

StackComparison

General Features

Feature	Axis 1.x	Ax is2	C X F	Gl ue	JBos sWS	XFire (1.2)	Metro@Gla ssFish	OracleA S 10g		
Basic Profile 1.1 Compliant	X	X	X	X	X	X	X	X		
Easily Create Services from POJOs	X	X	X	X	X	X	X	X		
Open Source	X	X	X		X	X	X			
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="9905e277-bf93-49cb-899b-8bf5c16014ca"><ac:plain-text-body><![CDATA[	RPC- Encoding	X			X	X		X [6]	X	]]></ac:plain-text-body></ac: structured-macro>
Spring Support	X	X	X			X	X			
REST Support		X	X				X	X		
IDEA Plugins		X			X	X	X	Ant		
Eclipse Plugins		X	X		X	X	X	Ant		
NetBeans Plugins							X	Ant		
JDeveloper								X		
Hot Deployment		X	X		X	?	X	X		
Soap 1.1	X	X	X	X	X	X	X	X		
Soap 1.2	X	X	X	X	X	X	X	X		
Streaming XML (StAX based)		X	X			X	X			
WSDL 1.1 ->Code (Client)	X	X	X	X	X	X	X	X		
WSDL 1.1 ->Code (Server)	X	X	X	X	X	X	X	X		
WSDL 2.0 ->Code (Client)		X	?	?	?			?		
WSDL2.0 ->Code (Server)		X	?	?	?			?		
Client-side Asynchrony	X	X	X				X	With BPEL		
Server-side Asynchrony	X	X	X				X	With BPEL		
Policy-driven code generation		X	X							

Web Services related JSR standards

Feature	Axis 1.x	Ax is2	• C X F*	Gl ue	JBos sWS	XFire (1.2)	Metro@Gla ssFish	OracleA S 10g		
JAX-RPC	X			X ?	X		X	X		
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="ff74a0db-d8d8-49d9-b856-07abd4ff5384"><ac:plain-text-body><![CDATA[	JAX- WS		X [13]	X			[Early Access]	X [5]		]]></ac:plain-text-body></ac: structured-macro>
JAX-RS			X							
JSR 181	X	X	X		X	X	X	X		
JSR 181 on Java 1.4					X	X				
SAAJ (1.2/1.3)	X	X	X		X	X	X	X		
JSR 109							X	X		
JB1			X				X			

Data Bindings

Feature	Axis 1.x	Ax is2	C X F	Gl ue	JBos sWS	XFire	Metro@Gla ssFish	OracleA S 10g		
XMLBeans Support	X	X	X			X				
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="4c5db0c3-4b25-48cb-9147-fe06412fd12a"><ac:plain-text-body><![CDATA[	Castor Support	X	X [9]				X			]]></ac:plain-text-body></ac: structured-macro>
JiBX		X	X			X				
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="97addfd2-1d6b-40ed-9130-52815cd1dcff"><ac:plain-text-body><![CDATA[	JAXB	X	X	X		X	X	X [5]	JAX- RPC	]]></ac:plain-text-body></ac: structured-macro>
SDO			X							

WS-*

Feature	Axis 1.x	Ax is2	CX F	Gl ue	JBos sWS	XFire	Metro@Gl assFish	OracleA S 10g
WS-Addressing	X		X	X	X	X	X	with BPEL

WS-Atomic Transaction	X	X				X		
WS-Business Activity		X						
WS-Coordination	X	X				X		
WS-Eventing		X		X				
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="80e63246-114a-4014-bdc6-5d815db528b5"><ac:plain-text-body><![CDATA[	WS-Metadata Exchange	X	X [10]	X			X	]]></ac:plain-text-body></ac:structured-macro>
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="e1c3f74b-34a1-48c6-abb6-880b718ea9a0"><ac:plain-text-body><![CDATA[	WS-Notification	X	X [12]	X	?		?	]]></ac:plain-text-body></ac:structured-macro>
WS-ReliableMessaging	X	X	X			X		
WS-Policy		X	X			X	X	
WS-Secure Conversation		X	X			X		
WS-Security Policy		X	X			X		
WS-Security	X	X	X	X	X	X	X	X
WS-Trust		X	X			X		
WS-Transfer		X						
WSDL 1.1 Support	X	X	X	X	X	X	X	X
WSDL 2.0 Support		X						

