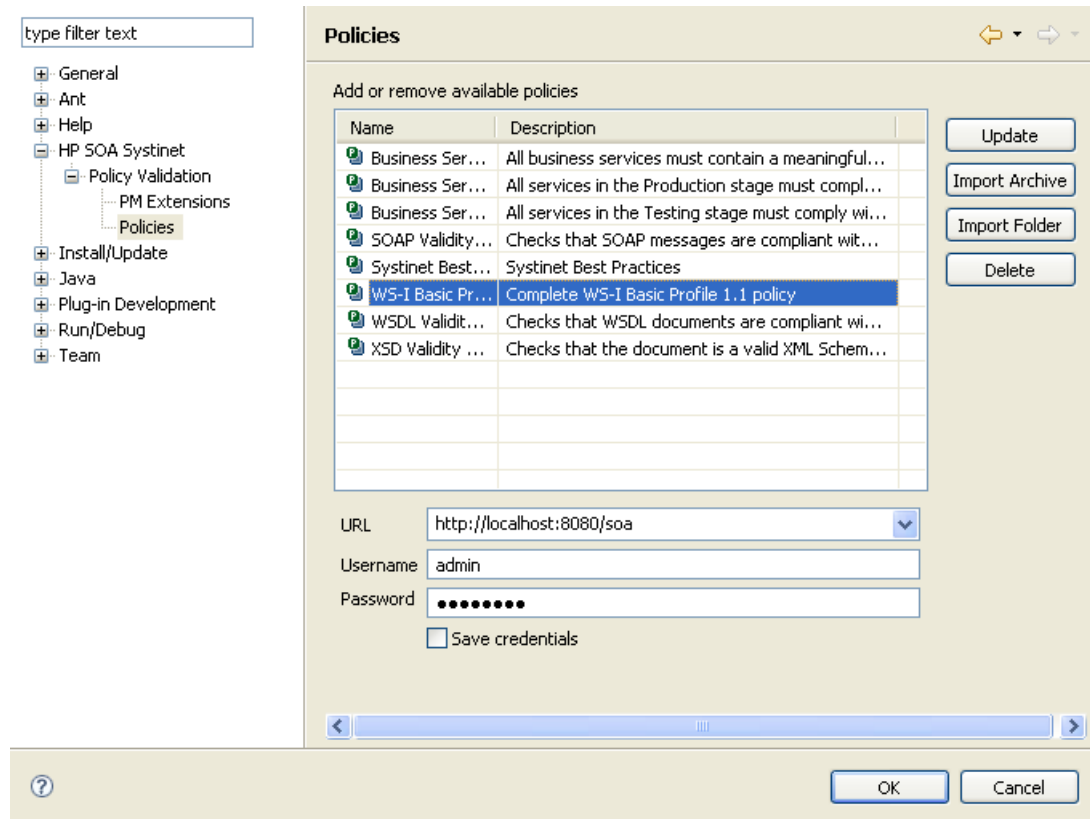
## Setting Up Policies

You can add, delete, or update policies used by Validation Plugin. Validation Plugin has a **Policies** page for working with policies.

### To open the Policies page:

- 1 Open the **Window->Preferences...** menu.
- 2 In the tree view of that menu, open **HP SOA Systinet->Policy Validation->Policies**. The **Policies** page opens, as shown in [Figure 1](#).

**Figure 1. The Policies Page**



**To update local Validation Plugin policies against the versions on a SOA Systinet server:**

- 1 Make sure the SOA Systinet server is running.
- 2 In the Validation Plugin **Policies** page, enter the URL and authentication credentials for the SOA Systinet server. Default URL is `http://localhost:8080/soa`. (See [Figure 1](#))
- 3 Click **Update**.

You can add policies from a folder or from an archive file (.JAR etc). To add policies from a folder, click **Import Folder** and browse to the folder that contains the policies you want to import. To add policies from an archive file, click **Import Archive** and browse to the archive file.

