

rA11y Plan

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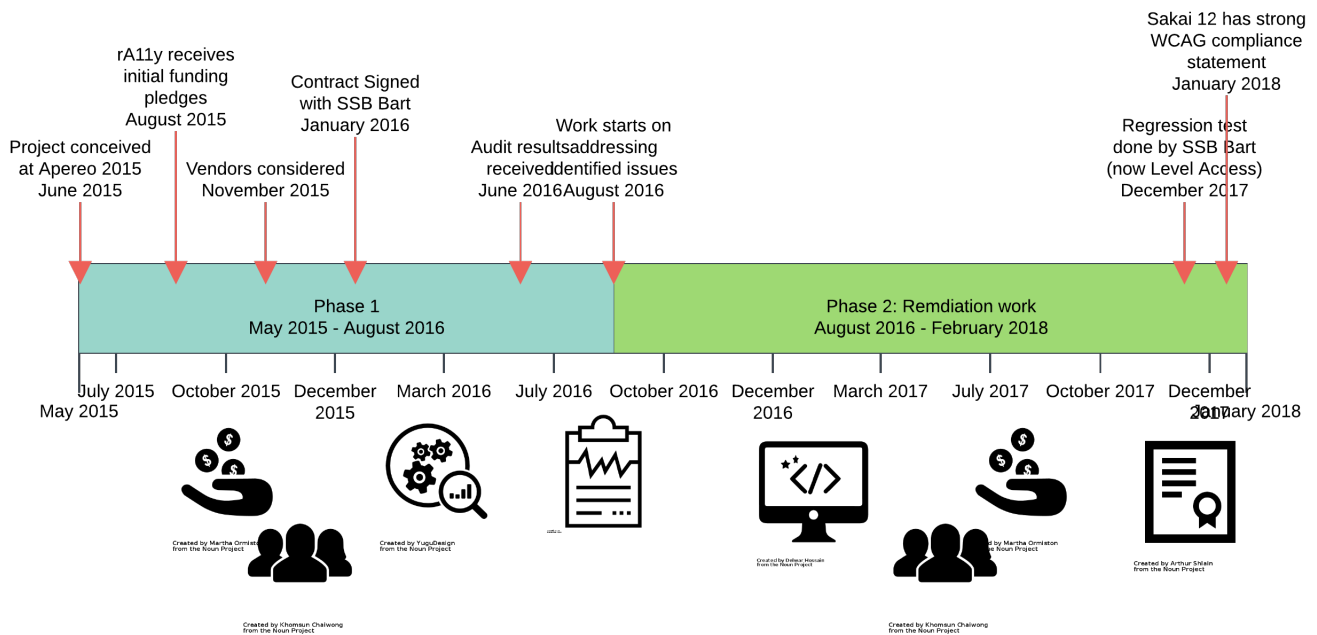
RA11y Plan (Review Accessibility Plan)

[MS Word alternative version - rA11yPlan.docx](#)

The RA11Y Plan (Review Accessibility Plan) is an initiative by the Sakai Accessibility Working Group to commission a substantive review of Sakai's accessibility by an NFB-like group with a goal of obtaining a certification, including a VPAT and WCAG2-based review, that would assure potential adopters and current users alike. Sakai has a good history of accessibility but resources are limited and new developments in Sakai need to be reviewed and brought up to standard.

Some institutions have already contributed funds. More is needed and community input about priorities is welcome. Our goal is US\$61,000 as this matches some of the quotes we've received for the review and some assumptions made about the work that needs to be done in response to the review.

Phased Plan



Timeline updated November 9, 2017

1. Review and Identify	2. Fix and Enhance	3. Comprehensive Review for VPAT & WCAG2
<ul style="list-style-type: none"> • Generate prioritized and comprehensive review of remaining unaudited areas of Sakai • Identify potential contributors • Create/adapt test scenarios for reviewers <p>Existing Resources:</p> <ul style="list-style-type: none"> • Use 2013 Brock University partial audit • Use 2013 Longsight partial audit • Ongoing community reports 	<ul style="list-style-type: none"> • Identify work and other requirements associated with reported JIRAs • Make enhancements in response to itemized reports (JIRAs). Requires contributions from community at large & tool leads • Incorporate replacement components in assessments (ie. Syllabus enhancements, Morpheus project) 	<ul style="list-style-type: none"> • Verify the likelihood of a successful review (this could result in a VPAT¹) • Select a reviewer to provide an audit and a statement of success, like the NFB • Commission a review

As items are identified and resolved issues and tools will move through parts one and two. All parts will need resources. Areas of Sakai might move through phases one and two at different paces, but they should culminate in phase three together.

