

The Supporter Learning Service: Providing Dynamic Help during the Execution of a Learning Design

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Abstract: The IMS Learning Design (IMS LD) specification allows instructional designers to create learning designs in which the roles, learning activities, and the environments for performing these activities are specified. However, in its present form it does not specify a service to assist learners as they progress through a unit of learning. This paper addresses this shortcoming and makes a proposal to extend the IMS LD specification with a service that dynamically provides help to learners participating in a unit of learning. The new learning service invokes a personal agent for the learner requesting help. This agent then chooses a learning resource for the learner based on his/her current location in the unit of learning and on personal information associated with that learner. The paper presents the architecture of the learning service and describes the implementation of the service using technology such as JADE and SOAP.