

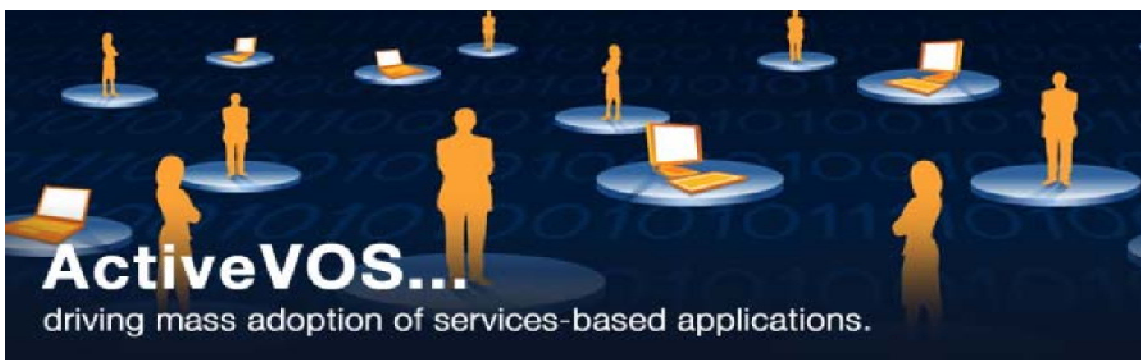


Where Am I Connected From Sample

Hello World Series

AN ACTIVE ENDPOINTS SAMPLE

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“Hello World: Where Am I Connected From” Sample

This sample is the third in a Hello World series of samples. We recommend that you complete *Echo Hello World* and *Hello Jane Doe* prior to completing this sample.

In this sample, a process wraps a publicly accessible web service, “callshowmyip” that returns location information associated with the caller’s IP address. The process will take no input parameters. It will simply return to the caller a string containing “Hello World, I am connected and online from *CITY, STATE, COUNTRY*” using the information provided by the callshowmyip service.

This sample will demonstrate how to:

- Create a (Web service) invoke activity
- Create an interface for the process
- Perform simple XML manipulation required to invoke the service and process its output
- Generate output for the process by concatenating the city, state and country information returned by the callshowmyip service
- Simulate and deploy a process, and learn how to access process detail information on the ActiveVOS Server console

We recommend that you print and read this document at the same time as viewing the accompanying recording.

Start the recording by selecting the *video* link for this sample from the [Getting Started](#) section of Education Center.

After completing the sample, we recommend that you proceed to the Loan Approval Process product tutorial where you learn much more about visual orchestration made easy.

To access the tutorial from ActiveVOS Designer, select **Help > Help Contents >** select the **ActiveVOS Designer Online Help >** and then **ActiveVOS Tutorial**. You can also access this content

and the documentation online from the ActiveVOS 6.1 product documentation link in the Product Documentation section of Education Center: <http://www.activevos.com/community-educationcenter.php>.

If you have any problems with this sample, please contact evalsupport@activevos.com for assistance.

Let's get started.

Step 1. Create an orchestration project. Name it "FindWhereConnected"

Step 2. Create a BPEL Process in the "bpel" folder. Name it "FindWhereConnected.bpel"

Step 3. Create the process' WSDL interface.

The process will take no input parameters. It will return to the caller a string containing "Hello World, I am connected and online from *CITY, STATE, COUNTRY*" using the information provided by the "callshowmyip" service.

Using the WSDL Editor or by pasting the content of the WSDL we provide you at the end of this document, create a WSDL document that you save it in the "wsdl" folder as "FindWhereConnected.wsdl".

To create the WSDL document, select File > New > WSDL File. Select the "SOAP Binding Option" of "document literal" and then follow the instructions in the accompanying recording, or paste the following in a document you name FindWhereConnected.wsdl. If pasting the content, use the "source" tab and overwrite the entirety of the WSDL's content with what follows.

We will use a single "findWhereConnected" operation and return a "findWhereConnectedResponse" as a string.

Step 4. Create a Process Service Consumer.

To create a Process Service Consumer, select the Process Service Consumers node in the Participants View, right button mouse click, and select “New Process Service Consumer...” Use the default consumer name provided.

Select from the Workspace folder the “findWhereConnected” interface generated by the creation of the WSDL above.

Step 5. Create receive and reply activities for the process

1. Drag the “findWhereConnected” operation that was created under the process consumer to the canvas. This will create BPEL receive and reply activities.
2. Rename (optionally) the reply activity as *RespondWithLocation*.