As the Longsight partial audit is incorporated, a revised list of unreviewed areas of Sakai can be generated, prioritized based on the 2014 tool use survey and the scope of a complementary partial review can be identified. Based on the prioritized list, the new partial review project cost can be estimated and the estimate used to seek contributions.

The partial review will no doubt identify issues that need resolution before a full review and accessibility statement can be sought. Additional contributions responding to these issues will be needed. Contributions would include modifying components directly or contributing funds to support work by commercial partners.

[A recording of the update webinar can be found on YouTube.](#)

Timeline

- Short term, Winter 2015
 - Incorporate outstanding issues from 2013 Longsight partial audit into JIRA² (in progress, LSNBLDR-456 already addressed!) and [relate issues in JIRA to Longsight partial audit](#).
 - Update identified list of unreviewed areas of Sakai. Sakai 11 developments will be accounted for and the list will also be prioritized based on the 2014 tool use survey and the scope.
 - [Existing document to be updated or a new document created.](#)
- Medium term, Winter 2015 ~ Summer 2015
 - Encourage work on identified issues from the short term.
 - Fundraise for partial accessibility audit and remaining issues in Sakai.
 - Commission partial audit of Sakai.
 - Identify the scope and resources required for identified work.
 - Encourage work on newly identified issues.
- Long term, After Completion of Phases 1 and 2.
 - Phases 1 - Fall and Winter of 2015
 - Verify that Sakai is ready to be reviewed and seek an accessibility statement
 - Create a Voluntary Product Accessibility Template (VPAT) as a self study before submission for a full review and interim certification.
 - Agree on a reviewer like the National Federation of the Blind (NFB) or a similar established commercial reviewer.
 - Fundraise for full review
 - Phase 2 - Summer and Winter 2016
 - Commission full review
 - Work to address identified issues
- Outcome
 - Verification or conditional statement of accessibility from a reviewer like NFB and confirmed or conditional WCAG 2 Level AA status for Sakai.

¹ VPAT - Voluntary Product Accessibility Template - <http://www.state.gov/m/irm/impact/126343.htm>+

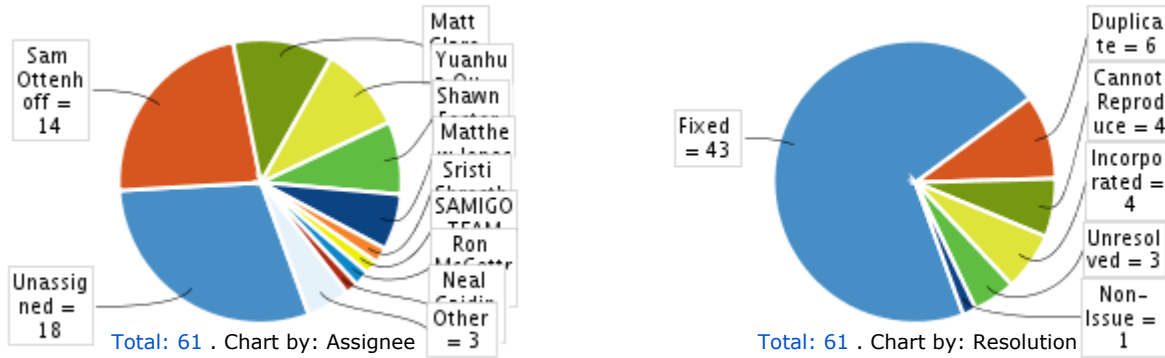
² Sakai Jira - <https://jira.sakaiproject.org/browse>+

Issues Identified

453 instances have been consolidated to 51 JIRA-issues, listed below or [searchable in Sakai's JIRA](#).

