



# 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](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.



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

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

	Component							
	Doc	Model	Other	Visualization	core	examples	util	Total
<b>Status</b> 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					
	Doc	Model	Other	Visualization	examples	Total
<b>Severity</b> 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

- |              |            |                         |
|--------------|------------|-------------------------|
| ▪ <b>M1</b>  | 08/19/2009 | 0.8 M1                  |
| ▪ <b>M2</b>  | 09/30/2009 | 0.8 M2                  |
| ▪ <b>M3</b>  | 11/11/2009 | 0.8 M3                  |
| ▪ <b>M4</b>  | 12/16/2009 | 0.8 M4                  |
| ▪ <b>M5</b>  | 02/03/2010 | 0.8 M5                  |
| ▪ <b>M6</b>  | 03/17/2010 | 0.8 M6                  |
| ▪ <b>M7</b>  | 05/05/2010 | 0.8 M7 (Feature Freeze) |
| ▪ <b>RC1</b> | 05/19/2010 | 0.8 RC1                 |
| ▪ <b>RC2</b> | 05/26/2010 | 0.8 RC2 (= RC1)         |
| ▪ <b>RC3</b> | 06/02/2010 | 0.8 RC3 (API Freeze)    |
| ▪ <b>RC4</b> | 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 14<sup>th</sup>, 2009)
  - Introduce ACTF at ITRC UAI seminar (October 17<sup>th</sup>, 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](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](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!*