To delete a policy from Validation Plugin, highlight it in the table of policies and click **Delete**. This only deletes the local version in Validation Plugin.

## Validation Handlers

Validation Plugin comes with the set of validation handlers contained in the standard Policy Manager extension. If custom validation handlers have been created for Policy Manager, you can include them in Validation Plugin by adding the extensions that contain them.

### To add extensions to Validation Plugin:

- 1 Open the **Window->Preferences...** menu.
- 2 In the tree view of that menu, open **HP SOA Systinet->Policy Validation->PM Extensions**
- 3 Click **Add** and browse to the extension JAR file.



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## 2 Ad Hoc Validation

"Ad hoc" validation is the unscheduled validation of one or more documents against one or more policies. Output can be formatted according to a stylesheet or it can be in plain text.

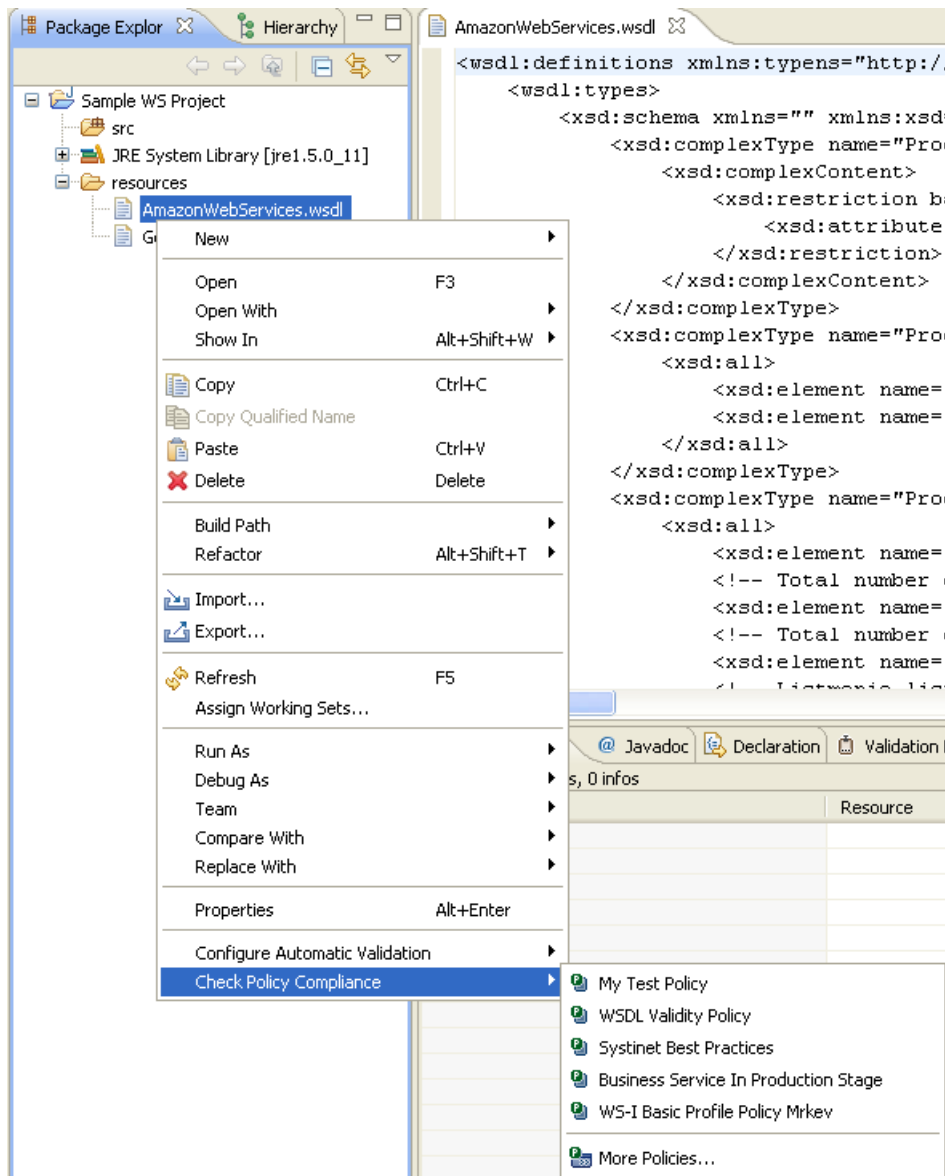
This chapter contains the following sections:

- [Running Ad Hoc Validation on page 15](#)
- [Viewing Ad-Hoc Validation Results on page 18](#)
- [Revalidating a Document on page 20](#)
- [Exporting Reports on page 21](#)
- [Setting Report Style on page 21](#)

### Running Ad Hoc Validation

**To run an ad hoc validation of one or more documents:**

- 1 Select a document in the **Package Explorer**.
- 2 Right-click the document. Its context menu opens.
- 3 Scroll over **Check Policy Compliance**. A list of available policies opens.





- 4 If you want to validate the selected document against one policy, left-click the policy you want. The validation runs.
- 5 If you want to validate more than one document or use more than one policy, click **More Policies...** The **Validate More Policies** wizard opens.

**Edit configuration and launch.**



Name: Validate More Policies

Main

Sources

List of resources for validation

C:\Documents and Settings\jeff\workspace\Sample WS Project\resources\GoogleSearch.wsdl

Add File...  
Add External File...  
Add External Folder...  
Add URL...  
Remove

Add resources in sub-folders

Technical Policies

List of policies for these resources

SOAP Validity Policy  
Business Service Documentation Check

Add...  
Remove

Output

C:\Documents and Settings\jeff\My Documents\vp reports

Browse...

Apply Revert

? Run Close

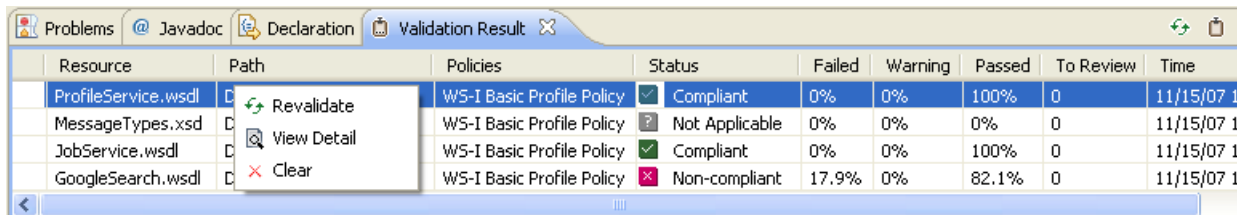
- 6 You can add more documents to validate. You can add documents from the following locations:
  - Add documents from inside your Eclipse project. Click **Add File** and browse.
  - Add documents from your file system. Click **Add External File** and browse.
  - Add all documents inside a folder in your file system. Click **Add External Folder** and browse.
  - Add a remote document. Clicking **Add URL** and typing the document URL.
- 7 You can add more policies to use in the validation. Click **Add** and a list of available policies appears. (See [Policies on page 11](#) for information about adding policies to your Eclipse project.)
- 8 You can export the validation results to a different folder than the default. Click **Browse** to browse the location in which the reports will be saved.
- 9 When you have selected documents, policies, and the output folder, click **Run**. The validation runs. See [Viewing Ad-Hoc Validation Results on page 18](#) for information about the results.


## Viewing Ad-Hoc Validation Results

When validation is complete, a list of validation results appears in the **Validation Result** view. For each result, you can see a detailed HTML report. You can also see a summary report for all validation results. By default, the report style is the same as for Policy Manager validation reports. For information about setting report styles, see [Setting Report Style on page 21](#).

### To see a validation report:

- 1 Right-click one of the validation results in the **Validation Result** view. Its context menu opens.



- 2 Click  **View Detail**. An HTML report opens, listing every failed assertion and all policies and documents used in the validation.

