

# **OAIS IF Data Dictionary**

**Abridged - Version 0.1.0.0**

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## **OAIS IF Data Dictionary: Abridged - Version 0.1.0.0**

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Contains namespace ids: oais v0.1.0.0

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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

<b>Name: Abstraction_Layer</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> The Abstraction_Layer contains the interfaces that define the contracts for the interoperability framework.			
<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			

## Native\_Access

<b>Name: Native_Access</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> The Native_Access class provides an access capability for 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 :: Service :: MessagedService :: Functional_Entity :: Native_Access			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Native_Access_is_Element_of_OAIS_IF_Archive_Interface	1..1	OAIS_IF_Archive_Interface
<i>Referenced from:</i> Adapter, Document_PDF_Adapter, Engineering_Data_Adapter, OAIS_Data_Adapter, Other_Adapter, Science_Data_Adapter, Web_HTML_Data_Adapter			

## Native\_Ingest

<b>Name: Native_Ingest</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> The Native_Ingest class provides an ingest capability for 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 :: Service :: MessagedService :: Functional_Entity :: Native_Ingest			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Native_Ingest_is_Element_of_OAIS_IF_Archive_Interface	1..1	OAIS_IF_Archive_Interface



Product Classes in the  
common namespace.

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<b><i>Name:</i> Native_Ingest</b>	<b><i>Version Id:</i> 1.0.0.0</b>
<i>Referenced from:</i> Adapter, Document_PDF_Adapter, Engineering_Data_Adapter, OAIS_Data_Adapter, Other_Adapter, Science_Data_Adapter, Web_HTML_Data_Adapter	

# Chapter 3. Support classes in the common namespace.

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

## Access

<b>Name: Access</b>			<b>Version Id: 1.0.0.0</b>
<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			
<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_is_Element_Of_Consumer_Interface	0..1	Consumer_Interface
	Access_realized_by_Access_Interface	0..1	Access_Interface
	request_AIP	1..1	Archival_Storage
<i>Referenced from:</i> Consumer_Archive_Application			

## Access\_Interface

<b>Name: Access_Interface</b>			<b>Version Id: 1.0.0.0</b>
<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.			
<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	0..1	Abstraction_Layer
<i>Referenced from:</i> Access			

## Access\_Rights\_Information

<b>Name: Access_Rights_Information</b>			<b>Version Id: 1.0.0.0</b>
<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			

<b>Name: Access_Rights_Information</b>			<b>Version Id: 1.0.0.0</b>
<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_is_Element_of_OAIS_Interoperabilty_Framework	1..1	OAIS_Interoperabilty_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	Information_Object_realized_by_Information_Object_Interface	0..1	Information_Object_Interface
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	has_getDataObject_Method	1..1	getDataObject
	has_getRepresentationInformation_Method	1..Unbounded	getRepresentationInformation
	has_putDataObject_Method	1..1	putDataObject
	has_putRepresentationInformation_Method	1..Unbounded	putRepresentationInformation
	Access_Rights_Information_realized_by_Access_Rights_Information_Interface	1..1	Access_Rights_Information_Interface
<i>Referenced from:</i> Preservation_Description_Information			

## Access\_Rights\_Information\_Interface

<b>Name: Access_Rights_Information_Interface</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> The Access Rights Information Interface is a well-defined entry point and contract for accessing Access Rights 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 :: Information_Object_Interface :: Access_Rights_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

Support classes in the common namespace.

<b>Name: Access_Rights_Information_Interface</b>			<b>Version Id: 1.0.0.0</b>
	has_getDataObject__ Method	0..Unbounded	getDataObject
	has_getRepresenta- tionInformation__ Method	1..1	getRepresentationInfor- mation
	has_putDataObject__ Method	0..Unbounded	putDataObject
	has_putRepresenta- tionInformation__ Method	1..1	putRepresentationInfor- mation
<i>Referenced from:</i> Access_Rights_Information			

## Active\_Object

<b>Name: Active_Object</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> An Active Object is an object that reside in its own thread of control.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Active_Object			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> None			

