

# Let them have Cloud Apps...

Embed an open source LTI CASA Cloud  
App Catalog into your LMS



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# What is an App?

- **Static Content**

- Not Interactive
- Reading material
- Research Paper, Chapter reading

- **Functional Apps**

- Not content-specific
- Chat, Video, Discussion boards

- **Dynamic Content**

- Interactive Assignments
- Assessments, Quizzes, games, course specific

# How do we

- Guide instructors to “shop” for Apps based upon important instructional and pedagogical criteria?
  - Mobile Friendliness
  - Accessibility
  - The availability of data analytics
  - Privacy principles
  - Security


# We Need to Enable Flexibility...




# While supporting informed choices

- Can I get data analytics out of this cloud app?
- What is the cloud app's privacy policy?
- Is it secure?
- Is this tool accessible?
- Have other instructors like me used it in this kind of a class?
- What do they do with student data?
- How does this integrate with my system?

# Share Cloud Tool Reviews





[Home](#) | [Review Process](#) | [Review Criteria](#) | [Tools & Services](#) | [About Us](#)

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## Tools & Services

The directory below provides a high-level summary of the tools that have been reviewed or are in progress. We recommend reading through the [Rating Descriptions](#) for an explanation of the icons used in the table. We also suggest you read the full review for any tool you are interested in using. If the tool you have in mind has not been reviewed yet, check our [Planned Reviews](#) for a list of the tools currently in our queue. Better yet, help us prioritize our list by [letting us know](#) which tools you are interested in using or what types of functionality you need.

Name	Typical Uses	Functional	Privacy	Student Records	Security	Legal	Contract
Doceri <a href="#">Read Full Review</a>	<ul style="list-style-type: none"> <li>▪ Conduct your lecture as you interact with the students in the classroom</li> <li>▪ Annotate PowerPoint presentations during your in-class session</li> </ul>	✓	!	!	!	—	☆
Google Apps (UCI) <a href="#">Read Full Review</a>	<ul style="list-style-type: none"> <li>▪ Have student groups collaboratively create a presentation</li> <li>▪ Collaboratively write a research paper or article for publication</li> </ul>	✓	✓	✓	✓	✓	★
Google Hangouts (UCI) <a href="#">Read Full Review</a>	<ul style="list-style-type: none"> <li>▪ Conduct online office hours</li> <li>▪ Encourage student groups to collaborate synchronously</li> </ul>	✓	✓	✓	✓	✓	★
Kahoot! <a href="#">Read Full Review</a>	<ul style="list-style-type: none"> <li>▪ Check for understanding during classroom lectures</li> <li>▪ Engage the students in a competitive "quiz"</li> </ul>	!	✓	✓	✓	—	☆
Learning Catalytics <a href="#">Read Full Review</a>	<ul style="list-style-type: none"> <li>▪ Assess student understanding of concepts</li> <li>▪ Encourage students to work together in groups</li> </ul>	✓	✗	!	!	✓	☆
Piazza <a href="#">Read Full Review</a>	—	!	✗	!	!	✗	—



# As an Integrated Experience

- Similar to the “Trip Advisor” experience
- We need to facilitate an “App advisor”

## Or an **App Catalog**

- This App Catalog, needs to be informative and behave like an modern web experience that enables Point and Click course integration


# UCLA's App Catalog

## UCLA App Store


BROWSE CATEGORIES SUBMIT AN APP YOUR SUBMISSIONS ADMIN LOGOUT

Search


### NEWS & EVENTS See More --




**UCLA Newsroom**  
This App displays News and special communications from the university.  
★★★★☆ [UCLA](#)



**Code for the Mission**  
Is an App Competition, with a goal of encouraging the UCLA community.  
★★★★☆ [UCLA](#)




**Happenings**  
UCLA Happenings lists performing arts, museums and galleries, films,  
★★★★☆ [UCLA](#)




**Daily Bruin**  
Since 1919, The Daily Bruin is a student run media outlet and has served as  
★★★★☆


### EDUCATION See More --




**UCLA Library Digital Collections**  
The UCLA Digital Library Program (DLP) serves as the catalyst for the creation,  
★★★★☆ [UCLA](#)



**Bruin Mobile**  
Bruin Mobile features many apps that are mobile friendly and available to  
★★★★☆ [UCLA](#)




**Anderson**  
This is the Anderson School dashboard  
★★★★☆ [UCLA](#)




**Online Polls**  
OPT-in for a FREE Online Polling Tool for UCLA with class roster support! OPT  
★★★★☆ [UCLA](#)


### RESEARCH See More --




**Research**  
Get the latest UCLA Research information  
★★★★☆ [UCLA](#)




**Aegaron**  
Browse ancient Egyptian architecture and drawings of historical sites  
★★★★☆




**UCLA News & Public Affairs**  
NAPA consists of over 100,000 news programs and broadcasts taped off the  
★★★★☆ [UCLA](#)



**UCLA Motion Picture Collections**  
Containing material dating back to the 1890s, the Archive's motion picture  
★★★★☆




**CA Cultures**  
California Cultures documents California's rich history of diversity and  
★★★★☆




**UCLA Grand Challenges**  
The UCLA Grand Challenges initiative connects faculty, students and  
★★★★☆ [UCLA](#)


### RESOURCES See More --



**Campus Wireless**  
This App is about how to get access to Campus Wireless Resources  
★★★★☆ [UCLA](#)



**Faculty Resources**  
This app features the resources and link to portals that a faculty member at  
★★★★☆ [UCLA](#)



**Box.com**  
UCLA Box Enterprise service provides a secure way to store and share files and  
★★★★☆ [UCLA](#)



# App Catalog Info Bar



## Kaltura Application Framework

### Store Categories

[Featured](#)

