

OAIS IF Data Dictionary

Abridged - Version 0.1.0.0

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Chapter 1. Introduction

The Data Dictionary defines the organization and components of product labels. Components of a product label include classes and their attributes.

Audience

The Data Dictionary - Abridged - has been abstracted from the unabridged version with the needs of data providers and data end users in mind. It contains full definitions but not all the fine detail or repetition necessary to support the underlying Information Model.

Acknowledgements

The Data Dictionary and the Information Model is a joint effort involving discipline experts functioning as a data design working group.

Scope

The Data Dictionary defines the common and discipline level classes and attributes used to create product labels. It also defines the meta-attributes (i.e. attributes about attributes) used to define attributes. This abridged version includes only one entry for each attribute where the unabridged version includes an entry for each use of an attribute in a class.

Applicable Documents

Controlling Documents

- Information Model Specification - The Information Model is used as the source for class, attribute, and data type definitions. The model is presented in document format as the Information Model Specification.
- ISO/IEC 11179:3 Registry Metamodel and Basic Attributes Specification, 2003. - The ISO/IEC 11179 specification provides the schema for the data dictionary.

Reference Documents

- Planetary Science Data Dictionary - The online version of the PDS3 data dictionary was used as the source for a few data elements being carried over from the PDS3 data standards.

Terminology

This document uses very specific engineering terminology to describe the various structures involved. It is particularly important that readers who have absorbed the Standards Reference bear in mind that terms which are familiar in that context can have very different meanings in the present document.

Following are some definitions of essential terms used throughout this document.

- An *attribute* is a property or characteristic that provides a unit of information. For example, 'color' and 'length' are possible attributes.
- A *class* is a set of attributes (including a name) which defines a family. A class is generic - a template from which individual members of the family may be constructed.

- A *conceptual object* is an object which is intangible (and, because it is intangible, does not fit into a digital archive). Examples of 'conceptual objects' include the Cassini mission and NASA's strategic plan for solar system exploration. Note that a PDF describing the Cassini mission is a digital object, not a conceptual object (nor a component of a conceptual object).
- A *data element* is a unit of data for which the definition, identification, representation and *permissible values* are specified by means of a set of attributes. For example, the concept of a *calibration_lamp_state_flag* is used to indicate whether the lamp used for onboard camera calibration was turned on or off during the capture of an image. The *data element* aspect of this concept is the named attribute (or data element) *calibration_lamp_state_flag*.
- A *data object* is a physical, conceptual, or digital object.
- A *digital object* is an object which is real data - for example, a binary image of a redwood tree or an ASCII table of atmospheric composition versus altitude.
- *Formal* as used in the definition of attributes that are names indicates that an established procedure was involved in creating the name.
- A *unique identifier* is a special type of identifier used to provide a reference number which is unique in a context.
- *Local* refers to the context within a single label.
- *Logical* as used in the definition of logical identifier indicates that the identifier logically groups a set of objects.
- A *physical object* is an object which is physical or tangible (and, therefore, does not itself fit into a digital archive). Examples of 'physical objects' include the planet Saturn and the Venus Express magnetometer. Note that an ASCII file describing Saturn is a digital object, not a physical object (nor a component of a physical object).
- A *resource* is the target (referent) of any Uniform Resource Identifier; the thing to which a URI points.

Chapter 2. Product Classes in the common namespace.

These classes define the products.

Abstraction_Layer

Name: Abstraction_Layer			Version Id: 1.0.0.0
<i>Description:</i> The Abstraction_Layer contains the interfaces that define the contracts for the interoperability framework. /source: /omit /altDefinition: The Abstraction Layer object class contains the interfaces that define the contracts for the interoperability framework. The Abstraction Layer class is a subclass of Component. This section is informative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Component :: Abstraction_Layer			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Access_Interface, Access_Rights_Information_Interface, Fixity_Information_Interface, Identifier_Interface, Information_Object_Interface, Ingest_Interface, Negotiate_Interface, Packaged_Information_Interface, Provenance_Information_Interface, Reference_Information_Interface, Representation_Information_Interface			

Local_Access

Name: Local_Access			Version Id: 1.0.0.0
<i>Description:</i> The Local Access class provides an access capability for an Archive. /source: /omit /altDefinition: The Local Access object class provides the functions to locate and retrieve information packages in the Archive. The Local Access class is an element of the Archive Interface component. A special Adapter must address any OAIS-IF requirement that is not met by a corresponding Local Access instance. This section is informative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Service :: MessagedService :: Functional_Entity :: Local_Access			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Local_Access_is_Element_of_OAIS_IF_Archive_Interface	1..1	OAIS_IF_Archive_Interface
<i>Referenced from:</i> Adapter, Archive_..._Adapter, Archive_1_Adapter, Archive_2_Adapter			

Local_Ingest

Name: Local_Ingest			Version Id: 1.0.0.0
<i>Description:</i> The Local Ingest class provides an ingest capability for an Archive. /source: /omit /alt-Definition: The Local Ingest object class provides the functions to accept information packages and register them in the Archive. A special Adapter must address any OAIS-IF requirement that is not met by a corresponding Local Ingest instance. The Local Ingest class is an element of the Archive Interface component. This section is informative.			

Product Classes in the
common namespace.

Name: Local_Ingest			Version Id: 1.0.0.0
Namespace Id: oais	Steward: oais	Role: concrete	Status: Active
Class Hierarchy: System_Architecture :: Service :: MessagedService :: Functional_Entity :: Local_Ingest			
No Attributes			
Association(s)	Name	Cardinality	Class
	Local_Ingest_is_Element_of_OAIS_IF_Archive_Interface	1..1	OAIS_IF_Archive_Interface
Referenced from: Adapter, Archive_..._Adapter, Archive_1_Adapter, Archive_2_Adapter			

Chapter 3. Support classes in the common namespace.

The classes in this section are used by the product classes.

Access

Name: Access		Version Id: 1.0.0.0	
<p><i>Description:</i> Access Functional Entity (aka Access): The OAIS functional entity that contains the services and functions which make the archival information holdings and related services visible to Consumers. /source: ISO_14721_2012 figure 4-1, figure 4-3, figure 4-4, figure 4-8, figure 4-9 / altDefinition: The Access object class provides the functions necessary to locate and retrieve Information Packages and Dissemination Information Packages through the Archive Interface. It implements the Access Interface that functions through selected specialized Adapters. The Ingest class is an element of the Consumer and Producer Interface components. This section is normative.</p>			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> abstract	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Service :: MessagedService :: Functional_Entity :: Access			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Access_implements_Access_Interface	0..1	Access_Interface
	Access_is_Element_Of_Consumer_Interface	0..1	Consumer_Interface
	request_AIP	1..1	Archival_Storage
<i>Referenced from:</i> Consumer_Archive_Application			

Access_Interface

Name: Access_Interface		Version Id: 1.0.0.0	
<p><i>Description:</i> The Access Interface is a well-defined entry point for the Access functional entity and provides a contract for the exchange of information. /source: /omit /altDefinition: The Access Interface is a well-defined entry point for the Access functional entity class. The interface requires a setAdapter method and is an element of the Abstraction Layer component. This section is normative.</p>			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Interface :: Access_Interface			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Access_Interface_is_Element_Of_Abstraction_Layer	1..1	Abstraction_Layer
	has_setAdapter_Method	1..1	setAdapter
<i>Referenced from:</i> Access			

Access_Rights_Information

Name: Access_Rights_Information			Version Id: 1.0.0.0
<p><i>Description:</i> Access Rights Information: The information that identifies the access restrictions pertaining to the Content Information, including the legal framework, licensing terms, and access control. It contains the access and distribution conditions stated within the Submission Agreement, related to both preservation (by the OAIS) and final usage (by the Consumer). It also includes the specifications for the application of rights enforcement measures. /source: ISO_14721_2012 figure 4-16, figure 4-18 /altDefinition: The Access Rights Information object class implements the Access Rights Information Interface. The Access Rights Information class is also a subclass of the Information Object class and inherits its properties. It implements the Information Object Interface, is composed of a Data Object and Representation Information, is managed by an Archival Storage functional entity, and is an element of the OAIS Interoperability Framework component. This section is normative.</p>			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Information_Object :: Access_Rights_Information			
<i>Attribute(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Value</i>
	PID	1..1	None
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_implements_Information_Object_Interface	1..1	Information_Object_Interface
	Information_Object_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	Access_Rights_Information_implements_Access_Rights_Information_Interface	1..1	Access_Rights_Information_Interface
<i>Referenced from:</i> Preservation_Description_Information			

Access_Rights_Information_Interface

Name: Access_Rights_Information_Interface			Version Id: 1.0.0.0
<p><i>Description:</i> The Access Rights Information Interface is a well-defined entry point and contract for accessing Access Rights Information. /source: /omit /altDefinition: The Access Rights Information Interface is a well-defined entry point for the Access Rights Information object class. The interface is a subclass of the Information Object Interface and inherits the getDataObject, getRepresentationInformation, putDataObject, and putRepresentationInformation methods. The interface is an element of the Abstraction Layer component. This section is normative.</p>			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Interface :: Information_Object_Interface :: Access_Rights_Information_Interface			

Support classes in the common namespace.