## Adapter

<b>Name: Adapter</b>			<b>Version Id: 1.0.0.0</b>
<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.			
<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_is_Element_ of_OAIS_Interoper- abilty_Framework	1..1	OAIS_Interoperabilty_ Framework
	Adapter_realized_by_ Adapter_Interface	1..1	Adapter_Interface
	Adapter_realized_by_ Identifier_Interface	1..1	Identifier_Interface
	Adapter_realized_by_ Message_Interface	1..1	Message_Interface
	Adaptor_invokes_func- tion	1..1	Native_Access, Na- tive_Ingest
<i>Referenced from:</i> None			

## Adapter\_Interface

<b>Name: Adapter_Interface</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> The Adapter Interface is a well-defined entry point and contract for Bindings.			
<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
	has_setAdapter_Method	1..1	setAdapter
<i>Referenced from:</i> Adapter, Document_PDF_Adapter, Engineering_Data_Adapter, OAIS_Data_Adapter, Other_Adapter, Science_Data_Adapter, Web_HTML_Data_Adapter			

## Archival\_Information\_Package

<b>Name: Archival_Information_Package</b>			<b>Version Id: 1.0.0.0</b>
<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			
<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_is_Element_of_OAIS_Interoperabilty_Framework	1..1	OAIS_Interoperabilty_Framework
	Archival_Information_Package_is_stored_in_Archival_Storage	1..1	Archival_Storage
	Information_Object_realized_by_Information_Object_Interface	0..1	Information_Object_Interface
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	has_getDataObject_Method	1..1	getDataObject
	has_getRepresentationInformation_Method	1..Unbounded	getRepresentationInformation

Support classes in the common namespace.

<b>Name: Archival_Information_Package</b>			<b>Version Id: 1.0.0.0</b>
	has_putDataObject__ Method	1..1	putDataObject
	has_putRepresenta- tionInformation__ Method	1..Unbounded	putRepresentationInfor- mation
	has_Content_Informa- tion	1..1	Content_Information
<i>Referenced from:</i> None			

## Archival\_Storage

<b>Name: Archival_Storage</b>			<b>Version Id: 1.0.0.0</b>
<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			
<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

<b>Name: Archive</b>			<b>Version Id: 1.0.0.0</b>
<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			

## Binding\_Layer

<b>Name: Binding_Layer</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> The Binding 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 :: Binding_Layer			
<i>No Attributes</i>			

Support classes in the common namespace.

<b>Name: Binding_Layer</b>			<b>Version Id: 1.0.0.0</b>
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Binding_Layer_is_Element_Of_OAIS_Interoperability_Framework	0..1	OAIS_Interoperability_Framework
<i>Referenced from:</i> Document_PDF_Adapter, Engineering_Data_Adapter, OAIS_Data_Adapter, Other_Adapter, Science_Data_Adapter, Web_HTML_Data_Adapter			

## Client

<b>Name: Client</b>			<b>Version Id: 1.0.0.0</b>
<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.			
<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

<b>Name: Component</b>			<b>Version Id: 1.0.0.0</b>
<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.			
<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

<b>Name: Conceptual_Object</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> The Conceptual Object class defines a non-tangible object that is also not a digital object. /source: /pds			
<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

<b>Name: Consumer_Application_Layer</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> The Consumer Application Layer contains a program or group of programs designed for Consumer.			
<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_Application_Layer			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Consumer_Application_Layer_is_Element_Of_Client	0..1	Client
<i>Referenced from:</i> Consumer_Archive_Application, Dissemination_Information_Package			

## Consumer\_Archive\_Application

<b>Name: Consumer_Archive_Application</b>			<b>Version Id: 1.0.0.0</b>
<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			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Consumer_Archive_Application			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Consumer_Archive_Application_Receive_Dissemination_Information_Package	0..1	Dissemination_Information_Package
	Consumer_Archive_Application_Receive_Information_Package	0..1	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_requests_through_Access	0..1	Access
<i>Referenced from:</i> None			



## Consumer\_Interface

<b>Name: Consumer_Interface</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> The Consumer Interface provides abstractions of consumer services.			
<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_Interoperabilty_Framework	0..1	OAIS_Interoperabilty_Framework
<i>Referenced from:</i> Access, Negotiate			

## Content\_Data\_Object

<b>Name: Content_Data_Object</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> Content Data Object: The Data Object, that together with associated Representation Information, comprises the Content Information. /source: ISO_14721_2012			
<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_Information
<i>Referenced from:</i> Content_Information			

## Content\_Information

<b>Name: Content_Information</b>			<b>Version Id: 1.0.0.0</b>
<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			
<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
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_is_Element_of_OAIS_Interoperabilty_Framework	1..1	OAIS_Interoperabilty_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage

Support classes in the common namespace.

