



The JSF Tools Project – 0.5 Release review

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Review Topics



- Overview
- Features
- Standards
- Communities
- Schedule
- Release Readiness
- API Overview
- IP Review
- Future Release plans
- Feedback

The JSF Tools Project



- Provide comprehensive support to the Eclipse Web Tools Project to simplify development and deployment of JavaServer Faces (JSF) applications
- Incubating under the Web Tools Platform project
- Release review for pre-1.0 technology release planned to be shipped with the WTP 1.5 release
- Project requires Eclipse 3.2 and WTP 1.5 release
- Project will be made available from the WTP download site and Update manager (separate from WTP 1.5 release)
- Key Code Contributions
 - Sybase – Faces Configuration Editor
 - IBM – EMF Model of the Faces Configuration resource
- Project home page: <http://www.eclipse.org/webtools/jsf/>

Features

- Faces Config Editor
- Enhanced JSF-JSP Source Editor
- JSF Library Registry
- Extensible framework



JSF Tools Features



- Faces Config Editor Features
 - Code Contribution from Sybase Inc.
 - Multi-page Editor
 - Overview page
 - Summary of elements in the configuration file
 - Navigation page
 - graphical diagram editor for navigational rules
 - Managed bean page
 - Form-based editor, Wizards
 - Component Page
 - Source Page
 - EMF model of the application configuration resource files
 - Programmatic access

JSF Tools Features



- JSF-JSP page Source Editor Features
 - Support for standard JSF Tag libraries
 - Content assist for values of tag attributes
 - Validation of values of tag attributes
 - JSF 1.1 EL validation
 - Basic Syntax Validation (Empty, incorrect)
 - Content assist for existing variable, property (managed bean, resource bundle)
 - Semantic validation
 - Enabled by Extensible Meta-data framework
 - Enable Content assist and Validation for other component libraries (Tomahawk)
 - Enables addition of new features (QuickFix, HyperLink)
 - Enhance the existing features (improved validations)
 - Pluggable design-time variable, property resolvers

JSF Tools Features



- JSF Library registry
 - define a named collection of JARs including tag libraries, JSF reference implementations and utility jars.
 - add, remove libraries associated with a project
 - Automate build classpath settings and deployment
 - Extension point for component developers to contribute their libraries

Extensible Framework



- Content Model Annotation Framework
 - Define additional meta-data for elements and attributes on any xml-based content model for use at design time.
- Design-time Meta-data Processing Framework
 - Uses the annotations framework to provide services to the JSF-JSP Source Editor
 - Define new services and enhance existing services
- Design-time Application Manager
 - Provide an approximation of certain JSF runtime state information at design time.
 - Pluggable design-time variable, property and method resolvers
- JSF Application Configuration Manager
 - Provide a unified application configuration model through API, effectively merging all faces configuration models into a single model
 - Notification services to monitor changes to the EMF objects in the model
 - Cross model validation will be supportable .

Standards



- This release supports the following standards
 - JavaServer Faces Technology 1.1 specification
(<http://java.sun.com/javaee/javaserverfaces/reference/api/index.html>)
 - JSP 2.0
 - J2EE 1.4

Communities



- Committers
 - Oracle – Project Lead and WTP PMC member, 3 committers and 1 active contributor
 - Sybase – 1 committer
- Contributors
 - BEA, IBM – Feature review, weekly status calls
 - WTP SSE group – Design discussions
(http://www.eclipse.org/webtools/jsf/dev_resource/DesignDiscussion-2006-03-03.html)
 - WTP Releng group – Integrating with the WTP build process
 - Individual contributors include
 - Lumir Vanek: contributed the Snippets feature, tested the product and has given feedback through bugzilla and newsgroup.

Communities (continued)



- Active User community
 - Product has been tested by a wide range of people and feedback given through newsgroup and bugzilla (<http://www.eclipse.org/newsportal/article.php?id=272&group=eclipse.webtools.jsf#272>)
- Active Adopter community
 - Feature requests include
 - support for CustomVariableResolver (<http://www.eclipse.org/newsportal/article.php?id=229&group=eclipse.webtools.jsf#229>)
 - need programmatic enhancement for plugin-provided JSF libraries (https://bugs.eclipse.org/bugs/show_bug.cgi?id=128091)
- Community development
 - Open communications of features, plans and status through newsgroup, mailing list and bugzilla
 - Release includes feature request from an adopter
 - Host weekly status call, communicate project status in weekly WTP PMC call
 - EclipseCon Long talk: Build JavaServer Faces applications with the JSF Tools Project
 - Completed Project release review by the WTP community on June 7th

Schedule



- WTP 1.5 – JSF Tools Project (0.5) Release
 - M1 - December, 16, 2005
 - WTP 1.0 based. Basic Application Configuration Editor and support for end-to-end JSF application development and deployment.
 - M5 - March 13, 2006
 - Milestone release for EclipseCon 2006. Based on WTP1.5 M5 Milestone.
 - RC2 - May 10, 2006
 - Feature complete for Faces Config Editor. Includes integration between the Faces Config Editor and the Faces Config EMF model.
 - RC3 - May 30, 2006
 - New Features in JSF-JSP Source Editor including Content Assist and Validation and extensible frameworks
 - RC4 - June 7, 2006
 - Feature freeze. Only bug fixes and documentation allowed beyond this date.
 - RC5 - June 20, 2006 Code freeze
 - Only documentation changes allowed beyond this date.
 - Release(RC6) - June, 28, 2006
 - Aligned with WTP 1.5 Final release.

