

WSDL - <SERVICE> ELEMENT

The **<service>** element defines the ports supported by the Wweb service. For each of the supported protocols, there is one port element. The service element is a collection of ports.

- Web service clients can learn the following from the service element:
 - where to access the service,
 - through which port to access the web service, and
 - how the communication messages are defined.
- The service element includes a documentation element to provide human-readable documentation.

Here is a piece of code from the Example chapter:

```
<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>
```

The binding attributes of *port* element associate the address of the service with a binding element defined in the web service. In this example, this is *Hello_Binding*

```
<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>
```