Name: Access_Rights_Information_Interface			Version Id: 1.0.0.0
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_Interface_is_Element_Of_Abstraction_Layer	1..1	Abstraction_Layer
	has_getDataObject_Method	0..Unbounded	getDataObject
	has_getRepresentationInformation_Method	1..1	getRepresentationInformation
	has_putDataObject_Method	0..Unbounded	putDataObject
	has_putRepresentationInformation_Method	1..1	putRepresentationInformation
<i>Referenced from: Access_Rights_Information</i>			

Adapter

Name: Adapter			Version Id: 1.0.0.0
<p><i>Description:</i> An Adapter (Binding) is a wrapper library that bridges two programming languages, so that a library written for one language can be used in another language. Within the OAIS-IF an adaptor provides a bridge between the OAIS Information Model and an information model used by an archive. More specifically the necessary and sufficient function for an Adapter to be able to return the appropriate Representation Information for an Information Object. /source: xxx /altDefinition: The Adapter object class is an abstract class from which specialized adapters are extended. It implements the Adapter Interface which provides access and ingest methods and inherited get and put methods on Data Objects and Representation Information. It also implements the Message Interface which provides a set of standard messages managed through a selected messaging protocol. Finally, it implements the Identifier Interface which has been extended to handle local Identifiers. The Adapter's access and ingest methods can use either programmatic function calls or Application Programming Interfaces (APIs) to invokes Local Access and Ingest functional entities in the Archive interface. It is an element of the Adapter Layer within the OAIS Interoperability Framework component. This section is normative.</p>			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Adapter			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Adapter_implements_Adapter_Interface	1..1	Adapter_Interface
	Adapter_implements_Identifier_Interface	1..1	Identifier_Interface
	Adapter_implements_Message_Interface	1..1	Message_Interface
	Adapter_is_Element_Of_Adapter_Layer	1..1	Adapter_Layer
	Adapter_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework

Support classes in the common namespace.

Name: Adapter			Version Id: 1.0.0.0
	Adaptor_invokes_Access	1..1	Local_Access
	Adaptor_invokes_Ingest	1..1	Local_Ingest
<i>Referenced from:</i> None			

Adapter_Interface

Name: Adapter_Interface			Version Id: 1.0.0.0
<i>Description:</i> The Adapter Interface is a well-defined entry point and contract for Bindings. /source: /omit /altDefinition:The Adapter Interface is a well-defined entry point for the Adapter object class. The interface requires an access and an ingest method. The interface is a subclass of the Information Object Interface and inherits the getDataObject, getRepresentationInformation, putDataObject, and putRepresentationInformation methods. It is an element of the Abstraction Layer component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Interface :: Adapter_Interface			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	has_access_Method	1..1	accessIO
	has_ingest_Method	1..1	ingestIO
<i>Referenced from:</i> Adapter, Archive_..._Adapter, Archive_1_Adapter, Archive_2_Adapter			

Adapter_Layer

Name: Adapter_Layer			Version Id: 1.0.0.0
<i>Description:</i> The Adapter Layer contains 'wrapper' libraries that bridges two programming languages, so that a library written for one language can be used in another language.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Component :: Adapter_Layer			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Adapter_Layer_is_Element_Of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
<i>Referenced from:</i> Adapter, Archive_..._Adapter, Archive_1_Adapter, Archive_2_Adapter			

Archival_Information_Package

Name: Archival_Information_Package			Version Id: 1.0.0.0
<i>Description:</i> Archival Information Package (AIP): An Information Package, consisting of the Content Information and the associated Preservation Description Information (PDI), which is preserved within an OAIS. /source: ISO_14721_2012 figure 2-4, figure 4-1, figure 4-14, figure 4-15, figure 4-17, figure 4-18 /altDefinition:The Archival Information Package object class is a subclass of the Information Package class and is composed of a Content Information class and a Preservation Description Information (PDI) class. It is also indirectly a subclass of the Information Object class and			

Name: Archival_Information_Package			Version Id: 1.0.0.0
inherits its properties. It implements the Information Object Interface, is composed of a Data Object and Representation Information, is managed by an Archival Storage functional entity, and is an element of the OAIS Interoperability Framework component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Information_Object :: Information_Package :: Archival_Information_Package			
<i>Attribute(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Value</i>
	PID	1..1	None
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_implements_Information_Object_Interface	1..1	Information_Object_Interface
	Information_Object_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Archival_Information_Package_is_stored_in_Archival_Storage	1..1	Archival_Storage
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	has_Content_Information	1..1	Content_Information
<i>Referenced from:</i> None			

Archival_Storage

Name: Archival_Storage			Version Id: 1.0.0.0
<i>Description:</i> Archival Storage Functional Entity (aka Archival Storage): The OAIS functional entity that contains the services and functions used for the storage and retrieval of Archival Information Packages. /source: ISO_14721_2012 figure 4-1, figure 4-2, figure 4-3, figure 4-7, figure 4-8, figure 4-9 /source: xxx /altDefinition: The Archival Storage class is a subclass of Component. This section is informative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> abstract	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Service :: MessagedService :: Functional_Entity :: Archival_Storage			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Access, Access_Rights_Information, Archival_Information_Package, Content_Information, Context_Information, Dissemination_Information_Package, Fixity_Information, Identification_Information, Information_Object, Information_Package, Ingest, Packaged_Information, Preservation_Description_Information, Provenance_Information, Reference_Information, Representation_Information, Submission_Information_Package			

Archive

Name: Archive			Version Id: 1.0.0.0
<i>Description:</i> Archive: An organization that intends to preserve information for access and use by a Designated Community. /source:			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> abstract	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Archive			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> None			

Archive_..._Adapter

Name: Archive_..._Adapter			Version Id: 1.0.0.0
<i>Description:</i> The Archive ... Adapter is an adapter that provides a bridge between the OAIS Information Model and an information model used by an archive.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Adapter :: Archive_..._Adapter			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Adapter_implements_Adapter_Interface	1..1	Adapter_Interface
	Adapter_implements_Identifier_Interface	1..1	Identifier_Interface
	Adapter_implements_Message_Interface	1..1	Message_Interface
	Adapter_is_Element_Of_Adapter_Layer	1..1	Adapter_Layer
	Adapter_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Adaptor_invokes_Access	1..1	Local_Access
	Adaptor_invokes_Ingest	1..1	Local_Ingest
<i>Referenced from:</i> None			

Archive_1_Adapter

Name: Archive_1_Adapter			Version Id: 1.0.0.0
<i>Description:</i> Archive 1 Adapter is an adapter that provides a bridge between the OAIS Information Model and an information model used by an archive.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Adapter :: Archive_1_Adapter			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>

Support classes in the common namespace.

Name: Archive_1_Adapter			Version Id: 1.0.0.0
	Adapter_implements_Adapter_Interface	1..1	Adapter_Interface
	Adapter_implements_Identifier_Interface	1..1	Identifier_Interface
	Adapter_implements_Message_Interface	1..1	Message_Interface
	Adapter_is_Element_Of_Adapter_Layer	1..1	Adapter_Layer
	Adapter_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Adaptor_invokes_Access	1..1	Local_Access
	Adaptor_invokes_Ingest	1..1	Local_Ingest
<i>Referenced from:</i> None			

Archive_2_Adapter

Name: Archive_2_Adapter			Version Id: 1.0.0.0
<i>Description:</i> Archive 2 Adapter is an adapter that provides a bridge between the OAIS Information Model and an information model used by an archive.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Adapter :: Archive_2_Adapter			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Adapter_implements_Adapter_Interface	1..1	Adapter_Interface
	Adapter_implements_Identifier_Interface	1..1	Identifier_Interface
	Adapter_implements_Message_Interface	1..1	Message_Interface
	Adapter_is_Element_Of_Adapter_Layer	1..1	Adapter_Layer
	Adapter_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Adaptor_invokes_Access	1..1	Local_Access
	Adaptor_invokes_Ingest	1..1	Local_Ingest
<i>Referenced from:</i> None			

Client

Name: Client			Version Id: 1.0.0.0
<p><i>Description:</i> A Client is a computer system or process that requests a service of another computer system or process (a server) using some kind of protocol and accepts the server's responses. /source: /omit /altDefinition: The Client object class represents a computer system or process that requests a service of another computer system or process (a server) using a specific protocol and accepts the server's responses. The Client class is a subclass of Component. This section is informative.</p>			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Component :: Client			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Consumer_Application_Layer, Producer_Application_Layer			

Component

Name: Component			Version Id: 1.0.0.0
<p><i>Description:</i> A Component represents a modular part of a system that encapsulates the state and behavior of a number of elements such as attributes or methods. Its behavior is defined in terms of provided and required interfaces, is self-contained, and substitutable.</p>			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Component			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> None			

Conceptual_Object

Name: Conceptual_Object			Version Id: 1.0.0.0
<p><i>Description:</i> The Conceptual Object class defines a non-tangible object that is also not a digital object. /source: /pds</p>			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Data_Object :: Conceptual_Object			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	interpreted_using	1..Unbounded	Representation_Information
<i>Referenced from:</i> None			

Consumer_Application_Layer

Name: Consumer_Application_Layer			Version Id: 1.0.0.0
<p><i>Description:</i> The Consumer Application Layer contains a program or group of programs designed for Consumer. /source: /omit /altDefinition: The Consumer Application Layer object class contains a program or group of programs designed for the Consumer. The Consumer Application Layer component is a subclass of Component and is an element of Client. This section is informative.</p>			

Support classes in the common namespace.

