

Track activities that integrate multiple learning or simulation modalities or instances

Use case title: Track activities that integrate multiple learning or simulation modalities or instances

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ID	XIG-030
Title	Track activities that integrate multiple learning or simulation modalities or instances
Actors	<p>Learner(s)</p> <p>Faculty</p> <p>Simulator tracking system - something that tracks what happens in the simulator as a result of learner actions, ie IV inserted into left arm, pulse rate 130, etc.</p> <p>Simulation evaluation system - ie something that faculty uses to evaluate learner performance in the simulation</p> <p>Instructional system - a Learning Management System (LMS), Virtual Patient System (VPS), or other system offering learning activity or content</p> <p>Learning Record Store (LRS)</p>
Trigger event	A learner or team of learners participates in an activity that integrates multiple learning or simulation modalities or instances.
Success end condition	The LRS tracks learner participation in multiple learning or simulation modalities or instances as well as results or performance associated with each modality or instance as part of a single activity.
Assumptions	<p>The activity/resource is capable of generating XAPI messages or has a companion application that generates XAPI messages.</p> <p>The instructional system, simulator tracking system, and simulation evaluation system are able to send XAPI messages to the LRS; there are no access problems</p> <p>The learner(s) is/are identified to the instructional system and simulation evaluation system.</p> <p>The faculty and learner(s) are identified to the simulation evaluation system.</p>
Description	<p>The learner(s) engages in an activity that includes one or more instructional systems and potentially a physical simulator, such as a task trainer or mannequin.</p> <p>Faculty uses a Simulation evaluation system to evaluate the learner's/learners' performance in the activity.</p> <p>Each instructional system sends a message to the LRS to indicate that the learner(s) started or completed the activity. If assessment data is available, the instructional system sends a message to the LRS with assessment data (ie the learner(s) passed the specific test or received a particular score with respect to a certain competency).</p> <p>The Simulator tracking system sends messages to the LRS indicating how the learner(s) interacted with the physical simulator, or a simulated clinical outcome that resulted from the learner's/learners' actions.</p> <p>The Simulation evaluation system sends messages to the LRS indicating the faculty's evaluation of the learner(s) on specific points and any comments or supporting materials (audio or video) related to those points.</p>
Transaction	<p>Instructional system sends a message to the LRS</p> <p>Simulator tracking system sends messages to the LRS indicating how the learner interacted with the physical simulator, or a simulated clinical outcome</p> <p>Simulation evaluation system sends messages to the LRS indicating the faculty's evaluation, potentially with supporting attachments or file references</p>
Exceptions	There could be problems associating the different pieces of the activity with the greater whole.
Potential Standards	XAPI - would additional verbs or objects be needed for tracking healthcare simulation?