### Tags

online video platform

### Competencies

Student Upload

### Features

Video Platform, Web casting

4.0



1 total

Launch

Official	Tool Review Status	Support	Accessibility	Privacy	Security	Mobile Friendly	Supports LTI®	Supports Caliper™
✓	✓	✓	⊖	✓	✓		✓	—





**How is UCLA using  
an App Catalog to help manage  
it's apps?**

# Simulated Demo:



**Apps**  
Powered by *CASA*

Apps Plugin for MOODLE

# UCLA's Common Collaborative Learning Environment

The screenshot shows the UCLA CCLE website interface. The browser address bar displays <https://test.ccle.ucla.edu>. The page features a navigation sidebar on the left with the UCLA CCLE logo and the text "Common Collaboration & Learning Environment" and "SHARED SYSTEM". The main content area includes a "Browse by:" section with links for "Subject area", "Division", "Instructor", and "Collaboration sites". Below this is a "Search sites" section with checkboxes for "Collab" and "Course" under "Show:", and "Title" and "Description" under "Filter by:". A search input field is present. A green banner indicates "TEST Server" as of "May 23, 2016". A "Tips and Updates" section contains a notice dated January 25, 2016, regarding course administration. A "CCLE NOTICES" section provides information about system access and maintenance. The right side of the page features a large image of a UCLA building and navigation buttons for "Need Help", "You are not logged in", and "Log in". A "Spring 2016 - Week 9" indicator is also visible.

UCLA CCLE  
Common Collaboration & Learning Environment  
SHARED SYSTEM

Browse by:  
Subject area • Division • Instructor • Collaboration sites

Search sites  
Show:  Collab  Course  
Filter by:  Title  Description

Search...

TEST Server  
May 23, 2016

Tips and Updates  
\* January 25, 2016: Go to Course Administration = Recycle bin, where deleted items are held for up to 14 days.

CCLE NOTICES  
To gain access to this test server, please login with your UCLA LogonID and email Rex  
Saturday, October 10, 2015 from 12 a.m. - 4 a.m.  
CCLE system will not be available during this time due to emergency storage maintenance.

Need Help ? You are not logged in. Log in  
Spring 2016 - Week 9

Walk Me Through ^

# Editing A CCLE Course

The screenshot shows the UCLA CCLE course management interface. At the top, there is a navigation bar with 'UCLA CCLE' logo, 'Common Collaboration & Learning Environment', 'Need Help', and user information 'ROCCHIO, ROSEMARY Log out'. Below this, a 'SHARED SYSTEM' header indicates the current course is '15S-ENGL251-1 / Week 8 - Learning Impact 2016 demo' and the current term is 'Spring 2016 - Week 9'. A yellow warning banner states: 'You are viewing a site for a course that is no longer in session. Student access will expire at the end of Week 2 of the subsequent term.' The main content area is titled 'Romantic Writers' and includes a section for 'Week 8 - Learning Impact 2016 demo' with the text 'This Section is going to be demonstrated at Learning Impact 2016.' Below this, there is a list of Moodle Apps plugins: Andover Fulcrum, Library, VoiceThread, Online Polls, and ChemVantage. A blue arrow points to the 'Turn editing on' button in the top right corner of the course content area. A 'Control Panel' button is also visible next to it. A 'Walk Me Through' button is located in the bottom right corner.

Apps OUTLOOK 365

UCLA CCLE Common Collaboration & Learning Environment

Need Help ? ROCCHIO, ROSEMARY Log out

SHARED SYSTEM

Spring 2016 - Week 9

Turn editing on Control Panel

15S-ENGL251-1 / Week 8 - Learning Impact 2016 demo

## Romantic Writers

Spring 2015 - ENGL251-1 - LORENZO / MANIQUIS / ROCCHIO / SAKABU / SELSKY / TRANCE

You are viewing a site for a course that is no longer in session. Student access will expire at the end of Week 2 of the subsequent term.

### Week 8 - Learning Impact 2016 demo

This Section is going to be demonstrated at Learning Impact 2016.

Moodle Apps Plugin = LTI tool Catalog with Data Driven LMS Student "Opt-in" to unofficial tools

(Private Course Material)

- Andover Fulcrum
- Library
- VoiceThread
- Online Polls
- ChemVantage

Walk Me Through ^



# The Apps Plugin

UCLA CCLE Common Collaboration & Learning Environment

155-ENGL251-1 / Week 8 - Learning Impact 2016 demo

Modify sections  
Rearrange materials  
Manage copyright 1

Syllabus (empty)  
Site info >  
Rex's OPT tests >  
Week 2 >  
Week 3 >  
Week 4 >  
App testing (5/19/16) >  
Week 6 >  
Week 7 >  
Week 8 - Learning Impa... >  
Week 9 >  
Week 10 >  
Show all >  
Library Research Guide  
ENGL links  
External tools  
External tools  
Files  
Forums

## Romantic Writers

Spring 2015 - ENGL251-1 - LORENZO / MANIQUIS / ROCCHIO / SAKAE

You are viewing a site for a course that is no longer in session

### Week 8 - Learning Impact 2016 demo

Upload file Add link Add text Add subheading

This Section is going to be demonstrated at Learning Impact 2016

### Learning Impact 2016 Demo

Apps Plugin = LTI tool Catalog with  
Data Driven LMS Student "Opt-in"  
for unofficial Cloud tools

(Private Course Material)

- Andover Fulcrum
- Library
- VoiceThread
- Opt Online Polls
- ChemVantage

Add an activity or resource

ACTIVITIES

- Apps
- Assignment
- Attendance
- Blackboard Collaborate
- Certificate
- Chat
- Choice
- Database
- External tool
- Feedback
- Forum
- Glossary
- HotPot
- Kaltura Media
- Assignment
- Lesson

Add Cancel





# Find, Review, & Add App

**UCLA CCLE** Common Collaboration & Learning Environment Need Help ? ROCCHIO, ROSEMARY Log out

SHARED SYSTEM Spring 2016 - Week 9 Control Panel


🏠 / 15S-ENGL251-1

Administration

- Course administration
  - Turn editing off
  - Edit settings
  - Users
  - Unenroll me from 15S-ENGL251-1
  - Filters
  - Reports
  - Grades
  - Badges
  - Backup
  - Restore
  - Import
  - Question bank
  - Repositories
    - Kaltura Media Gallery
  - Recycle bin
- Switch role to...
- My profile settings
- Site administration

Add a block

Add...



## Kaltura Application Framework

☆☆☆☆☆  
0 total



[Add](#)

Store Categories  
[Featured](#)

Tags  
online video platform

Competencies  
Student Upload

Features  
Video Platform, Web casting

Official	Support	Accessibility	Privacy	Security	Mobile Friendly	Supports LTI®	Supports Caliper™
✓	✓	✓	—	✓	 	✓	—

DESCRIPTION

Kaltura is the world's first Open Source Online Video Platform, providing both enterprise level commercial software and services, fully supported and maintained by Kaltura, as well as free open-source community supported solutions, for video publishing,



# NGDLE Plug & Play via CASA

- Site info >
- Rex's OPT tests >
- Week 2 >
- Week 3 >
- Week 4 >
- App testing (5/19/16) >
- Week 6 >
- Week 7 >
- Week 8 - Learning Impa...** >
- Week 9 >
- Week 10 >
- Show all >
- Library Research Guide
- ENGL links
- External tools
- External tools
- Files
- Forums
- URLs

## Romantic Writers

Spring 2015 - ENGL251-1 - LORENZO / MANIQUIS / ROCCHIO / SAKABU / SELSKY / TRANCE

You are viewing a site for a course that is no longer in session. Student access will expire at the end of Week 2 of the subsequent term.

### Week 8 - Learning Impact 2016 demo

This Section is going to be demonstrated at Learning Impact 2016.

### Learning Impact 2016 Demo:

Apps Plugin = LTI tool Catalog with  
Data Driven LMS Student "Opt-in"  
for unofficial Cloud tools

(Private Course Material)

Andover Fulcrum - unofficial Tool

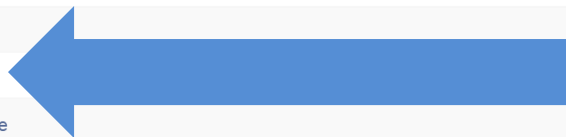
Library

VoiceThread

Online Polls

ChemVantage

Kaltura Application Framework



# Launches Official Tools

The screenshot displays the UCLA CCLE Opt dashboard. At the top, the header includes the UCLA CCLE logo (Common Collaboration & Learning Environment), a 'Need Help' link, the user name 'ROCCHIO, ROSEMARY', and a 'Log out' button. Below the header, the page is identified as a 'SHARED SYSTEM' for 'Spring 2016 - Week 9'. The breadcrumb trail shows the user is in the '15S-ENGL251-1 / Week 8 - Learning Impact 2016 demo / Online Polls' section, with a 'Control Panel' button nearby. A yellow warning banner states: 'Fear not: You're currently on the staging server!'. The user's profile 'ROCCHIO' is visible with a 'Logout' option. The main navigation bar features the 'Opt' logo, 'Create A Poll' (+), 'Manage Groups' (eye icon), 'Dashboard' (clock icon), and a 'Search Polls...' input field with a search icon. The dashboard is divided into three main sections: 'Administration' (with a sidebar menu for Apps, Course, Profile, and Site administration), 'Search Polls' (with a search input and 'Submit' button), and 'My Polls' (listing 'Flavors' and 'Test Poll' with 'Take Poll' buttons). The 'Open Polls' section displays two active polls: 'Flavors' and 'Favorite Color', both from May 20, 2016, with 3 responses each. Each poll has 'Manage' and 'Results (public)' buttons. A 'View more...' button is located at the bottom of the 'Open Polls' section.

**UCLA CCLE** Common Collaboration & Learning Environment

Need Help ? ROCCHIO, ROSEMARY Log out

SHARED SYSTEM Spring 2016 - Week 9

Home / 15S-ENGL251-1 / Week 8 - Learning Impact 2016 demo / Online Polls Control Panel

Administration Administration

- Apps administration
  - Edit settings
  - Submissions
  - Locally assigned roles
  - Permissions
  - Check permissions
  - Filters
  - Logs
  - Backup
  - Restore
- Course administration
- Switch role to...
- My profile settings
- Site administration

Fear not: You're currently on the **staging** server!

UCLA • ROSEMARY ROCCHIO <rrocchio@oit.ucla.edu> ROCCHIO Logout

**Opt** Create A Poll + Manage Groups Dashboard Search Polls...

## Dashboard

### Search Polls

Search polls...

Submit

### My Polls

- Flavors** May 20 2016 1:01 pm Take Poll
- Test Poll** May 20 2016 1:00 pm Take Poll

### Open Polls

- Flavors** May 20 2016 3 responses Manage Results (public)
- Favorite Color** May 20 2016 3 responses Manage Results (public)

View more...

# Unofficial Tools ?

- Why would you have them in your catalog?
- What does doing that give you?
  - Ability to provide “opt-in”
  - Ability to deliver privacy options in the cloud
  - Tracking of how many courses are using the tool

# Deliver opt-in Privacy in the Cloud

- Unofficial Tools require an “Opt-In” from Students

The screenshot shows a web application interface for UCLA CCLE. The header includes the UCLA CCLE logo, the text "Common Collaboration & Learning Environment", a "Need Help" button, the user name "ROCCHIO, ROSEMARY", and a "Log out" button. Below the header, the page is titled "SHARED SYSTEM" and "Spring 2016 - Week 9". The breadcrumb trail shows the path: "15S-ENGL251-1 / Week 8 - Learning Impact 2016 demo / Andover Fulcrum". A "Control Panel" button is visible in the top right. On the left, there is a navigation menu with "Administration" selected, showing sub-items like "Apps administration", "Edit settings", "Submissions", "Locally assigned roles", "Permissions", "Check permissions", "Filters", "Logs", "Backup", and "Restore". The main content area is titled "Privacy Waiver for Andover Fulcrum". It contains a light blue box with the following text: "Before you may continue you must agree to the following statements." followed by three bullet points: "I understand that by providing personal and academic information on this web site I am providing this information to third parties not affiliated with this institution.", "By providing personal or academic information I understand that I am publicly acknowledging my status as a student and my association with this institution.", and "By providing personal or academic information on this web site I understand that I am waiving my rights to privacy." Below the text are two buttons: "I agree" and "I disagree (Please contact your instructor)". At the bottom, there is a link for more information: "(For more information go to <http://www2.ed.gov/policy/gen/guid/fpco/ferpa/index.html>)".

UCLA CCLE Common Collaboration & Learning Environment

Need Help ? ROCCHIO, ROSEMARY Log out

SHARED SYSTEM Spring 2016 - Week 9

Control Panel

Administration

- Apps administration
  - Edit settings
  - Submissions
  - Locally assigned roles
  - Permissions
  - Check permissions
  - Filters
  - Logs
  - Backup
  - Restore
- Course administration
- Switch role to...
- My profile settings
- Site administration

## Privacy Waiver for Andover Fulcrum

Before you may continue you must agree to the following statements.

- I understand that by providing personal and academic information on this web site I am providing this information to third parties not affiliated with this institution.
- By providing personal or academic information I understand that I am publicly acknowledging my status as a student and my association with this institution.
- By providing personal or academic information on this web site I understand that I am waiving my rights to privacy.

I agree I disagree (Please contact your instructor)

(For more information go to <http://www2.ed.gov/policy/gen/guid/fpco/ferpa/index.html>)


# CASA opt-in – FERPA waiver

- Allow Students to Opt-in
- Future:
  - Allow students to opt-in with an Alias
  - Allow students to pass a preference on how they would like to consume the tool/content (say with Zoom text...)

The screenshot shows the UCLA CCLE interface. At the top, there is a navigation bar with 'UCLA CCLE Common Collaboration & Learning Environment' on the left, 'Need Help' with a question mark icon, 'ROCCHIO, ROSEMARY', and 'Log out' on the right. Below the navigation bar, the page is titled 'SHARED SYSTEM' and 'Spring 2016 - Week 9'. The main content area is titled 'Privacy Waiver for Andover Fulcrum'. On the left, there is a sidebar menu with 'Administration' expanded, showing options like 'Apps administration', 'Edit settings', 'Submissions', 'Locally assigned roles', 'Permissions', 'Check permissions', 'Filters', 'Logs', 'Backup', and 'Restore'. Below the sidebar, there are links for 'Course administration', 'Switch role to...', 'My profile settings', and 'Site administration'. The main content area contains a light blue box with the following text: 'Before you may continue you must agree to the following statements.' followed by three bullet points: 'I understand that by providing personal and academic information on this web site I am providing this information to third parties not affiliated with this institution.', 'By providing personal or academic information I understand that I am publicly acknowledging my status as a student and my association with this institution.', and 'By providing personal or academic information on this web site I understand that I am waiving my rights to privacy.' Below the text are two buttons: 'I agree' and 'I disagree (Please contact your instructor)'. At the bottom of the page, there is a note: '(For more information go to <http://www2.ed.gov/policy/gen/guid/fpco/ferpa/index.html>)'.



