



Accessibility Tools Framework (ACTF) 0.9 Release Review

June 1st-8th, 2011

Chieko Asakawa, IBM (Project Lead)

Kentarou Fukuda, IBM (Release Engineer)

(Indigo Simultaneous Release)

- The Accessibility Tools Framework (ACTF) is a Technology subproject in the incubation phase
 - <http://www.eclipse.org/actf>
- ACTF aims at providing an extensible and comprehensive framework for accessibility tools.
- This release includes
 - Visualization SDK
 - Visualization Extension for WST
 - Visualization Extension for PDT
 - Exemplary applications

- Infrastructure components
 - Provide comprehensive and unified access mechanisms for the user interfaces of applications and for the object models of various kinds of content.
 - Provide middleware to manage components and dataflow in the framework on top of the Eclipse platform.
- Visualization components
 - Provide reusable view components for creating accessibility evaluation tools.
 - Provide visual representations of the content and applications as perceived by People with Disabilities (PwD).
- WST/PDT integration
 - Provide extension features for WST/PDT.
 - Enable use of the accessibility visualization functions of ACTF from the perspectives of the Web, J2EE, and PHP.



Features (not included)

- Due to differences in the development schedule, Alternative Interface SDK is not included in this release.

- Documentation
 - Visualization SDK includes documentation for users and developers.
 - APIs have Javadoc.
 - Extension points have a reference document.
- Publication
 - Several documents have been published on the ACTF documentation page.

<http://www.eclipse.org/actf/docs/>

- APIs conform to Eclipse Quality Standards
 - All APIs are currently provisional. ACTF plans to freeze the APIs after reflecting community feedback.
 - Internal APIs are in internal packages and currently are not exported.

- Several examples have been tested



Architectural Issues

- We use extensions to make the ACTF extendable by others
 - 8 extension points are available
- ACTF components can be used as modules
 - HTML parser, ODF API, Web Browser Editor, ...
- Non-API use for visualization
 - To obtain the HTML source, live DOM, URL, etc. from existing Browser components, such as SWT Browser Editor or Browser Output View, we use the reflection method.
 - For more details including current migration plan:
https://bugs.eclipse.org/bugs/show_bug.cgi?id=268519

- Easy integration into Eclipse by providing several extension points, reusable and customizable view components, etc.
- Several kinds of exemplary tools are available
 - Accessibility visualization tool implementation: aDesigner
 - Sample implementation of visualization: SimpleVisualizer
 - Audio description editor for internet movies: ScriptEditor

- There are no features that are designated for end-of-life in this release.

- Statistics as of May 30th 2011
 - 212 bugs created (including initial contributions)
 - 186 bugs were resolved/verified/closed

	Component							Total
	Doc	Model	Other	Visualization	core	examples	util	
NEW	.	.	<u>1</u>	<u>1</u>	.	.	.	<u>2</u>
ASSIGNED	<u>1</u>	<u>3</u>	<u>2</u>	<u>15</u>	.	<u>3</u>	.	<u>24</u>
CLOSED	<u>7</u>	<u>43</u>	<u>11</u>	<u>67</u>	<u>11</u>	<u>38</u>	<u>9</u>	<u>186</u>
Total	<u>8</u>	<u>46</u>	<u>14</u>	<u>83</u>	<u>11</u>	<u>41</u>	<u>9</u>	<u>212</u>

- Remaining bugs
 - 26 bugs (including 12 enhancements)
 - No major bugs

	Component					Total
	Doc	Model	Other	Visualization	examples	
normal	.	<u>3</u>	<u>1</u>	<u>7</u>	<u>1</u>	<u>12</u>
minor	.	.	.	<u>1</u>	.	<u>1</u>
trivial	.	.	<u>1</u>	.	.	<u>1</u>
enhancement	<u>1</u>	.	<u>1</u>	<u>8</u>	<u>2</u>	<u>12</u>
Total	<u>1</u>	<u>3</u>	<u>3</u>	<u>16</u>	<u>3</u>	<u>26</u>

(excludes bugs for Alternative Interface components that are not included in this release)

- ACTF requires Java 1.5 or later and Eclipse 3.6 or later
- W3C HTML 4.01 recommendation
(and older recommendations 3.2, 4.0)
 - HTML model component
- OASIS Open Document Format v1.1
 - ODF model component

- Accessibility
 - Following accessibility guidelines, such as <http://www.eclipse.org/articles/article.php?file=Article-Accessibility351/index.html>
- User Interface Guidelines
 - UI Checklist is not firm yet, but is planned to update in the future release
- I18n
 - UI messages are externalized
 - Registered with Babel for translation
 - Simplified Chinese translation was contributed from community member

- Initial Schedule
 - M1 08/20/2010 0.9 M1
 - M2 10/01/2010 0.9 M2
 - M3 11/12/2010 0.9 M3
 - M4 12/17/2010 0.9 M4
 - M5 02/04/2011 0.9 M5
 - M6 03/18/2011 0.9 M6
 - M7 05/06/2011 0.9 M7 (Feature Freeze)
 - RC1 05/20/2011 0.9 RC1
 - RC2 05/27/2011 0.9 RC2
 - RC3 06/03/2011 0.9 RC3 (API Freeze)
 - RC4 06/10/2011 0.9 RC4

- All milestones, RC1, RC2 were released on time.

- Active Bugzilla
 - mainly by committers
 - some from exemplary tool users
- Discuss project plans, etc. in conference calls and ML.
- Newsgroup is not much used yet.
 - Now, it is monitored by subscribed committers.
- Community outreach
 - Introduce ACTF at ITRC UAI seminar (February 26th, 2011)
 - Publications of research activities on top of ACTF
 - ACM ASSETS 2010, CSUN 2011, etc.
 - Improve/update documentation and examples
- Plan to enhance check logic for new and coming accessibility guidelines with communities
 - Web Content Accessibility Guidelines (WCAG) 2.0, new Section 508, JIS X8341-3:2010, etc.

- The code has been committed by individuals who are either committers of the project themselves or by their organizations.
- IP Log up2date at
 - http://www.eclipse.org/projects/ip_log.php?projectid=technology.actf
- Previously Approved IP Log
 - http://www.eclipse.org/actf/iplog/actf_ip_log_080_helios.pdf
- Project released under EPL
- IP log for 3 third-party code were corrected (CQ 5217, 5218, 5223).
 - These items were previously used in ACTF Validation components that were archived in March 2010.

- Available at
<http://www.eclipse.org/projects/project-plan.php?projectid=technology.actf>
- Themes for Juno Simultaneous Release 2012
 - Enhancement of WCAG 2.0, JIS X8341-3:2010 support
 - Performance improvement
 - Usability improvement
 - Inclusion of Alternative Interface components



Thank you!