The Course Registration Functional Area defines course registration services.

**ActivityBundle**

An ActivityBundle is a set of activities and other registration options within a CourseOffering in which a student can register. A CourseOffering may have a variety of activity offerings and the activity bundle groups sets of these offerings together. For example, each section of a class may have a lecture and a lab but multiple labs may be offered. For each valid registration option grouping together a lecture and one of the offered labs is presented as an ActivityBundle. Some registration mechanisms only require registration at the CourseOffering level and do not permit students to select below that level. In this case, a single ActivityBundle is created for the top level CourseOffering.

Also known as:

- Get ActivityBundles given unique Ids
- Get all the ActivityBundles in a system or Catalog
- Query (Search) ActivityBundles based on attribute-based query terms or keywords
- Register for notifications that ActivityBundles have been created, updated or deleted
- Create, Update and Delete ActivityBundles
- Add an alias Id to reference an existing ActivityBundle
- Organize ActivityBundles into catalogs

Minimally Supported Attributes of ActivityBundles:

- A unique and permanent identifier
- The name of the ActivityBundle
- A description of the ActivityBundle
- The type of the ActivityBundle
- The CourseOffering associated with the ActivityBundle
- The Activities in this ActivityBundle
- The number of Credits available to register for in this Course
- The various Grading Options available to register in this course, if applicable

**Registration**

A Registration is a Relationship between a student and an ActivityBundle.

Also known as: *Enrollment* (for a course, lab, section etc)

**Read Operations for Registrations:**

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

**Write Operations for Registrations:**

- Create Registration for student and ActivityBundle
- Update and Delete Registrations
- Add an alias Id to reference an existing Registration
- Organize Registrations into catalogs

**Minimally Supported Attributes of Registrations:**

- A unique and permanent identifier
- The name of the Registration
- A description of the Registration
- The type of the Registration
- The ActivityBundle associated with the Registration

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ActivityRegistration

An ActivityRegistration is a Relationship between a student and an Activity. ActivityRegistrations permit hanging data off of each Activity. ActivityRegistrations may be implicitly created upon the creation of a Registration.

Also known as:

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

Write Operations for ActivityRegistrations:

- Create ActivityRegistration for student and Activity
- Update and Delete ActivityRegistrations
- Add an alias Id to reference an existing ActivityRegistration
- Organize ActivityRegistrations into catalogs

Minimally Supported Attributes of ActivityRegistrations:

- A unique and permanent identifier
- The name of the ActivityRegistration
- A description of the ActivityRegistration
- The type of the ActivityRegistration
- The Registration associated with the ActivityRegistration
The Activity associated with the ActivityRegistration

The Student associated with the ActivityRegistration

Effective date range of this ActivityRegistration

The reason this ActivityRegistration 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

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

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