## GoogleSearch.wsdl

Report

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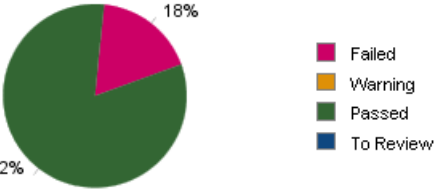
**External Document:** [GoogleSearch.wsdl](#)

**Technical policy:** [WS-I Basic Profile Policy](#)

**Status:** ✘ Non-compliant

**Validated:** 2007-11-15 10:26:17.515


Assertions



Category	Percentage
Failed	18%
Warning	0%
Passed	82%
To Review	0%

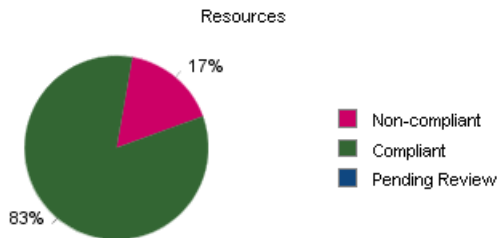
**Failed Assertions**

Assertion	Severity	Document	Error Line
BP2406	Normal	<a href="#">GoogleSearch.wsdl</a>	
The use attribute of a soapbind:body, soapbind:fault, soapbind:header and soapbind:headerfault does not have value of "literal". Caused by:SOAPBody ({http://schemas.xmlsoap.org/wsdl/soap/}body): required=null use=encoded encodingStyles=[http://schemas.xmlsoap.org/soap/encoding/] namespace			
BP2019	Normal	<a href="#">GoogleSearch.wsdl</a>	
Prerequisite assertion BP2406 failed: The use attribute of a soapbind:body, soapbind:fault, soapbind:header and soapbind:headerfault does not have value of "literal". Caused by:SOAPBody ({http://schemas.xmlsoap.org/wsdl/soap/}body): required=null use=encoded encodingStyles=[http://schemas.xmlsoap.org/soap/encoding/] namespace			

If you have multiple validation results, you can see a summary report of all the validation results. To see a summary report, click the  button, located above the **Validation Result** view.

## Summary Report

**Status:** ✘ Non-compliant  
**Validated:** 2007-11-15 10:26:17




Name	Status
<a href="#">GoogleSearch</a>	<span style="color: red;">✘</span> Non-compliant
<a href="#">EligibilityServiceBindings</a>	<span style="color: green;">✔</span> Compliant
<a href="#">ProfileService</a>	<span style="color: green;">✔</span> Compliant


Resource	Path	Policies	Status	Failed	Warning	Passed	To Review	Time
ProfileService.wsdl	D:\dthoa\runtime-New...	WS-I Basic Profile Policy	<span style="color: green;">✔</span> Compliant	0%	0%	100%	0	11/15/07 10:26 AM
MessageTypes.xsd	D:\dthoa\runtime-New...	WS-I Basic Profile Policy	<span style="color: gray;">?</span> Not Applicable	0%	0%	0%	0	11/15/07 10:26 AM
JobService.wsdl	D:\dthoa\runtime-New...	WS-I Basic Profile Policy	<span style="color: green;">✔</span> Compliant	0%	0%	100%	0	11/15/07 10:26 AM
GoogleSearch.wsdl	D:\dthoa\runtime-New...	WS-I Basic Profile Policy	<span style="color: red;">✘</span> Non-compliant	17.9%	0%	82.1%	0	11/15/07 10:26 AM

Clicking **report** in the **Details** column for a validated document opens the detail report for that document.

## Revalidating a Document

You can revalidate a document. Select a result in the **Validation Result** view and click the  button, located above the **Validation Result**. You can also revalidate a document from its validation result context menu.