Step 6. Investigate the callshowmyip service by following the instructions of the recording

1. Start the embedded browser and connect to <http://www.ippages.com/soap2008/server.php#>
2. Study the service
3. Obtain the URL to its WSDL from <http://www.ippages.com/soap2008/server.php?wsdl>
4. Exercise the service using Web Services Explorer

Step 7. Create a partner service provider for the callshowmyip service

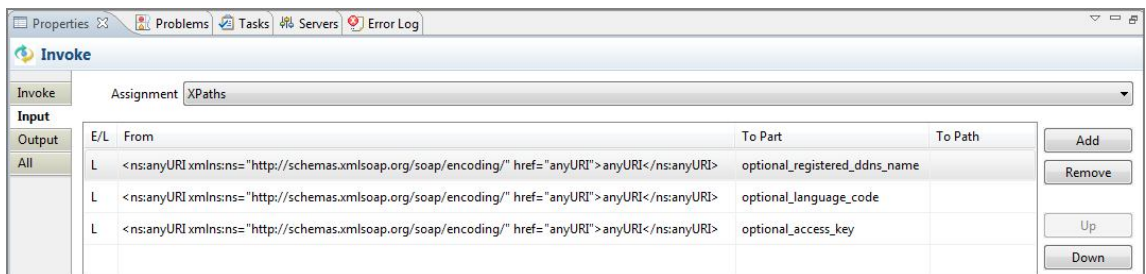
1. Following the instructions of the recording, create a partner service provider
2. Use the “Import Service Reference...” dialog to import a reference and the services WSDL interface into the FindWhereConnected project
3. Select the callshowmyipPortType interface as the interface of the service

Step 8. Create an invoke activity for the callshowmyip service

1. Expand the Partner Service Providers node, then Provider, and select the callshowmyip operation
2. Drag the callshowmyip operation onto the canvas and select or carry out the following updates in the wizard
3. Connect the three activities

Step 9. Prepare the input and outputs for process activities

1. The findWhereConnected activity does not take any input, so no variable needs to be defined for it
2. Next you need to initialize each of the message parts of the callshowmyip invoke activity. For each of its three parts, create a literal *anyURI* assignment. Follow the recording. When completed the following three XPath assignments will have been created

