

Composer Web Service Block - WSDL SOAP XSD specification support

Spec:	WSSE	https://www.oasis-open.org/committees/download.php/16790/wss-v1.1-spec-os-SOAPMessageSecurity.pdf
	SOAP 1.1:	http://www.w3.org/TR/2000/NOTE-SOAP-20000508/
	WSDL 1.1:	http://www.w3.org/TR/wsdl
	SOAP Authenticaiton :	http://www.w3.org/TR/SOAP-dsig/

Terms Used:

NA	Not Applicable	No	Not Supported
Yes	Full support	Partial	Parially supported

Known Observations:

Composer Web Service Block generated SOAP messages does not have prefix in the SOAP elements.
Web Services created using Metro / JAX-WS framework may return Null Pointer Exception or Unexpected Result due to the prefix limitation.
Updating the JAX-WS API's / GlassFish server / Metro WS Framework to latest versions may help.

WSDL:

S.I No	Spec	Feature / Tag / Attribute Name	Design Time / Runtime	Java Support	.NET Support	Remarks / Comments
1	WSDL	<definition> tag	Design time	Yes	Yes	Referencing entities within the WSDL document using namespace
2	WSDL	definition: targetNamespace	Design time	Yes	Yes	
3	WSDL	<Import> tag	Design time	Yes	Yes	
4	WSDL	import -> namespace	Design time	Yes	Yes	
5	WSDL	import -> location	Design time	Yes	Yes	
6	WSDL	<message> tag	Design time	Yes	Yes	
7	WSDL	message -> name	Design time	Yes	Yes	
8	WSDL	<part> tag	Design time	Yes	Yes	
9	WSDL	<portType> tag	Design time	Yes	Yes	
10	WSDL	<Operation> tag	Design time	Yes	Yes	
11	WSDL	Operation -> parameterOrder	Design time	NA	NA	Composer uses Input / InputOutput message model, hence parameterOrder is ignored
12	WSDL	<input> tag	Design time	Yes	Yes	SOAP Fault Messages received will be assigned as it is and no parsing done on it Output Parameters configuration can be ignored for this case Input Part followed by Output Part Composer doesn't listen for EndPoint requests Composer doesn't listen for EndPoint requests
13	WSDL	<output> tag	Design time	Yes	Yes	
14	WSDL	<fault> tag	Design time	No	No	
15	WSDL	PortType: One Way Pattern	Design time	Yes	Yes	
16	WSDL	PortType: Request Response Pattern	Design time	Yes	Yes	
17	WSDL	PortType: Solicit-response Pattern	Design time	No	No	
18	WSDL	PortType: Notification Pattern	Design time	No	No	
19	WSDL	<SOAP:Binding>	Design time	Yes	Yes	
20	WSDL	<SOAP:Binding> -> transport	Design time	Yes	Yes	
21	WSDL	<SOAP:Binding> -> style	Design time	Partial	Partial	Only 'document' type is supported, RPC is not supported
22	WSDL	<SOAP:Operation>	Design time	Yes	Yes	
23	WSDL	<SOAP:Operation> -> SOAPAction	Design time and Runtime	Yes	Yes	Incase of Empty SOAPAction URL, Composer generates the value as ""

24	WSDL	<SOAP:Body>	Design time	Partial	Partial	Only 'literal' is supported, encoded is not supported
25	WSDL	<SOAP:Fault> tag	Design time	No	No	Composer doesn't parse SOAP Fault explicitly
26	WSDL	<SOAP:Header> tag	Design time	No	No	
27	WSDL	<SAOP:HeaderFault> tag	Design time	No	No	
28	WSDL	<SOAP:address>	Design time	No	No	
29	WSDL	MIME:Binding	Design time and Runtime	No	No	
30	WSDL	http:binding	Design time and Runtime	Yes	Yes	
31	WSDL	SOAP:Binding	Design time and Runtime	Yes	Yes	
32	WSDL	SOAP12:Binding	Design time and Runtime	No	No	

SOAP:

S.I No	Spec	Feature / Tag / Attribute Name	Design Time / Runtime	Java Support	.NET Support	Remarks / Comments
1	SOAP	SOAP in HTTP Request	Runtime	Yes	Yes	
2	SOAP	SOAPAction header	Runtime	Yes	Yes	
3	SOAP	SOAPHTTPBasicAuthentication	Runtime	Yes	Yes	
4	SOAP	SOAP BasicChallenge extension for Basic Authentication	Runtime	No	No	<h:BasicChallenge xmlns:h="http://soap-authentication.org/basic/2001/10/" SOAP-ENV:mustUnderstand="1"> <Realm>test@whitemesa.net</Realm></h:BasicChallenge>
5	SOAP	SOAP Digest Authentication	Runtime	No	No	
6	SOAP	SOAP Message level Basic Authentication	Runtime	Yes	Yes	<SOAP-ENV:Header> <h:BasicAuth xmlns:h="http://soap-authentication.org/basic/2001/10/" SOAP-mustUnderstand="1"> <Name>admin</Name> <Password>broccoli</Password></h:BasicAuth> </SOAP-ENV:Header>
7	SOAP/WSSE	SOAP Client Side Digital Signature Authentication	Runtime	Yes	Yes	
8	SOAP/WSSE	SOAP Mutual Digital Signature Authentication	Runtime	No	No	
9	SOAP/WSSE	WSSE UserName Token	Runtime	No	No	
10	SOAP/WSSE	TimeStamp	Runtime	No	No	
11	SOAP/WSSE	WSse Binary Token	Runtime	No	No	

XSD:

S.I No	Spec	Feature / Tag / Attribute Name	Design Time / Runtime	Java Support	.NET Support	Remarks / Comments
1	XSD	<schema>	Design time	Partial	Partial	Only one set of inline schemas supported
2	XSD	<element>	Design time and Runtime	Yes	Yes	
3	XSD	element -> name	Design time and Runtime	Yes	Yes	
4	XSD	element -> type	Design time and Runtime	Yes	Yes	
5	XSD	element -> type -> NS referenced	Design time and Runtime	Yes	Yes	<xs:element minOccurs="0" name="return" type="ax21:C2C_Response"/>
6	XSD	element -> type -> XSD Data Type	Design time and Runtime	Yes	Yes	<xs:element minOccurs="0" name="return" type="xs:string"/>
7	XSD	element -> minOccurs	Design time	No	No	
8	XSD	element -> maxoccurs	Design time	No	No	Composer will list only the name of the array type in the Input Parameters dialog. Users have to pre form the array data / JSON data using Assign Block expression builder
9	XSD	<sequence>	Design time and Runtime	Yes	Yes	
10	XSD	<complexType>	Design time and Runtime	Yes	Yes	
11	XSD	<annotation>	Design time and Runtime	No	No	
12	XSD	<restriction>	Design time and Runtime	No	No	
13	XSD	<pattern>	Design time and Runtime	No	No	
14	XSD	<simpleType>	Design time and Runtime	Yes	Yes	
15	XSD	<documentation>	Design time	No	No	
16	XSD	<all>	Design time and Runtime	No	No	
17	XSD	<notation>	Design time and Runtime	No	No	
18	XSD	<attribute>	Design time and Runtime	Yes	Yes	
19	XSD	<choice>	Design time and Runtime	No	No	
20	XSD	schema -> elementFormDefault	Design time and Runtime	Yes	Yes	
21	XSD	schema -> attributeFormDefault	Design time and Runtime	No	No	
22	XSD	schema -> targetNamespace	Design time and Runtime	Yes	Yes	
23	XSD	schema -> blockDefault	Design time and Runtime	No	No	
24	XSD	schema -> finalDefault	Design time and Runtime	No	No	

25	XSD	extension	Design time and Runtime	Yes	Yes	
26	XSD	attribute -> arrayType	Design time and Runtime	Yes	Yes	Composer will list only the name of the array type in the Input Parameters dialog. Users have to pre form the array data / JSON data using Assign Block expression builder