Next Generation Integration Scorecard
Program Functional Area

The Program Functional Areas defines course management services for programs/majors.

Program

A Program is a canonical learning unit describing the overall content of a program, completion requirements, and earned credentials.

Also known as: Major

Read Operations for Programs:

- Get Programs given unique Ids
- Get all the Programs in a system or Catalog
- Query (Search) Programs based on attribute-based query terms or keywords
- Register for notifications that Programs have been created, updated or deleted
- Traverse hierarchical relationships between Programs
- Get a list of Courses corresponding to the given Program
- Get a list of Programs corresponding to the given Course

Write Operations for Programs:

- Create, Update and Delete Programs
- Add an alias Id to reference an existing Program
- Organize Programs into catalogs
- Manage hierarchical relationships between Programs
- Add an existing Course to a program
- Remove a Course from a program

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Minimally Supported Attributes of Programs:

- A unique and permanent identifier
- The name of the Program
- A description of the Program
- The type of the Program: credential, school, major, minor, concentration, specialization, track, pre-professional, exchange, probation
- The formal title of this Program. It may be the same as the name or it may be used to more formally label the program.
- The Program number which is a label generally used to index the Program in a catalog
- Sponsors associated with the Program, if available
- Informational text defining Program completion requirements
- The Requirements for Program Completion, if available. A list of Requisites
- The awarded Credentials associated with the Program, if applicable

ProgramOffering

A ProgramOffering is a canonical Program offered for a Term. ProgramOffering replicates some of the data managed in the Program in the case it is refined or tweaked. Defines the Term in which students may enroll in a Program. Many systems do not make a model-level distinction between canonical and offered programs.

Also known as:

- Get ProgramOfferings given unique Ids
- Get all the ProgramOfferings in a system or Catalog
- Get ProgramOfferings for Programs
- Get ProgramOfferings for Terms
- Query (Search) Program Offerings based on attribute-based query terms or keywords
- Register for notifications that ProgramOfferings have been created, updated or deleted

- Write Operations for `ProgramOfferings`:
  - Create ProgramOffering for a Program and a Term
  - Update and Delete ProgramOfferings
  - Add an alias Id to reference an existing ProgramOffering
  - Organize ProgramOfferings into catalogs

**Minimally Supported Attributes of `ProgramOfferings`:**

- A unique and permanent identifier
- The name of the ProgramOffering
- A description of the ProgramOffering
- The type of the ProgramOffering: same as program
- The Program associated with the Program Offering
- The Term associated with the Program Offering
- The Title of the ProgramOffering
- The Number of the ProgramOffering
- Sponsors of the ProgramOffering, if available
- Informational string defining Program completion
- The Requirements for Program Completion, if available. A list of Requisites
- The awarded Credentials associated with the ProgramOffering, if applicable
- Whether the ProgramOffering requires advance registration
- The Minimum number of students this ProgramOffering can have, if applicable
- The Maximum number of students this ProgramOffering can have, if applicable
- The URL associated with the ProgramOffering
- Effective date range of this ProgramOffering
- The reason this ProgramOffering ended, if applicable

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**Credential**

A Credential is something awarded to the student at the completion of a Program.
Also known as: Degree, Badge, Micro Credential (for micro Programs)

Read Operations for Credentials:

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

Write Operations for Credentials:

- Create, Update and Delete Credentials
- Add an alias Id to reference an existing Credential
- Organize Credentials into catalogs

Minimally Supported Attributes of Credentials:

- A unique and permanent identifier
- The name of the Credential
- A description of the Credential
- The type of the Credential: degree, certificate, micro-credential, nano-credential
- The lifetime of this Credential once awarded

Enrollment

Enrollment defines a relationship between a student and a ProgramOffering. For multi-term Programs, the Enrollment may continue beyond the Term of the ProgramOffering since the Term indicates what requirements are applied to the student.

Also known as:

Read Operations for Enrollments:

- Get Enrollments given unique Ids
- Get all the Enrollments in a system or Catalog
- Get Enrollments for students
- Get Enrollments for ProgramOfferings
- Query (Search) Enrollments based on attribute-based query terms or keywords

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Register for notifications that Enrollments have been created, updated or deleted

Write Operations for Enrollments:

- Create Enrollment for student and ProgramOffering
- Update and Delete Enrollments
- Add an alias Id to reference an existing Enrollment
- Organize Enrollments into catalogs

Minimally Supported Attributes of Enrollments:

- A unique and permanent identifier
- The name of the Enrollment
- A description of the Enrollment
- The type of the Enrollment: usually echoes the program type
- The Program Offering associated with the Enrollment
- The Student associated with the Enrollment
- Effective date range of this Enrollment
- The reason this Enrollment ended, if applicable

Catalog

A directory or other kind of organization for Course related entities. Such a grouping serves to separate learning objectives managed by different campuses or departments and to scope searches.

Also known as: CourseCatalog, ProgramCatalog

Read Operations for Catalogs:

- 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