# CASA on Rails Review data



## The Matrix App - Unofficial

Tags  
media









Competencies  
Uploading, Self - serve

Features  
video platform, web casting


☆☆☆☆☆  
0 total

Add

Edit Destroy

Official	Support	Accessibility	Privacy	Security	Mobile Friendly	Supports LTI®	Supports Caliper™
							

### Info Bar Status

<input checked="" type="radio"/>  Recommended for use	<input type="radio"/>  Use with caution	<input type="radio"/>  Not recommended	<input type="radio"/>  In progress
--	--	---	---

# How do we share this meta data across Higher Ed?

We can use **CASA** to *“peer”* with  
other App Catalogs!



**CASA (Community App Sharing Architecture)**  
is an IMS Global Standard to share  
**Cloud/Web/Mobile app meta data**

# What is CASA?

**CASA stands for 'Community App Sharing Architecture' and it is an IMS Global Standard to share Cloud/Web/Mobile app meta data**



The diagram illustrates the CASA network as a collection of interconnected nodes, each represented by a house icon with a CASA logo. The nodes are connected by dashed lines, representing the sharing of digital content and learning activities. The nodes include:

- Blackboard
- UMIC
- YORK U
- OAKLAND UNIVERSITY
- MIT OCW
- NC STATE UNIVERSITY
- difference engine
- ESIS
- UCLA
- IMS GLOBAL Learning Consortium
- EdinAppCenter
- UC San Diego
- CDL
- UC SANTA CRUZ
- Berkeley

Labels on the connections include "Moodle Tool Sharing", "OER", "Learning Tools", "Digital Assets", "Special Collections", and "LTI Tools".

Open source CASA implementation, CASA on Rails: [github.com/ucla/casa-on-rails](https://github.com/ucla/casa-on-rails)

# CASA the Standard allows HE to

- Share Homegrown tools
- Share Cloud Tool Reviews & Meta Data about:
  - Privacy
  - Accessibility
  - Security
  - Licensing
  - LTI Versions
  - Caliper Metric Profile Streams

# Goals in the UC

- Share Cloud Reviews within UC system
- Share Homegrown Tools with each other
- Share Configuration of Tools
- Instruct Tools on LRS Endpoint once
- Deliver opt-in Privacy in the Cloud

# Accessibility Reviews

Accessibility
<a href="#">Accessibility Policy URL (?)</a> <input type="text"/>
<a href="#">VPAT URL (?)</a> <input type="text"/>
<a href="#">WCAG URL (?)</a> <input type="text"/>
<b>WCAG 2.0 Guideline Adherence</b>
<i>In this section, the <a href="#">WCAG 2.0 Guideline Success Criteria</a> that the app meets can be optionally be selected for the app. Each requirement also allows a conforming alternate both a non-conforming version and a way to access a <a href="#">conforming alternate version</a>.</i>
<b>1.1 Text Alternatives</b>
1.1.1 – Non-text Content – Level A 1.1-conforming-alternate-version
<b>1.2 Time-Based Media</b>
1.2.1 – Audio-only and Video-only – Level A 1.2.2 – Captions (Prerecorded) – Level A 1.2.3 – Audio Description or Media Alternative (Prerecorded) – Level A 1.2.4 – Captions (Live) – Level AA
<b>1.3 Adaptable</b>
1.3.1 – Info and Relationships – Level A 1.3.2 – Meaningful Sequence – Level A 1.3.3 – Sensory Characteristics – Level A 1.3-conforming-alternate-version
<b>1.4 Distinguishable</b>
1.4.1 – Use of Color – Level A 1.4.2 – Audio Control – Level A 1.4.3 – Contrast (Minimum) – Level AA 1.4.4 – Resize Text – Level AA



# Links



- <http://imglobal.github.io/casa/learn/tutorial/publish/>
- Current Protocol Link:  
<http://imglobal.github.io/casa-protocol>
- CASA Mailing list link: <http://www.imglobal.org/casa/>

**UCLA**

CASA on Rails (available **FREE** – AGPL):

- @ Github: <https://github.com/ucla/casa-on-rails>
- CHEF : <https://github.com/ucla/chef-casa-on-rails-cookbook>

# Questions?

Feel free to drop us a note @

–Rose Rocchio: [rrocchio@ucla.edu](mailto:rrocchio@ucla.edu)

–Nick Thompson: [nthompson@oid.ucla.edu](mailto:nthompson@oid.ucla.edu)

