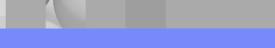
Using WebSphere Transformation Extender to call a WebService

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Agenda

- What is a WebService?
- Software used -
 - Mandatory
 - Optional
- Service used
- WSDL
- Import the WSDL into WTX
- Typetree





Agenda continued

- Map
- Adding the Rules Fail!
- Adding more rules Success!
- Further mapping possibilities
- Naming conventions and organisation
- Summary
- Q&A



What is a WebService

 A WebService is a method of communication between two electronic devices over the World Wide Web.

The W3C defines a 'WebService' as "a software system designed to support interoperable machine-to-machine interaction over a network".





Software used - Mandatory

- Before you can call a WebService with WTX, certain components need to be installed
- Execution Engine -
 - Launcher
 - Command Server
 - API
 - Design Studio
- WTX Pack for WebServices





Software used - Optional

- WebService validation tool Soap Sonar by Crosscheck Networks http://www.crosschecknet.com/products/soapsonar.php
- XML validation tool XML Spy by Altova http://www.altova.com/xml-editor/





Service used

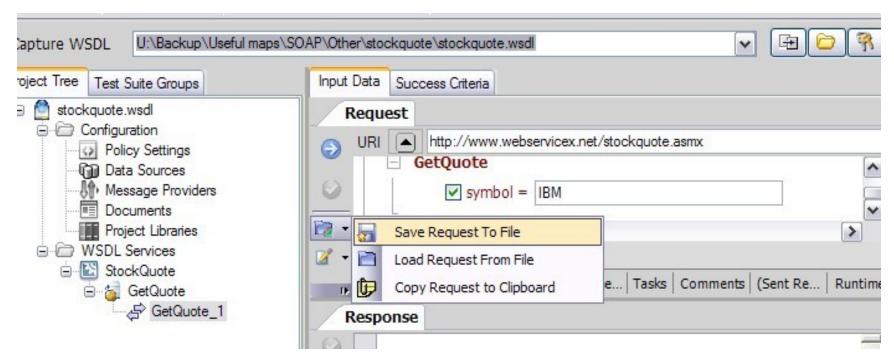
WebServiceX.net http://www.webservicex.net





WSDL

- Stock Quote Get Stock quote for a company symbol by using this web service
- WSDL Schema Location http://www.webservicex.net/stockquote.asmx?WSDL







WSDL continued

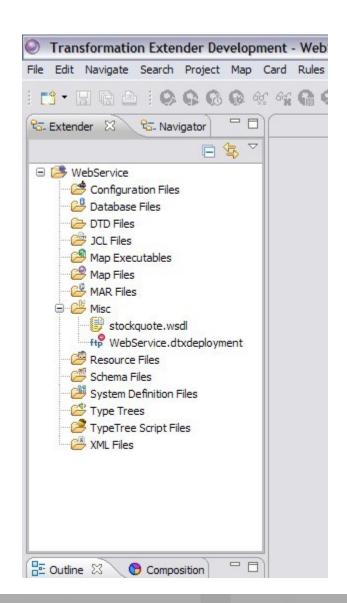






WSDL continued

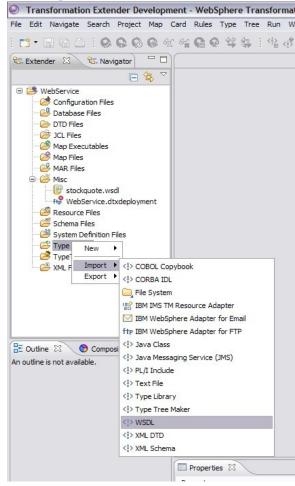
- Manually copy into workspace for WTX project
- WSDL appears under 'Misc' in the Extender Navigator