Some trends of key issues have been identified:






- [SAK-31549](#) Ensure screen reader specific content is rendered off-screen rather than hidden or not displayed.
- [SAK-31617](#) Throughout Sakai 11 there are colours that do not have a high enough ratio.
- [SAM-2217](#) Identifies that there needs to be a valid label for form fields throughout the delivered assessments in Tests and Quizzes. This is a JavaServer Faces (JSF) related issue, and would benefit from Java developer's attention.
- [There were a number of issues associated with the Signup tool](#)
- [Adding ARIA roles](#)
- [Keyboard navigation](#)



Full List

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
SAK-37712	Ensure screen reader specific content is rendered off-screen rather than hidden or not displayed	🔴	Aug 02, 2016	Apr 18, 2018		Unassigned	Matt Clare		CLOSED	Duplicate
SAK-37581	Provide a valid label for form fields	🔴	Aug 02, 2016	Apr 18, 2018		Unassigned	Matt Clare		CLOSED	Duplicate
SAK-37567	Ensure ARIA roles, states, and properties are valid	🔴	Aug 02, 2016	Apr 18, 2018		Unassigned	Matt Clare		CLOSED	Duplicate
SAK-37445	Bring Required Indicators in line with Font Awesome Use	🟢	May 05, 2017	Dec 07, 2018		Charles Hedrick	Dave Eveland	🚩	OPEN	Unresolved
SAK-37161	Provide a valid label for form fields	🔵	Aug 02, 2016	May 16, 2018		Sam Ottenhoff	Matt Clare	🔴	CLOSED	Fixed
SAK-36876	Form field labeling is missing in many areas	🔴	Oct 02, 2013	Apr 17, 2018		SAMIGO TEAM	Matt Clare	🟡	RESOLVED	Fixed
SAK-36080	Ensure screen reader specific content is rendered off-screen rather than hidden or not displayed: Samigo use of skip class	🔴	Aug 02, 2016	Apr 17, 2018		Unassigned	Matt Clare	🔴	CLOSED	Fixed

SAK-34555	Add hidden text meaning for blank and numeric questions		Feb 01, 2017	Apr 17, 2018	Sam Ottenhoff	Matt Clare		VERIFIED	Fixed
SAK-34553	File Upload question type needs label		Nov 15, 2017	Apr 17, 2018	Ron McGettrick	Tiffany Stull		RESOLVED	Non-Issue
SAK-32352	Text in the .skip class are not fully hidden		Mar 20, 2017	Jun 14, 2017	Matt Clare	Ramon Sanchez		VERIFIED	Fixed
SAK-31886	Sites Nav misplaced (Mrphs-sitesNav__menuitem)		Oct 25, 2016	Feb 15, 2017	Eduardo Rey Jara	Alejandro González Jiménez		CLOSED	Fixed
SAK-31864	Visual indication of focus needed		Oct 13, 2016	Oct 13, 2016	Matt Clare	Matt Clare		RESOLVED	Duplicate
SAK-31822	Screen jumps on some items in preferences page clicking title		Sep 30, 2016	Apr 04, 2017	Matthew Jones	Matthew Jones		CLOSED	Fixed
SAK-31818	Ensure ARIA roles, states, and properties are valid on Mrphs-sitesNav__menuitem		Sep 29, 2016	Feb 13, 2017	Hunter Sonn	Matt Clare		CLOSED	Fixed
SAK-31811	Ensure link text provides sufficient contrast - Tool Title Nav Links		Sep 28, 2016	Feb 13, 2017	Shawn Foster	Shawn Foster		VERIFIED	Fixed
SAK-31635	Provide alternative text for images - Syllabus actions		Aug 02, 2016	Feb 13, 2017	Yuanhua Qu	Matt Clare		CLOSED	Fixed
SAK-31634	Ensure screen reader specific content is rendered off-screen rather than hidden or not displayed		Aug 02, 2016	Feb 01, 2017	Unassigned	Matt Clare		VERIFIED	Fixed
SAK-31633	Provide alternative text for images - Sign-up		Aug 02, 2016	Aug 17, 2018	Yuanhua Qu	Matt Clare		CLOSED	Fixed
SAK-31632	Provide alternative text for images - Sign-up		Aug 02, 2016	Feb 22, 2017	Yuanhua Qu	Matt Clare		CLOSED	Fixed
SAK-31631	Provide a valid label for form fields - signup		Aug 02, 2016	Feb 22, 2017	Sam Ottenhoff	Matt Clare		RESOLVED	Incorporated
SAK-31630	Provide a valid label for form fields - signup meeting details		Aug 02, 2016	Aug 17, 2018	Sam Ottenhoff	Matt Clare		CLOSED	Fixed
SAK-31629	Ensure simulated controls are keyboard accessible - Signup		Aug 02, 2016	Apr 25, 2017	Sam Ottenhoff	Matt Clare		RESOLVED	Fixed
SAK-31628	Ensure simulated controls are keyboard accessible - Signup		Aug 02, 2016	Jun 01, 2018	Matthew Jones	Matt Clare		VERIFIED	Fixed
SAK-31627	Ensure screen reader specific content is rendered off-screen rather than hidden or not displayed		Aug 02, 2016	Jun 14, 2017	Unassigned	Matt Clare		VERIFIED	Fixed
SAK-31626	Provide a valid label for form fields - permission widget		Aug 02, 2016	May 22, 2017	Sam Ottenhoff	Matt Clare		CLOSED	Fixed
SAK-31625	Ensure screen reader specific content is rendered off-screen rather than hidden or not displayed		Aug 02, 2016	Jan 24, 2017	Unassigned	Matt Clare		RESOLVED	Fixed

