Web Services

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> **Note:**
>
> Synapse, TSIK, Tuscany and Woden efforts are currently undergoing [incubation](#) at the [Apache Software Foundation](#) (ASF), sponsored by the ASF's WebServices Project. Incubation is required of all newly accepted projects until a further review indicates that the infrastructure, communications, and decision making process have stabilized in a manner consistent with other successful ASF projects. While incubation status is not necessarily a reflection of the completeness or stability of the code, it does indicate that the project has yet to be fully endorsed by the ASF.

1.1.2. Downloads

Downloads are available at http://www.apache.org/dyn/closer.cgi/ws/.

1.1.3. Members

- David Chappell
- Glen Daniels
- Jaliya Ekanayake
- Anthony Elder
- Ryan Hoegg
- Jeremy Hughes
- Tom Jordahl
- Susantha Kumara
- Changshin Lee, aka "Ias"
- Ted Leung
- Steve Loughran
- Julie MacNaught
- Axl Mattheus
- Sam Meder
- Nirmal Mukhi
- Srinath Perera
- Daniel Rall
- Scott Nichol
- Sam Ruby
- Anil Saldana
- Aleksander Slominski
- James Snell
- Ian Springer
- [Davanum Srinivas](#) (Current Chair)
- Steve Viens
- Sanjiva Weerawarana
- Jochen Wiedmann

If you need to contact the members, please email *pmc @ ws dot apache dot org*

1.1.4. Wiki

The [Web Services Wiki](#) can be used for posting thoughts, proposals etc...

1.1.5. IRC

Pick any [freenode.org server](#) and join channel [#apache-ws](#) for discussions.

1.1.6. Blog

The Web Services project has a [blog](#) with an RSS feed.

1.2. News

1.2.1. JaxMe 0.5.1 Released

6th January 2006 - [JaxMe](#) 0.5.1 release. This is a bug fix release. Preliminary support for external schema binding files has been added as a new feature.

1.2.2. Apache XML-RPC 2.0.1 Released

28th December 2005 - [Apache XML-RPC](#) 2.0.1 release. This is a bug fix release, eliminating several minor problems, which have been found since the release of 2.0.

1.2.3. JaxMe 0.5 Released

9th August 2005 - [JaxMe](#) 0.5 final release. Compared to the beta release, several important bugs have been fixed.

1.2.4. JaxMe 0.5beta Released

14th July 2005 - [JaxMe](#) 0.5beta release. Introduces support for mixed content and mapping of xs:extension to Java inheritance.

1.2.5. JaxMe 0.4beta Released

13th April 2005 - [JaxMe](#) 0.4beta release. This release is a major step forward, as it is the first version supporting nested groups, at least of multiplicity <= 1. In particular, xs:extension is now supported.

1.2.6. JaxMe 0.3.1 Released

3rd September 2004 - [JaxMe](#) 0.3.1 release. Bug fix release, plus an important feature: Recursive schemas are now being supported.

1.2.7. Announcements List Relaunch

29th July 2004 - It has been a well kept secret that the WebServices project has an announcements list but now the secret is out! If you want to keep in touch with important events (such as releases) in the world of WebServices here at Apache then subscribe to the list [here](#)

1.2.8. JaxMe 0.3 Released

26th July 2004 - JaxMe 0.3 release. Includes numerous small bug fixes and enhancements.

1.2.9. JaxMe has now graduated to a subproject of Apache WS

09th March 2004 - The Apache Incubator PMC has voted for JaxMe to become a subproject of the Apache Webservices. Welcome to the show. :-)

1.2.10. Updated website with WSS4J, Addressing, Sandesha

19th February 2004 - See Addressing, Sandesha (Under Incubation), WSS4J

1.2.11. First public snapshot of JaxMe available

20th November 2003 - The first public snapshot of JaxMe is now available. Details at the Jaxme Website.

1.2.12. Updated website with JaxMe project

23rd September 2003 - Added mailing list and web site for JaxMe. Details at JaxMe Website.

1.2.13. Updated website with WSRP4J project

14st September 2003 - Added mailing list and web site for wsrp4j. Details at WSRP4J Website.