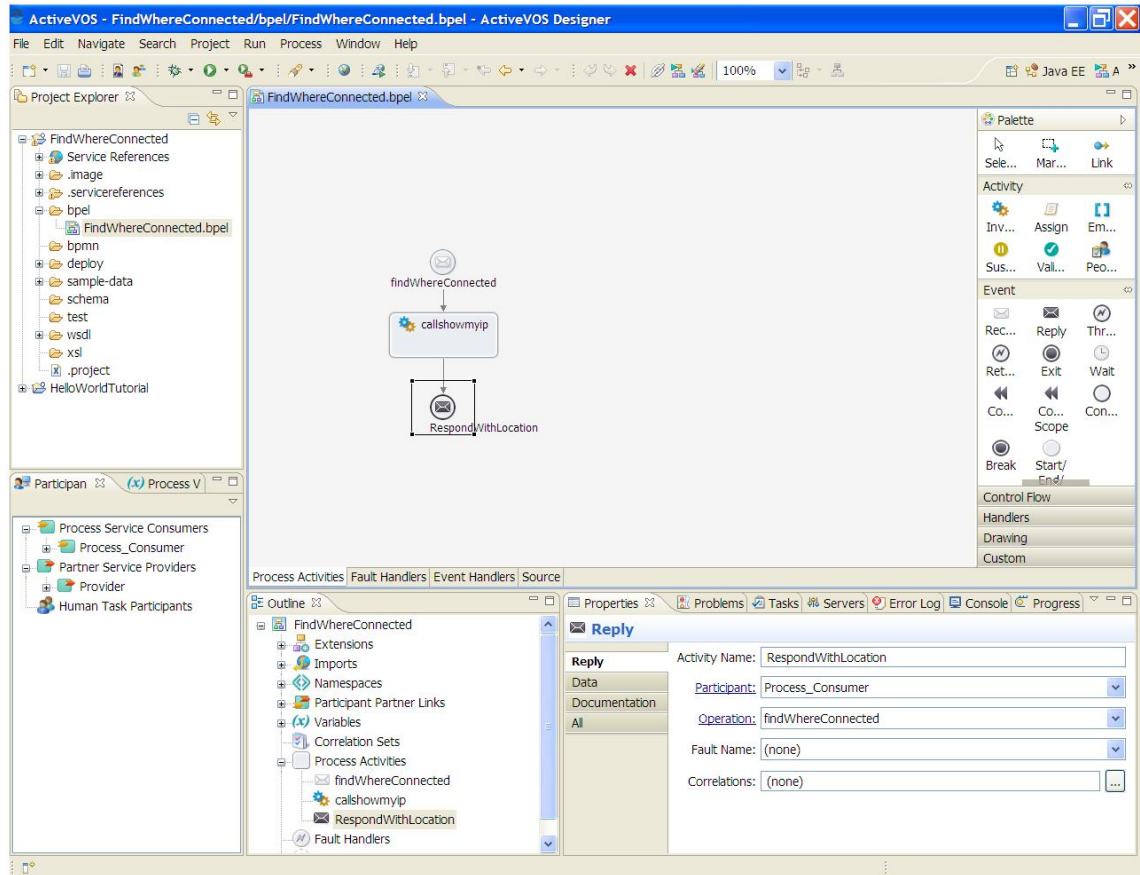


3. Prepare the output creating the callshowmyipResponse variable and assigning the response returned by the callshowmyip service to this variable
4. And finally, prepare the output of the RespondWithLocation reply operation using an XPath expression that uses the concat() function as follows. Please note the location of the commas in the expression.

```
concat('Hello World, I am connected and online from', ' ', $callshowmyipResponse.return/CITY, ', ', $callshowmyipResponse.return/STATE, ', ', $callshowmyipResponse.return/COUNTRY )
```

End Result

The process is done.



The screenshot displays the ActiveVOS Designer interface for a BPEL process named 'FindWhereConnected'. The main workspace shows a process diagram with an initial event 'findWhereConnected' leading to a 'callshowmyip' activity, which then leads to a 'RespondWithLocation' activity. The 'RespondWithLocation' activity is highlighted in the 'Properties' pane, showing the following configuration:

Property	Value
Activity Name	RespondWithLocation
Participant	Process_Consumer
Operation	findWhereConnected
Fault Name	(none)
Correlations	(none)

The interface also includes a Project Explorer on the left, an Outline pane at the bottom left, and a Palette on the right for adding activities and events.

Process WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns="http://www.example.org/FindWhereConnected/"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
name="FindWhereConnected"
targetNamespace="http://www.example.org/FindWhereConnected/">
  <wsdl:types>
    <xsd:schema
targetNamespace="http://www.example.org/FindWhereConnected/">
      <xsd:element name="findWhereConnected">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="in" type="xsd:string"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="findWhereConnectedResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="out" type="xsd:string"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:schema>
  </wsdl:types>
  <wsdl:message name="findWhereConnectedRequest">
    <wsdl:part element="tns:findWhereConnectedRequest"
name="parameters"/>
  </wsdl:message>
  <wsdl:portType name="FindWhereConnected">
    <wsdl:operation name="findWhereConnected">
      <wsdl:input message="tns:findWhereConnectedRequest"/>
      <wsdl:output message="tns:findWhereConnectedResponse"/>
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="FindWhereConnectedSOAP"
type="tns:FindWhereConnected">
    <soap:binding style="document"
transport="http://schemas.xmlsoap.org/soap/http"/>
    <wsdl:operation name="findWhereConnected">
      <soap:operation
soapAction="http://www.example.org/FindWhereConnected/findWhereConne
cted"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>
  <wsdl:service name="FindWhereConnected">
    <wsdl:port binding="tns:FindWhereConnectedSOAP"
name="FindWhereConnectedSOAP">
      <soap:address location="http://www.example.org"/>
    </wsdl:port>
  </wsdl:service>
</wsdl:definitions>

```

Next Steps

Next we demonstrate how to simulate, deploy, and run the sample. The recording demonstrates these steps as well as demonstrates how to access process detail information from the ActiveVOS Server console.

To obtain more detailed information how to carry out these steps proceed to the Loan Approval Process product tutorial. To do so, launch the Welcome page using **Help > Welcome**, select the **First Steps – Take your first steps with ActiveVOS** item and process to **Step 3 – Deploy and run the completed Loan Approval Process** to run and observe the operation of the process, and then **Step 4 - Learn how to build the Loan Approval Process** which then takes you through the steps outlined at

<http://infocenter.activevos.com/infocenter/ActiveVOS/v61/topic/com.activee.bpel.doc/html/UG3.html>.

About Active Endpoints

Active Endpoints (www.activevos.com) is the leading developer of visual orchestration systems. VOS empowers line of business project teams to create applications using services and industry standards, making their businesses more agile and effective. Active Endpoints' ActiveVOS promotes mass adoption of SOA-enabled applications by focusing on accelerating project delivery time with a standards-based, easy to use system. Active Endpoints is headquartered in Waltham, MA with development facilities in Shelton, CT.

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