Name: Consumer_Application_Layer			Version Id: 1.0.0.0
Namespace Id: oais	Steward: oais	Role: concrete	Status: Active
Class Hierarchy: System_Architecture :: Component :: Consumer_Application_Layer			
No Attributes			
Association(s)	Name	Cardinality	Class
	Consumer_Application_Layer_is_Element_Of_Client	0..1	Client
Referenced from: Consumer_Archive_Application, Dissemination_Information_Package			

Consumer_Archive_Application

Name: Consumer_Archive_Application			Version Id: 1.0.0.0
<p><i>Description:</i> A Consumer Archive Application is an application for use by a user performing the role of a consumer for a data archive. /source: /jsh /source: /omit /altDefinition: The Consumer Archive Application object class represents an application for use by a user performing the role of a consumer in a data archive. The Consumer Archive Application negotiates for Adapters via the Negotiate service and makes requests for Information Packages or Dissemination Information Packages through the Access service. As an application it may invoke OAIS Interoperability Framework services either through functions calls by consuming the Framework or through an Application Programming Interface (API) provided for the Framework. The Consumer Archive Application is an element of the Consumer Application Layer.</p>			
Namespace Id: oais	Steward: oais	Role: concrete	Status: Active
Class Hierarchy: Consumer_Archive_Application			
No Attributes			
Association(s)	Name	Cardinality	Class
	Consumer_Archive_Application_Receive_Dissemination_Information_Package	0..1	Dissemination_Information_Package
	Consumer_Archive_Application_consumes_OAIS_Interoperability_Framework	0..1	OAIS_Interoperability_Framework
	Consumer_Archive_Application_is_Element_Of_Consumer_Application_Layer	0..1	Consumer_Application_Layer
	Consumer_Archive_Application_negotiates_through_Negotiate	0..1	Negotiate
	Consumer_Archive_Application_receives_Information_Package	0..1	Information_Package
	Consumer_Archive_Application_requests_through_Access	0..1	Access
Referenced from: None			

Consumer_Interface

Name: Consumer_Interface			Version Id: 1.0.0.0
<i>Description:</i> The Consumer Interface provides abstractions of consumer services. /source: /omit /altDefinition: The Consumer Interface object class is a well-defined entry point for consumer services. The Consumer Interface class is a subclass of Component and is an element of the OAIS Interoperability Framework. This section is informative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Component :: Consumer_Interface			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Consumer_Interface is_Element_Of_OAIS Interoperability_Frame- work	0..1	OAIS_Interoperability_ Framework
<i>Referenced from:</i> Access, Negotiate			

Content_Data_Object

Name: Content_Data_Object			Version Id: 1.0.0.0
<i>Description:</i> Content Data Object: The Data Object, that together with associated Representation Information, comprises the Content Information. /source: ISO_14721_2012 /altDefinition:The Content Data Object is the Data object of Content Information. It has associated Representation Information, is managed by an Archival Storage functional entity, and is an element of the OAIS Interoperability Framework component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Data_Object :: Content_Data_Object			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	interpreted_using	1..Unbounded	Representation_Infor- mation
<i>Referenced from:</i> Content_Information			

Content_Information

Name: Content_Information			Version Id: 1.0.0.0
<i>Description:</i> Content Information: A set of information that is the original target of preservation or that includes part or all of that information. It is an Information Object composed of its Content Data Object and its Representation Information. /source: ISO_14721_2012 figure 2-3, figure 4-12, figure 4-13, figure 4-15, figure 4-18 /altDefinition:The Content Information object class is composed of a Content Data Object and a Representation Information class. It implements the Information Object Interface, is managed by an Archival Storage functional entity, and is an element of the OAIS Interoperability Framework component. Content Information is further described by Preservation Descriptive Information. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Information_Object :: Content_Information			
<i>Attribute(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Value</i>
	PID	1..1	None

Name: Content_Information			Version Id: 1.0.0.0
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_implements_Information_Object_Interface	1..1	Information_Object_Interface
	Information_Object_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	further_described_by	0..1	Preservation_Description_Information
	has_Content_Data_Object	1..1	Content_Data_Object
<i>Referenced from:</i> Archival_Information_Package, Information_Property, Preservation_Description_Information			

Context_Information

Name: Context_Information			Version Id: 1.0.0.0
<i>Description:</i> Context Information: The information that documents the relationships of the Content Information to its environment. This includes why the Content Information was created and how it relates to other Content Information objects. /source: ISO_14721_2012 figure 4-16, figure 4-18 /altDefinition: The Context Information object class implements the Context Information Interface. The Context Information class is also a subclass of the Information Object class and inherits its properties. It implements the Information Object Interface, is composed of a Data Object and Representation Information, is managed by an Archival Storage functional entity, and is an element of the OAIS Interoperability Framework component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Information_Object :: Context_Information			
<i>Attribute(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Value</i>
	PID	1..1	None
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_implements_Information_Object_Interface	1..1	Information_Object_Interface
	Information_Object_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	has_Data_Object	1..1	Data_Object

Name: Context_Information			Version Id: 1.0.0.0
	has_Representation_Information	1..1	Representation_Information
<i>Referenced from:</i> Preservation_Description_Information			

DOID

Name: DOID			Version Id: 1.0.0.0
<i>Description:</i> DOID: An identifier which names an instance of a Data Object. (Data Object Identifier) /source: /omit /altDefinition: The DOID object class defines an identifier which names an instance of a Data Object. (Data Object Identifier) The DOID class is a subclass of Identifier. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Identifier :: DOID			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> None			

Data_Object

Name: Data_Object			Version Id: 1.0.0.0
<i>Description:</i> Data Object: Either a Physical Object or a Digital Object. /source: ISO_14721_2012 figure 2-2, figure 4-10, figure 4-18			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Data_Object			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	interpreted_using	1..Unbounded	Representation_Information
<i>Referenced from:</i> Access_Rights_Information, Archival_Information_Package, Content_Information, Context_Information, Dissemination_Information_Package, Fixity_Information, Identification_Information, Information_Object, Information_Package, Packaged_Information, Preservation_Description_Information, Provenance_Information, Reference_Information, Representation_Information, Submission_Information_Package			

Data_Object_Interface

Name: Data_Object_Interface			Version Id: 1.0.0.0
<i>Description:</i> The Data Object Interface is a well-defined entry point and contract for accessing a Data_Object. /source: /omit /altDefinition: The Data Object Interface is a well-defined entry point for the Data Object class. The interface requires a getBits method and is an element of the Abstraction Layer component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Interface :: Data_Object_Interface			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> None			

Digital_Object

Name: Digital_Object			Version Id: 1.0.0.0
<i>Description:</i> Digital Object: An object composed of a set of bit sequences. /source: ISO_14721_2012 figure 4-10, figure 4-18			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Data_Object :: Digital_Object			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	interpreted_using	1..Unbounded	Representation_Information
<i>Referenced from:</i> None			

Dissemination_Information_Package

Name: Dissemination_Information_Package			Version Id: 1.0.0.0
<i>Description:</i> Dissemination Information Package (DIP): An Information Package, derived from one or more AIPs, and sent by Archives to the Consumer in response to a request to the OAIS. /source: ISO_14721_2012 figure 2-4, figure 4-1, figure 4-14 /altDefinition:The Dissemination Information Package object class is a subclass of the Information Package class and is composed of a Content Information class and a Preservation Description Information (PDI) class. It is also indirectly a subclass of the Information Object class and inherits its properties. It implements the Information Object Interface, is composed of a Data Object and Representation Information, is managed by an Archival Storage functional entity, and is an element of the OAIS Interoperability Framework component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Information_Object :: Information_Package :: Dissemination_Information_Package			
<i>Attribute(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Value</i>
	PID	1..1	None
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_implements_Information_Object_Interface	1..1	Information_Object_Interface
	Information_Object_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	Dissemination_Information_Packageis_Element_Of_Consumer_Application_Layer	0..1	Consumer_Application_Layer

Name: Dissemination_Information_Package	Version Id: 1.0.0.0
<i>Referenced from:</i> Consumer_Archive_Application	

Fixity_Information

Name: Fixity_Information		Version Id: 1.0.0.0	
<i>Description:</i> Fixity Information: The information which documents the mechanisms that ensure that the Content Information object has not been altered in an undocumented manner. An example is a Cyclical Redundancy Check (CRC) code for a file. /source: ISO_14721_2012 figure 4-16, figure 4-18 /altDefinition: The Fixity Information object class implements the Fixity Information Interface. The Fixity Information class is also a subclass of the Information Object class and inherits its properties. It implements the Information Object Interface, is composed of a Data Object and Representation Information, is managed by an Archival Storage functional entity, and is an element of the OAIS Interoperability Framework component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Information_Object :: Fixity_Information			
<i>Attribute(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Value</i>
	PID	1..1	None
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_implements_Information_Object_Interface	1..1	Information_Object_Interface
	Information_Object_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	Fixity_Information_implements_Fixity_Information_Interface	1..1	Fixity_Information_Interface
<i>Referenced from:</i> Preservation_Description_Information			

Fixity_Information_Interface

Name: Fixity_Information_Interface		Version Id: 1.0.0.0	
<i>Description:</i> The Fixity Information Interface is a well-defined entry point and contract for accessing Fixity Information. /source: /omit /altDefinition: The Fixity Information Interface is a well-defined entry point for the Fixity Information object class. The interface is a subclass of the Information Object Interface and inherits the getDataObject, getRepresentationInformation, putDataObject, and putRepresentationInformation methods. The interface is an element of the Abstraction Layer component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Interface :: Information_Object_Interface :: Fixity_Information_Interface			

Name: Fixity_Information_Interface			Version Id: 1.0.0.0
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_Interface_is_Element_Of_Abstraction_Layer	1..1	Abstraction_Layer
	has_getDataObject__Method	0..Unbounded	getDataObject
	has_getRepresentationInformation__Method	1..1	getRepresentationInformation
	has_putDataObject__Method	0..Unbounded	putDataObject
	has_putRepresentationInformation__Method	1..1	putRepresentationInformation
<i>Referenced from:</i> Fixity_Information			