1.2.14. New Address of CVS Repositories

11st September 2003 - The Address of CVS Repositories are in the height of the house-moving. Details at CVS Repositories.

1.2.15. Apache Axis 1.1

16th June 2003 - The Apache Axis 1.1 is now available. Details at Apache Axis Website.

1.2.16. Apache Axis 1.1RC1

9th February 2003 - The Apache Axis 1.1 Release Candidate #1 is now available. Details at Apache Axis Website.

1.2.17. Apache WSIF 1.0

27th January 2003 - The Apache WSIF 1.0 release is now available. Details at [Apache WSIF Website](#).

1.3. Todo List

1.3.1. high

- **[docs]** setup pmc and general mailing lists # rubys

2. Information

2.1. The Apache Web Services Project - Information

2.1.1. Downloads

[Downloads](#)

2.1.2. Get Involved

[Get Involved](#)

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2.1.7. Contact Info

Contact Info

2.2. Get Involved!

Every volunteer project obtains its strength from the people involved in it. We invite you to participate as much or as little as you choose. The roles and responsibilities that people can assume in the project are based on merit. Everybody's input matters!

There are a variety of ways to participate. Regardless of how you choose to participate, we suggest you join some or all of our mailing lists.

2.2.1. Use the Products and Give Us Feedback

Using the products,reporting bugs, making feature requests, etc. is by far the most important role. It's your feedback that allows the technology to evolve.

- Mailing Lists
- Download (mirror)
- Download (archive.apache.org)
- Report bugs/Request additional features

2.2.2. Contribute Code or Documentation Patches

In this role, you participate in the actual development of the code. If this is the type of role you'd like to play, here are some steps (in addition to the ones above) to get you started:

- Review Reference Library
- Access the source code

2.3. Source code

2.3.1. Web Access to the Repository

You can browse the ws.apache.org workspaces via the web.

- Addressing
- Axis 1.X
- Axis 2.X
- WS-Commons
- EWS
- JaxMe
- jUDDI
- Kandula

- [Mirae](#)
- [Muse](#)
- [Pubscribe](#)
- [Sandesha](#)
- [Scout](#)
- [SOAP](#)
- [TSIK](#)
- [Tuscany](#)
- [Woden](#)
- [WSIF](#)
- [WSRF](#)
- [WSS4J](#)
- [XMLRPC](#)

2.3.2. Download the Source

Most users of the source code probably don't need to have day to day access to the source code as it changes. For these users we provide easy to unpack source code downloads via our download pages.

2.3.3. Access the Source Tree

So, you've decided that you need access to the source tree to see the latest and greatest code. There's two different forms of CVS access. The first is anonymous and anybody can use it. The second is not and you must have a login to the development server. If you don't know what this means, join the mailing list and find out.

2.3.3.1. SVN projects

New projects are now in the apache svn. To checkout the code use following commands(if you are using a GUI SVN client, configure it appropriately):

```
svn co https://svn.apache.org/repos/asf/webservices/[module-name]
```

Modules available for access are:

- addressing
- axis
- axis2
- commons
- ews
- jaxme

- juddi
- kandula
- mirae
- muse
- pubscribe
- sandesha
- scout
- site
- soap
- wsif
- wsrf
- wss4j
- xmlrpc

New projects (via incubator) are available from

```
svn co https://svn.apache.org/repos/asf/incubator/[module-name]
```

Modules available for access are:

- synapse
- tsik
- tuscany
- woden

2.4. Bug Tracker

2.4.1. Report bugs for projects

Create/Modify/Search bugs in our jira bug tracker.

- [Addressing](#)
- [Axis 1.X (Java)](#)
- [Axis 2.X (Java)](#)
- [Axis 1.X (C++)](#)
- [EWS](#)
- [JaxMe](#)
- [jUDDI](#)
- [Kandula](#)
- [Mirae](#)
- [Muse](#)
- [Pubscribe](#)

- [Sandesha](#)
- [Scout](#)
- [SOAP](#)
- [Woden](#)
- [WSIF](#)
- [WSRF](#)
- [WSS4J](#)
- [XMLRPC](#)

2.5. Mailing Lists

Every volunteer project obtains its strength from the people involved in it. Mailing lists provide a simple and effective communication mechanism.