## Exporting Reports

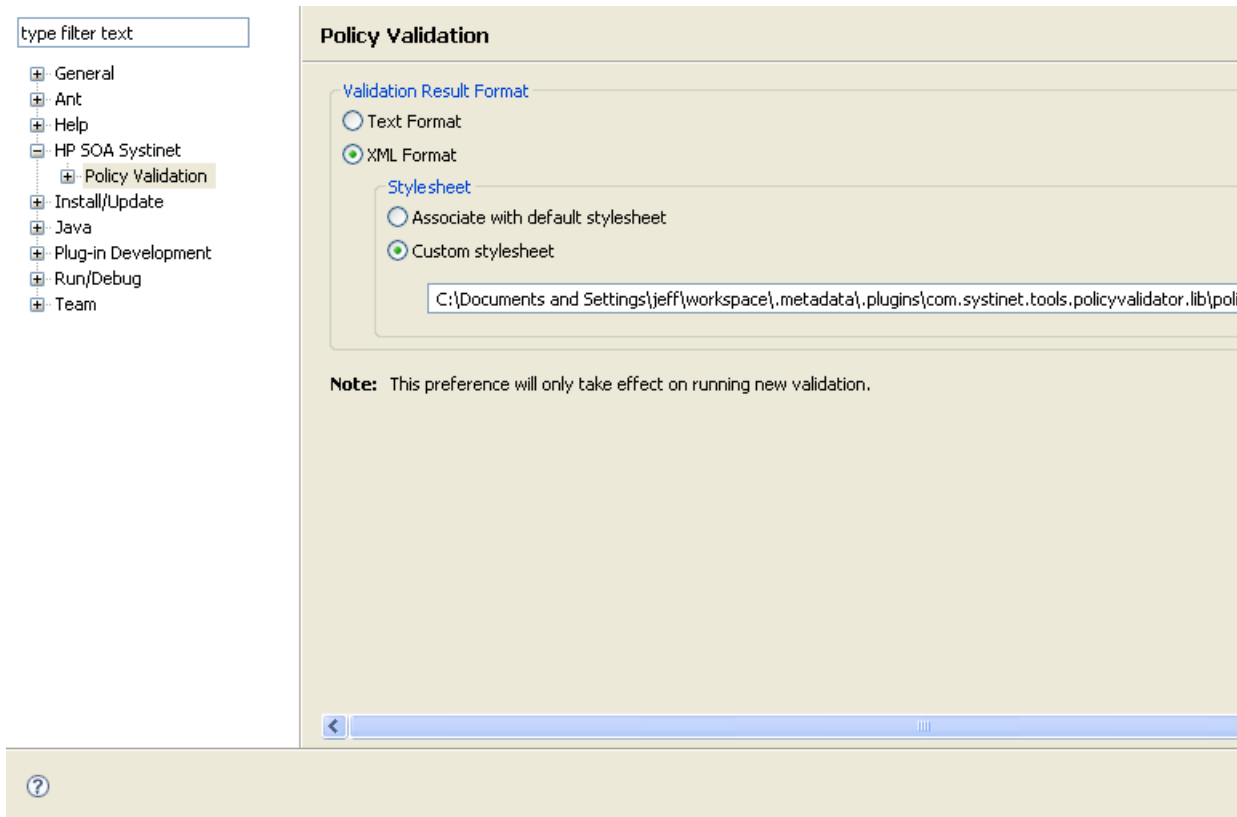
You can export ad hoc validation reports to your file system. Click the  button above the **Validation Result**, and browse for the location to which you want to save your reports. Both detail and summary reports are saved.

## Setting Report Style

The style of ad hoc validation reports can be changed. You can select a pure text style or an XML format with a stylesheet. The Policy Manager detail report stylesheet is included with Validation Plugin.

### To change the style of ad hoc validation reports:

- 1 Open the **Window->Preferences...** menu.
- 2 In the tree view of that menu, open **HP SOA Systinet->Policy Validation**. The **Policy Validation** page opens.



- 3 You can select a text format, a default XML stylesheet or a custom XML stylesheet. By default, the Policy Manager detail report stylesheet is chosen as the default stylesheet. If you want to use a different stylesheet, you can browse for it.

