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## Generating tests from WS-BPEL 2.0 with IBM Rational Tester for SOA Quality

### Question & Answer

#### Question

IBM® Rational® Tester for SOA Quality can automatically generate functional tests from a business process definition. The tool can use the Web Services Business Process Execution Language (WS-BPEL) 2.0 standard. However, the generation only works under certain conditions, and for a limited number of BPEL models.

#### Answer

IBM Rational Tester for SOA Quality parses a BPEL model file and finds all the valid paths that the BPEL diagram defines. You select options in a wizard for generating tests, that use those valid paths.

The main options available are:

- Create one test with the longest path.
- Create one test with all the concurrent paths.
- Create one test for each concurrent path.
- Enable data correlation in the generated tests.
- Do not test the **otherwise** activity.

The result is a new folder in the project's Test Navigator. This folder contains all the generated Web Services tests. Those tests only contain default message data, that you need edit with valid input values before you run them.

#### Additional information:

- This feature leverage the open source [Eclipse BPEL project](#) that supports the BPEL 2.0 standard.
- Websphere today supports BPEL 1.1 (the previous release of BPEL) in Websphere Business Modeler, Websphere Integration Developer, and Websphere Process Server.
- BPEL 2.0 is compatible with BPEL 1.1 except on 3 specific areas, and that have not impact on this feature.
- IBM Rational Tester for SOA only takes into account the BPEL invoke activities to generate the tests.
- IBM Rational Tester for SOA ignores the BPEL receive activities and reply activities in this current version. The reason is that they would translate into the creation of web services stubs which are currently unsupported.
- Moreover, the tool only takes the invocation of services with a valid web services binding.

#### Troubleshooting guide:

- Verify that the BPEL contains for all the WSDL that are used the right import statement.

For example

```
<bpws:import importType="http://www.w3.org/2001/XMLSchema" location="foo.wsdl"
namespace="http://foo"/>
```

Verify that this import does NOT contain any relative file path such as:

```
". ./ ../foo.wsdl"
```

- Verify that the services that the BPEL invokes have a web service binding definition in the WSDL file. In the case of Websphere Integration Developer, this means that you need to export those services with Web Services binding.

Here is an example of a supported BPEL invoke statement

### Document Information

More support for:  
[IBM Rational Performance Tester](#)

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```
<bpws:invoke name="myOperation" operation="myOperation"
partnerLink="IServicePartner" portType="ns3:IService"
wpc:displayName="myOperation" wpc:id="20">
```

- Websphere Integration Developer does not generate the required soapAction attributes for the soap operations in the WSDL files. You need to edit the generated WSDL files, as follows for every operation:

```
<soap:operation soapAction=""/>.
```

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