

WSDL - EXAMPLE

http://www.tutorialspoint.com/wsdl/wsdl_example.htm

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Given below is a WSDL file that is provided to demonstrate a simple WSDL program.

Let us assume the service provides a single publicly available function, called *sayHello*. This function expects a single string parameter and returns a single string greeting. For example, if you pass the parameter *world* then service function *sayHello* returns the greeting, "Hello, world!".

Example

Contents of HelloService.wsdl file:

```
<definitions name="HelloService"
  targetNamespace="http://www.examples.com/wsdl/HelloService.wsdl"
  xmlns="http://schemas.xmlsoap.org/wsdl/"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns:tns="http://www.examples.com/wsdl/HelloService.wsdl"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">

  <message name="SayHelloRequest">
    <part name="firstName" type="xsd:string"/>
  </message>

  <message name="SayHelloResponse">
    <part name="greeting" type="xsd:string"/>
  </message>

  <portType name="Hello_PortType">
    <operation name="sayHello">
      <input message="tns:SayHelloRequest"/>
      <output message="tns:SayHelloResponse"/>
    </operation>
  </portType>

  <binding name="Hello_Binding" type="tns:Hello_PortType">
    <soap:binding style="rpc"
      transport="http://schemas.xmlsoap.org/soap/http"/>
    <operation name="sayHello">
      <soap:operation soapAction="sayHello"/>
      <input>
        <soap:body
          encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
          namespace="urn:examples:helloservice"
          use="encoded"/>
      </input>

      <output>
        <soap:body
          encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
          namespace="urn:examples:helloservice"
          use="encoded"/>
      </output>
    </operation>
  </binding>

  <service name="Hello_Service">
    <documentation>WSDL File for HelloService</documentation>
    <port binding="tns:Hello_Binding" name="Hello_Port">
      <soap:address
        location="http://www.examples.com/SayHello/" />
    </port>
  </service>
</definitions>
```

Example Analysis

- **Definitions** : HelloService
- **Type** : Using built-in data types and they are defined in XMLSchema.
- **Message** :
 - sayHelloRequest : firstName parameter
 - sayHelloresponse: greeting return value
- **Port Type** : sayHello **operation** that consists of a request and a response service.
- **Binding** : Direction to use the SOAP HTTP transport protocol.
- **Service** : Service available at <http://www.examples.com/SayHello/>
- **Port** : Associates the binding with the URI <http://www.examples.com/SayHello/> where the running service can be accessed.