Functional_Entity

Name: Functional_Entity			Version Id: 1.0.0.0
<i>Description:</i> A Functional Entity is an entity responsible for a function that is required to ensure the reliable operation of a specific part of an Open Archive Information System. /source: /omit /altDefinition A Functional Entity is an entity responsible for a function that is required to ensure the reliable operation of a specific part of an Open Archive Information System.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Service :: MessagedService :: Functional_Entity			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> None			

Identification_Information

Name: Identification_Information			Version Id: 1.0.0.0
<i>Description:</i> Identification Information: The information that is used to identify information objects. /source:/jsh			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Information_Object :: Identification_Information			
<i>Attribute(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Value</i>
	PID	1..1	None
	logical_identifier	1..1	None
	version_identifier	1..1	None
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_implements_Information_Object_Interface	1..1	Information_Object_Interface

Name: Identification_Information			Version Id: 1.0.0.0
	Information_Object_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
<i>Referenced from:</i> None			

Identifier

Name: Identifier			Version Id: 1.0.0.0
<i>Description:</i> Identifier: A token which names an instance of an object class. /source: /omit /altDefinition: The Identifier object class defines a token which names an instance of an object class. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Identifier			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> None			

Identifier_Interface

Name: Identifier_Interface			Version Id: 1.0.0.0
<i>Description:</i> The Identifier Interface is a well-defined entry point for an object and provides a contract for identifying Information Objects. /source: /omit /altDefinition: The Identifier Interface is a well-defined entry point for the Access functional entity. The interface requires a setAdapter method and is an element of the Abstraction Layer component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Interface :: Identifier_Interface			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Identifier_Interface_is_Element_of_Abstraction_Layer	1..1	Abstraction_Layer
<i>Referenced from:</i> Adapter, Archive_..._Adapter, Archive_1_Adapter, Archive_2_Adapter			

Information_Architecture

Name: Information_Architecture			Version Id: 1.0.0.0
<i>Description:</i> The Information_Architecture abstract class groups the information classes for the Data Archive Architecture.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> abstract	<i>Status:</i> Active

Name: Information_Architecture		Version Id: 1.0.0.0
<i>Class Hierarchy:</i> Information_Architecture		
<i>No Attributes</i>		
<i>No Associations</i>		
<i>Referenced from:</i> None		

Information_Object

Name: Information_Object		Version Id: 1.0.0.0	
<i>Description:</i> Information Object: A Data Object together with its Representation Information. / source: ISO_14721_2012 figure 2-2, figure 4-10, figure 4-12 /altDefinition:The Information Object class is composed of a Data Object and a Representation Information class. It implements the In- formation Object Interface is managed by an Archival Storage functional entity, and is an element of the OAIS Interoperability Framework component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Information_Object			
<i>Attribute(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Value</i>
	PID	1..1	None
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_implements_Information_Object_Interface	1..1	Information_Object_Interface
	Information_Object_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
<i>Referenced from:</i> None			

Information_Object_Interface

Name: Information_Object_Interface		Version Id: 1.0.0.0	
<i>Description:</i> The Information Object Interface is a well-defined entry point and contract for access- ing an Information_Object. /source: /omit /altDefinition:The Information Object Interface is a well- defined entry point for the Identifier object class. The interface is an element of the Abstraction Layer component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Interface :: Information_Object_Interface			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>

Name: Information_Object_Interface			Version Id: 1.0.0.0
	Information_Object_Interface_is_Element_Of_Abstraction_Layer	1..1	Abstraction_Layer
	has_getDataObject_Method	0..Unbounded	getDataObject
	has_getRepresentationInformation_Method	1..1	getRepresentationInformation
	has_putDataObject_Method	0..Unbounded	putDataObject
	has_putRepresentationInformation_Method	1..1	putRepresentationInformation
<p><i>Referenced from:</i> Access_Rights_Information, Archival_Information_Package, Content_Information, Context_Information, Dissemination_Information_Package, Fixity_Information, Identification_Information, Information_Object, Information_Package, Packaged_Information, Preservation_Description_Information, Provenance_Information, Reference_Information, Representation_Information, Submission_Information_Package</p>			

Information_Package

Name: Information_Package			Version Id: 1.0.0.0
<p><i>Description:</i> Information Package: A logical container composed of optional Content Information and optional associated Preservation Description Information. Associated with this Information Package is Packaging Information used to delimit and identify the Content Information and Package Description information used to facilitate searches for the Content Information. /source: ISO_14721_2012 figure 4-13, figure 4-14 /altDefinition: The Information Package object class is composed of a Content Information class and a Preservation Description Information (PDI) class. It is a subclass of the Information Object class and inherits its properties. It implements the Information Object Interface, is composed of a Data Object and Representation Information, is managed by an Archival Storage functional entity, and is an element of the OAIS Interoperability Framework component. This section is normative.</p>			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Information_Object :: Information_Package			
<i>Attribute(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Value</i>
	PID	1..1	None
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_implements_Information_Object_Interface	1..1	Information_Object_Interface
	Information_Object_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	has_Data_Object	1..1	Data_Object

Name: Information_Package			Version Id: 1.0.0.0
	has_Representation_Information	1..1	Representation_Information
<i>Referenced from:</i> Consumer_Archive_Application			

Information_Property

Name: Information_Property			Version Id: 1.0.0.0
<i>Description:</i> Information Property: That part of the Content Information as described by the Information Property Description. The detailed expression, or value, of that part of the information content is conveyed by the appropriate parts of the Content Data Object and its Representation. / source: ISO_14721_2012 Information.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Property			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	is_part_of_Content_Information	0..Unbounded	Content_Information
<i>Referenced from:</i> None			

Ingest

Name: Ingest			Version Id: 1.0.0.0
<i>Description:</i> Ingest Functional Entity (aka Ingest): The OAIS functional entity that contains the services and functions that accept Submission Information Packages from Producers, prepares Archival Information Packages for storage, and ensures that Archival Information Packages and their supporting Descriptive Information become established within the OAIS. /source: ISO_14721_2012 figure 4-1, figure 4-3, figure 4-4, figure 4-5, figure 4-8, figure 4-9 /altDefinition: The Ingest object class provides the functions necessary to accept Submission Information Packages and register them through the Archive Interface. It implements the Ingest Interface that that functions through selected specialized Adapters. The Ingest class is an element of the Consumer and Producer Interface components. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> abstract	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Service :: MessagedService :: Functional_Entity :: Ingest			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Ingest_implements_Ingest_Interface	0..1	Ingest_Interface
	Ingest_is_Element_Of_Producer_Interface	0..1	Producer_Interface
	send_AIP	1..1	Archival_Storage
<i>Referenced from:</i> Producer_Archive_Application			

Ingest_Interface

Name: Ingest_Interface			Version Id: 1.0.0.0
<i>Description:</i> The Ingest Interface is a well-defined entry point for the Ingest functional entity and provides a contract for the exchange of information. /source: /omit /altDefinition: The Ingest Inter-			

Name: Ingest_Interface			Version Id: 1.0.0.0
face is a well-defined entry point for the Ingest functional entity class. The interface requires a setAdapter method and is an element of the Abstraction Layer component. This section is normative.			
Namespace Id: oais	Steward: oais	Role: concrete	Status: Active
Class Hierarchy: System_Architecture :: Interface :: Ingest_Interface			
No Attributes			
Association(s)	Name	Cardinality	Class
	Ingest_Interface_is_Element_Of_Abstraction_Layer	1..1	Abstraction_Layer
	has_setAdapter__Method	1..1	setAdapter
Referenced from: Ingest			

Interface

Name: Interface			Version Id: 1.0.0.0
<i>Description:</i> Interface: The abstraction of a service that only defines the operations supported by that service, but not their implementations. The specification of an operation is referred to as a method /914.0-M-1 - 1) an abstract type that contains no data or code, but defines behaviors as method signatures. 2) a shared boundary across which two separate components of a computer system exchange information. /source: wikipedia			
Namespace Id: oais	Steward: oais	Role: abstract	Status: Active
Class Hierarchy: System_Architecture :: Interface			
No Attributes			
No Associations			
Referenced from: None			

Message_Interface

Name: Message_Interface			Version Id: 1.0.0.0
<i>Description:</i> The Message Interface is a well-defined entry point and contract for passing messages. /source: /omit /altDefinition:The Message Interface is a well-defined entry point for the Message object class. The interface requires the following methods: agreeStrategy, getReceiver, getSender, isInfoUsable, orderRequest, queryRequest, requestPackage, requestRepInfoIDs, and sendPackagethod. The interface is an element of the Abstraction Layer component. This section is normative.			
Namespace Id: oais	Steward: oais	Role: concrete	Status: Active
Class Hierarchy: System_Architecture :: Interface :: Message_Interface			
No Attributes			
Association(s)	Name	Cardinality	Class
	has_agreeStrategy__Method	1..1	agreeStrategy
	has_getReceiver__Method	1..1	getReceiver
	has_getSender__Method	1..1	getSender

Support classes in the common namespace.

Name: Message_Interface			Version Id: 1.0.0.0
	has_isInfoUsable__ Method	1..1	isInfoUsable
	has_orderRequest__ Method	1..1	orderRequest
	has_queryRequest__ Method	1..1	queryRequest
	has_requestPackage__ Method	1..1	requestPackage
	has_requestRepInfoIDs__ Method	1..1	requestRepInfoIDs
	has_sendPackage__ Method	1..1	sendPackage
	has_sendRepInfoPackage__ Method	1..1	sendRepInfoPackage
<i>Referenced from:</i> Adapter, Archive_..._Adapter, Archive_1_Adapter, Archive_2_Adapter			

MessageService

Name: MessageService			Version Id: 1.0.0.0
<i>Description:</i> The MessageService class defines system services that are invoked using messages.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> abstract	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Service :: MessageService			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> None			

Method

Name: Method			Version Id: 1.0.0.0
<i>Description:</i> Method: A method in object-oriented programming (OOP) is a procedure associated with a message and an object.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> None			

Negotiate

Name: Negotiate			Version Id: 1.0.0.0
<i>Description:</i> The Negotiate function allows a user and the OASIS to negotiate adapters that enable them to interoperate./source: /omit /altDefinition:The Negotiate object class provides the functions necessary to identify and choose specialized Adapters that are mutually acceptable to interoperate between the client and the archive. The Negotiate class implements the Negotiate Interface which provides agreeStrategy and chooseAdapter methods . The Negotiate service is an element of the Consumer Interface component. This section is normative.			

Name: Negotiate			Version Id: 1.0.0.0
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Service :: MessagedService :: Functional_Entity :: Negotiate			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Negotiate_implements_Negotiate_Interface	0..1	Negotiate_Interface
	Negotiate_is_Element_Of_Consumer_Interface	0..1	Consumer_Interface
	Negotiate_is_Element_Of_Producer_Interface	0..1	Producer_Interface
<i>Referenced from:</i> Consumer_Archive_Application, Producer_Archive_Application			

Negotiate_Interface

Name: Negotiate_Interface			Version Id: 1.0.0.0
<i>Description:</i> The Negotiate Interface is a well-defined entry point for negotiating protocols between two entities and provides a contract for the exchange of information during negotiation. /source: /omit /altDefinition: The Negotiate Interface is a well-defined entry point for the Negotiate object class. The interface requires an agreeStrategy and a chooseAdapter method. It is an element of the Abstraction Layer component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Interface :: Negotiate_Interface			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Negotiate_Interface_is_Element_Of_Abstraction_Layer	0..1	Abstraction_Layer
	has_agreeStrategy__Method	0..Unbounded	agreeStrategy
	has_chooseAdapter__Method	0..Unbounded	chooseAdapter
<i>Referenced from:</i> Negotiate			

OAIS_IF_Archive

Name: OAIS_IF_Archive			Version Id: 1.0.0.0
<i>Description:</i> An OAIS IF Archive is an organization that intends to preserve information for access and use by a Designated Community and acknowledges the OAIS IF can be used to interoperate with other OAIS IF Archives. /source: /omit /altDefinition: An OAIS IF Archive is an organization that intends to preserve information for access and use by a Designated Community and acknowledges the OAIS IF can be used to interoperate with other OAIS IF Archives. This section is informative..			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Archive :: OAIS_IF_Archive			
<i>No Attributes</i>			

Name: OAIS_IF_Archive		Version Id: 1.0.0.0
No Associations		
Referenced from: OAIS_IF_Archive_Interface		

OAIS_IF_Archive_Interface

Name: OAIS_IF_Archive_Interface		Version Id: 1.0.0.0	
<i>Description:</i> The OAIS IF Archive Interface is a well-defined entry point for the OAIS_IF_Archive and provides a contract for the exchange of information. /source: /omit /altDefinition: The OAIS IF Archive Interface is a well-defined entry point for the OAIS_IF_Archive and provides a contract for the exchange of information.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Interface :: OAIS_IF_Archive_Interface			
No Attributes			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	OAIS_IF_Archive_Interface_is_Element_Of_OAIS_IF_Archive	1..1	OAIS_IF_Archive
Referenced from: Local_Access, Local_Ingest			

OAIS_Interoperability_Framework

Name: OAIS_Interoperability_Framework		Version Id: 1.0.0.0	
<i>Description:</i> The OAIS Interoperability Framework is an abstraction based on the OAIS Functional and Information Models in which software providing generic functionality can be selectively changed by additional user-written code to provide application-specific software that interoperates across digital repositories. /source: /omit /altDefinition:The OAIS Interoperability Framework is an abstraction based on the OAIS Functional and Information Models in which software providing generic functionality can be selectively changed by additional user-written code to provide application-specific software that interoperates across digital repositories.This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Component :: OAIS_Interoperability_Framework			
No Attributes			
No Associations			
<i>Referenced from:</i> Access_Rights_Information, Adapter, Adapter_Layer, Archival_Information_Package, Archive_..._Adapter, Archive_1_Adapter, Archive_2_Adapter, Consumer_Archive_Application, Consumer_Interface, Content_Information, Context_Information, Dissemination_Information_Package, Fixity_Information, Identification_Information, Information_Object, Information_Package, Packaged_Information, Preservation_Description_Information, Producer_Archive_Application, Producer_Interface, Provenance_Information, Reference_Information, Representation_Information, Submission_Information_Package			

ORIID

Name: ORIID		Version Id: 1.0.0.0
<i>Description:</i> ORIID: An Identifier which names an instance of Representation Information. (Object Representation Information ID) /source: /omit /altDefinition: The ORIID object class defines an Identifier which names an instance of Representation Information. (Object Representation Information ID). The ORIID class is a subclass of Identifier. This section is normative.		

Name: ORIID			Version Id: 1.0.0.0
Namespace Id: oais	Steward: oais	Role: concrete	Status: Active
Class Hierarchy: Identifier :: ORIID			
No Attributes			
No Associations			
Referenced from: None			

Order_Agreement

Name: Order_Agreement			Version Id: 1.0.0.0
Description: Order Agreement: An agreement between the Archive and the Consumer in which the physical details of the delivery, such as media type and format of Data, are specified. Ordering Aid: An application that assists the Consumer in discovering the cost of, and in ordering, AIPs of interest. /source: ISO_14721_2012			
Namespace Id: oais	Steward: oais	Role: concrete	Status: Active
Class Hierarchy: Information_Architecture :: Order_Agreement			
No Attributes			
No Associations			
Referenced from: None			

Packaged_Information

Name: Packaged_Information			Version Id: 1.0.0.0
Description: Packaged Information: A logical container composed of optional Information Object(s). Associated with this Information Package is Packaging Information used to delimit and identify the Information Object and optional Package Description information used to facilitate searches for the Information Object.			
Namespace Id: oais	Steward: oais	Role: concrete	Status: Active
Class Hierarchy: Information_Architecture :: Information_Object :: Packaged_Information			
Attribute(s)	Name	Cardinality	Value
	PID	1..1	None
Association(s)	Name	Cardinality	Class
	Information_Object_ implements_ Informa- tion_Object_Interface	1..1	Information_Object_In- terface
	Information_Object_is_ Element_of_OAIS_In- teroperability_Frame- work	1..1	OAIS_Interoperability_ Framework
	Information_Object_ is_Managed_by_ Archival_Storage	1..1	Archival_Storage
	has_Data_Object	1..1	Data_Object
	has_Representation_In- formation	1..1	Representation_Infor- mation
Referenced from: None			

Packaged_Information_Interface

Name: Packaged_Information_Interface			Version Id: 1.0.0.0
<i>Description:</i> The Packaged Information Interface is a well-defined entry point and contract for accessing a Packaged Information Information Object. /source: /omit /altDefinition:The Packaged Information Interface is a well-defined entry point for the Packaged Information object class. The interface is a subclass of the Information Object Interface and inherits the getDataObject, getRepresentationInformation, putDataObject, and putRepresentationInformation methods. The interface is an element of the Abstraction Layer component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Interface :: Information_Object_Interface :: Packaged_Information_Interface			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_Interface_is_Element_Of_Abstraction_Layer	1..1	Abstraction_Layer
	has_getDataObject__Method	0..Unbounded	getDataObject
	has_getRepresentationInformation__Method	1..1	getRepresentationInformation
	has_putDataObject__Method	0..Unbounded	putDataObject
	has_putRepresentationInformation__Method	1..1	putRepresentationInformation
<i>Referenced from:</i> None			

Physical_Object

Name: Physical_Object			Version Id: 1.0.0.0
<i>Description:</i> Physical Object: An object (such as a moon rock, bio-specimen, microscope slide) with physically observable properties that represent information that is considered suitable for being adequately documented for preservation, distribution, and independent usage. /source: ISO_14721_2012 figure 4-10, figure 4-18			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Data_Object :: Physical_Object			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	interpreted_using	1..Unbounded	Representation_Information
<i>Referenced from:</i> None			

Preservation_Description_Information

Name: Preservation_Description_Information			Version Id: 1.0.0.0
<i>Description:</i> Preservation Description Information (PDI): The information which is necessary for adequate preservation of the Content Information and which can be categorized as Provenance, Reference, Fixity, Context, and Access Rights Information. /source: ISO_14721_2012 figure 2-3, figure 4-12, figure 4-13, figure 4-15, figure 4-18 /altDefinition: The Preservation Description Information object class is composed of Access Rights Information, Context Information, Fixity Information, Provenance Information, and Reference Information. It provides preservation description for Content Information. It is also a subclass of the Information Object class and inherits its properties. It implements the Information Object Interface, is managed by an Archival Storage functional entity, and is an element of the OAIS Interoperability Framework component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Information_Object :: Preservation_Description_Information			
<i>Attribute(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Value</i>
	PID	1..1	None
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_implements_Information_Object_Interface	1..1	Information_Object_Interface
	Information_Object_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	has_Access_Rights	1..1	Access_Rights_Information
	has_Context	1..1	Context_Information
	has_Fixity	1..1	Fixity_Information
	has_Provenance	1..1	Provenance_Information
	has_Reference	0..1	Reference_Information
	provides_preservation_information_for	0..1	Content_Information
<i>Referenced from:</i> Content_Information			

Producer_Application_Layer

Name: Producer_Application_Layer		Version Id: 1.0.0.0
<i>Description:</i> The Producer Application Layer contains a program or group of programs designed for Producers. /source: /omit /altDefinition: The Producer Application Layer object class contains a		

Support classes in the common namespace.

Name: Producer_Application_Layer			Version Id: 1.0.0.0
program or group of programs designed for Producers. The Producer Application Layer component is a subclass of Component and is an element of Client. This section is informative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Component :: Producer_Application_Layer			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Producer_Application_Layer_is_Element_Of_Client	0..1	Client
<i>Referenced from:</i> Producer_Archive_Application, Submission_Information_Package			

Producer_Archive_Application

Name: Producer_Archive_Application			Version Id: 1.0.0.0
<i>Description:</i> A Producer_Archive_Application an application for use by a user performing the role of a producer for a data archive. /source: /jsh /source: /omit /altDefinition: The Producer Archive Application object class represents an application for use by a user performing the role of a producer in a data archive. The Producer Archive Application negotiates for Adapters via the Negotiate service and ingests Submission Information Packages through the Ingest service. As an application it may invoke OAIS Interoperability Framework services either through functions calls by consuming the Framework or through an Application Programming Interface (API) provided for the Framework. The Producer Archive Application is an element of the Producer Application Layer.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Producer_Archive_Application			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Producer_Archive_Application_consumes_OAIS_Interoperability_Framework	0..1	OAIS_Interoperability_Framework
	Producer_Archive_Application_is_Element_Of_Producer_Application_Layer	0..1	Producer_Application_Layer
	Producer_Archive_Application_negotiates_through_Negotiate	0..1	Negotiate
	Producer_Archive_Application_produces_Submission_Information_Package	0..1	Submission_Information_Package
	Producer_Archive_Application_provides_SIP_to_Ingest	0..1	Ingest
<i>Referenced from:</i> None			

Producer_Interface

Name: Producer_Interface			Version Id: 1.0.0.0
<i>Description:</i> The Producer Interface is an abstraction of producer services. /source: /omit /altDefinition: The Producer Interface object class is a well-defined entry point for producer services. The Producer Interface class is a subclass of Component and is an element of the OAIS Interoperability Framework. This section is informative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Component :: Producer_Interface			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Producer_Interface_is_Element_Of_OAIS_Interoperability_Framework	0..1	OAIS_Interoperability_Framework
<i>Referenced from:</i> Ingest, Negotiate			

Provenance_Information

Name: Provenance_Information			Version Id: 1.0.0.0
<i>Description:</i> Provenance Information: The information that documents the history of the Content Information. This information tells the origin or source of the Content Information, any changes that may have taken place since it was originated, and who has had custody of it since it was originated. The Archive is responsible for creating and preserving Provenance Information from the point of Ingest; however, earlier Provenance Information should be provided by the Producer. Provenance Information adds to the evidence to support Authenticity. /source: ISO_14721_2012 figure 4-16, figure 4-18 /altDefinition:The Provenance Information object class implements the Provenance Information Interface. The Provenance Information class is also a subclass of the Information Object class and inherits its properties. It implements the Information Object Interface, is composed of a Data Object and Representation Information, is managed by an Archival Storage functional entity, and is an element of the OAIS Interoperability Framework component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Information_Object :: Provenance_Information			
<i>Attribute(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Value</i>
	PID	1..1	None
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_implements_Information_Object_Interface	1..1	Information_Object_Interface
	Information_Object_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	has_Data_Object	1..1	Data_Object

Support classes in the common namespace.

Name: Provenance_Information			Version Id: 1.0.0.0
	has_Representation_Information	1..1	Representation_Information
	Provenance_Information_implements_Provenance_Information_Interface	1..1	Provenance_Information_Interface
<i>Referenced from:</i> Preservation_Description_Information			

Provenance_Information_Interface

Name: Provenance_Information_Interface			Version Id: 1.0.0.0
<i>Description:</i> The Provenance Information Interface is a well-defined entry point and contract for accessing Provenance Information. /source: /omit /altDefinition: The Provenance Information Interface is a well-defined entry point for the Provenance Information object class. The interface is a subclass of the Information Object Interface and inherits the getDataObject, getRepresentationInformation, putDataObject, and putRepresentationInformation methods. The interface is an element of the Abstraction Layer component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Interface :: Information_Object_Interface :: Provenance_Information_Interface			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_Interface_is_Element_Of_Abstraction_Layer	1..1	Abstraction_Layer
	has_getDataObject_Method	0..Unbounded	getDataObject
	has_getRepresentationInformation_Method	1..1	getRepresentationInformation
	has_putDataObject_Method	0..Unbounded	putDataObject
	has_putRepresentationInformation_Method	1..1	putRepresentationInformation
<i>Referenced from:</i> Provenance_Information			

Reference_Information

Name: Reference_Information		Version Id: 1.0.0.0
<i>Description:</i> Reference Information: The information that is used as an identifier for the Content Information. It also includes identifiers that allow outside systems to refer unambiguously to a particular Content Information. An example of Reference Information is an ISBN. /source: ISO_14721_2012 figure 4-16, figure 4-18 /altDefinition: The Reference Information object class implements the Reference Information Interface. The Reference Information class is also a subclass of the Information Object class and inherits its properties. It implements the Information Object Interface, is composed of a Data Object and Representation Information, is managed by an Archival Storage functional entity, and is an element of the OAIS Interoperability Framework component. This section is normative.		

Name: Reference_Information			Version Id: 1.0.0.0
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Information_Object :: Reference_Information			
<i>Attribute(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Value</i>
	PID	1..1	None
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_implements_Information_Object_Interface	1..1	Information_Object_Interface
	Information_Object_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	Reference_Information_implements_Reference_Information_Interface	1..1	Reference_Information_Interface
<i>Referenced from:</i> Preservation_Description_Information			

Reference_Information_Interface

Name: Reference_Information_Interface			Version Id: 1.0.0.0
<i>Description:</i> The Reference Information Interface is a well-defined entry point and contract for accessing Reference Information. /source: /omit /altDefinition: The Reference Information Interface is a well-defined entry point for the Reference Information object class. The interface is a subclass of the Information Object Interface and inherits the getDataObject, getRepresentationInformation, putDataObject, and putRepresentationInformation methods. The interface is an element of the Abstraction Layer component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Interface :: Information_Object_Interface :: Reference_Information_Interface			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_Interface_is_Element_Of_Abstraction_Layer	1..1	Abstraction_Layer
	has_getDataObject_Method	0..Unbounded	getDataObject
	has_getRepresentationInformation_Method	1..1	getRepresentationInformation
	has_putDataObject_Method	0..Unbounded	putDataObject

Support classes in the common namespace.

Name: Reference_Information_Interface			Version Id: 1.0.0.0
	has_putRepresentationInformation__Method	1..1	putRepresentationInformation
<i>Referenced from:</i> Reference_Information			

Representation_Information

Name: Representation_Information			Version Id: 1.0.0.0
<p><i>Description:</i>Representation Information: The information that maps a Data Object into more meaningful concepts. An example of Representation Information for a bit sequence which is a FITS file might consist of the FITS standard which defines the format plus a dictionary which defines the meaning in the file of keywords which are not part of the standard. Another example is JPEG software which is used to render a JPEG file; rendering the JPEG file as bits is not very meaningful to humans but the software, which embodies an understanding of the JPEG standard, maps the bits into pixels which can then be rendered as an image for human viewing. /source: ISO_14721_2012 figure 2-2, figure 4-10, figure 4-12, figure 4-18 /altDefinition:The Representation Information object class implements the Representation Information Interface. The Representation Information class is also a subclass of the Information Object class and inherits its properties. It implements the Information Object Interface, is composed of a Data Object and Representation Information, is managed by an Archival Storage functional entity, and is an element of the OAIS Interoperability Framework component. This section is normative.</p>			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Information_Object :: Representation_Information			
<i>Attribute(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Value</i>
	PID	1..1	None
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_implements_Information_Object_Interface	1..1	Information_Object_Interface
	Information_Object_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	has_Data_Object	1..1	Data_Object
	interpreted_using_recurse	1..Unbounded	Representation_Information
	Representation_Information_implements_Representation_Information_Interface	1..1	Representation_Information_Interface
<i>Referenced from:</i> Access_Rights_Information, Archival_Information_Package, Conceptual_Object, Content_Data_Object, Content_Information, Context_Information, Data_Object, Digital_Object, Dissemination_Information_Package, Fixity_Information, Identification_Information, Information_Object, Information_Package, Packaged_Information, Physical_Object, Preservation_Description_Information, Provenance_Information, Reference_Information, Representation_Information, Submission_Information_Package			

Representation_Information_Interface

Name: Representation_Information_Interface		Version Id: 1.0.0.0	
<i>Description:</i> The Representation Information Interface is a well-defined entry point and contract for accessing Representation Information. /source: /omit /altDefinition:The Representation Information Interface is a well-defined entry point for the Representation Information object class. The interface is a subclass of the Information Object Interface and inherits the getDataObject, getRepresentationInformation, putDataObject, and putRepresentationInformation methods. The interface is an element of the Abstraction Layer component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Interface :: Information_Object_Interface :: Representation_Information_Interface			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_Interface_is_Element_Of_Abstraction_Layer	1..1	Abstraction_Layer
	has_getDataObject__Method	0..Unbounded	getDataObject
	has_getRepresentationInformation__Method	1..1	getRepresentationInformation
	has_putDataObject__Method	0..Unbounded	putDataObject
	has_putRepresentationInformation__Method	1..1	putRepresentationInformation
<i>Referenced from:</i> Representation_Information			

Service

Name: Service		Version Id: 1.0.0.0	
<i>Description:</i> A service is a software component that performs work that benefits another. In a service-oriented architecture (SOA) a service is a style of software design where services are provided to the other components by application components, through a communication protocol over a network. The basic principles of service oriented architecture are independent of vendors, products and technologies.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Service			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> None			

