Next Generation Integration Scorecard
Learning (Objectives) Functional Area

The Learning Functional Areas defines learning objectives, outcomes, and similar entities. A learning Objective describes measurable learning goals or skills.

Objective

An *Objective* Describes a measurable learning goal. These are referenced in other functional groups such as managing courses, authoring assessments, and analyzing student success.
Also known as: *Learning Objective, Outcome, Learning Outcome, LO, Learning Goal, Goal, Job Skill, Skill, Competency* (as in the definition of a competency)

❏ Read Operations for Objectives: Score

❏ Get Objectives given unique Ids	
❏ Get all the Objectives in a system or Catalog	
❏ Query (Search) Objectives based on attribute-based query terms or keywords	
❏ Traverse relationships between Objectives	
❏ Register for notifications that Objectives have been created, updated or deleted	
❏ Register for notifications that relationships between Objectives have been changed	

❏ Write Operations for Objectives:

❏ Create, Update and Delete Objectives	
❏ Add an alias Id to reference an existing Objective	
❏ Edit relationships between Objectives	
❏ Sequence sibling Objectives that belong to the same parent	
❏ Organize Objectives into catalogs	

Minimally Supported Attributes of Objectives:

● A unique and permanent identifier

● The name of the Objective
● A description of the Objective
● The type of the Objective
● An Assessment associated with the Objective, if available
● A Cognitive Process associated with the Objective, if available
● A Knowledge Category associated with the Objective, if available

Activity

Describes what a student can do to achieve an objective and includes references to assets (documents, videos, etc), assessments, and courses
Also known as:

❏ Read Operations for *Activities*:   Score

❏ Get Activities given unique Ids	
❏ Get all the Activities in a system or Catalog	
❏ Query Activities based on attribute-based query terms or keywords	
❏ Register for notifications that Activities have been created, updated or deleted	

❏ Write Operations for *Activities*:

❏ Create, Update and Delete Activities	
❏ Add an alias Id to reference an existing Activity	
❏ Organize Activities into catalogs	

Minimally Supported Attributes of *Activities*:

● A unique and permanent identifier.
● The Name of the Activity
● A Description of the Activity
● The type of the Activity
● The Objective associated with the Activity
● A content Asset associated with the Activity, if available
● An Assessment associated with the Activity, if available
● A Course associated with the Activity, if available

Proficiency

Measures a person's mastery of an Objective
Also known as: *Mastery*, *Competency* (as is a person's competency)

❏ Read Operations for *Proficiencies:* Score

❏ Get Proficiencies given unique Ids	
❏ Get all the Proficiencies in a system or Catalog	
❏ Get Proficiencies for learning Objectives	
❏ Get Proficiencies for resources being measured, typically a Person	
❏ Query Proficiencies based on attribute-based query terms or keywords	
❏ Register for notifications that Proficiencies have been created, updated or deleted	

❏ Write Operations for *Proficiencies:*

❏ Create Proficiency for a resource, typically a person, and a learning Objective	
❏ Update and Delete Proficiencies	
❏ Add an alias Id to reference an existing Activity	
❏ Organize Proficiencies into catalogs	

❏ Operations for finding one's own learning paths through an Objective hierarchy*:*

❏ Get the shortest path to a given Objective for the authorized user. The path is a list of objectives for which there is a deficient proficiency	
❏ Get the shortest path to a given Objective with a given Proficiency grade. The path is a list of Objectives for which there is a Proficiency less than the given Proficiency	
❏ Get the list of Objectives given a minimum level of completion	

❏ Operations for finding learning paths through an Objective hierarchy

❏ Get the shortest path to a given Objective for a given resource, typically a person. The path is a list of objectives for which there is a deficient proficiency	
❏ Get the shortest path to a given Objective with a given Proficiency grade for a given resource, typically a person. The path is a list of Objectives for which there is a Proficiency less than the given Proficiency	
❏ Get the list of Objectives given a minimum level of completion for a given resource,	

typically a person	

● A unique and permanent identifier.
● The name of the Proficiency
● A description of the Proficiency
● The type of the Proficiency: measured via assessment, certified by dean, self-declared
● The resource, typically a person, to whom this Proficiency applies
● The Objective to which this Proficiency applies
● The percentage completion of the Objective by the resource
● The Proficiency level of the resource as expressed as a grade, if available
● The effective start date and end date of this Proficiency
● The reason this Proficiency ended, if applicable

Catalog

A directory or other kind of organization for learning objectives. Such a grouping serves to separate learning objectives managed by different organizations or departments and to scope searches.
Also known as: ObjectiveBank

❏ Read Operations for *Catalogs:*   Score

❏ Get Catalogs given unique Ids	
❏ Get all the Catalogs in a system or Catalog	
❏ Query (Search) Catalogs based on attribute-based query terms or keywords	
❏ Traverse Hierarchical relationships between Catalogs	
❏ Register for notifications Catalogs have been created, updated or deleted	
❏ Register for notifications that hierarchical relationships between Catalogs have been created, updated or deleted	

❏ Write Operations for *Catalogs:*

❏ Create, Update and Delete Catalogs	
❏ Add an alias Id to reference an existing Catalog	

❏ Manage Hierarchical relationships between Catalogs	

Minimally Supported Attributes of *Catalogs:*

● A unique and permanent identifier.
● The name of the Catalog
● A description of the Catalog
● The type of the Catalog
● The provider of this Catalog
● Any available branding for this Catalog, for example, an organizational logo
● Any licensing (terms of usage) associated with this Catalog