<b>Name: Content_Information</b>			<b>Version Id: 1.0.0.0</b>
	Information_Object_realized_by_Information_Object_Interface	0..1	Information_Object_Interface
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	has_getDataObject_Method	1..1	getDataObject
	has_getRepresentationInformation_Method	1..Unbounded	getRepresentationInformation
	has_putDataObject_Method	1..1	putDataObject
	has_putRepresentationInformation_Method	1..Unbounded	putRepresentationInformation
	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

<b>Name: Context_Information</b>			<b>Version Id: 1.0.0.0</b>
<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			
<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_is_Element_of_OAIS_Interoperabilty_Framework	1..1	OAIS_Interoperabilty_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	Information_Object_realized_by_Information_Object_Interface	0..1	Information_Object_Interface
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information

Support classes in the common namespace.

<b>Name: Context_Information</b>			<b>Version Id: 1.0.0.0</b>
	has_getDataObject__ Method	1..1	getDataObject
	has_getRepresenta- tionInformation__ Method	1..Unbounded	getRepresentationInfor- mation
	has_putDataObject__ Method	1..1	putDataObject
	has_putRepresenta- tionInformation__ Method	1..Unbounded	putRepresentationInfor- mation
<i>Referenced from:</i> Preservation_Description_Information			

## DOID

<b>Name: DOID</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> DOID: An identifier which names an instance of a Data Object. (Data Object Identifier)			
<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

<b>Name: Data_Object</b>			<b>Version Id: 1.0.0.0</b>
<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_Infor- mation
<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

<b>Name: Data_Object_Interface</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> The Data Object Interface is a well-defined entry point and contract for accessing a Data_Object.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active

<b>Name: Data_Object_Interface</b>		<b>Version Id: 1.0.0.0</b>	
<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

<b>Name: Digital_Object</b>		<b>Version Id: 1.0.0.0</b>	
<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

<b>Name: Dissemination_Information_Package</b>		<b>Version Id: 1.0.0.0</b>	
<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			
<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_is_Element_of_OAIS_Interoperabilty_Framework	1..1	OAIS_Interoperabilty_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	Information_Object_realized_by_Information_Object_Interface	0..1	Information_Object_Interface
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	has_getDataObject_Method	1..1	getDataObject

Support classes in the common namespace.

<b>Name: Dissemination_Information_Package</b>			<b>Version Id: 1.0.0.0</b>
	has_getRepresentationInformation__Method	1..Unbounded	getRepresentationInformation
	has_putDataObject__Method	1..1	putDataObject
	has_putRepresentationInformation__Method	1..Unbounded	putRepresentationInformation
	Dissemination_Information_Packageis_Element_Of_Consumer_Application_Layer	0..1	Consumer_Application_Layer
<i>Referenced from:</i> Consumer_Archive_Application			

## Document\_PDF\_Adapter

<b>Name: Document_PDF_Adapter</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> Document PDF is an adapter that provides a bridge between the OAIS Information Model and the native information model used by a Document PDF 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 :: Document_PDF_Adapter			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Adapter_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Document%2FPDF_realized_by_Adapter_Interface	0..1	Adapter_Interface
	Adapter_realized_by_Identifier_Interface	1..1	Identifier_Interface
	Adapter_realized_by_Message_Interface	1..1	Message_Interface
	Adaptor_invokes_function	1..1	Native_Access, Native_Ingest
	Document%2FPDF_is_Element_Of_Binding_Layer	0..1	Binding_Layer
<i>Referenced from:</i> None			

## Engineering\_Data\_Adapter

<b>Name: Engineering_Data_Adapter</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> Engineering_Data is an adapter that provides a bridge between the OAIS Information Model and the native information model used by an engineering data archive.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> abstract	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Adapter :: Engineering_Data_Adapter			

Support classes in the common namespace.

