

Tracking individual learner activity/resource use and results /performance across systems, sites, and organizations

Use case title: Tracking individual learner activity/resource use and results/performance across systems, sites, and organizations

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ID	XIG-010
Title	Tracking individual learner activity/resource use and results/performance across systems, sites, and organizations
Actors	Learner External system - Instructional system such as a Learning Management System (LMS) or Virtual Patient System (VPS), electronic Portfolio, or other system delivering or recording learning activity or content and achievements Learning Record Store (LRS)
Trigger event	The learner interacts with a learning activity or resource hosted on an instructional system, uploads evidence of achievement to an online store or electronic portfolio, or initiates a log/record of activity
Success end condition	The LRS tracks the learner's activity and where appropriate records measure of their performance
Assumptions	The activity/resource is capable of generating XAPI messages or has a companion application that generates XAPI messages. The instructional system is able to send XAPI messages to the LRS; there are no access problems The learner is authenticated or identified to the instructional system. The instructional system is indicated in the context of the XAPI messages or the instructional system is authenticating to the LRS. If the instructional system is not the "home" institution, the agent offering the activity may be indicated as the authority asserting that the individual did what the statement says they did.
Description	The learner begins a learning activity or resource hosted on an instructional system. The instructional system sends a message to the LRS indicating that the learner started the course. The instructional system sends a message to the LRS recording a learner action (ie a response to a question, a choice in the learning path, etc). The learner completes a portion of the learning activity or resource. The instructional system sends a message to the LRS indicating that the learner completed a specific portion of the learning activity or resource. The learner completes an assessment included in the learning activity or resource. The instructional system sends a message to the LRS indicating that the learner completed the specific assessment and the score OR percentage correct the learner received. OR The instructional system sends a message to the LRS indicating that the learner passed the specific assessment. OR The instructional system sends a message to the LRS indicating that the learner failed the specific assessment. OR The instructional system sends a message that the learner suspended, terminated, or resumed the activity. Are there other things we want to track that should be captured here? Organization or site? the instructional system? (Note: competence assessment data may be included see use case XIG-050.)

Transaction	<p>The instructional system sends a message to the LRS indicating that the learner started the course.</p> <p>The instructional system sends a message to the LRS indicating that the learner completed a specific portion of the learning activity or resource.</p> <p>The instructional system sends a message to the LRS indicating that the learner completed the specific assessment and the score the learner received.</p> <p>The instructional system sends a message to the LRS indicating that the learner passed or failed the specific assessment.</p>
Exceptions	<p>If the learner does not complete the course or the assessment, a message does not get sent.</p> <p>The instructional system is not able to send the message to the LRS; access is denied.</p> <p>Could there be problems resolving learner identity? activity or resource identity? Are there other exceptions we should document?</p>
Potential Standards	<p>XAPI using ADL verbs and objects</p>