

Oracle Service Architecture Leveraging Tuxedo

Interoperability Guide

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Oracle Service Architecture Leveraging Tuxedo Interoperability

This chapter discusses the following topics:

- [Web Service Client Interoperability](#)
- [Web Service Server Interoperability](#)
- [WS-TX Interoperability](#)
- [SAML Interoperability](#)

Web Service Client Interoperability

SALT supports most Web service client programs accessing inbound Oracle Tuxedo services.

The SALT WSDL generator ([tmwsdlgen](#)) generates WSDL 1.1 specification compliant WSDL documents that can be published to most standard UDDI servers.

[Table 1](#) lists certified Web service client toolkits that are interoperable with SALT.

Table 1 Certified Interoperable Web Service Client Toolkits

	WebLogic Server		Axis for Java	.Net 3.5	ALSB 3.0	Oracle BPEL
	9.2	10.3	2.0			10.1.3.1.0
SOAP 1.1 RPC/encoded	Yes	Yes	N/A	N/A	Yes	Yes
SOAP 1.1 document/literal	Yes	Yes	Yes	Yes	Yes	Yes
SOAP 1.2 RPC/encoded	N/A	N/A	N/A	N/A	N/A	N/A
SOAP 1.2 document/literal	N/A	Yes	Yes	Yes	Yes	N/A

Web Service Server Interoperability

SALT supports most external Web service applications that are described using WSDL 1.1 standard documents with the exceptions listed in [Table 2](#).

Table 2 Non-Supported Web Service Descriptions by SALT

WSDL Description	Explanation
RPC/literal message style	GWWS servers support only RPC/encoded and document/literal SOAP message style for outbound services. If RPC/literal message style is defined in the external WSDL file, the converted non-native WSDL file cannot be accepted by SALT configuration compiler.
<wsdl:import>	SALT WSDL converter cannot recursively retrieve the nesting WSDL document defined using <wsdl:import>.

Table 2 Non-Supported Web Service Descriptions by SALT

WSDL Description	Explanation
HTTP binding	<p>WSDL 1.1 specification defines <i>HTTP GET & POST binding</i> besides <i>SOAP binding</i>. <i>HTTP GET & POST binding</i> describes the interaction between a Web browser and a Web server using simple HTTP protocols.</p> <p>Although the GWWS server supports HTTP transport, only SOAP protocol compliant XML messages are supported on the wire. If a WSDL document contains a <i>HTTP GET & POST binding</i>, this binding is ignored by the SALT WSDL converter.</p>
WS-Policy Attachment	<p>The SALT WSDL converter does not support WS-Policy attachments defined in the WSDL document. If WS-Policy attachments are defined in the WSDL document, policy information is ignored by the SALT WSDL converter.</p>
MIME binding	<p>SALT WSDL converter does not support any message-level MIME format association.</p>
SOAP header and headerfault messages	<p>SALT WSDL converter does not support <soap:header> and <soap:headerfault> descriptions in the WSDL 1.1 document. All <soap:header> and <soap:headerfault> messages defined for the wsdl operation are ignored by SALT WSDL converter.</p>
More than one SOAP Fault message	<p>SALT WSDL converter does not support more than one fault message to be defined for a WSDL operation.</p>

Table 3 lists certified Web service servers that are interoperable with SALT.

Table 3 Certified Interoperable Web Service Server Toolkits

	WebLogic Server		Axis for Java	.Net 3.5	ALSB 3.0	Oracle BPEL
	9.2	10.3	2.0			10.1.3.1.0
SOAP 1.1 RPC/encoded	Yes	Yes	N/A	N/A	Yes	Yes
SOAP 1.1 document/literal	Yes	Yes	Yes	Yes	Yes	Yes

Table 3 Certified Interoperable Web Service Server Toolkits

	WebLogic Server		Axis for Java 2.0	.Net 3.5	ALSB 3.0	Oracle BPEL 10.1.3.1.0
	9.2	10.3				
SOAP 1.2 RPC/encoded	N/A	N/A	N/A	N/A	N/A	N/A
SOAP 1.2 document/literal	N/A	Yes	Yes	Yes	Yes	N/A

WS-TX Interoperability

SALT supports most external Web service applications that are described using WS-TX standard documents as listed in [Table 4](#).

Table 4 WS-TX Standards Interoperability

	WebLogic Server 10.3.3	.Net 3.5
Client interoperability WS-COOR 1.0 and WS-AT 1.0	Yes	Yes
Server interoperability WS-COOR 1.0 and WS-AT 1.0	Yes	Yes

SAML Interoperability

[Table 5](#) lists the SALT supported SAML standards and application server.

Table 5 SAML Standards and Application Server

WS-Security Policy	Application Server
SAML 1.1 with Asymmetric binding <ul style="list-style-type: none"> • InitiatorToken Always or AlwaysToRecipient • RecipientToken Never Signed Supporting Token SAML v 1.1	WebLogic Server 10.3.5
SAML 2.0 with Asymmetric binding <ul style="list-style-type: none"> • InitiatorToken Always or AlwaysToRecipient • RecipientToken Never Signed Supporting Token SAML v 2.0	WebLogic Server 10.3.5

See Also

- [Oracle Service Architecture Leveraging Tuxedo Administration Guide](#)

