



Exposing a Process Flow as a Web Service

This topic describes how to expose an iWay process flow as a web service, which is also part of an iWay Integration Application (iIA).

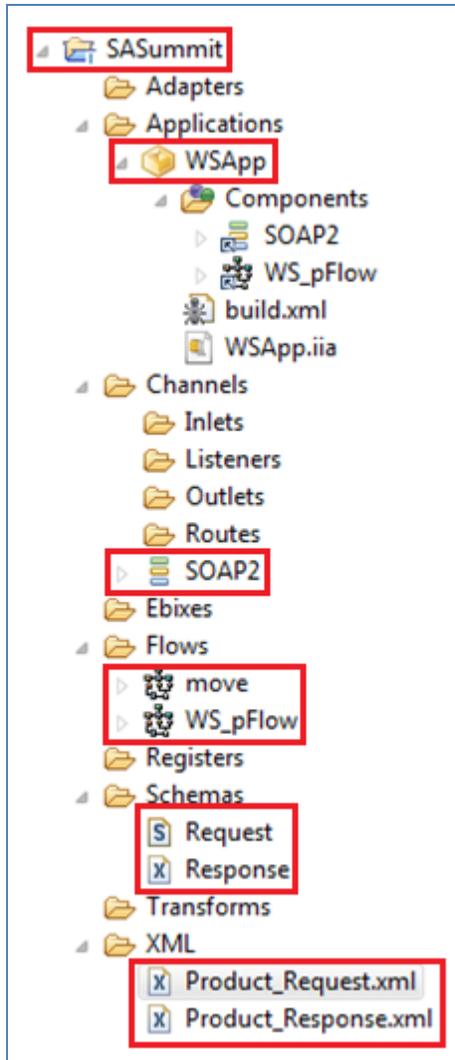
Before continuing, ensure that you download the *SASummit.zip* file, which contains a packaged iWay Integration Project Version 7.0 SP5 (7.0.5) that is referenced by this how-to.

Understanding the Components of the Sample iWay Integration Project

The iWay Integration Project (*SASummit*) that is included with this how-to contains the following preconfigured iWay components.

iWay Component	Description
Application	WSApp. Contains the SOAP2 channel & WS_pFlow exposed as a web service.
Channel	SOAP2. SOAP listener on port 5000 with move process flow.
Process Flows	<ul style="list-style-type: none">• move. This process flow is structured with the <i>Start—End</i> objects and serves as a default process flow for the SOAP2 channel.• WS_pFlow. This process flow is structured with the <i>Start—Constant_Service—End</i> objects. The Constant service returns a default response string based on the input document.
Schemas	<ul style="list-style-type: none">• Request. Request schema for the START object.• Response. Response schema for the END object.
XML Documents	<ul style="list-style-type: none">• Product_Request.xml. Sample input document for testing.• Product_Response.xml. Sample output document to be expected.

The following image shows the expanded iWay Integration Project (*SASummit*) in iWay Integration Tools (iIT) with all of the preconfigured iWay components that are included.



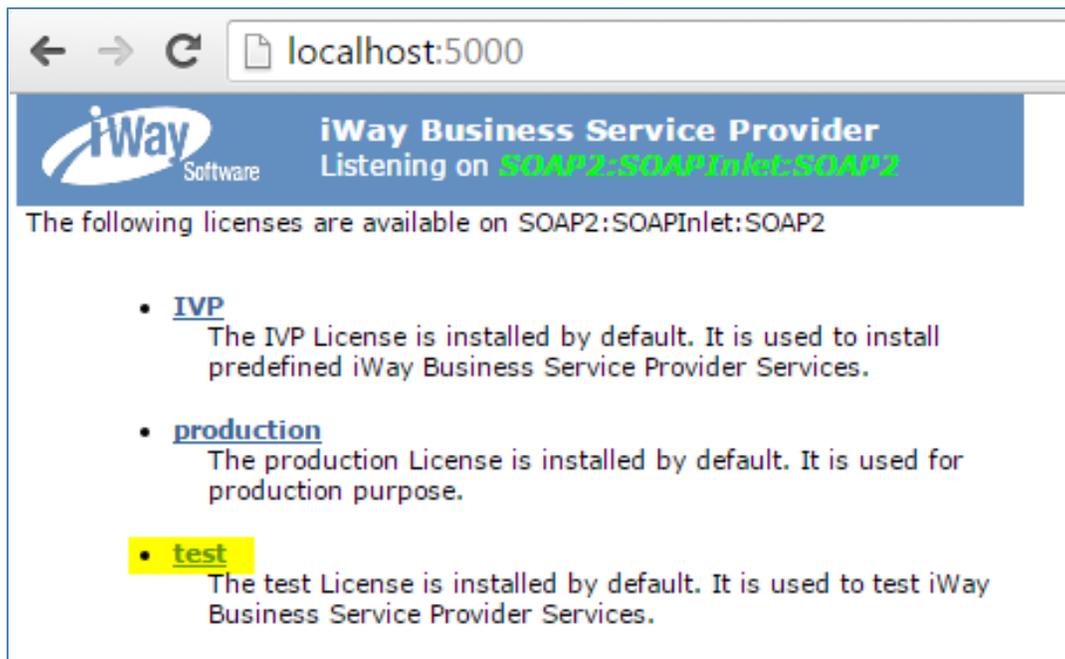
Installing and Deploying the iWay Integration Application (WSApp)