SAK-31624	Ensure ARIA roles, states, and properties are valid		Aug 02, 2016	Oct 13, 2016	Matt Clare	Matt Clare		RESOLVED	Cannot Reproduce
SAK-31623	Provide alternative text for images - Profile picture		Aug 02, 2016	Jul 26, 2017	Yuanhua Qu	Matt Clare		VERIFIED	Fixed
SAK-31622	Ensure screen reader specific content is rendered off-screen rather than hidden or not displayed		Aug 02, 2016	Jan 24, 2017	Unassigned	Matt Clare		RESOLVED	Fixed
SAK-31621	Ensure keyboard focus is not provided to inactive elements		Aug 02, 2016	Nov 03, 2017	Sam Ottenhoff	Matt Clare		VERIFIED	Fixed
SAK-31620	Ensure ARIA roles, states, and properties are valid - Morpheus, sites list		Aug 02, 2016	Jun 08, 2017	Matt Clare	Matt Clare		CLOSED	Fixed
SAK-31619	Ensure all active elements receive keyboard focus		Aug 02, 2016	Apr 04, 2017	Unassigned	Matt Clare		VERIFIED	Fixed
SAK-31618	Avoid the sole use of device-dependent event handlers - Home, Preferences		Aug 02, 2016	Oct 04, 2016	Matthew Jones	Matt Clare		CLOSED	Fixed
SAK-31617	Ensure sufficient colour contrast: WCAG2 AA		Aug 02, 2016	Jan 28, 2017	Shawn Foster	Matt Clare		RESOLVED	Incorporated
SAK-31616	Ensure that keyboard focus remains within modal simulated dialogs		Aug 02, 2016	Oct 27, 2017	Sam Ottenhoff	Matt Clare		VERIFIED	Fixed
SAK-31615	Ensure simulated controls are keyboard accessible - Morpheus		Aug 02, 2016	Aug 08, 2017	Unassigned	Matt Clare		VERIFIED	Fixed
SAK-31614	Ensure screen reader specific content is rendered off-screen rather than hidden or not displayed		Aug 02, 2016	Jan 24, 2017	Unassigned	Matt Clare		RESOLVED	Fixed
SAK-31613	Ensure link text provides sufficient contrast - throughout Sakai /Morpheus		Aug 02, 2016	Oct 04, 2016	Shawn Foster	Matt Clare		VERIFIED	Fixed
SAK-31612	Ensure link text provides sufficient contrast - Current User Menu		Aug 02, 2016	Oct 04, 2016	Shawn Foster	Matt Clare		VERIFIED	Fixed
SAK-31611	Ensure link text provides sufficient contrast - Left Tool Menu - Current Tool		Aug 02, 2016	Oct 04, 2016	Shawn Foster	Matt Clare		VERIFIED	Fixed
SAK-31610	Ensure keyboard focus is indicated visually		Aug 02, 2016	May 18, 2018	Neal Caidin	Matt Clare		CLOSED	Fixed
SAK-31609	Provide a valid label for form fields - Membership tool		Aug 02, 2016	May 24, 2017	Sam Ottenhoff	Matt Clare		CLOSED	Fixed
SAK-31597	Ensure screen reader specific content is rendered off-screen rather than hidden or not displayed - Forms		Jul 29, 2016	Jan 24, 2017	Sam Ottenhoff	Matt Clare		RESOLVED	Fixed
SAK-31594	Provide a valid label for form fields - Resources /Content		Jul 29, 2016	May 24, 2017	Sam Ottenhoff	Matt Clare		CLOSED	Fixed

