

Bindings

A **binding** defines the message format and protocol details for operations and messages defined by a particular portType. There can be any number of bindings for a given portType.

The **name** attribute provides a unique name among all bindings defined in the enclosing WSDL document.

A binding references the portType it binds using the **type** attribute. Binding extensibility elements are used to specify the concrete grammar for the input, output, and fault messages. Per-operation binding information as well as per-binding information can also be specified. See the example below for more information.



Example:

Code:

```
<definitions name="StockQuote"
  targetNamespace="http://example.com/stockquote.wsdl"
  xmlns:tns="http://example.com/stockquote.wsdl"
  xmlns:xsd="http://www.w3.org/2000/10/XMLSchema"
  xmlns:xsd1="http://example.com/stockquote.xsd"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns="http://schemas.xmlsoap.org/wsdl/">

  <message name="GetTradePriceInput">
    <part name="tickerSymbol" element="xsd:string"/>
    <part name="time" element="xsd:timeInstant"/>
  </message>

  <message name="GetTradePriceOutput">
    <part name="result" type="xsd:float"/>
  </message>

  <portType name="StockQuotePortType">
    <operation name="GetTradePrice">
      <input message="tns:GetTradePriceInput"/>
      <output message="tns:GetTradePriceOutput"/>
    </operation>
  </portType>

  <binding name="StockQuoteSoapBinding" type="tns:StockQuotePortType">
    <soap:binding style="rpc" transport="http://schemas.xmlsoap.org/soap/http"/>

    <operation name="GetTradePrice">
      <soap:operation soapAction="http://example.com/GetTradePrice"/>
      <input>
        <soap:body use="encoded" namespace="http://example.com/stockquote"
encodingStyle="http://schemas.xmlsoap.org/soap/encoding/" />
      </input>
      <output>
        <soap:body use="encoded" namespace="http://example.com/stockquote"
encodingStyle="http://schemas.xmlsoap.org/soap/encoding/" />
      </output>
    </operation>
  </binding>

  <service name="StockQuoteService">
    <documentation>My first service</documentation>
    <port name="StockQuotePort" binding="tns:StockQuoteBinding">
      <soap:address location="http://example.com/stockquote"/>
    </port>
  </service>
</definitions>
```

Reversed UML model:

