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:*   *Score*

❏ 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	

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:

❏ Read Operations for *ProgramOfferings:*   *Score*

❏ 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

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:*   *Score*

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:*   *Score*

❏ 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	

❏ 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:*   *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