<b>Name: Engineering_Data_Adapter</b>			<b>Version Id: 1.0.0.0</b>
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Adapter_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Engineering_Data_realized_by_Adapter_Interface	0..1	Adapter_Interface
	Adapter_realized_by_Identifier_Interface	1..1	Identifier_Interface
	Adapter_realized_by_Message_Interface	1..1	Message_Interface
	Adaptor_invokes_function	1..1	Native_Access, Native_Ingest
	Engineering_Data_is_Element_Of_Binding_Layer	0..1	Binding_Layer
<i>Referenced from: None</i>			

## Fixity\_Information

<b>Name: Fixity_Information</b>			<b>Version Id: 1.0.0.0</b>
<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			
<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_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	Information_Object_realized_by_Information_Object_Interface	0..1	Information_Object_Interface
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	has_getDataObject_Method	1..1	getDataObject

Support classes in the common namespace.

<b>Name: Fixity_Information</b>			<b>Version Id: 1.0.0.0</b>
	has_getRepresentationInformation__Method	1..Unbounded	getRepresentationInformation
	has_putDataObject__Method	1..1	putDataObject
	has_putRepresentationInformation__Method	1..Unbounded	putRepresentationInformation
	Fixity_Information_realized_by_Fixity_Information_Interface	1..1	Fixity_Information_Interface
<i>Referenced from:</i> Preservation_Description_Information			

## Fixity\_Information\_Interface

<b>Name: Fixity_Information_Interface</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> The Fixity Information Interface is a well-defined entry point and contract for accessing Fixity 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 :: Information_Object_Interface :: Fixity_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> Fixity_Information			

## Functional\_Entity

<b>Name: Functional_Entity</b>			<b>Version Id: 1.0.0.0</b>
<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: /jsh			
<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>			

<b>Name: Functional_Entity</b>	<b>Version Id: 1.0.0.0</b>
<i>Referenced from:</i> None	

## Identification\_Information

<b>Name: Identification_Information</b>		<b>Version Id: 1.0.0.0</b>	
<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_is_Element_of_OAIS_Interoperabilty_Framework	1..1	OAIS_Interoperabilty_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	Information_Object_realized_by_Information_Object_Interface	0..1	Information_Object_Interface
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	has_getDataObject_Method	1..1	getDataObject
	has_getRepresentationInformation_Method	1..Unbounded	getRepresentationInformation
	has_putDataObject_Method	1..1	putDataObject
	has_putRepresentationInformation_Method	1..Unbounded	putRepresentationInformation
<i>Referenced from:</i> None			

## Identifier

<b>Name: Identifier</b>		<b>Version Id: 1.0.0.0</b>	
<i>Description:</i> Identifier: A token which names an instance of an object class.			
<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>			



<b>Name: Identifier</b>		<b>Version Id: 1.0.0.0</b>
<i>No Associations</i>		
<i>Referenced from: None</i>		

## Identifier\_Interface

<b>Name: Identifier_Interface</b>		<b>Version Id: 1.0.0.0</b>	
<i>Description:</i> The Identifier Interface is a well-defined entry point for an object and provides a contract for identifying Information Objects.			
<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, Document_PDF_Adapter, Engineering_Data_Adapter, OAIS_Data_Adapter, Other_Adapter, Science_Data_Adapter, Web_HTML_Data_Adapter			

## Information\_Architecture

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

## Information\_Object

<b>Name: Information_Object</b>		<b>Version Id: 1.0.0.0</b>	
<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			
<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_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework

Support classes in the common namespace.

<b>Name: Information_Object</b>			<b>Version Id: 1.0.0.0</b>
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	Information_Object_realized_by_Information_Object_Interface	0..1	Information_Object_Interface
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	has_getDataObject__Method	1..1	getDataObject
	has_getRepresentationInformation__Method	1..Unbounded	getRepresentationInformation
	has_putDataObject__Method	1..1	putDataObject
	has_putRepresentationInformation__Method	1..Unbounded	putRepresentationInformation
<i>Referenced from:</i> None			

## Information\_Object\_Interface

<b>Name: Information_Object_Interface</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> The Information Object Interface is a well-defined entry point and contract for accessing an Information_Object.			
<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>
	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> 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			

## Information\_Package

<b>Name: Information_Package</b>		<b>Version Id: 1.0.0.0</b>	
<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			
<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_is_Element_of_OAIS_Interoperabilty_Framework	1..1	OAIS_Interoperabilty_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	Information_Object_realized_by_Information_Object_Interface	0..1	Information_Object_Interface
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	has_getDataObject_Method	1..1	getDataObject
	has_getRepresentationInformation_Method	1..Unbounded	getRepresentationInformation
	has_putDataObject_Method	1..1	putDataObject
	has_putRepresentationInformation_Method	1..Unbounded	putRepresentationInformation
<i>Referenced from:</i> Consumer_Archive_Application			

## Information\_Property

<b>Name: Information_Property</b>		<b>Version Id: 1.0.0.0</b>	
<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>			

Support classes in the common namespace.

<b>Name: Information_Property</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: Ingest</b>			<b>Version Id: 1.0.0.0</b>
<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			
<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_is_Element_Of_Producer_Interface	0..1	Producer_Interface
	Ingest_realized_by_Ingest_Interface	0..1	Ingest_Interface
	send_AIP	1..1	Archival_Storage
<i>Referenced from:</i> Producer_Archive_Application			

## Ingest\_Interface

<b>Name: Ingest_Interface</b>			<b>Version Id: 1.0.0.0</b>
<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.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Interface :: Ingest_Interface			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Ingest_Interface_is_Element_Of_Abstraction_Layer	0..1	Abstraction_Layer
<i>Referenced from:</i> Ingest			

## Interface

<b>Name: Interface</b>			<b>Version Id: 1.0.0.0</b>
<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			

<b>Name: Interface</b>			<b>Version Id: 1.0.0.0</b>
Namespace Id: oais	Steward: oais	Role: abstract	Status: Active
Class Hierarchy: System_Architecture :: Interface			
No Attributes			
No Associations			
Referenced from: None			

## Message\_Interface

<b>Name: Message_Interface</b>			<b>Version Id: 1.0.0.0</b>
Description: The Message Interface is a well-defined entry point and contract for passing messages.			
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
	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_requestRepIn- foIDs__Method	1..1	requestRepInfoIDs
	has_sendPackage__ Method	1..1	sendPackage
	has_sendRepInfoPack- age__Method	1..1	sendRepInfoPackage
Referenced from: Adapter, Document_PDF_Adapter, Engineering_Data_Adapter, OAIS_Data_Adapter, Other_Adapter, Science_Data_Adapter, Web_HTML_Data_Adapter			

## MessagingService

<b>Name: MessagingService</b>			<b>Version Id: 1.0.0.0</b>
Description: The MessagingService class defines system services that are invoked using messages.			
Namespace Id: oais	Steward: oais	Role: abstract	Status: Active
Class Hierarchy: System_Architecture :: Service :: MessagingService			
No Attributes			
No Associations			

<b>Name: MessagedService</b>	<b>Version Id: 1.0.0.0</b>
<i>Referenced from:</i> None	

## Method

<b>Name: Method</b>	<b>Version Id: 1.0.0.0</b>		
<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

<b>Name: Negotiate</b>	<b>Version Id: 1.0.0.0</b>		
<i>Description:</i> The Negotiate function allows a user and the OAIS to negotiate adapters that enable them to interoperate.			
<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_is_Element_Of_Consumer_Interface	0..1	Consumer_Interface
	Negotiate_is_Element_Of_Producer_Interface	0..1	Producer_Interface
	Negotiate_realized_by_Negotiate_Interface	0..1	Negotiate_Interface
<i>Referenced from:</i> Consumer_Archive_Application, Producer_Archive_Application			

## Negotiate\_Interface

<b>Name: Negotiate_Interface</b>	<b>Version Id: 1.0.0.0</b>		
<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.			
<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

Support classes in the common namespace.

<b>Name: Negotiate_Interface</b>			<b>Version Id: 1.0.0.0</b>
	has_agreeStrategy__ Method	0..Unbounded	agreeStrategy
	has_chooseAdapter__ Method	0..Unbounded	chooseAdapter
<i>Referenced from:</i> Negotiate			

## OAIS\_Data\_Adapter

<b>Name: OAIS_Data_Adapter</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> OAIS Data is an adapter that provides a bridge between the OAIS Information Model and the implemented information model used by an OAIS compliant archive.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> abstract	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Adapter :: OAIS_Data_Adapter			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Adapter_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	OAIS_Data_realized_by_Adapter_Interface	0..1	Adapter_Interface
	Adapter_realized_by_Identifier_Interface	1..1	Identifier_Interface
	Adapter_realized_by_Message_Interface	1..1	Message_Interface
	Adaptor_invokes_function	1..1	Native_Access, Native_Ingest
	OAIS_Data_is_Element_Of_Binding_Layer	0..1	Binding_Layer
<i>Referenced from:</i> None			

## OAIS\_IF\_Archive

<b>Name: OAIS_IF_Archive</b>			<b>Version Id: 1.0.0.0</b>
<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.			
<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>			
<i>No Associations</i>			
<i>Referenced from:</i> OAIS_IF_Archive_Interface			

## OAIS\_IF\_Archive\_Interface

<b>Name: OAIS_IF_Archive_Interface</b>			<b>Version Id: 1.0.0.0</b>
<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.			
<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			
<i>No Attributes</i>			
<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
<i>Referenced from:</i> Native_Access, Native_Ingest			

## OAIS\_Interoperability\_Framework

<b>Name: OAIS_Interoperability_Framework</b>			<b>Version Id: 1.0.0.0</b>
<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.			
<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			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Access_Rights_Information, Adapter, Archival_Information_Package, Binding_Layer, Consumer_Archive_Application, Consumer_Interface, Content_Information, Context_Information, Dissemination_Information_Package, Document_PDF_Adapter, Engineering_Data_Adapter, Fixity_Information, Identification_Information, Information_Object, Information_Package, OAIS_Data_Adapter, Other_Adapter, Packaged_Information, Preservation_Description_Information, Producer_Archive_Application, Producer_Interface, Provenance_Information, Reference_Information, Representation_Information, Science_Data_Adapter, Submission_Information_Package, Web_HTML_Data_Adapter			

## ORIID

<b>Name: ORIID</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> ORIID: an Identifier which names an instance of Representation Information. (Object Representation Information ID)			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Identifier :: ORIID			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> None			



## Order\_Agreement

<b>Name: Order_Agreement</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> 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			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> concrete	<i>Status:</i> Active
<i>Class Hierarchy:</i> Information_Architecture :: Order_Agreement			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> None			

## Other\_Adapter

<b>Name: Other_Adapter</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> Other is a an adapter that provides a bridge between the OAIS Information Model and the native information model used by some data 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 :: Other_Adapter			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Adapter_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Other_realized_by_Adapter_Interface	0..1	Adapter_Interface
	Adapter_realized_by_Identifier_Interface	1..1	Identifier_Interface
	Adapter_realized_by_Message_Interface	1..1	Message_Interface
	Adaptor_invokes_function	1..1	Native_Access, Native_Ingest
	Other_is_Element_Of_Binding_Layer	0..1	Binding_Layer
<i>Referenced from:</i> None			

## Packaged\_Information

<b>Name: Packaged_Information</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> 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.			
<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 :: Packaged_Information			
<i>Attribute(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Value</i>

Support classes in the common namespace.

<b>Name: Packaged_Information</b>			<b>Version Id: 1.0.0.0</b>
	PID	1..1	None
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Information_Object_is_Element_of_OAIS_Interoperabilty_Framework	1..1	OAIS_Interoperabilty_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	Information_Object_realized_by_Information_Object_Interface	0..1	Information_Object_Interface
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	has_getDataObject_Method	1..1	getDataObject
	has_getRepresentationInformation_Method	1..Unbounded	getRepresentationInformation
	has_putDataObject_Method	1..1	putDataObject
	has_putRepresentationInformation_Method	1..Unbounded	putRepresentationInformation
<i>Referenced from:</i> None			

## Packaged\_Information\_Interface

<b>Name: Packaged_Information_Interface</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> The Packaged Information Interface is a well-defined entry point and contract for accessing a Packaged_Information Information Object.			
<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

<b>Name: Packaged_Information_Interface</b>			<b>Version Id: 1.0.0.0</b>
	has_putRepresentationInformation__ Method	1..1	putRepresentationInformation
<i>Referenced from:</i> None			