SAK-31593	Ensure screen reader specific content is rendered off-screen rather than hidden or not displayed		Jul 29, 2016	Jan 24, 2017	Unassigned	Matt Clare		RESOLVED	Fixed
SAK-31592	Ensure elements with multiple labels are rendered appropriately		Jul 29, 2016	Feb 13, 2017	Sam Ottenhoff	Matt Clare		VERIFIED	Fixed
SAK-31591	Ensure custom controls provide proper textual roles and descriptions		Jul 29, 2016	Jan 18, 2017	Unassigned	Matt Clare		RESOLVED	Duplicate
SAK-31590	Ensure custom controls provide proper textual roles and descriptions - Details expansion - Resources/Content		Jul 29, 2016	Apr 24, 2017	Matt Clare	Matt Clare		RESOLVED	Duplicate
SAK-31589	Ensure custom controls provide proper textual roles and descriptions - Create Folder Details - Resources/Content		Jul 29, 2016	Nov 04, 2017	Sam Ottenhoff	Matt Clare		VERIFIED	Fixed
SAK-31588	Ensure ARIA roles, states, and properties are valid		Jul 29, 2016	Oct 13, 2016	Unassigned	Matt Clare		RESOLVED	Cannot Reproduce
SAK-31587	Ensure that simulated dialogs can be closed via the keyboard - Chat (portal chat?)		Jul 29, 2016	Feb 13, 2017	Sristi Shrestha	Matt Clare		CLOSED	Fixed
SAK-31586	Ensure screen reader specific content is rendered off-screen rather than hidden or not displayed - Chat		Jul 29, 2016	Jan 24, 2017	Unassigned	Matt Clare		RESOLVED	Fixed
SAK-31585	Ensure ARIA roles, states, and properties are valid - Chat		Jul 29, 2016	Oct 03, 2016	Unassigned	Matt Clare		RESOLVED	Cannot Reproduce
SAK-31575	Ensure screen reader specific content is rendered off-screen rather than hidden or not displayed		Jul 27, 2016	Jan 24, 2017	Unassigned	Matt Clare		RESOLVED	Fixed
SAK-31573	Ensure ARIA roles, states, and properties are valid - Assignments		Jul 27, 2016	Apr 24, 2017	Unassigned	Matt Clare		RESOLVED	Cannot Reproduce

Showing 55 out of 61 issues

Updates

Early Fall 2015 Update

Fully funded!

The \$61,000 and 60 hours of in-kind development time have been pledged.

Thanks to: Apereo, Durham Tech, Tufts University, Oxford, Pepperdine, Longsight and I should probably thank Brock University.

Next is for members of the accessibility working group to have serious talks with accessibility reviewers.

There are still many ways to contribute: There's *participating in decision making process* around selecting an accessibility reviewer selection **and** the opportunity to *fund or directly provide development time to respond to the audit results*.

A big thanks to those individuals and institutions that have pledged and everyone who has participated in the process.

Summer 2015 Update 2

As of Thursday September 3, 2015 \$54,500 and 60 hours of in-kind development time have been pledged!

Matt Clare (Matt.Clare@Brocku.ca) would love to hear from the people or places that can help get us to our goal!

Summer 2015 Update

We are under way and hoping to raise US\$61,000.

If support in the form of financial contributions to these costs is possible, please contact Matt Clare (Matt.Clare@Brocku.ca) to let Matt know the amount and so that the Apereo Foundation can prepare an invoice and set up electronic transfers.

March 2015 Update

Progress on this project continues. The accessibility reviews of previous versions of Sakai that have been made public, notably Brock University's and Longsight's, have been incorporated into <https://jira.sakaiproject.org>. Most issues have been reviewed and some have already had work completed on them for Sakai 11, and potentially coming updates to Sakai 10.

Donations of funds to support commissioning Phase 1 and Phase 3 reviews are being sought. Resources in any form are appreciated for the fix and enhance portion of Phase 2.

The Sakai Accessibility Working Group is maintaining a list of the review status of unique pages and trying to assign a priority to unreviewed areas. Crudely, there are 341 unreviewed pages in Sakai 10. Industry scans have suggested that a worst-case budgetary figure for having each unique web pages professionally reviewed is \$100/page.

Inquiries has been made with the following organizations about complimentary Phase 1 partial reports and the possibility of a Phase 3 certification statements, starting with a VPAT and then a WCAG 2 Level AA certifications. Discussions are ongoing, but early positive developments include suggestions that a representative selection of Sakai's total unique elements maybe be sufficient for certification by some groups.

Status of current vendor inquiries:

- Deque Systems, Inc.- web contact
- National Foundation of the Blind - Emailed
- SSB bart Group - Emailed, phone conversation
- WebAIM - Emailed, ongoing dialogue
- jimthatcher.com - Web contact
- Paciello Group - Respectfully declined the opportunity

If you are interested in participating please contact Matt Clare through details outlined on the main page of the [Accessibility Working Group](#).