Release Readiness



- Integrated with WTP build infrastructure
 - JSF Tools Project is built with WTP and is available on the WTP download page.
 - Work in progress to integrate with the WTP Update Manager.
- Milestones
 - **RC4 – Feature Freeze – June 7th completed and posted for review.**
 - RC5 – Code Freeze – June 20th – In progress.
- Testing Status
 - Junit tests integrated with the build process. All tests passed on the feature freeze build.
 - Junit tests available for all the major functional blocks . Estimated coverage is better than 50%.
 - Manual tests
 - All tests are documented and in CVS.
 - All milestone builds are tested manually before releasing the build.

Release Readiness (continued)



- Testing Status (continued)
 - See **org.eclipse.jsf\components\jsf\development\design** for documentation on the tests.
 - Defect Status
 - 129 - Total Bugs logged
 - 27 - Enhancement requests
 - 17 - Blocker + Critical + Major
 - 79 - Bugs resolved (all Blocker+Critical+Major bugs resolved)
 - 50 - Bugs deferred
 - Release Exit Criteria:
 - All automated and manual tests pass
 - No P1/Blocker+Critical+Major bugs
 - All provisional API's documented

Release Readiness (continued)



- Documentation Status
 - User Documentation
 - Complete User documentation available as Eclipse Help
 - Getting started section has comprehensive tutorial
 - Developer Documentation
 - Programmers Guide section available as Eclipse Help
 - Javadoc available for all provisional API's
 - Extensions point documented
 - Tutorial on Extending JSF Tools Project included in the Eclipse Help
 - Design documentation available for all the major features
 - In CVS under, **org.eclipse.jsf\components\jsf\development\design**

API Overview



- All API's in this release are Provisional
- No end-of-life issues as this is the first release
- Following areas of the product are planned to become API's in the 1.0 release.

- org.eclipse.jst.jsf.contentmodel.annotation.internal.provisional
 - API for accessing and populating the internal content model annotations model
- org.eclipse.jst.jsf.metadataprocessors.internal.provisional
 - API for providing meta-data driven source editor services using the content model annotations
- org.eclipse.jst.jsf.taglibprocessing.internal.provisional.attributevalues
 - API for supplied attribute value runtime types and features used for providing meta-data enabled services for attribute values in source editor
- org.eclipse.jst.jsf.metadataprocessors.internal.provisional.features
 - API for meta-data services/features
- org.eclipse.jst.jsf.context.internal.provisional
 - Defines the abstract context
- org.eclipse.jst.jsf.context.resolver.internal.provisional
 - Defines the abstract context resolver
- org.eclipse.jst.jsf.context.structureddocument.internal.provisional
 - Defines the abstract context for *structured documents*
- org.eclipse.jst.jsf.context.structureddocument.context.resolver.internal.provisional
 - Defines the concrete context resolvers for structured documents.
- org.eclipse.jst.jsf.context.symbol.internal.provisional
 - Symbol API used to declare EL variables, properties, methods etc.
- org.eclipse.jst.jsf.designtime.internal.provisional.
 - API for the Design Time Application Manager including default and pluggable resolvers.
- org.eclipse.jst.jsf.core.internal.provisional.jsfappconfig.
 - Provide a unified application configuration model through API, effectively merging all faces configuration models into a single model
 - Notification services to monitor changes to the EMF objects in the model

IP Review



- About files and license files are complete and correct?
 - Yes
- All significant and third-party contributions have been reviewed by Eclipse Legal?
 - Yes: See project log for complete list
- Project log complete and has been reviewed by Eclipse Legal?
 - Yes
- The URL is http://www.eclipse.org/webtools/development/ip_log.html

Future Release plans



- WTP 2.0 – JSF Tools Project (1.0) release – June, 2007
 - Support for JavaServer Faces 1.2 (Java 5 EE)
 - Visual JSF-JSP Page Editor
 - Enhancements to Faces Config Editor and JSF-JSP Page Editor
 - Validations
 - Quick Fix
 - Hyperlink
 - Release first set of public API's
 - Extensible frameworks
 - Comprehensive Developer documentation

Thanks..



- Please send us your feedback, requirements and issues at
 - Newsgroup: `eclipse.webtools.jsf`
 - Mailing list: `wtp-jsf-dev@eclipse.org`
 - Bugzilla:
https://bugs.eclipse.org/bugs/enter_bug.cgi?product=Java%20Server%20Faces