## 3 Automatic Validation

Documents in a project can be validated automatically while you work on them. After you set up automatic validation, you can see annotations to your document that change in real time. (These can be seen more clearly if you disable the Eclipse spellchecker.) Problems are listed in the **Problems** view. You can also see additional details about violated assertions and follow links to assertion specification webpages.

This chapter consists of the following sections:

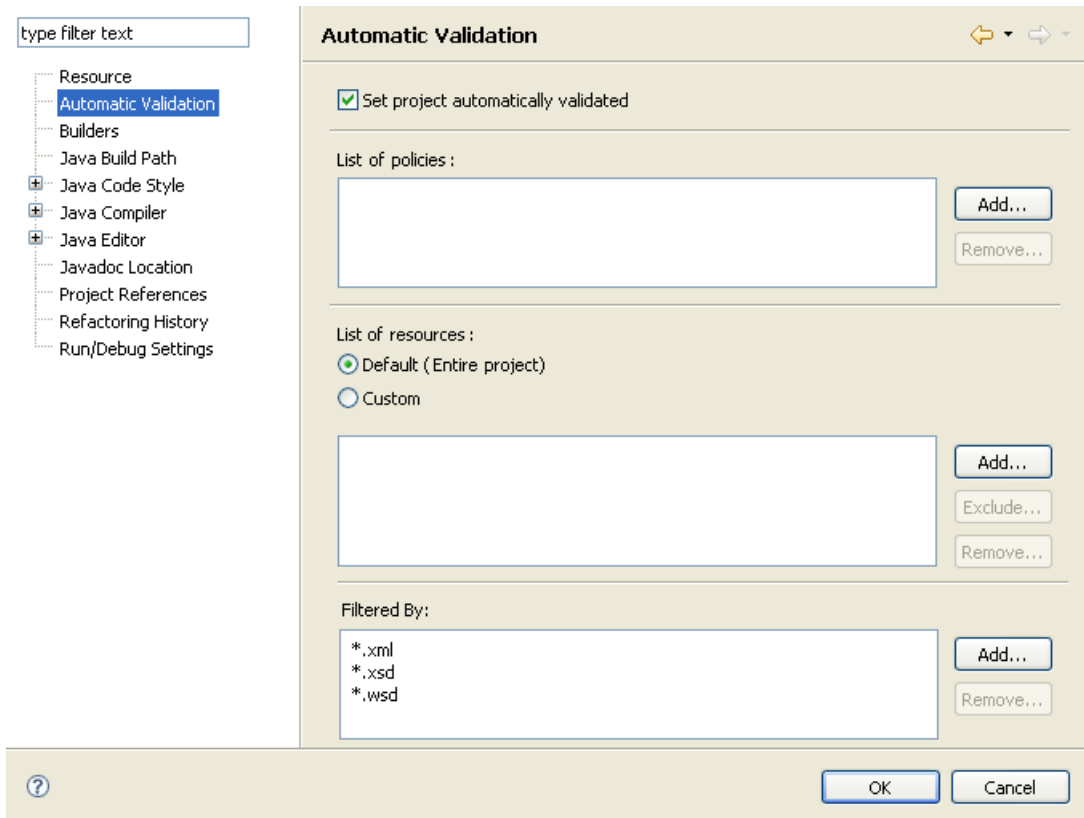
- [Setting Up Automatic Validation on page 23](#)
- [Disabling Spellchecker on page 27](#)
- [Assertion Details on page 27](#)

### Setting Up Automatic Validation

To enable automatic validation, you must set it up for your project. After automatic validation is enabled, policy violations appear in the Eclipse **Problems** view, and error markers and tooltips appear in the document's view.

#### **To enable automatic validation:**

- 1 Right-click your project in the **Package Explorer**. The context menu opens.
- 2 Click **Properties** in the project context menu. The **Properties for [Project Name]** wizard opens.