[Matt Clare](#)

Spring 2016 / Open Apereo Con 2016

If you are interested in reviewing the results please contact Matt Clare through details outlined on the main page of the Accessibility Working Group.

There are 452 Issues Detected with guidance on how to address them.

[Matt Clare](#)

July 2016

453 instances have been consolidated to 140 JIRA-issues
The export from SSB Bart has been reviewed for:

- Correct component
- additional brief community summary
- additional notes
- Add `{code}` and `{noformat}` as needed

Matt (and any others are welcome) to review with SSB Bart on Delivery Call, Matt's concern is some of the ARIA/Tabpanel feedback is very vague.

SSB Bart currently asses Sakai 11 (from April 15 2016) as 75% WCAG2 A compliant and 76% WCAG2 AA compliant.

Next steps:

Matt Clare slices the Google Sheet by Sakai Project/Component and imports into JIRA based on this mapping (Screenshot of mapping) <http://www.screencast.com/t/Tf2qHSY3UpH>
Example of what they look imported to JIRA in a "fake" project <https://jira.sakaiproject.org/projects/ACCTEST>

Once import is deemed ready, will import issues per project/component to their areas of JIRA
Will create public searches to reveal rA11y Project across JIRA

Once in JIRA:

Sakai development community alerted to new rA11y related JIRAs. Focus on the quick wins.
Informing others Core team meetings: Every Tuesdays 10AM EST
Alert Sak-dev and Slack
Will host Q&As on issues (ideally common ones)

[Matt Clare](#)

August 2016

453 instances have been consolidated to 51 JIRA-issues
The export from SSB Bart has been reviewed for:

- Correct component
- additional brief community summary
- additional note
- Add `{code}` and `{noformat}` as needed

The complete list of 51 rA11y related JIRAs can be found by searching for the label rA11y (case counts)
<https://jira.sakaiproject.org/issues/?jql=labels%20%3D%20rA11y>

Some issues are large in scope, many are seemingly small, such as colour changes (

[SAK-31617](#) - Getting issue details...

STATUS

) and CSS class use ([SAK-31549](#) - Getting issue details...

STATUS) and

ideally can represent some swift and significant progress.

A few trends have been identified "Ensure screen reader specific content is rendered off-screen rather than hidden or not displayed" has emerged as a wide-ranging issues that might be easy to solve, a We're hoping that work can begin on these issues within components and projects in the Sakai community. There are also some funds and pledged time that can be used to address difficult issues, but ideally now that items are identified the resolution is forthcoming through regular means, but those funds and time could be used.

Before the end of 2016 Sakai needs to be ready to be reviewed and at that time SSB Bart can issues a WCAG 2 Level AA compliance statement, ideally without reservations.

[Matt Clare](#)

June 2017

Presentation given at Open Apereo 2017.

Look to be on track for WCAG compliance statement and community authored VPAT with Sakai 12 release.

[Apereo 17, Update on Sakai Accessibility and WCAG 2 Status](#)

[Matt Clare](#)

October 2017

We have commissioned a regression test for Sakai 12 from Level Access, formerly SSB Bart. This will results in a published WCAG 2 Level AA compliance statement, published audit results, and we will create a VPAT based on these results.

Work is to begin in December of 2017 and intended to coincide with the release candidate of Sakai 12 being ready.

Thanks to everyone who have supported this initiative, in both time, direct funds, development time, QA time, and support. This includes, but is certainly not limited to, people associated with the following organizations

- Apereo

- Brock University
- Durham Tech
- Illinois State University
- Longsight
- NYU
- Pepperdine
- Tufts University
- University of Rhode Island
- University of Virginia
- and more...

August 2018

During our last Level Access review, 90% of the originally identified issues had been resolved. However, a number of newly identified issues were found which related to new features/code in Sakai 12. These new issues must be corrected before Sakai receives the above mentioned statement of compliance. Resolution of these new issues is the goal for Phase 2 of this project. Please see the recent Open Apereo 2018 presentation for more detail on the current status of a11y efforts.



New issues requiring remediation have been labeled "a11y2" in the Sakai Project JIRA. See below for a detailed list of these issues and the current resolution status.

Key	Summary	T	Created	Updated	Assignee	Reporter	P	Status	Resolution
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[No issues found](#)