Learning Tools Interoperability

LTI for Educators
So Many Digital Applications, Content and Tools!

Institutions want a one stop shop for their users to access all the digital resources available, but how can an IT department manage this with limited personnel and resources?
LTI and LTI Advantage: Learning Innovation at the Speed of Now

- Learning Tools Interoperability® (LTI®) connects learning platforms with digital apps, tools and content seamlessly and without the need for custom integrations.

- LTI Advantage is a package of key LTI extensions that support teaching and learning activities, such as the provisioning of usernames and roles so a tool can intelligently address the learner on launch, and the sharing of assignments from a platform to an assessment tool and the subsequent scores back to a central gradebook.
What is LTI, Really?

LTI is a common technical ‘language’ used to navigate among systems and tools, exchanging data between them.
Three Key Features of LTI

Connect

Confirm

Exchange
Securely **connect** learning platforms and tools, e.g.

- Publisher content
- Specialized “labs”
- Assessment tools
- Plagiarism detectors
- Any certified compliant teaching and learning tool
Confirm the tool, the user and context

- Tool is trusted, verifies users are allowed to access
- Uses institutional/LMS signon credentials
Exchange information in a teaching and learning workflow

Course Content

Exchange

Assignments

Grades

Class Lists
LTI’s Essential Features

- Learning Platform
- LTI
- Learning Tools

Connect

Launch

Confirm

Exchange
LTI Advantage Builds on LTI for the Trusted Exchange of Teaching & Learning Activities

- **Names and Role Provisioning Services**: Enables sending a list of course participants and faculty defined groups to learning tools.
- **Deep Linking**: Enables a more intuitive way to add content and links to a platform from a learning tool or publisher content.
- **Assignment and Grade Services**: Enables passing of assignment results from the tool back to the LMS.
LTI Advantage: Deep Integrations at the Speed of Now

- Makes it easier to innovate and meet the unique learning needs of students
- Saves time spent provisioning courses
- Dramatically reduces integration times
Assignment and Grade Services

Enables faculty to sync grades and comments in third-party tools into a single place, such as the LMS gradebook, which gives students and faculty a clearer picture of learning progress in one place.

- Gradable assignments shared with tool
- Numeric scores returned to LMS gradebook
- Assessor’s comments returned if provided
- Multiple results supported in a single exchange
- Instructor override and history of attempts allowed
Deep Linking

Simplifies the arduous task of selecting and adding links to content when developing a course, including deep integration to collections of content such as playlists and a table of contents.

- Select and add course content in a few clicks
- Add playlists and tables of content
- Enable links and other HTML content
- Add pre-registered tools with a few clicks
Names and Role Provisioning Services

Automates course enrollment into a third-party tool in a safe and secure manner, and allows faculty to receive reporting on student activity within the tool.

- Exchange a list of users and their roles
- Provision a learner using LTI’s secure exchange
- Learn who has not yet accessed a tool
Thin Common Cartridge: Content from the Cloud

LTI links and searchable metadata
LTI is compatible with your sign-on systems

- IMS standards, including LTI, are 100% compatible with authentication standards including SAML, Active Directory/ADFS and the OAUTH2 framework.

- IMS standards authenticate the tool and pass on the already-authenticated users’ information and role between the platform and external tool.
Recommended LTI Adoption Roadmap

- Adopts the industry standard protocol, OAuth2 for authentication services, and JSON Web Tokens (JWT) for secure message signing.
- The best framework for IMS’ updated security model is LTI 1.3.
A Connected Ecosystem: IMS Standards in Action
Are your suppliers IMS Certified?
Are your suppliers IMS Certified?

“The reality is, we won’t seek to be certified unless our customers require it. Then we will.”

-Learning Platform Executive
Insist on Certified LTI Products

Reliability **Guaranteed backing of expert IMS technical staff**

Security and Privacy **Secure and controllable data exchange**

Usability **Tool integrations that meet the highest industry standards**

Choice **Virtual catalog of certified-compatible teaching and learning tools and digital curriculum**
Additional Resources

● LTI & LTI Advantage Technical Activity
● LTI 1.3 Implementation Reference Tool
● 5 Ways LTI Advantage Enables Better User Experiences
● Sample RFP Language and Checklists
Learning Tools Interoperability®

LTI® for Educators

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