

```

<definitions>
<!-- Abstrakter Teil | Beschreibung der verwendeten Datentypen und des Webservices -->
<types>
  <schema>...</schema>
</types>

<message>
  <part>...</part>
</message>

<portType>
  <operation>
    <input>...</input>
    <output>...</output>
  </operation>
</portType>

<!-- Konkreter Teil | Beschreibung der URIs und Protokolle -->
<binding>
  <operation>
    <input>...</input>
    <output>...</output>
  </operation>
</binding>

<service>
  <port>...</port>
</service>

</definitions>
  
```

Tags	Beschreibung
<types>	Dient der Angabe der verwendeten Datentypen. Hierbei kann es sich um primitive- und komplexe Datentypen handeln.
<message>	Beschreibung der zu übertragenden Nachrichten.
<portType>	Beschreibung der Service Schnittstellen (vergleichbar mit Java Interface). <pre> graph LR subgraph One-Way R1[Service Requestor] --> P1[Service Provider] end subgraph Request_Response R2[Service Requestor] --> P2[Service Provider] P2 --> R2 end subgraph Response_Request_Solicit_Response R3[Service Requestor] --> P3[Service Provider] P3 --> R3 end subgraph Notification P4[Service Provider] --> R4[Service Requestor] end </pre> <input /> <input /> <output /> <input /> <output />
<binding>	
<service>	Ein Webservice kann auf verschiedene Arten aufgerufen werden. Die verschiedenen Arten werden durch Ports genauer beschrieben.

Beispiel (Hinweis: WSDLs von unten nach oben lesen)

```
<?xml version="1.0" encoding="UTF-8"?>
```

<!-- Root Element -->

```
<wsdl:definitions xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" xmlns:ns1="http://org.apache.axis2/xsd"
xmlns:ns="http://axis2.aaron.de" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:http="http://schemas.xmlsoap.org/wsdl/http/" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:mime="http://schemas.xmlsoap.org/wsdl/mime/" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" targetNamespace="http://axis2.aaron.de">
```

```
  <wsdl:documentation>
    Please Type your service description here
  </wsdl:documentation>
```

<!-- Abstrakter Teil | Beschreibung der verwendeten Datentypen und des Webservices -->

<wsdl:types>

```
  <xs:schema attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://axis2.aaron.de">
```

```
    <xs:element name="fahrenheitToCelsius">
```

```
      <xs:complexType>
```

```
        <xs:sequence>
```

```
          <xs:element minOccurs="0" name="fahrenheit" type="xs:float"/>
```

```
        </xs:sequence>
```

```
      </xs:complexType>
```

```
    </xs:element>
```

```
    <xs:element name="fahrenheitToCelsiusResponse">
```

```
      <xs:complexType>
```

```
        <xs:sequence>
```

```
          <xs:element minOccurs="0" name="return" type="xs:float"/>
```

```
        </xs:sequence>
```

```
      </xs:complexType>
```

```
    </xs:element>
```

```
    <xs:element name="celsiusToFahrenheit">
```

```
      <xs:complexType>
```

```
        <xs:sequence>
```

```
          <xs:element minOccurs="0" name="celsius" type="xs:float"/>
```

```
        </xs:sequence>
```

```
      </xs:complexType>
```

```
    </xs:element>
```

```
    <xs:element name="celsiusToFahrenheitResponse">
```

```
      <xs:complexType>
```

```
        <xs:sequence>
```

```
          <xs:element minOccurs="0" name="return" type="xs:float"/>
```

```
        </xs:sequence>
```

```
      </xs:complexType>
```

```
    </xs:element>
```

```
  </xs:schema>
```

```
</wsdl:types>
```

```
<wsdl:message name="celsiusToFahrenheitRequest">
```

```
  <wsdl:part name="parameters" element="ns:celsiusToFahrenheit"/>
```

```
</wsdl:message>
```

```
<wsdl:message name="celsiusToFahrenheitResponse">
```

```
  <wsdl:part name="parameters" element="ns:celsiusToFahrenheitResponse"/>
```

```
</wsdl:message>
```

```
<wsdl:message name="fahrenheitToCelsiusRequest">
```

```
  <wsdl:part name="parameters" element="ns:fahrenheitToCelsius"/>
```

```
</wsdl:message>
```

```
<wsdl:message name="fahrenheitToCelsiusResponse">
```

```
  <wsdl:part name="parameters" element="ns:fahrenheitToCelsiusResponse"/>
```

```
</wsdl:message>
```

```
<wsdl:portType name="TemperaturConverterPortType">
```

```
  <wsdl:operation name="celsiusToFahrenheit">
```

```
    <wsdl:input message="ns:celsiusToFahrenheitRequest" wsaw:Action="urn:celsiusToFahrenheit"/>
```

```
    <wsdl:output message="ns:celsiusToFahrenheitResponse" wsaw:Action="urn:celsiusToFahrenheitResponse"/>
```

```
  </wsdl:operation>
```

```
  <wsdl:operation name="fahrenheitToCelsius">
```

```
    <wsdl:input message="ns:fahrenheitToCelsiusRequest" wsaw:Action="urn:fahrenheitToCelsius"/>
```

```
    <wsdl:output message="ns:fahrenheitToCelsiusResponse" wsaw:Action="urn:fahrenheitToCelsiusResponse"/>
```

```
  </wsdl:operation>
```

```
</wsdl:portType>
```

