

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:

