Learning Path Information Model

Changes version 1.1

November 2009

- Added namespaces
- Added metadata element URI to Learning Action in the UML model. In the schema a Learning Action did have an URI included in the metadata, so the schema remained unchanged in this respect.
- For reasons of consistency/clarity the element LearningPathRef was changed into the element ExternalLearningPath and an ID was made mandatory for this element: LearningActions and LearningActionsClusters are also ‘declared’ separately and then referenced internally through an ID.
- Element ID was taken out of the container element Metadata and placed one level higher for all relevant elements (LearningPath, LearningAction, LearningActionsCluster) so that the elements become more directly accessible.
- Metadata element Title was optional, now mandatory.
- Learning Actions as container element within the LearningActionsCluster element removed because it was confusing and superfluous. The schema now indicates that a LearningActionsCluster contains a choice of at least two elements from the set LearningActionsRef, LearningActionsClusterRef, and LearningPathRef.
- Added section in Learning Path Information Model under Deployment Issues: When to use a LearningActionsCluster?

Changes version 1.2

December 2009

- Removed the restriction that a LearningActionsCluster contains at least two elements since the Cluster element is also used to specify the ordering overall of LearningPath and it should be possible to create a LearningPath consisting of a single action.
- Added an attribute AdvisedOrder to the LearningActionsCluster, which provides information on how the Cluster should be presented to learners. The attribute specifies whether the order in which LearningActions are included in the cluster is the recommended order to study them in. When the Cluster is of the type ‘sequence’ or ‘parallel’ “Yes” means that the learner can diverge from the presented order. “No” means that the order is mandatory. When the type is ‘free order’ the value “Yes” means that the learning actions in the cluster should be presented as a recommended order (though the learner could still diverge from it). “No” means that they can be presented and followed in a random order.

Changes version 1.3

March 2010

- Added attribute ActionType to LearningAction. This attribute can be used to add a typology of LearningActions, e.g. learning activity, assessment, self-test etc.