<!-- Konkreter Teil | Beschreibung der URIs und Protokolle -->

```
<wsdl:binding name="TemperaturConverterSoap11Binding" type="ns:TemperaturConverterPortType">
```

```
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http" style="document"/>
```

```
  <wsdl:operation name="celsiusToFahrenheit">
```

```
    <soap:operation soapAction="urn:celsiusToFahrenheit" style="document"/>
```

```
    <wsdl:input>
```

```
      <soap:body use="literal"/>
```

```
    </wsdl:input>
```

```
    <wsdl:output>
```

```
      <soap:body use="literal"/>
```

```
    </wsdl:output>
```

```

</wsdl:operation>
<wsdl:operation name="fahrenheitToCelsius">
  <soap:operation soapAction="urn:fahrenheitToCelsius" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
</wsdl:binding>
<wsdl:binding name="TemperaturConverterSoap12Binding" type="ns:TemperaturConverterPortType">
  <soap12:binding transport="http://schemas.xmlsoap.org/soap/http" style="document" />
  <wsdl:operation name="celsiusToFahrenheit">
    <soap12:operation soapAction="urn:celsiusToFahrenheit" style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="fahrenheitToCelsius">
    <soap12:operation soapAction="urn:fahrenheitToCelsius" style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
</wsdl:binding>
<wsdl:binding name="TemperaturConverterHttpBinding" type="ns:TemperaturConverterPortType">
  <http:binding verb="POST" />
  <wsdl:operation name="celsiusToFahrenheit">
    <http:operation location="TemperaturConverter/celsiusToFahrenheit" />
    <wsdl:input>
      <mime:content type="text/xml" part="celsiusToFahrenheit" />
    </wsdl:input>
    <wsdl:output>
      <mime:content type="text/xml" part="celsiusToFahrenheit" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="fahrenheitToCelsius">
    <http:operation location="TemperaturConverter/fahrenheitToCelsius" />
    <wsdl:input>
      <mime:content type="text/xml" part="fahrenheitToCelsius" />
    </wsdl:input>
    <wsdl:output>
      <mime:content type="text/xml" part="fahrenheitToCelsius" />
    </wsdl:output>
  </wsdl:operation>
</wsdl:binding>

  <wsdl:service name="TemperaturConverter">
    <wsdl:port name="TemperaturConverterHttpSoap11Endpoint"
binding="ns:TemperaturConverterSoap11Binding">
      <soap:address
location="http://localhost:8080/Axis2TemperaturConverter/services/TemperaturConverter.TemperaturConverter
HttpSoap11Endpoint/" />
    </wsdl:port>
    <wsdl:port name="TemperaturConverterHttpSoap12Endpoint"
binding="ns:TemperaturConverterSoap12Binding">
      <soap12:address
location="http://localhost:8080/Axis2TemperaturConverter/services/TemperaturConverter.TemperaturConverter
HttpSoap12Endpoint/" />
    </wsdl:port>
    <wsdl:port name="TemperaturConverterHttpEndpoint" binding="ns:TemperaturConverterHttpBinding">
      <http:address
location="http://localhost:8080/Axis2TemperaturConverter/services/TemperaturConverter.TemperaturConverter
HttpEndpoint/" />
    </wsdl:port>
  </wsdl:service>
</wsdl:definitions>

```

Abhängigkeit zwischen WSDL Elementen