## Physical\_Object

<b>Name: Physical_Object</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: Preservation_Description_Information</b>			<b>Version Id: 1.0.0.0</b>
<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			
<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_is_Element_of_OAIS_Interoperabilty_Framework	1..1	OAIS_Interoperabilty_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	Information_Object_realized_by_Information_Object_Interface	0..1	Information_Object_Interface
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information

<b>Name: Preservation_Description_Information</b>			<b>Version Id: 1.0.0.0</b>
	has_getDataObject__ Method	1..1	getDataObject
	has_getRepresenta- tionInformation__ Method	1..Unbounded	getRepresentationInfor- mation
	has_putDataObject__ Method	1..1	putDataObject
	has_putRepresenta- tionInformation__ Method	1..Unbounded	putRepresentationInfor- mation
	has_Access_Rights	1..1	Access_Rights_Infor- mation
	has_Context	1..1	Context_Information
	has_Fixity	1..1	Fixity_Information
	has_Provenance	1..1	Provenance_Informa- tion
	has_Reference	0..1	Reference_Information
	provides_preservation_ information_for	0..1	Content_Information
<i>Referenced from:</i> Content_Information			

## Producer\_Application\_Layer

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

<b>Name: Producer_Archive_Application</b>			<b>Version Id: 1.0.0.0</b>
<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			
<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_Ap- plication_consumes_ _	0..1	OAIS_Interoperability_ Framework

<b>Name: Producer_Archive_Application</b>			<b>Version Id: 1.0.0.0</b>
	OAIS_Interoperabilty_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

<b>Name: Producer_Interface</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> The Producer Interface is an abstraction of producer services.			
<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_Interoperabilty_Framework	0..1	OAIS_Interoperabilty_Framework
<i>Referenced from:</i> Ingest, Negotiate			

## Provenance\_Information

<b>Name: Provenance_Information</b>			<b>Version Id: 1.0.0.0</b>
<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			
<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>

<b>Name: Provenance_Information</b>			<b>Version Id: 1.0.0.0</b>
	Information_Object_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	Information_Object_realized_by_Information_Object_Interface	0..1	Information_Object_Interface
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	has_getDataObject_Method	1..1	getDataObject
	has_getRepresentationInformation_Method	1..Unbounded	getRepresentationInformation
	has_putDataObject_Method	1..1	putDataObject
	has_putRepresentationInformation_Method	1..Unbounded	putRepresentationInformation
	Provenance_Information_realized_by_Provenance_Information_Interface	1..1	Provenance_Information_Interface
<i>Referenced from:</i> Preservation_Description_Information			

## Provenance\_Information\_Interface

<b>Name: Provenance_Information_Interface</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> The Provenance Information Interface is a well-defined entry point and contract for accessing Provenance 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 :: 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

Support classes in the common namespace.

<b>Name: Provenance_Information_Interface</b>			<b>Version Id: 1.0.0.0</b>
	has_putDataObject__ Method	0..Unbounded	putDataObject
	has_putRepresenta- tionInformation__ Method	1..1	putRepresentationInfor- mation
<i>Referenced from:</i> Provenance_Information			

## Reference\_Information

<b>Name: Reference_Information</b>			<b>Version Id: 1.0.0.0</b>
<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			
<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_ is_Element_of_OAIS_ Interoperabilty_Frame- work	1..1	OAIS_Interoperabilty_ Framework
	Information_Object_ is_Managed_by_ Archival_Storage	1..1	Archival_Storage
	Information_Object_ realized_by_Informa- tion_Object_Interface	0..1	Information_Object_In- terface
	has_Data_Object	1..1	Data_Object
	has_Representation_In- formation	1..1	Representation_Infor- mation
	has_getDataObject__ Method	1..1	getDataObject
	has_getRepresenta- tionInformation__ Method	1..Unbounded	getRepresentationInfor- mation
	has_putDataObject__ Method	1..1	putDataObject
	has_putRepresenta- tionInformation__ Method	1..Unbounded	putRepresentationInfor- mation
	Reference_Informa- tion_realized_by_Ref- erence_Information_In- terface	1..1	Reference_Informa- tion_Interface
<i>Referenced from:</i> Preservation_Description_Information			