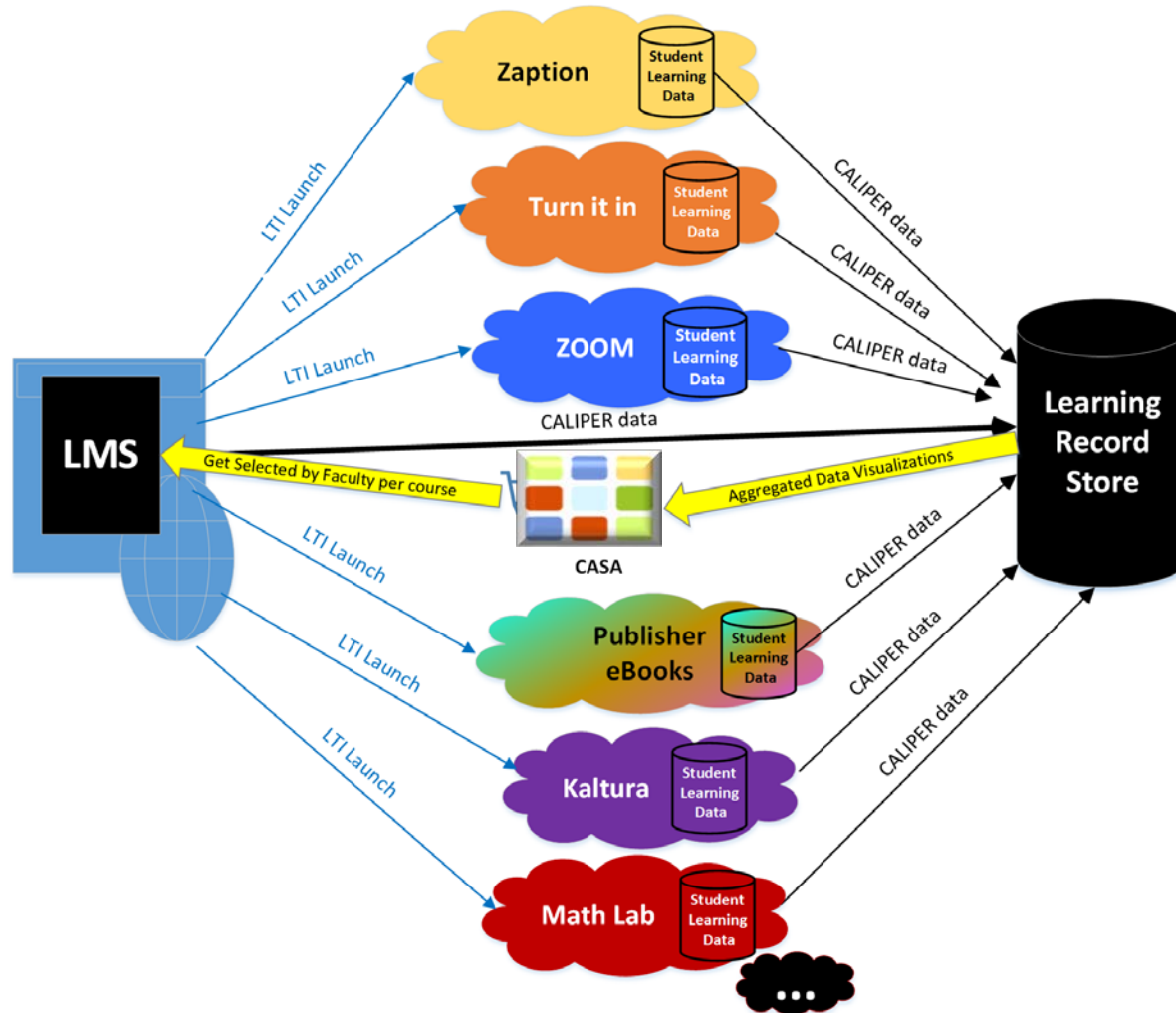
–Rex Lorenzo: [rex@oid.ucla.edu](mailto:rex@oid.ucla.edu)