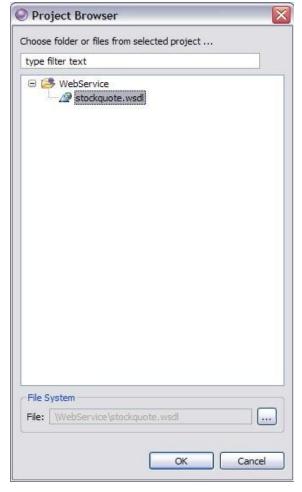






Import the WSDL into WTX











Import the WSDL into WTX continued

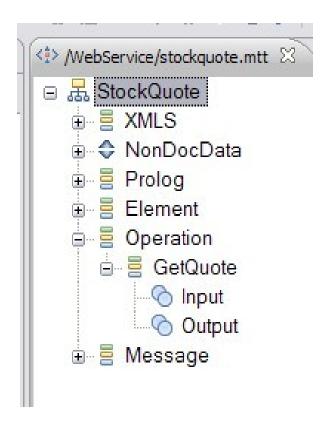








Typetree

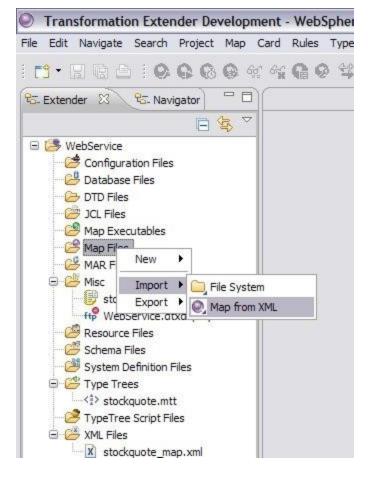


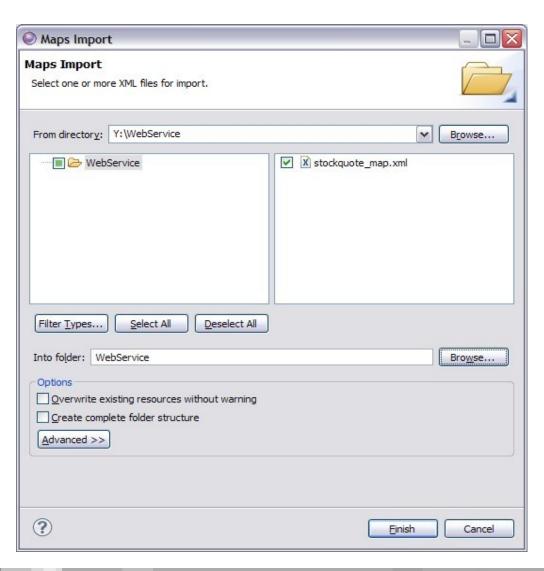
- Typetree objects mostly standard at the top level
- Root object is named after the WSDL
- All available operations should be listed under the category object 'Operation'.





Map

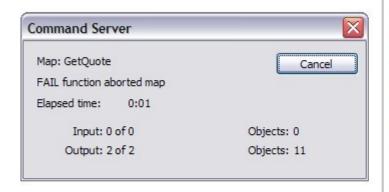


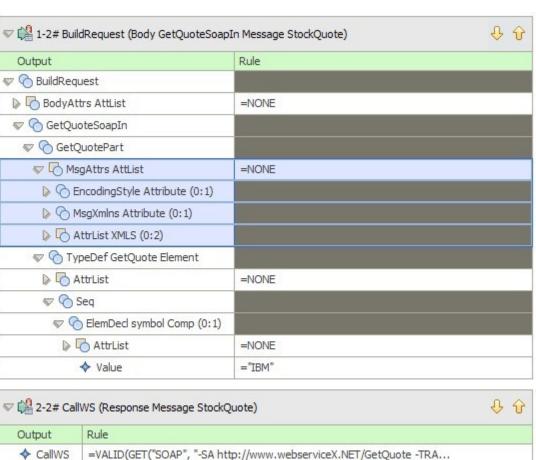






Adding the rules - Fail!

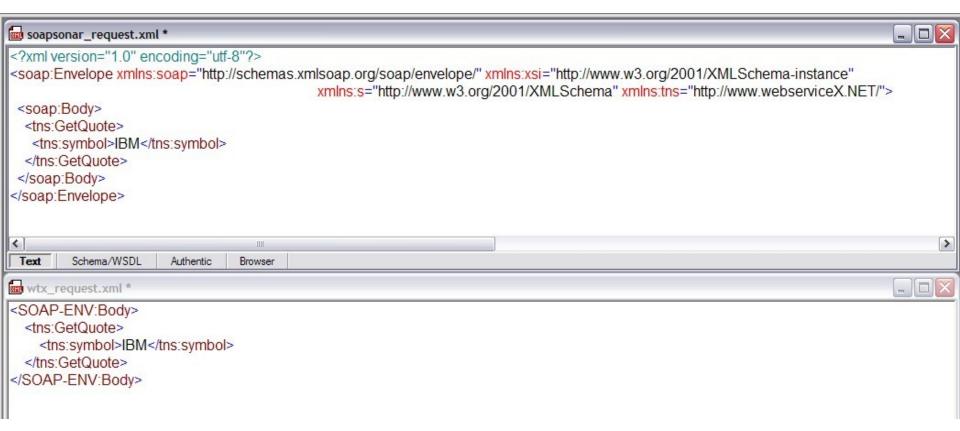








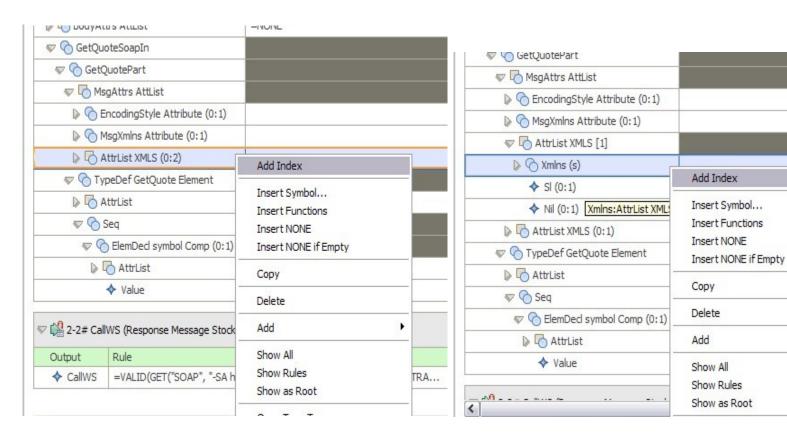
Adding the rules - Fail! continued







Adding more rules - Success!





ouoteSoapIn:B



Adding more rules - Success! continued

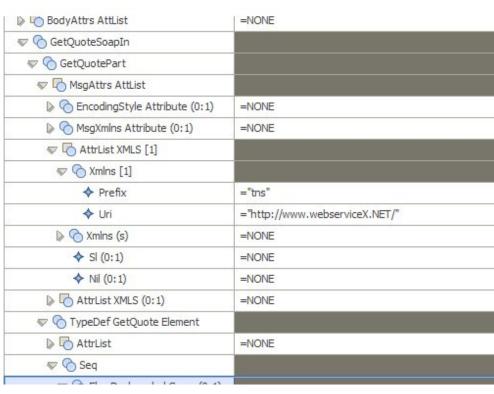
GetQuoterart	
EncodingStyle Attribute (0:1)	=NONE
MsgXmlns Attribute (0:1)	=NONE
▼ AttrList XMLS [1]	
▼	
♦ Prefix	="tns"
♦ Uri	="http://www.webserviceX.NET/"
	=NONE
♦ SI (0:1)	=NONE
♦ Nil (0:1)	=NONE
AttrList XMLS (0:1)	=NONE
▼	
AttrList	=NONE





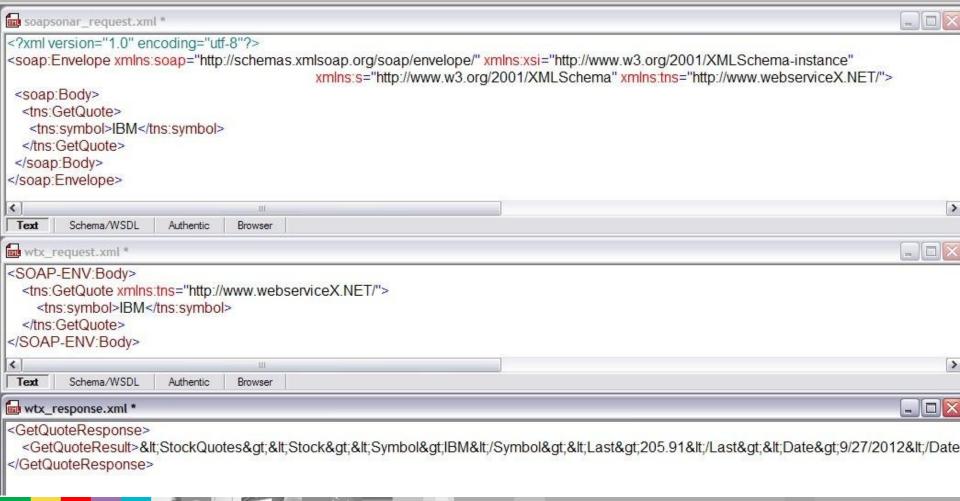
Adding more rules - Success! continued





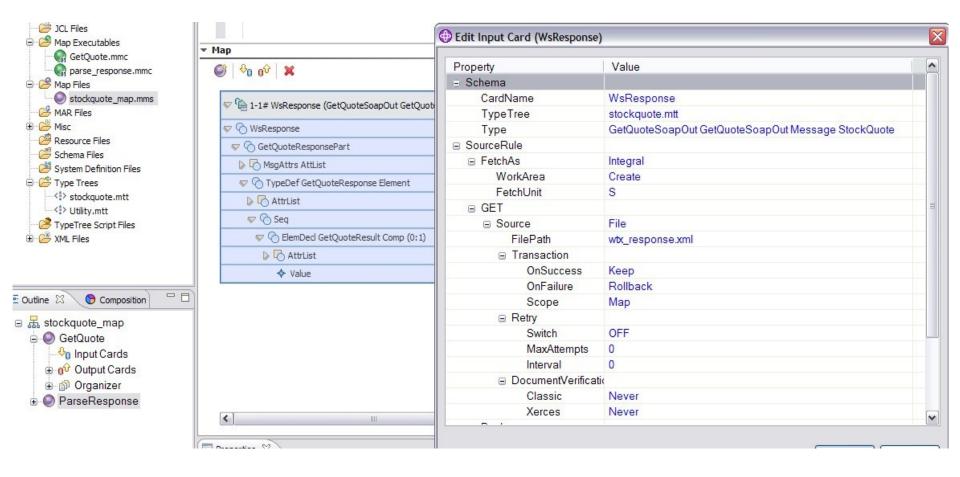


Adding more rules - Success! continued





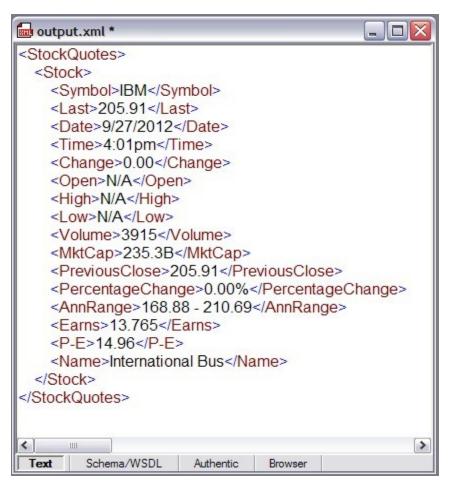
Further mapping possibilities





Further mapping possibilities continued

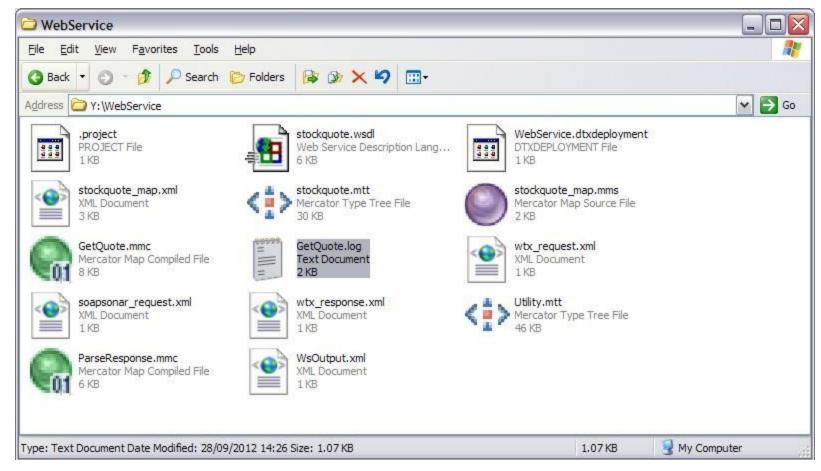
- In this case the output is also XML
- After extraction the output can be sent on to other maps via the RUN() function for further mapping or delivery to 3rd party systems using the WTX adapters.







Naming conventions and organisation







Summary

- Importing a WSDL does some of the work for you.
- 3rd party tools can help you identify missing elements from your WebService requests
- Additional maps can be made using the Typetree imported from the WSDL





Additional WebSphere Product Resources

- Learn about upcoming WebSphere Support Technical Exchange webcasts, and access previously recorded presentations at: http://www.ibm.com/software/websphere/support/supp_tech.html
- Discover the latest trends in WebSphere Technology and implementation, participate in technically-focused briefings, webcasts and podcasts at: http://www.ibm.com/developerworks/websphere/community/
- Join the Global WebSphere Community: http://www.websphereusergroup.org
- Access key product show-me demos and tutorials by visiting IBM® Education Assistant: http://www.ibm.com/software/info/education/assistant
- View a webcast replay with step-by-step instructions for using the Service Request (SR) tool for submitting problems electronically: http://www.ibm.com/software/websphere/support/d2w.html
- Sign up to receive weekly technical My Notifications emails: http://www.ibm.com/software/support/einfo.html





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Questions and Answers