- 3 Select **Set Project Automatically Validated**.
- 4 Add policies to the automatic validation.
  - a Click **Add...** next to the **List of policies** for this project field. A list of available policies appears.
  - b Click a policy to add it to automatic validation.
  - c Repeat until you have added all the policies you want for automatic validation.



- 5 Add resources to be documented automatically. Select **Default (Entire project)** to validate all documents in the project. You can instead select a custom subset of documents to validate.

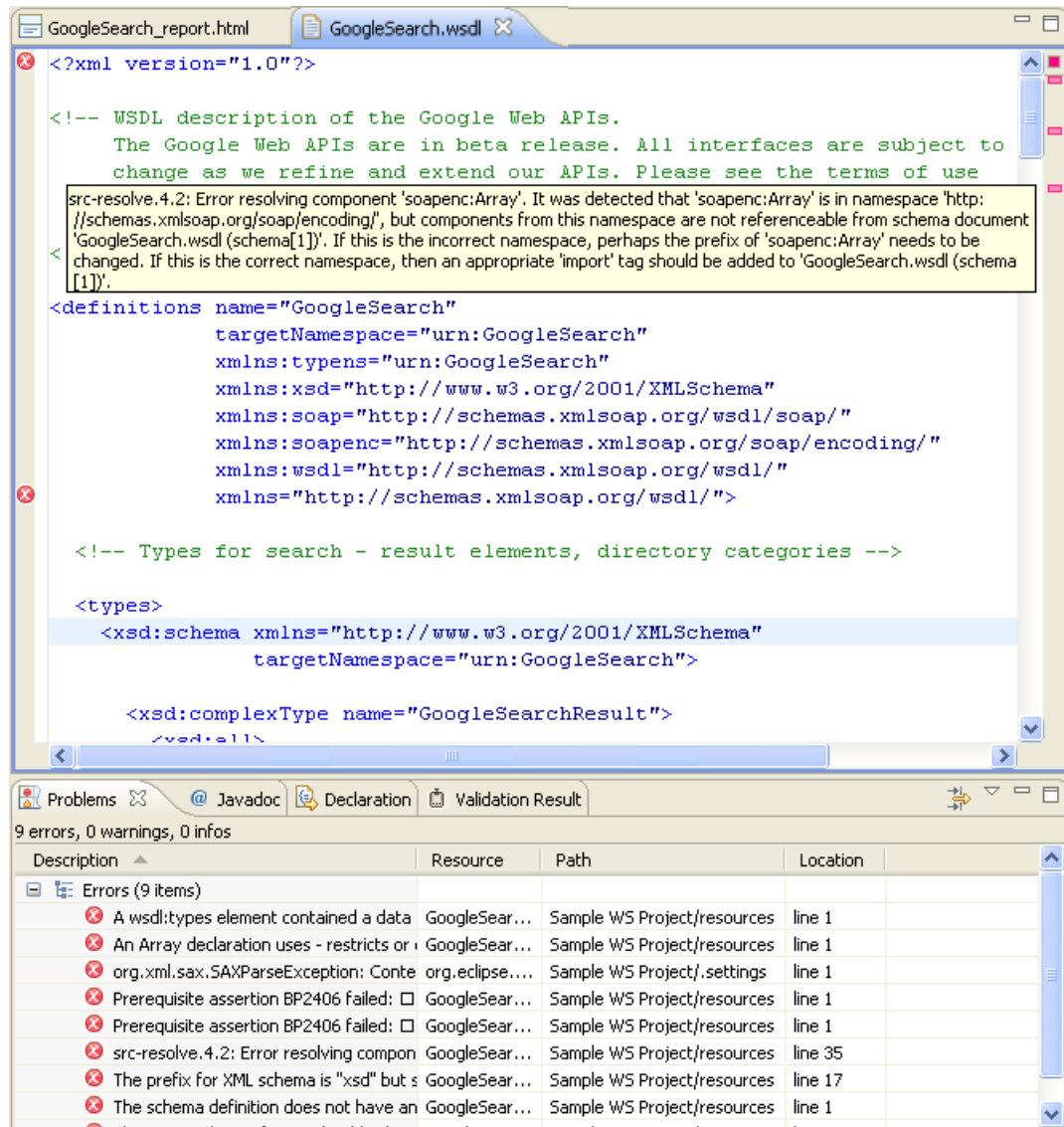
**To select a custom set of documents for automatic validation:**