1. Open iWay Integration Tools (iIT) Version 7.0.5 and import the *SASummit.zip* file as an existing iWay Integration Project into the workspace.
2. Review the components of the project.
3. The provided iWay Integration Application (iIA), *WSApp*, can be published to the iWay Service Manager (iSM) runtime as is or you can build your own application following the instructions in the next section (*Exposing the Process Flow as a Web Service in an iWay Integration Application*).
4. Publish *WSApp* to iSM.
5. Connect to the iSM Administration Console.

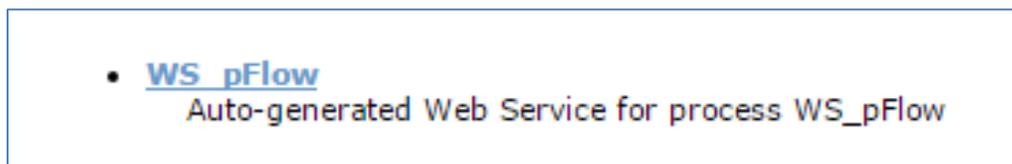
- Under *Applications*, deploy the newly published iIA (*WSApp*) into the runtime with the default template (*raw*).
- Start the deployed *WSApp* so it is up and running.
- Open a new browser and connect to:

<http://localhost:5000>

The available licenses page opens, as shown in the following image.

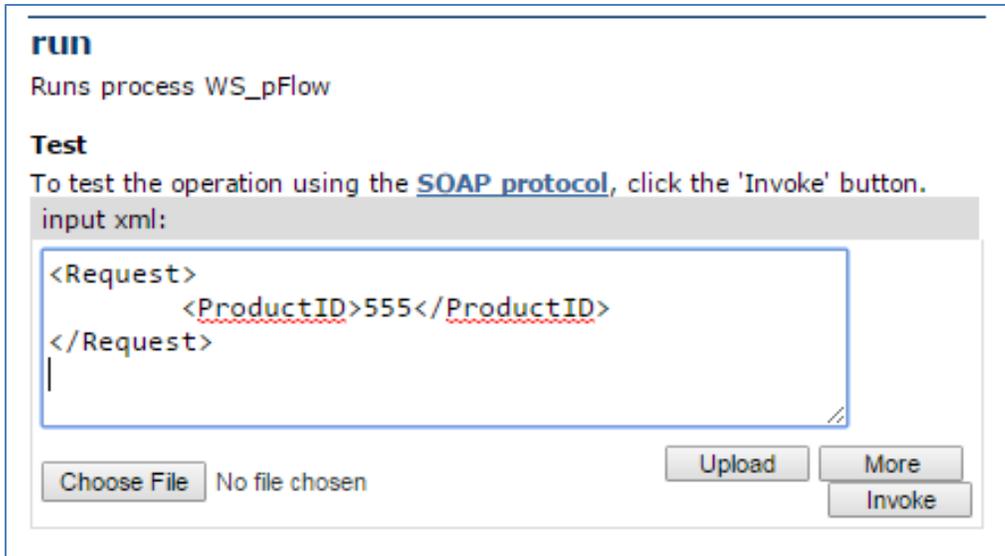


- Click the available *test* license under which the process flow (*WS_pFlow*) was published by default.
- Click the *WS_pFlow* hyperlink, as shown in the following image.



- Click *run* as the default method name.

The run dialog opens, as shown in the following image.

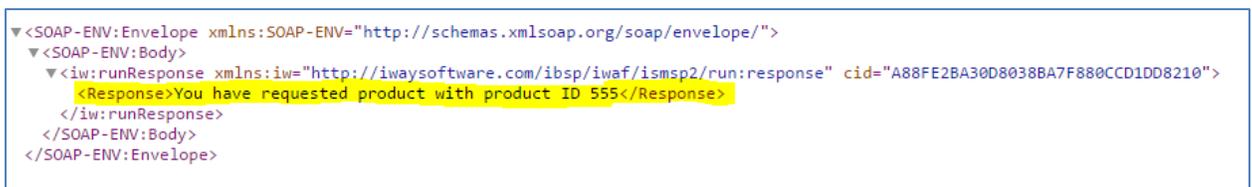


12. Enter the following sample input XML document:

```
<Request>
  <ProductID>555</ProductID>
</Request>
```

13. Click *Invoke*.

An XML response document is returned, as shown in the following image.