# Appendix

# CASA Json

```
[[{"identity": {"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "1f122231c63ec36f52ed7b387c6fd6c", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/courses/chemistry/5-72-statistical-mechanics-spring-2012/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "Statistical Mechanics", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "This course discusses the principles and methods of statistical mechanics. Topics covered include classical and quantum statistics"}, {"require": [{"identity": {"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "16ebcab49b2a88cc2026037cdcb7b3110", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-003-signals-and-systems-fall-2011/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "Signals and Systems", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "This course covers fundamentals of signal and system analysis"}, {"require": [{"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "91809b879501eabd395c0d719a6e18", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/courses/mechanical-engineering/2-96-management-in-engineering-fall-2012/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "Management in Engineering", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "This course serves as introduction to engineering management. Topics include financial principles"}, {"require": [{"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "526ed354a5d2c0d6e571311301f398f", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/courses/engineering-systems-division/esd-36-system-project-management-fall-2012/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "System and Project Management", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "The course is designed for students in the System Design and Management (SDM) program and therefore assumes that you already have a basic knowledge of project management. The objective is to introduce advanced methods and tools of project management in a realistic context such that they can be taken back to the workplace to improve management of development projects. In contrast to traditional courses on the subject we will emphasize scenarios that cannot be fully predicted such as task iterations"}, {"require": [{"identity": {"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "0e27798cb087758855279f047a59ae1", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/courses/sloan-school-of-management/15-872-system-dynamics-ii-fall-2013/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "System Dynamics II (MIT)", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "15.872 is a continuation of 15.071 Introduction to System Dynamics. It emphasizes tools and methods needed to apply systems thinking and simulation modeling successfully in complex real-world settings. The course uses simulation models"}, {"require": [{"identity": {"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "53403777cb43e2493b00ba54344aaf69", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/courses/music-and-theater-arts/21m-220-early-music-fall-2010/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "21M.220 Early Music (MIT)", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "This course examines European music from the early Middle Ages until the end of the Renaissance. It includes a chronological survey and intensive study of three topics: chant and its development"}, {"require": [{"identity": {"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "90b30e0d4fa23250442d6be62fa28", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/courses/earth-atmospheric-and-planetary-sciences/12-010-computational-methods-of-scientific-programming-fall-2011/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "Computational Methods of Scientific Programming", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "This course covers the theory and practice of scientific computing"}, {"require": [{"identity": {"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "1f2625c2-615f-11e3-bf13-d231febd81", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/courses/economics/14-432j-mortgage-backed-securities-fall-2007/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "Mortgage Backed Securities", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "REIT"}, {"require": [{"identity": {"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "229382d64df05296d1bebe0469a50e", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/courses/mechanical-engineering/2-086-numerical-computation-for-mechanical-engineers-spring-2012/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "2.086 Numerical Computation for Mechanical Engineers (MIT)", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "This class introduces elementary programming concepts including variable types"}, {"require": [{"identity": {"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "f75f6cd89e0268990d9e967cc646b18a", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/courses/concourse/c0-111-modern-conceptions-of-freedom-spring-2013/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "C0.111 Modern Conceptions of Freedom (MIT)", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "This course examines the modern definition of freedom"}, {"require": [{"identity": {"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "b1743272e3ec5270a56902ad74683a3", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/courses/comparative-media-studies/cms-405-media-and-methods-seeing-and-expression-spring-2013/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "CMS.405 Media and Methods: Seeing and Expression (MIT)", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "In this course students create digital visual images and analyze designs from historical and theoretical perspectives with an emphasis on art and design"}, {"require": [{"identity": {"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "0192ff8c3320517c1eb59c0876e947f", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/resources/res-t11-004-stem-concept-videos-fall-2013/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "Singapore University of Technology and Design (SUTD) Stem Concept Videos", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "RES.T11-004 STEM Concept Videos (MIT)"}, {"require": [{"identity": {"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "084fed942324a2050eff682e616e930", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/courses/economics/14-432j-mortgage-backed-securities-fall-2007/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "Mortgage Backed Securities", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "Investment"}, {"require": [{"identity": {"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "a76d6a8bfd82f8c8ae652b23957f7", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/courses/comparative-media-studies-writing/21w-730-writing-on-contemporary-issues-social-and-ethical-issues-spring-2010/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "21W.730 Writing on Contemporary Issues: Social and Ethical Issues (MIT)", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "This course provides the opportunity for students-as readers"}, {"require": [{"identity": {"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "0e9b541ee0ca0f86878413a1217164c5", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/courses/mechanical-engineering/2-737-mechatronics-spring-1999/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "2.737 Mechatronics (MIT)", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "This course explores the intersection of mechatronics and control systems engineering"}, {"require": [{"identity": {"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "934cfb1016a72ba07f055674", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/courses/urban-studies-and-planning/11-309-sensing-place-photography-as-inquiry-fall-2012/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "11.309 Sensing Place: Photography as Inquiry", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "This course explores photography as a disciplined way of seeing"}, {"require": [{"identity": {"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "7a05513ed724f9e291a88bf79128a0fa", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/courses/comparative-media-studies-writing/21w-730-writing-on-contemporary-issues-social-and-ethical-issues-spring-2010/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "Writing on Contemporary Issues: Social and Ethical Issues", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "Our best writing happens when we care passionately about our topics. That sense of passion often emerges in relation to social problems"}, {"require": [{"identity": {"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "44a81dcbca89b31ca9f1014798e11", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/courses/brain-and-cognitive-sciences/9-00sc-introduction-to-psychology-fall-2011/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "9.00SC Introduction to Psychology (MIT)", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "This course explores the science of perception"}, {"require": [{"identity": {"originator_id": "ddda7b83-6e49-4fee-a479-5d77e5bd6b85", "id": "e43f13758345259ebec9c16232d282fe", "original": {"timestamp": "2015-06-16T20:34:13.874Z", "uri": "http://ocw.mit.edu/courses/nuclear-engineering/22-081j-introduction-to-sustainable-energy-fall-2010/"}}, {"share": true, "propagate": true, "use": {"1f2625c2-615f-11e3-bf13-d231febd81": "22.081J Introduction to Sustainable Energy (MIT)", "d59e3a1f-c034-4309-a282-60228089194e": [{"name": "Massachusetts Institute of Technology"}]}, {"b7856963-4078-4698-8e95-8feceafe78da": "This course explores the science of energy resource assessment"}]}}]]
```

# Protect Data going into the Cloud & Map it Back to students in the LMS





# CASA Standard Roadmap

- LTI Attribute Validation
- Accessibility Attribute Validation
- Accessibility Review Sharing
- CASA Instance Conformance Test
- Global CASA Registry
- Caliper Attribute Validation



# Share Tool Configurations

[Toggle debug data](#)

## LTI launch endpoint

<https://staging.onlinepoll.ucla.edu/auth/lti/launch>

## LTI launch parameters

```
oauth_version = 1.0
oauth_nonce = 08a1938d8a4f14780995aaaf1dc2466b
oauth_timestamp = 1463764266
oauth_consumer_key = demo
resource_link_title = Online Polls (debugging enabled)
resource_link_description =
user_id = 8504
lis_person_sourcedid = 202734107
roles = Instructor
context_id = 2195
context_label = 15S-ENGL251-1
context_title = Romantic Writers
context_type = CourseSection
lis_course_section_sourcedid =
lis_result_sourcedid = {"data":{"instanceid":"42","userid":"8504","typeid":null,"launchid":1984124592},"hash":"73933"}
lis_person_name_given = ROSEMARY
lis_person_name_family = ROCCHIO
lis_person_name_full = ROSEMARY ROCCHIO
ext_user_username = rrocchio@ucla.edu
lis_person_contact_email_primary = rrocchio@oit.ucla.edu
resource_link_id = 42
launch_presentation_locale = en_us
ext_lms = moodle-2
tool_consumer_info_product_family_code = moodle
tool_consumer_info_version = 2014051214
oauth_callback = about:blank
lti_version = LTI-1p0
lti_message_type = basic-casa-launch-request
tool_consumer_instance_guid = test.ccle.ucla.edu
tool_consumer_instance_name = CCLE TEST
custom_event_store_url = http://example.com/lrs
custom_event_store_api_key = 123456789
custom_sso_type = Shibboleth
custom_sso_idp_url = http://example.com/idp
launch_presentation_document_target = window
launch_presentation_return_url = https://test.ccle.ucla.edu/mod/casa/return.php?course=2195&launch_container=4&inst
oauth_signature_method = HMAC-SHA1
oauth_signature = lpxSK+a/cSyXAx7pQ4S2keo31ds=
```

