



Accessibility Tools Framework (ACTF) 0.8 Release Review

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(Helios 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

- 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 components are 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
 - etc.
- New use cases and enhancements
 - ScriptEditor: It aims to provide an environment to easily edit audio descriptions for internet movies. It also tries to reduce cost of audio description by using audio synthesis.

- ACTF Validation part (including three examples, Javaco, Webelo and Accessibility Probe (AccProbe)) were archived at March 2010.
- ACTF Validation part had not joined Galileo simultaneous release (ACTF 0.7). So, there are no feature changes included in this release.

- Statistics as of May 28th 2010
 - 182 bugs created (including initial contributions)
 - 163 bugs were resolved/verified/closed

	Component							Total
	Doc	Model	Other	Visualization	core	examples	util	
Status NEW	.	.	<u>1</u>	<u>1</u>
ASSIGNED	<u>1</u>	<u>3</u>	<u>2</u>	<u>8</u>	.	<u>4</u>	.	<u>18</u>
RESOLVED	.	<u>2</u>	.	<u>4</u>	.	.	.	<u>6</u>
VERIFIED	.	<u>2</u>	.	<u>1</u>	.	.	.	<u>3</u>
CLOSED	<u>6</u>	<u>31</u>	<u>6</u>	<u>55</u>	<u>11</u>	<u>37</u>	<u>8</u>	<u>154</u>
Total	<u>7</u>	<u>38</u>	<u>9</u>	<u>68</u>	<u>11</u>	<u>41</u>	<u>8</u>	<u>182</u>

- Remaining bugs
 - 19 bugs (including 7 enhancements)
 - No major bugs

	Component					Total
	Doc	Model	Other	Visualization	examples	
Severity normal	.	<u>3</u>	<u>1</u>	<u>5</u>	<u>2</u>	<u>11</u>
trivial	.	.	<u>1</u>	.	.	<u>1</u>
enhancement	<u>1</u>	.	<u>1</u>	<u>3</u>	<u>2</u>	<u>7</u>
Total	<u>1</u>	<u>3</u>	<u>3</u>	<u>8</u>	<u>4</u>	<u>19</u>

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

- ACTF requires Java 1.5 or later and Eclipse 3.5 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 next release
- I18n
 - UI messages are externalized
 - Registered with Babel for translation

- Initial Schedule

- | | | |
|--------------|------------|-------------------------|
| ▪ M1 | 08/19/2009 | 0.8 M1 |
| ▪ M2 | 09/30/2009 | 0.8 M2 |
| ▪ M3 | 11/11/2009 | 0.8 M3 |
| ▪ M4 | 12/16/2009 | 0.8 M4 |
| ▪ M5 | 02/03/2010 | 0.8 M5 |
| ▪ M6 | 03/17/2010 | 0.8 M6 |
| ▪ M7 | 05/05/2010 | 0.8 M7 (Feature Freeze) |
| ▪ RC1 | 05/19/2010 | 0.8 RC1 |
| ▪ RC2 | 05/26/2010 | 0.8 RC2 (= RC1) |
| ▪ RC3 | 06/02/2010 | 0.8 RC3 (API Freeze) |
| ▪ RC4 | 06/09/2010 | 0.8 RC4 |

- All milestones, RC1 were released on time.
(RC2 had not released because there is no update.)

- 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, but is monitored by committers.
- Community outreach
 - Eclipse Webinar (June 14th, 2009)
 - Introduce ACTF at ITRC UAI seminar (October 17th, 2009)
 - Provide more documentation and examples
- Plan to start community implementation of checking logic for new and coming accessibility guidelines
 - 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_070.html
- Project released under EPL

- Available at
<http://www.eclipse.org/projects/project-plan.php?projectid=technology.actf>
- Themes for Helios Service Release 1 (September 2010)
 - WCAG 2.0, JIS X8341-3:2010 support
 - Usability improvement

Thank you!