Exposing the Process Flow as a Web Service in an iWay Integration Application

1. Create a new SOAP channel which contains a SOAP listener, a move process flow (containing *Start—End* objects), and a default outlet.

Refer to the preconfigured channel (*SOAP2*) as a model, which you can also use by default.

2. Create XML schemas for the request and response documents, which you want to represent your contract for the web service definition.
3. Create the process flow that you want to expose as a web service.

Assign an XML request schema to the Start object and an XML response schema to the End object. The main portion of the process flow should contain your logic for execution.

Refer to the preconfigured process flow (*WS_pFlow*) as a model.

4. Create an iWay Integration Application (iIA) to host your process flow as a web service.

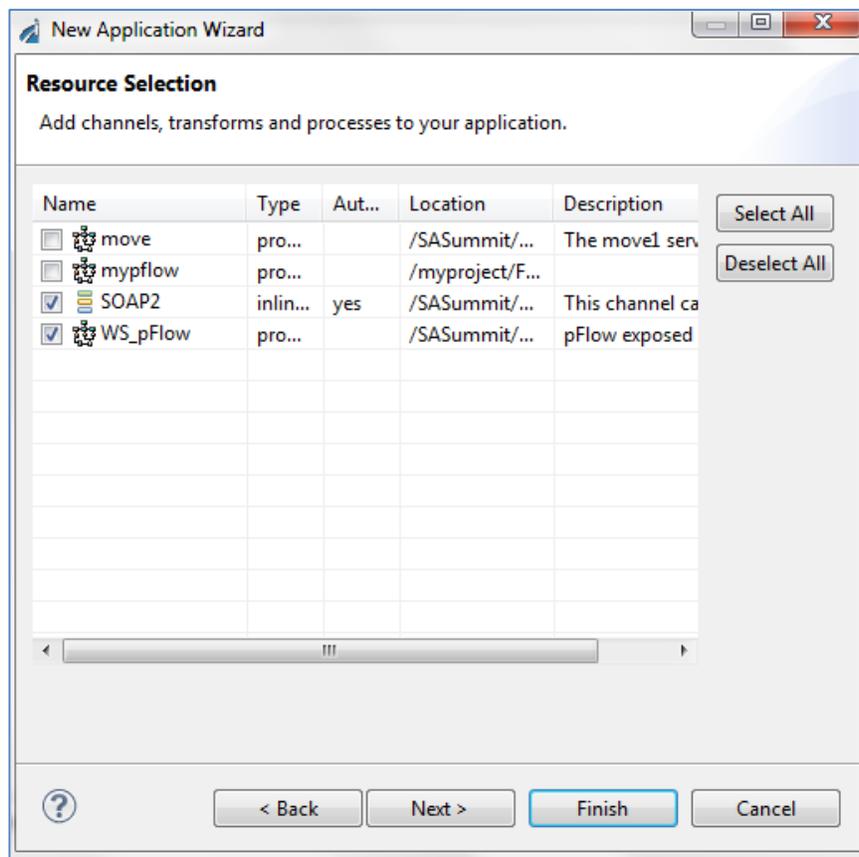
The iIA must include the SOAP channel you defined and the process flows you wish to expose as a web service.

- a. Right-click the *Applications* folder, select *New*, and then click *Application*.

The New Application Wizard opens.

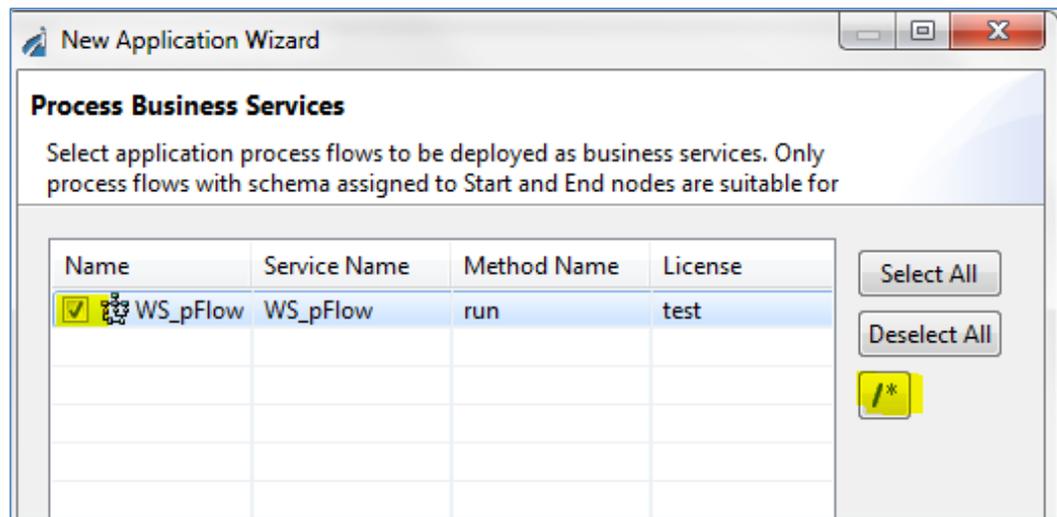
- b. Provide a name and a description (optional) for your new iIA, and then click *Next*.