Submission_Information_Package

Name: Submission_Information_Package		Version Id: 1.0.0.0	
<i>Description:</i> Submission Information Package (SIP): An Information Package that is delivered by the Producer to the OAIS for use in the construction or update of one or more AIPs and/or the as-			

Name: Submission_Information_Package			Version Id: 1.0.0.0
sociated Descriptive Information. /altDefinition:The Submission Information Package object class is a subclass of the Information Package class and is composed of a Content Information object class and a Preservation Description Information (PDI) class. It is also indirectly a subclass of the Information Object class and inherits its properties. It implements the Information Object Interface, is composed of a Data Object and Representation Information, is managed by an Archival Storage functional entity, and is an element of the OAIS Interoperability Framework component. This section is normative.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Information_Object :: Information_Package :: Submission_Information_Package			
<i>Attribute(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Value</i>
	PID	1..1	None
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_implements_Information_Object_Interface	1..1	Information_Object_Interface
	Information_Object_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	Submission_Information_Packageis_Element_Of_Producer_Application_Layer	0..1	Producer_Application_Layer
<i>Referenced from:</i> Producer_Archive_Application			

System_Architecture

Name: System_Architecture			Version Id: 1.0.0.0
<i>Description:</i> The System_Architecture abstract class groups the software, services, and protocols for the Data Archive Architecture. /source:			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> abstract	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> None			

accessIO

Name: accessIO			Version Id: 1.0.0.0
<i>Description:</i> accessIO: a method that given an Object Representation Information ID (ORIID), returns the associated Information Object (IO)			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: accessIO			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Adapter_Interface			

agreeStrategy

Name: agreeStrategy			Version Id: 1.0.0.0
<i>Description:</i> agreeStrategy: a method that facilitates the creation of a set of OAIS-IF Adapter and Identifier types that enable interoperability between a repository and a user (possibly another repository).			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: agreeStrategy			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Message_Interface, Negotiate_Interface			

chooseAdapter

Name: chooseAdapter			Version Id: 1.0.0.0
<i>Description:</i> chooseAdapter: a method that given a negotiated strategy for interoperation, selects an OAIS-IF Adapter for inclusion into the set of set of adapters to enable interoperability.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: chooseAdapter			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Negotiate_Interface			

getDOID

Name: getDOID			Version Id: 1.0.0.0
<i>Description:</i> getDOID: a method that gets the Data Object ID (DOID) for a Data Object.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: getDOID			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> None			

getDataObject

Name: getDataObject			Version Id: 1.0.0.0
<i>Description:</i> getDataObject: a method that given a Data Object Identifier (DOID) gets a Data Object.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: getDataObject			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Access_Rights_Information_Interface, Fixity_Information_Interface, Information_Object_Interface, Packaged_Information_Interface, Provenance_Information_Interface, Reference_Information_Interface, Representation_Information_Interface			

getORID

Name: getORID			Version Id: 1.0.0.0
<i>Description:</i> getORID: a method that gets the Object Representation Information ID (ORIID) for an instance of Representation Information.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: getORID			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> None			

getReceiver

Name: getReceiver			Version Id: 1.0.0.0
<i>Description:</i> getReceiver: a method that given a message gets the receiver.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: getReceiver			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Message_Interface			

getRepresentationInformation

Name: getRepresentationInformation			Version Id: 1.0.0.0
<i>Description:</i> getRepresentationInformation: a method that given a Object Representation Information ID (ORIID) gets an instance of Representation information.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: getRepresentationInformation			
<i>No Attributes</i>			
<i>No Associations</i>			

Name: getRepresentationInformation	Version Id: 1.0.0.0
<i>Referenced from:</i> Access_Rights_Information_Interface, Fixity_Information_Interface, Information_Object_Interface, Packaged_Information_Interface, Provenance_Information_Interface, Reference_Information_Interface, Representation_Information_Interface	

getSender

Name: getSender	Version Id: 1.0.0.0		
<i>Description:</i> getSender: a method that given a message gets the sender.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: getSender			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Message_Interface			

ingestIO

Name: ingestIO	Version Id: 1.0.0.0		
<i>Description:</i> ingestIO: a method that given an Object Representation Information ID (ORIID), ingests the associated Information Object (IO)			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: ingestIO			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Adapter_Interface			

isInfoUsable

Name: isInfoUsable	Version Id: 1.0.0.0		
<i>Description:</i> isInfoUsable: a method that indicates that an information object is usable.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: isInfoUsable			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Message_Interface			

orderRequest

Name: orderRequest	Version Id: 1.0.0.0		
<i>Description:</i> orderRequest: a method that requests information that has been indicated to be currently available.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: orderRequest			
<i>No Attributes</i>			

Name: orderRequest		Version Id: 1.0.0.0	
<i>No Associations</i>			
<i>Referenced from: Message_Interface</i>			

putDataObject

Name: putDataObject		Version Id: 1.0.0.0	
<i>Description:</i> putDataObject: a method that given a Data Object Identifier (DOID), puts a data object.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: putDataObject			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Access_Rights_Information_Interface, Fixity_Information_Interface, Information_Object_Interface, Packaged_Information_Interface, Provenance_Information_Interface, Reference_Information_Interface, Representation_Information_Interface			

putRepresentationInformation

Name: putRepresentationInformation		Version Id: 1.0.0.0	
<i>Description:</i> putRepresentationInformation: a method that given an Object Representation Information ID (ORIID), puts an instance of Representation Information.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: putRepresentationInformation			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Access_Rights_Information_Interface, Fixity_Information_Interface, Information_Object_Interface, Packaged_Information_Interface, Provenance_Information_Interface, Reference_Information_Interface, Representation_Information_Interface			

queryRequest

Name: queryRequest		Version Id: 1.0.0.0	
<i>Description:</i> queryRequest: a method that returns a list of Object Representation Information IDs (ORIIDs) given a query for finding Information Object(s).			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: queryRequest			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Message_Interface			

requestPackage

Name: requestPackage		Version Id: 1.0.0.0	
<i>Description:</i> requestPackage: a method that requests an instance of Packaged Information.			

Name: requestPackage			Version Id: 1.0.0.0
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: requestPackage			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Message_Interface			

requestRepInfoIDs

Name: requestRepInfoIDs			Version Id: 1.0.0.0
<i>Description:</i> requestRepInfoIDs: a method that requests Object Representation Information IDs (ORIIDs).			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: requestRepInfoIDs			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Message_Interface			

sendPackage

Name: sendPackage			Version Id: 1.0.0.0
<i>Description:</i> sendPackage: a method that sends an instance of Packaged Information.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: sendPackage			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Message_Interface			

sendRepInfoPackage

Name: sendRepInfoPackage			Version Id: 1.0.0.0
<i>Description:</i> sendRepInfoPackage: a method that sends Representation information as Packaged Information.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: sendRepInfoPackage			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Message_Interface			

setAdapter

Name: setAdapter			Version Id: 1.0.0.0
<i>Description:</i> setAdapter: a method that given the Identifier of an Adapter, retrieves and plugs-in the Adapter for use.			

Name: setAdapter			Version Id: 1.0.0.0
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: setAdapter			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Access_Interface, Ingest_Interface			

setORIID

Name: setORIID			Version Id: 1.0.0.0
<i>Description:</i> setORIID: a method that sets the Object Representation Information ID (ORIID) for an instance of Representation Information.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Method :: setORIID			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> None			

Chapter 4. PDS3 catalog classes in the common namespace.

These classes are used to archive PDS3 catalog information.

Chapter 5. Attributes in the common namespace.

These attributes are used by the classes in the common namespace.

PID in Information_Object

Name: PID			Version Id: 1.0.0.0
<i>Description:</i> The PID attribute provides a persistent unique identifier used to refer to an object.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Class Name:</i> Information_Object	<i>Type:</i> ASCII_Short_String_Collapsed
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> 1	<i>Maximum Characters:</i> 255
<i>Unit of Measure Type:</i> None	<i>Default Unit Id:</i> None	<i>Attribute Concept:</i> None	<i>Conceptual Domain:</i> None
<i>Status:</i> Active	<i>Nillable:</i> false	<i>Pattern:</i> None	
<i>Permissible Value(s)</i>	No Values		

character_constraint in ASCII_Short_String_Collapsed

Name: character_constraint			Version Id: 1.0.0.0
<i>Description:</i> The character_constraint attribute limits the characters allowed.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Class Name:</i> ASCII_Short_String_Collapsed	<i>Type:</i> ASCII_Short_String_Collapsed
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> 1	<i>Maximum Characters:</i> 255
<i>Unit of Measure Type:</i> None	<i>Default Unit Id:</i> None	<i>Attribute Concept:</i> None	<i>Conceptual Domain:</i> None
<i>Status:</i> Active	<i>Nillable:</i> false	<i>Pattern:</i> None	
<i>Permissible Value(s)</i>	<i>Value</i>	<i>Value Meaning</i>	
	ASCII	TBD_value_meaning	

character_constraint in Character_Data_Type

Name: character_constraint			Version Id: 1.0.0.0
<i>Description:</i> The character_constraint attribute limits the characters allowed.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Class Name:</i> Character_Data_Type	<i>Type:</i> ASCII_Short_String_Collapsed
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> 1	<i>Maximum Characters:</i> 255
<i>Unit of Measure Type:</i> None	<i>Default Unit Id:</i> None	<i>Attribute Concept:</i> None	<i>Conceptual Domain:</i> None
<i>Status:</i> Active	<i>Nillable:</i> false	<i>Pattern:</i> None	

