



Accessibility Tools Framework (ACTF) 1.0 Release Review & Graduation Review June 2012

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(Juno Simultaneous Release)

- The Accessibility Tools Framework (ACTF) is a Technology subproject in the incubation phase
 - <http://www.eclipse.org/actf>
 - From project launch in 2007, ACTF team worked with communities. We already completed 4 releases (including Galileo, Helios and Indigo), and would like to graduate from incubation phase by this 5th release (Juno).
- 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.
 - But, some of reusable components of Alternative Interface SDK are included in Visualization SDK as Infrastructure components (such as Text-to-Speech interfaces).

- 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 by this release.
 - Internal APIs are in internal packages and currently are not exported.

- Several examples have been tested

- 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 in ACTF
 - ACTF uses several components from swt.internal to access native applications
 - to get accessibility information
 - to control existing Text-to-Speech engines
 - to embed applications (IE, OpenOffice.org, etc.) as Eclipse Editor/View for accessibility evaluation
 - ACTF also uses reflection method to obtain HTML source, live DOM, URL, etc. from existing Browser components, such as SWT Browser Editor or Browser Output View
 - For more details including current migration plan:
https://bugs.eclipse.org/bugs/show_bug.cgi?id=259250
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 June 4th 2012
 - 208 bugs created (including initial contributions)
 - 186 bugs were resolved/verified/closed

		Component							
		Doc	core	Model	Other	examples	util	Visualization	Total
Status	NEW	.	.	.	<u>1</u>	.	.	<u>2</u>	<u>3</u>
	ASSIGNED	<u>1</u>	<u>1</u>	<u>3</u>	.	<u>4</u>	.	<u>10</u>	<u>19</u>
	RESOLVED	.	.	<u>5</u>	<u>1</u>	<u>1</u>	.	<u>3</u>	<u>10</u>
	CLOSED	<u>7</u>	<u>8</u>	<u>41</u>	<u>5</u>	<u>32</u>	<u>8</u>	<u>75</u>	<u>176</u>
	Total	<u>8</u>	<u>9</u>	<u>49</u>	<u>7</u>	<u>37</u>	<u>8</u>	<u>90</u>	<u>208</u>

(Except INVALID/NOT_Eclipse bugs)

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

		Component						
		Doc	core	Model	Other	examples	Visualization	Total
Severity	normal	.	.	<u>3</u>	.	<u>1</u>	<u>9</u>	<u>13</u>
	minor	<u>1</u>	<u>1</u>	<u>2</u>
	enhancement	.	<u>1</u>	.	<u>1</u>	<u>3</u>	<u>2</u>	<u>7</u>
	Total	<u>1</u>	<u>1</u>	<u>3</u>	<u>1</u>	<u>4</u>	<u>12</u>	<u>22</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 08/19/2011 1.0 M1
- M2 09/30/2011 1.0 M2
- M3 11/11/2011 1.0 M3
- M4 12/16/2011 1.0 M4
- M5 02/03/2012 1.0 M5
- M6 03/23/2012 1.0 M6
- M7 05/11/2012 1.0 M7 (Feature Freeze)
- RC1 05/25/2012 1.0 RC1
- RC2 06/01/2012 1.0 RC2
- RC3 06/08/2012 1.0 RC3 (API Freeze)
- RC4 06/15/2012 1.0 RC4

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

- M5 and M7 were skipped (identical with previous milestone)

- Active Bugzilla
 - mainly by committers
 - some from community members, e.g., from exemplary tool users
- Discuss project plans, etc. in conference calls and ML.
- Newsgroup is not much used yet, but is monitored by subscribed committers.

- Community outreach
 - Introduced Web accessibility evaluation tool developed on top of ACTF at CEATEC JAPAN 2011 (October 6th, 2011)
 - Improve/update documentation and examples

- Continue 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
- Approved IP Log
 - <https://bugs.eclipse.org/bugs/attachment.cgi?id=216614>
- Project released under EPL

- Available at
<http://www.eclipse.org/projects/project-plan.php?projectid=technology.actf>

- Themes for next Simultaneous Release in 2013
 - Enhancement of WCAG 2.0, JIS X8341-3:2010 support
 - Enhancement of exemplary tools
 - Usability improvement
 - Support for research and development activities on top of ACTF

Thank you!