The Resource Selection pane opens, as shown in the following image.



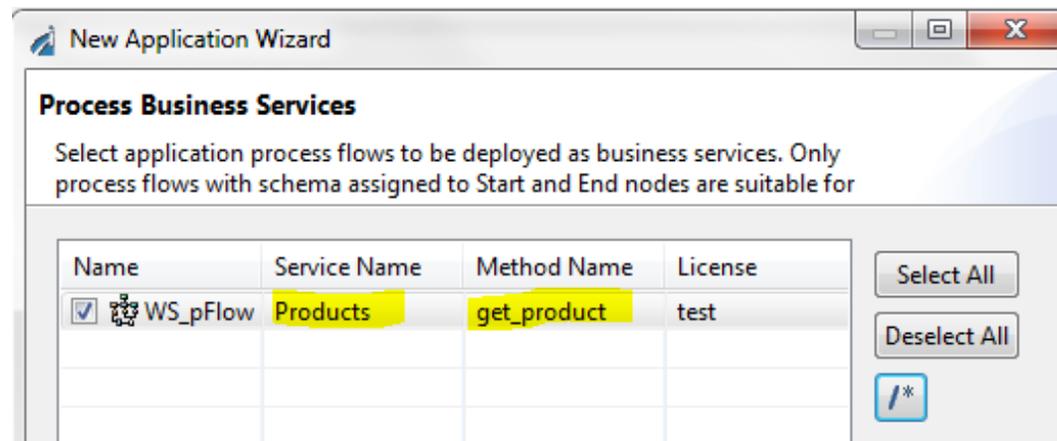
- c. Select the SOAP channel and any process flows that you want to expose as a web service, and then click *Next*.

The Process Business Services pane opens, as shown in the following image.



- d. Select the process flows to be exposed as web services.

You can also click the *Edit* icon on the right to modify the Service Name, Method Name, and License parameters, as shown in the following image.



- e. Click *Next* and proceed with the standard iIA creation.

The final iIA is created.

Name	Type	Auto Start	Location	Description
SOAP2	inlineChannel	yes	/SASummit/Channels/SOAP2.iwchannel	This channel can be used to add IBSP (SOAP) services to an iWay Ap...
WS_pFlow	process		/SASummit/Flows/WS_pFlow.iwp	pFlow exposed as a Webservice

- f. Publish your new iIA to iSM and then deploy the iIA using the default template (*raw*).
- g. Start your deployed iIA so it is up and running.
- h. Navigate to the SOAP2 port that you defined (for example, 5000) and test the process flow as a web service.

Products - An iWay Business Service

localhost:5000/test/Products.ibs

iWay Software Products
An iWay Business Service

Auto-generated Web Service for process WS_pFlow

The following operations are supported. For a formal definition, please review the [Service Description](#).

- [get_product](#)
Runs process WS_pFlow

Note: You can also use the *Service Description* hyperlink to obtain the WSDL URL.

localhost:5000/test/Produ x

localhost:5000/test/Products.ibs?wsdl

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```

<?xml version="1.0" encoding="UTF-8" ?>
<wsdl:definitions xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" xmlns:tm="http://microsoft.com/wsdl/mime/text+xml" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:iwaf="http://www.iwaysoftware.com/ibsp/iwaf/ismsp2/get_product" xmlns:iwmla="http://www.iwaysoftware.com/ibsp/iwmla" targetNamespace="urn:schemas-iwaysoftware-com:iwse" >
  <wsdl:types>
    <xs:schema targetNamespace="urn:schemas-iwaysoftware-com:iwse" elementFormDefault="qualified" >
      <xs:element name="ibsinfo" >
        <xs:complexType base="baseIbsInfo" >
          <xs:sequence >
            <xs:element name="service" type="xs:string" />
            <xs:element name="method" type="xs:string" />
            <xs:element name="license" type="xs:string" />
            <xs:element name="disposition" type="xs:string" minOccurs="0" />
            <xs:element name="Username" type="xs:string" minOccurs="0" />
            <xs:element name="Password" type="xs:string" minOccurs="0" />
            <xs:element name="language" type="xs:string" minOccurs="0" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:schema>
  </wsdl:types>
</wsdl:definitions>

```