You are welcome to join any of these mailing lists (or all of them if you wish). You can choose to lurk, or actively participate. It's up to you. Before you join these lists, you should look over the resources in the Reference Library section. As with any mailing list, you should probably read any FAQ postings or simply read a sampling of postings on the list before posting your first question.

2.5.1. Usage Notes

Archives are generally named after the project they're about (duh!) with a suffix that denotes the subjects covered. Common suffixes are:
`*-dev` Developer list - for technical questions about the product, code patches, bug submissions about advanced functionality, etc.
`*-user, *-users` Users list - for general usage questions about the product from an end-users perspective
`*-cvs, *-svn` Commits list - this is a read-only list that sends out email with details of all commits to that project's CVS or SVN repository

The ezmlm mailing list controller accepts commands by sending emails to `listname-command`, generally like the following:
`*-subscribe` Subscribe your current email address to the list
`*-unsubscribe` Unsubscribe your *current* email address from the list
`*-help` get Help on mailing list commands

2.5.2. Public archives

Archives of many of the most popular ws.apache.org mailing lists are kept at http://marc.theaimsgroup.com/, which are organized by month and include search features

for both subjects and message text. Many lists are also archived by other large mailing list archive sites as well.

All the mailing lists are also archived at:

- http://mail-archives.apache.org/
- http://ws.apache.org/mail/

2.5.3. Common mailing lists

List	Subscribe	Unsubscribe	Archive	Description
announce	subscribe	unsubscribe	MBox	For announcements
general	subscribe	unsubscribe	MBox	For issues that span across all ws.apache.org projects
pmc				Private list for contacting the pmc members

2.5.4. Project specific lists

List	Subscribe	Unsubscribe	Archive	Description
addressing-dev	subscribe	unsubscribe	MBox	For Addressing development discussions
axis-c-dev	subscribe	unsubscribe	MBox	For Axis C++ development discussions
axis-c-user	subscribe	unsubscribe	MBox	For Axis C++ user discusssions
axis-cvs	subscribe	unsubscribe	MBox	For Axis C++/Java commits
axis-dev	subscribe	unsubscribe	MBox	For Axis Java development discussions
axis-tck				For Axis Java - TCK related

				private discussions
[axis-user](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For Axis Java user discussions
[axis-user-ja](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For Axis Java user discussions (Japanese)
[ews-dev](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For EWS development discussions
[jaxme-dev](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For JaxMe development discussions
[juddi-cvs](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For jUDDI commits
[juddi-dev](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For jUDDI development discussions
[juddi-user](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For jUDDI user discussions
[kandula-dev](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For Kandula development discussions
[mirae-dev](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For Mirae development discussions
[mirae-user](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For Mirae user discussions
[muse-commits](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For Muse commits
[muse-dev](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For Muse development discussions
[muse-user](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For Muse user discussions
[pubscribe-commits](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For Pubscribe

				commits
[pubscribe-dev](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For Pubscribe development discussions
[pubscribe-user](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For Pubscribe user discussions
[sandesha-dev](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For Sandesha development discussions
[scout-dev](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For Scout development discussions
[soap-dev](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For SOAP development discussions
[soap-user](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For SOAP user discussions
[tsik-dev](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For TSIK development discussions
[woden-dev](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For Woden development discussions
[wsif-dev](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For WSIF development discussions
[wsif-user](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For WSIF user discussions
[wsrf-commits](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For WSRF commits
[wsrf-dev](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For WSRF development discussions
[wsrf-user](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For WSRF user discussions
[wss4j-dev](#)	[subscribe](#)	[unsubscribe](#)	[MBox](#)	For WSS4J

				development discussions
xmlrpc-dev	subscribe	unsubscribe	MBox	For XMLRPC development discussions
xmlrpc-user	subscribe	unsubscribe	MBox	For XMLRPC user discussions

2.6. Reference Library

2.6.1. Reference Library

The *ws.apache.org* project lives or fails based on its human resources. Users and contributors alike help the project with ideas and brainpower. A common foundation of knowledge is required to effectively participate in this virtual community. The following is a list of documents that we have found helpful for us and may be helpful to you:

2.6.2. Technical Resources

These resources are required reading for anybody contributing source code to the project.