Name: character_constraint		Version Id: 1.0.0.0
<i>Permissible Value(s)</i>	<i>No Values</i>	

character_encoding in Character_Data_Type

Name: character_encoding		Version Id: 1.0.0.0	
<i>Description:</i> The character_encoding attribute identifies the standard that maps a set of allowed characters to their machine readable code.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Class Name:</i> Character_Data_Type	<i>Type:</i> ASCII_Short_String_Collapsed
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> 1	<i>Maximum Characters:</i> 255
<i>Unit of Measure Type:</i> None	<i>Default Unit Id:</i> None	<i>Attribute Concept:</i> None	<i>Conceptual Domain:</i> None
<i>Status:</i> Active	<i>Nillable:</i> false	<i>Pattern:</i> None	
<i>Permissible Value(s)</i>	<i>Value</i>	<i>Value Meaning</i>	
	UTF-8	TBD_value_meaning	

formation_rule in Character_Data_Type

Name: formation_rule		Version Id: 1.0.0.0	
<i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Class Name:</i> Character_Data_Type	<i>Type:</i> ASCII_Short_String_Collapsed
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> 1	<i>Maximum Characters:</i> 255
<i>Unit of Measure Type:</i> None	<i>Default Unit Id:</i> None	<i>Attribute Concept:</i> None	<i>Conceptual Domain:</i> None
<i>Status:</i> Active	<i>Nillable:</i> false	<i>Pattern:</i> None	
<i>Permissible Value(s)</i>	<i>No Values</i>		

logical_identifier in Identification_Information

Name: logical_identifier		Version Id: 1.0.0.0	
<i>Description:</i> The logical_identifier attribute identifies the set of all versions of a product; it is a product identifier without a version.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Class Name:</i> Identification_Information	<i>Type:</i> TBD_value_type
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> None	<i>Maximum Characters:</i> None
<i>Unit of Measure Type:</i> None	<i>Default Unit Id:</i> None	<i>Attribute Concept:</i> None	<i>Conceptual Domain:</i> None
<i>Status:</i> Active	<i>Nillable:</i> false	<i>Pattern:</i> None	
<i>Permissible Value(s)</i>	<i>No Values</i>		

maximum_characters in ASCII_Short_String_Collapsed

Name: maximum_characters			Version Id: 1.0.0.0
<i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Class Name:</i> ASCII_Short_String_Collapsed	<i>Type:</i> ASCII_Short_String_Collapsed
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> 1	<i>Maximum Characters:</i> 255
<i>Unit of Measure Type:</i> None	<i>Default Unit Id:</i> None	<i>Attribute Concept:</i> None	<i>Conceptual Domain:</i> None
<i>Status:</i> Active	<i>Nillable:</i> false	<i>Pattern:</i> None	
<i>Permissible Value(s)</i>	<i>Value</i>	<i>Value Meaning</i>	
	255	TBD_value_meaning	

maximum_characters in Character_Data_Type

Name: maximum_characters			Version Id: 1.0.0.0
<i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Class Name:</i> Character_Data_Type	<i>Type:</i> ASCII_Short_String_Collapsed
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> 1	<i>Maximum Characters:</i> 255
<i>Unit of Measure Type:</i> None	<i>Default Unit Id:</i> None	<i>Attribute Concept:</i> None	<i>Conceptual Domain:</i> None
<i>Status:</i> Active	<i>Nillable:</i> false	<i>Pattern:</i> None	
<i>Permissible Value(s)</i>	<i>No Values</i>		

maximum_value in Character_Data_Type

Name: maximum_value			Version Id: 1.0.0.0
<i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Class Name:</i> Character_Data_Type	<i>Type:</i> ASCII_Short_String_Collapsed
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> 1	<i>Maximum Characters:</i> 255
<i>Unit of Measure Type:</i> None	<i>Default Unit Id:</i> None	<i>Attribute Concept:</i> None	<i>Conceptual Domain:</i> None
<i>Status:</i> Active	<i>Nillable:</i> false	<i>Pattern:</i> None	
<i>Permissible Value(s)</i>	<i>No Values</i>		

minimum_characters in ASCII_Short_String_Collapsed

Name: minimum_characters			Version Id: 1.0.0.0
<i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Class Name:</i> ASCII_Short_String_Collapsed	<i>Type:</i> ASCII_Short_String_Collapsed
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> 1	<i>Maximum Characters:</i> 255
<i>Unit of Measure Type:</i> None	<i>Default Unit Id:</i> None	<i>Attribute Concept:</i> None	<i>Conceptual Domain:</i> None
<i>Status:</i> Active	<i>Nillable:</i> false	<i>Pattern:</i> None	
<i>Permissible Value(s)</i>	<i>Value</i>	<i>Value Meaning</i>	
	1	TBD_value_meaning	

minimum_characters in Character_Data_Type

Name: minimum_characters			Version Id: 1.0.0.0
<i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Class Name:</i> Character_Data_Type	<i>Type:</i> ASCII_Short_String_Collapsed
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> 1	<i>Maximum Characters:</i> 255
<i>Unit of Measure Type:</i> None	<i>Default Unit Id:</i> None	<i>Attribute Concept:</i> None	<i>Conceptual Domain:</i> None
<i>Status:</i> Active	<i>Nillable:</i> false	<i>Pattern:</i> None	
<i>Permissible Value(s)</i>	<i>No Values</i>		

minimum_value in Character_Data_Type

Name: minimum_value			Version Id: 1.0.0.0
<i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Class Name:</i> Character_Data_Type	<i>Type:</i> ASCII_Short_String_Collapsed
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> 1	<i>Maximum Characters:</i> 255
<i>Unit of Measure Type:</i> None	<i>Default Unit Id:</i> None	<i>Attribute Concept:</i> None	<i>Conceptual Domain:</i> None
<i>Status:</i> Active	<i>Nillable:</i> false	<i>Pattern:</i> None	
<i>Permissible Value(s)</i>	<i>No Values</i>		

pattern in Character_Data_Type

Name: pattern			Version Id: 1.0.0.0
<i>Description:</i> The pattern attribute provides a symbolic instruction for forming values.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Class Name:</i> Character_Data_Type	<i>Type:</i> ASCII_Short_String_Collapsed
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> 1	<i>Maximum Characters:</i> 255
<i>Unit of Measure Type:</i> None	<i>Default Unit Id:</i> None	<i>Attribute Concept:</i> None	<i>Conceptual Domain:</i> None
<i>Status:</i> Active	<i>Nillable:</i> false	<i>Pattern:</i> None	
<i>Permissible Value(s)</i>	<i>No Values</i>		

version_identifier in Identification_Information

Name: version_identifier			Version Id: 1.0.0.0
<i>Description:</i> The version_identifier attribute provides the version of the product, expressed in the PDS [m.n] notation.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Class Name:</i> Identification_Information	<i>Type:</i> TBD_value_type
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> None	<i>Maximum Characters:</i> None
<i>Unit of Measure Type:</i> None	<i>Default Unit Id:</i> None	<i>Attribute Concept:</i> None	<i>Conceptual Domain:</i> None
<i>Status:</i> Active	<i>Nillable:</i> false	<i>Pattern:</i> None	
<i>Permissible Value(s)</i>	<i>No Values</i>		

xml_schema_base_type in ASCII_Short_String_Collapsed

Name: xml_schema_base_type			Version Id: 1.0.0.0
<i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Class Name:</i> ASCII_Short_String_Collapsed	<i>Type:</i> ASCII_Short_String_Collapsed
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> 1	<i>Maximum Characters:</i> 255
<i>Unit of Measure Type:</i> None	<i>Default Unit Id:</i> None	<i>Attribute Concept:</i> None	<i>Conceptual Domain:</i> None
<i>Status:</i> Active	<i>Nillable:</i> false	<i>Pattern:</i> None	
<i>Permissible Value(s)</i>	<i>Value</i>	<i>Value Meaning</i>	
	normalizedString	TBD_value_meaning	

xml_schema_base_type in Character_Data_Type

Name: xml_schema_base_type		Version Id: 1.0.0.0	
<i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Class Name:</i> Character_Data_Type	<i>Type:</i> ASCII_Short_String_Collapsed
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> 1	<i>Maximum Characters:</i> 255
<i>Unit of Measure Type:</i> None	<i>Default Unit Id:</i> None	<i>Attribute Concept:</i> None	<i>Conceptual Domain:</i> None
<i>Status:</i> Active	<i>Nilable:</i> false	<i>Pattern:</i> None	
<i>Permissible Value(s)</i>	<i>No Values</i>		

Chapter 6. Data Types in the common namespace.

These classes define the data types.

ASCII_Short_String_Collapsed

Name: ASCII_Short_String_Collapsed		Version Id: 1.0.0.0	
<i>Description</i> The ASCII_Short_String_Collapsed class indicates a limited length, whitespace-collapsed string.			
<i>Schema Base Type:</i> normalizedString			
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> 1	<i>Maximum Characters:</i> 255
<i>No Pattern</i>			

Character_Data_Type

Name: Character_Data_Type		Version Id: 1.0.0.0	
<i>Description</i> The Character Data Type class is the parent class for data types used to classify the values of attributes in class descriptions, i.e., product labels and character digital objects.			
<i>Schema Base Type:</i> None			
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> None	<i>Maximum Characters:</i> None
<i>No Pattern</i>			

Data_Type

Name: Data_Type		Version Id: 1.0.0.0	
<i>Description</i> The Data Type class is the abstract parent class for several classes of data types. / source:			
<i>Schema Base Type:</i> None			
<i>Minimum Value:</i> None	<i>Maximum Value:</i> None	<i>Minimum Characters:</i> None	<i>Maximum Characters:</i> None
<i>No Pattern</i>			