Moving from SCORM to Experience API (xAPI)

The SCORM to xAPI Roadmap

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What if I’m not starting from a blank slate?
SCORM to xAPI Roadmap
Defining a progression from SCORM to Experience API
Roadmap “Phases”

Each Contains:

- Description
- “For you if...” bullets help determine if a certain phase is right for you
- Benefits of moving to the phase
- Information on how to transition from the prior phase
- Resources and examples
Phase 0
SCORM
Phase 0 - SCORM
For you if...

- your LMS is the immutable center of your organization’s learning architecture
- you rely on authoring tools or content developers that create SCORM content
- you need to protect investments in existing SCORM-conformant content
- your learning/training is primarily (or solely) web-based and single learner
- you have little to no budget or resources for updates of learning systems or courses
- you have a requirement from a stakeholder to use SCORM
Benefits

- Many organizations already have a SCORM-conformant LMS so investment could be minimal.
- SCORM is widely adopted so there are many tools available that use SCORM formats.
- Many ISDs and content developers are aware of SCORM and know how to design and develop SCORM courses.
- Requires little to no change to the current practices.
- SCORM is a mature specification (ISO technical report), so it is stable without frequent changes.
Transitioning to this Phase
Phase 1
SCORM + xAPI (LMS-Centric)
Phase 1 – SCORM + xAPI (LMS-Centric)
For you if...

- your organization has a heavy reliance on an LMS as the center of your e-learning architecture
- your authoring tools or content developers are primarily used to creating SCORM content
- your organization needs to protect a large investment in existing SCORM-Conformant content
- your learning and training is primarily (or solely) web-based and single learner
- your organization is seeking to invest in modern learning technologies in near future
- the data reporting or analytics using LMS-provided reports is not sufficient for organizational needs
- you want to track additional information about a learner’s interaction with a SCORM course that is not possible with the SCORM Run-Time.
Benefits

• SCORM is widely adopted so there are many tools available that use SCORM formats

• Many ISDs and content developers are aware of SCORM and know how to design and develop SCORM courses

• Causes no changes to SCORM tracking, still interoperable with the SCORM.

• Requires minimal change to existing courses to begin dual-tracking

• LRS exposes learning data via standardized interface

• LRS persists and allows access to multiple attempts and changes in data value state

• LMS is still the primary data store for SCORM data

• LRS allows tracking of additional (non-SCORM) data as defined by the organization
Transitioning to this Phase

- Update content to report data to an LMS and an LRS
- Acquire/build/install and configure an LRS
- Begin following practices as expressed in the SCORM to xAPI Profile
- Create reports, dashboards, analytics, etc. as needed
Phase 2
SCORM + xAPI
(LRS-Centric)
Phase 2 – SCORM + xAPI (LRS-Centric)
For you if...

• your organization relies on an LMS but mainly for existing integrations with other systems

• your authoring tools or content developers create SCORM content, but also invest in content managed outside of the LMS

• your organization is beginning to use mobile apps, simulations, games or other non-web-based content.

• your organization is investing in modern learning technologies and has an LRS available

• data reporting or analytics using LMS-provided reports is not sufficient for organizational needs

• your organization desires to track additional information about a learner’s interaction with a SCORM course that is not possible with the SCORM
Benefits

• Can support content that is not managed by an LMS: mobile, simulations, games, etc.
• Can track data about individual learners, groups of learners, teams, instructors, mentors, peer, etc.
• LRS exposes learning data via standardized interface for reports and analytics
• LRS allows tracking of additional (non-SCORM) data as defined by the organization
• LMS becomes a less critical part of the organization, allowing the organization to begin to support a SaaS approach to their learning environment.
• Can begin to integrate with other components more easily
Transitioning to this Phase

• Configure your LMS to pull data from your LRS (or vice versa)

• Move away from having to have content report directly back to the LMS (as LMS will pull data from LRS)

• Enable content “launching” to be handled outside of the LMS

• Determine content and user access and authentication
Phase 3
Training & Learning Architecture (TLA)
Roadmap Resources
xAPI SCORM Profile

• Documents usage guidelines to generate consistent and predictable Statements
• Contains mapping of SCORM data model elements to xAPI
• Describes how to represent SCORM temporal model in xAPI Statements
• Contains example Statements for typical SCORM values
SCORM to xAPI Wrapper

- Open source JavaScript wrapper designed to replace the SCORM API Wrapper used in many SCORM content
- Listens for communication with the LMS and sends xAPI statements as described in the SCORM Profile
- Configurable to work with different LRSs
CMI 5
Q&A

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