- a Select **Custom**.
  - b Click **Add**. The **Select folder to validate** wizard opens, showing the file structure of your project.
  - c Select one or more folders and click **OK**. The contents of these folders are now selected for automatic validation. The wizard closes and the folders appear in the **List of Resources** field.
  - d To exclude a folder from automatic validation, select it in the **List of Resources** field and click **Remove**.
  - e To exclude individual resources from automatic validation, select a folder in the **List of Resources** field and click **Exclude**. A wizard opens, showing the individual files in the folder. Select the files to exclude and click **OK**.
- 6 Click **OK** after you have made all your selections. Automatic validation runs immediately on the selected resources, and any problems appear in the Eclipse **Problems** view.

After you set up automatic validation, you can exclude or include a document for validation. Right-click the document, which opens its context menu. In the context menu, go to **Configure Automatic Validation**. You have the option to **Exclude from Validation Path** or **Include into Validation Path**, depending on which is relevant.

Figure 2 shows the results of automatic validation, with all problems listed in the **Problems** view and a validated resource open in the main view. Note the error markers and tooltip. The Eclipse spellchecker is enabled in this view. To disable the spellchecker and remove its annotations (red underlining), see [Disabling Spellchecker on page 27](#).

Figure 2. Automatic Validation Results



## Disabling Spellchecker

The Eclipse spellchecker annotates documents open in the main view (**only on Eclipse 3.3 or higher**). The spellchecker annotations can obscure Validation Plugin automatic validation annotations. Therefore you should disable the Eclipse spellchecker.

### To disable the Eclipse spellchecker:

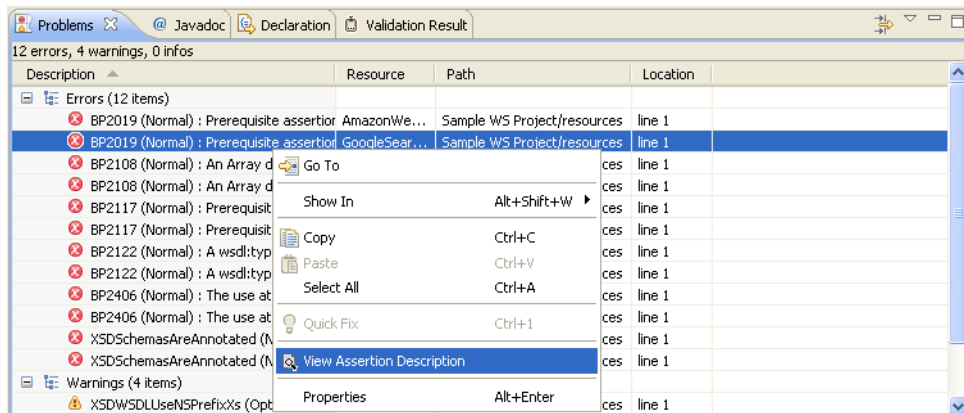
- 1 In the main menu bar, open **Window->Preferences** . The **Preferences** page opens.
- 2 In the **Preferences** page tree menu, go to **General->Editors->Text Editors->Spelling**. The **Spelling** page opens.
- 3 Unselect **Enable spell checking** and click **OK**.

## Assertion Details

You can view additional details about assertions that were violated. Validation Plugin can create a special tooltip describing the assertion, with HTML links to assertion description webpages.

### To view an assertion description:

- 1 Right-click one of the errors listed in the **Problems** view. A context menu opens.



- 2 Click **View Assertion Description**. A tooltip opens with the assertion description and a link to any online resources about the assertion, such as its WS-I specification.