Transports

Feature	Axis 1.x	Axis2	CXF	Glue	JBossWS	XFire	Metro@GlassFish	OracleAS 10g	
HTTP	X	X	X	X	X	X	X	X	
JMS	X	X	X	X	X	X	X	X	
SOAP/JMS Spec			X						
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="0170b306-3201-43e4-a5aa-423bcb027670"><ac:plain-text-body><![CDATA[	Jabber	Experimental	X	X [15]			X		]]></ac:plain-text-body></ac:structured-macro>
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="0d40ac3-c236-40ca-8889-a4ff0f311a26"><ac:plain-text-body><![CDATA[	SMTP/POP3	X	X	X [15]				X	]]></ac:plain-text-body></ac:structured-macro>
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="06130041-1773-4ced-af5c-28cb08f6ae69"><ac:plain-text-body><![CDATA[	TCP	X	X	X [15]				X	]]></ac:plain-text-body></ac:structured-macro>
In-VM	?	X	X	?	?	?	X	?	
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="d424d8a3-cc8-40bf-b1cb-a4a51500c8e4"><ac:plain-text-body><![CDATA[	SMS		X	X [15]					]]></ac:plain-text-body></ac:structured-macro>
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="1cf226c9-0764-4b86-99f8-a26e9eaf7743"><ac:plain-text-body><![CDATA[	UDP		X	X [15]					]]></ac:plain-text-body></ac:structured-macro>

Attachments

Feature	Axis 1.x	Axis 2	CXF	Glue	JBossWS	XFire	Metro@GlassFish	OracleAS 10g
Soap w/ Attachments	X	X	X	X	X		X	X
DIME	X			X				X
MTOM		X	X		X	X	X	X

Encoding Table

Feature	Axis 1.x	Axis 2	CXF	Glue	JBossWS	XFire	Metro@GlassFish	OracleAS
XML Textual	X	X	X	X	X	X		X
MTOM		X	X		X	X		X
FastInfoset		X	X			X		
JSON		X	X			X		

WS-Addressing Versions

This section is incomplete. If a stack has no WS-A support listed next to it, it probably means that this section has not been filled in for it.

Feature	Axis 1.x	Axis 2	CXF	Glue	JBossWS	XFire	Metro@GlassFish	OracleAS 10g
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2003-03			?					
2004-04			?					
2004-08	X	X	X			X	X	X
2005-08	X	X	X			X	X	X
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="eaf47c1e-4888-46df-b0da-019c42b69fca"><ac:plain-text-body><![CDATA[	2006-05 [8]	X	X	X				X
]]></ac:plain-text-body></ac:structured-macro>								

There are only non-normative interop tests for the 2005-08/2006-05 versions and not very many of those. The only way to achieve 100% interoperability is not to use WS-A at all. If you must use it, use only a URI and not Reference Properties or Reference Parameters, which are not easily converted from version to version, if they can be translated at all.

Notes

- #1 Bootstrapped this page from [XFire Stack Comparion page](#) on Oct 9, 2006.
- #2 Removed forward looking statements like "Coming in ..."
- #3 Removed JBI JSR as none of the soap stacks here are packaged out of the box with a JBI container.
- #4 Replaced "Via..." with "?"
- #5 JAX-RPC 1.1, JAX-WS 2.0 and JAX-WS 2.1 RI are combined together in Metro. Similarly JAXB 2.0 and JAXB 2.1 are combined together in Metro. JAX-WS 2.0 and JAXB 2.0 functionality is available in Java SE 6 as well.
- #6 Only available through the JAX-RPC 1.1 APIs.
- #7 Derived from [ws Addressing review](#)
- #8 WSA 1.0 final: shares the same xmlns as the 2005-08 release.
- #9 samples\databinding illustrates how to use castor with "wsdl2java -d none" generated code.
- #10 Mex Module for Axis2 is available [here](#)
- #11 Transfer Module for Axis2 is available [here](#)
- #12 Apache Muse project has support for WS-Notifications
- #13 Not JAX-WS TCK compliant due to lack of JAX-WS tooling
- #14 Part of [ServiceMix](#)
- #15 By using the Camel transport for CXF (<http://camel.apache.org/camel-transport-for-cxf.html>), CXF supports a very wide range of connection possibilities. See <http://camel.apache.org/components.html>