- The Java Language Specification
  Written by the creators of the Java Programming Language, this online book is considered by many to be the bible for programming in Java. A must read.
- Javadoc
  Javadoc is the automatic software documentation generator used by Java since it was first released. All Java code written for this project must be documented using Javadoc conventions.
- Introduction to CVS
  Written by Jim Blandy, this brief introduction gives a first look into CVS. If you have never used CVS before, you'll want to start here.
- Version Management with CVS
  Written by Per Cederqvist at al, this is the main manual for CVS. It provides details on all documented CVS features.

2.6.3. Source Code Philosophy Resources

The following are a set of articles written about the recent source code movements that help illustrate some of the attributes of a collaborative project such as this. You may not agree with all of the points of these articles, but an understanding of them will help in

communicating with everyone on the project.

- [The Cathedral and the Bazaar](#)
  Written by Eric S. Raymond, this is a must read for anyone willing to join or support a volunteer project.
- [Homesteading the Noosphere](#)
  Written by Eric S. Raymond, this is a sequel to "The Cathedral and the Bazaar". It details the property and ownership customs of the open-source culture. This analysis has larg implications for anyone interested in organizing large-scale intellectual collaborations such as this project.

2.6.4. Web Services Resources

A wide variety of Web Services oriented resources are out on the net today. Just a few that we have found useful include:

- [Google Web Services Directory](#)
- [W3C - Web Services activity](#)
- [WS-I](#)
- [Java Technology and Web Services](#)
- [WebServices.org](#)

2.7. Legal Stuff

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For details look at the file: [License.txt](#).

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2.8. How To Build Web Services Project's Website

2.8.1. Installing Forrest

The Web Services website build system requires two components to perform a build. [Ant](#) and

[forrest](#).

Specifically the build has been tested to work with Ant version 1.6.X and Forrest 0.7. To install these products download the distributions and follow the instructions in their documentation. Make sure you don't forget to set the environment variables FORREST_HOME and ANT_HOME. The ANT_HOME/bin directory should be in the path.

2.8.2. Checking out ws-site module

Check out

ws-site

module via your favorite CVS tools. Please follow the guildeline written [here](#).

2.8.3. Running the Build

The main targets of interest to our users are:

Target	Description
clean	Erase all build work products (ie, everything in the build directory
site	Build site
replace	Build site and copy to ./targets directory
run-forrest (default)	Do clean up and build Site

2.8.4. For Committers

The procedure to make changes to http://ws.apache.org/ ...
* *cd* into the local "ws-site" CVS dir
* execute "ant"
* execute "ant replace"
* cvs commit
* (If you are in a hurry) ssh to www.apache.org, *cd* to /www/ws.apache.org, and execute "cvs update -P"

2.8.5. TIPS

You can check whether ws-site will be successfully built or not by following these procedures.

- cd into the local "ws-site" CVS dir
- execute "forrest run"
- point the browser to http://localhost:8888/ to see the site
- edit the docs *in place* (build/webapp/content/xdocs/...) and see changes via the browser by reloading the page

2.8.6. F.A.Q.

Q1.
I encountered
The <xmlcatalog> data type doesn't support the nested "catalogpath" element.
error, during the build.

A1.
Please make sure that your Ant version is later than 1.6 alpha. You can check the Ant version, by running "ant -version".

Q2.
I see an error like this regarding mirrors.pdf
[java] X [0] mirrors.pdf BROKEN ....

A2.
This is a known issue, but does not affect the site itself.

Q3.
The run-forrest target does not complete because of the mirrors.pdf error, so i can't update the site

A3.
There is another target named 'replace' that does the appropriate work

(more to be come)

2.9. Contact Information

2.9.1. Contact Information

If you have questions or comments about this site, please send email to:
webmaster@ws.apache.org

The ws.apache.org project is an effort of the Apache Software Foundation. The address for general ASF correspondence and licensing questions is: apache@apache.org You can find more contact information for the Apache Software Foundation on the contact page of the

[Apache Software Foundation](#).

3. Projects

4. WholeSite