Next Generation Integration Scorecard
Ontology Functional Area

The Ontology Functional Area is used to define subject matter that can be related to other entities in a system. Ontologies are an alternative to tagging where structure, restricted vocabulary, or localization of topic names are desired.

**Subject**

Subjects are used to represent a topic and can be organized in a hierarchy to form an ontology.

Also known as: Concept, Tag, Classifier

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<th>Read Operations for Subjects:</th>
<th>Score</th>
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<tr>
<td>❑ Get Subjects given unique Ids</td>
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<td>❑ Get all the Subjects in a system or Catalog</td>
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<tr>
<td>❑ Query (Search) Subjects based on attribute-based query terms or keywords</td>
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<td>❑ Traverse Hierarchical relationships between Subjects</td>
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<td>❑ Register for notifications Subjects have been created, updated or deleted</td>
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<th>Write Operations for Subjects:</th>
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<td>❑ Create, Update and Delete Subjects</td>
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<td>❑ Manage Hierarchical relationships between Subjects</td>
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<td>❑ Add an alias Id to reference an existing Subject</td>
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<td>❑ Organize Subjects into Ontologies</td>
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</table>

Minimally Supported Attributes of Subjects:

- A unique and permanent identifier
- The name of the Subject
- A description of the Subject

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Relevancy

Subjects are related to reference entities through Relevancies

Also known as:

- Read Operations for Relevancies:
  - Get Relevancies given unique Ids
  - Get all the Relevancies in a system or Ontology
  - Get Relevancies for Subjects
  - Get Relevancies for mapped entities
  - Query (Search) Relevancies based on attribute-based query terms or keywords
  - Register for notifications that Relevancies have been created or updated

- Write Operations for Relevancies:
  - Create Relevancy between a Subject and a mapped entity
  - Update and Delete Relevancies
  - Add an alias Id to reference an existing Relevancy
  - Organize Relevancies into Ontologies

Minimally Supported Attributes of Relevancies:

- A unique and permanent identifier
- The name of the Relevancy
- A description of the Relevancy
- The type of the Relevancy: very, somewhat, not at all
- The Subject associated with this Relevancy
- The mapped entity associated with this Relevancy
- The effective date range of this Relevancy
- The reason this Relevancy relationship ended, if applicable

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Ontology

A directory or other kind of organizational construct for managing Ontology related entities. Such a grouping serves to separate Subjects managed by different organizations or around different topic areas, and to scope searches.

Also known as: Taxonomy, Catalog

Read Operations for Ontologies:

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

Write Operations for Ontologies:

- Create, Update and Delete Ontologies
- Add an alias Id to reference an existing Ontology
- Manage Hierarchical relationships between Ontologies
- Manage Id to Ontology mappings. Arbitrary Ids may be used to offer a restricted ontology to allow an arbitrary Id to be used in discovering Subjects or traversing Subject hierarchies

Minimally Supported Attributes of Ontologies:

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

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