### Supports LTI

  
**Set As Default Config (?)**  
  
**Launch URL (?)**  
  
**Configuration URL (?)**  
  
**Registration URL (?)**  
  
**Version (?)**  
  
**OAuth Key (?)**  
  
**OAuth Secret (?)**  
  
**LIS Outcomes (?)**  
  
**Launch Params (?)**

# Configure LRS Endpoint in 1 place

## Edit LTI Consumer

**Name**

**Key**


**Secret**

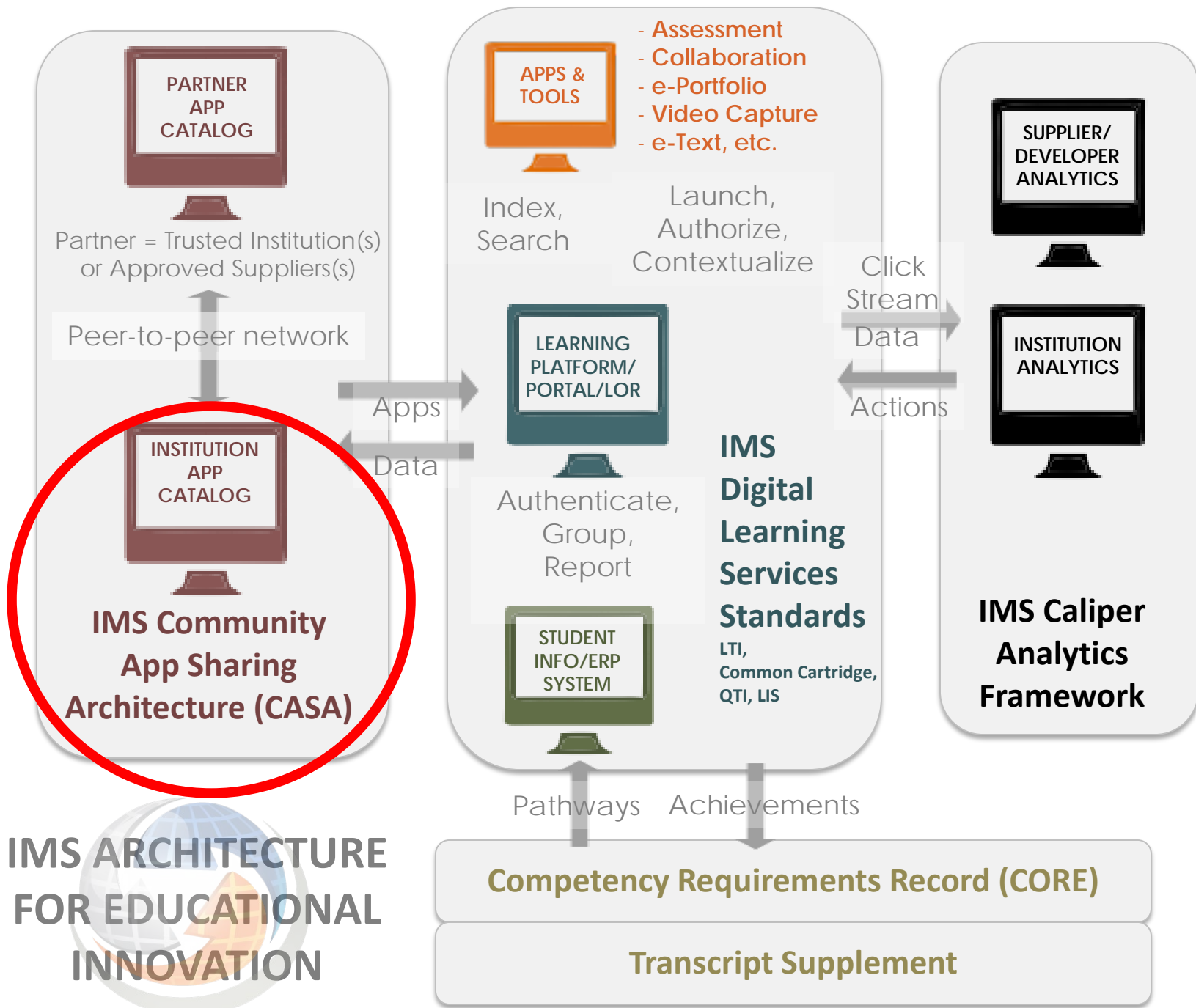
**Event Store URL**

**Event Store API Key**

**SSO Type**

**SSO Identity Provider URL**





**IMS ARCHITECTURE FOR EDUCATIONAL INNOVATION**