## Reference\_Information\_Interface

<b>Name: Reference_Information_Interface</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> The Reference Information Interface is a well-defined entry point and contract for accessing Reference 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 :: 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
	has_putRepresentationInformation__Method	1..1	putRepresentationInformation
<i>Referenced from:</i> Reference_Information			

## Representation\_Information

<b>Name: Representation_Information</b>			<b>Version Id: 1.0.0.0</b>
<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			
<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_is_Element_of_OAIS_Interoperabilty_Framework	1..1	OAIS_Interoperabilty_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage



Support classes in the common namespace.

<b>Name: Representation_Information</b>			<b>Version Id: 1.0.0.0</b>
	Information_Object_realized_by_Information_Object_Interface	0..1	Information_Object_Interface
	has_Data_Object	1..1	Data_Object
	interpreted_using_recurse	1..Unbounded	Representation_Information
	has_getDataObject_Method	1..1	getDataObject
	has_getRepresentationInformation_Method	1..Unbounded	getRepresentationInformation
	has_putDataObject_Method	1..1	putDataObject
	has_putRepresentationInformation_Method	1..Unbounded	putRepresentationInformation
	Representation_Information_realized_by_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

<b>Name: Representation_Information_Interface</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> The Representation Information Interface is a well-defined entry point and contract for accessing 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 :: 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

Support classes in the common namespace.

<b>Name: Representation_Information_Interface</b>			<b>Version Id: 1.0.0.0</b>
	has_putRepresentationInformation__Method	1..1	putRepresentationInformation
<i>Referenced from:</i> Representation_Information			

## Science\_Data\_Adapter

<b>Name: Science_Data_Adapter</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> Science Data is an adapter that provides a bridge between the OAIS Information Model and the native information model used by a science data archive.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> abstract	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Adapter :: Science_Data_Adapter			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Adapter_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Science_Data_realized_by_Adapter_Interface	0..1	Adapter_Interface
	Adapter_realized_by_Identifier_Interface	1..1	Identifier_Interface
	Adapter_realized_by_Message_Interface	1..1	Message_Interface
	Adaptor_invokes_function	1..1	Native_Access, Native_Ingest
	Science_Data_is_Element_Of_Binding_Layer	0..1	Binding_Layer
<i>Referenced from:</i> None			

## Service

<b>Name: Service</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: Submission_Information_Package</b>			<b>Version Id: 1.0.0.0</b>
<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 associated Descriptive Information.			
<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_is_Element_of_OAIS_Interoperabilty_Framework	1..1	OAIS_Interoperabilty_Framework
	Information_Object_is_Managed_by_Archival_Storage	1..1	Archival_Storage
	Information_Object_realized_by_Information_Object_Interface	0..1	Information_Object_Interface
	has_Data_Object	1..1	Data_Object
	has_Representation_Information	1..1	Representation_Information
	has_getDataObject_Method	1..1	getDataObject
	has_getRepresentationInformation_Method	1..Unbounded	getRepresentationInformation
	has_putDataObject_Method	1..1	putDataObject
	has_putRepresentationInformation_Method	1..Unbounded	putRepresentationInformation
	Submission_Information_Packageis_Element_Of_Producer_Application_Layer	0..1	Producer_Application_Layer
<i>Referenced from:</i> Producer_Archive_Application			

## System\_Architecture

<b>Name: System_Architecture</b>			<b>Version Id: 1.0.0.0</b>
<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			

<b>Name: System_Architecture</b>		<b>Version Id: 1.0.0.0</b>	
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from: None</i>			

## Web\_HTML\_Data\_Adapter

<b>Name: Web_HTML_Data_Adapter</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> Web HTML Data is an adapter that provides a bridge between the OAIS Information Model and the native information model used by a Web HTML archive.			
<i>Namespace Id:</i> oais	<i>Steward:</i> oais	<i>Role:</i> abstract	<i>Status:</i> Active
<i>Class Hierarchy:</i> System_Architecture :: Adapter :: Web_HTML_Data_Adapter			
<i>No Attributes</i>			
<i>Association(s)</i>	<i>Name</i>	<i>Cardinality</i>	<i>Class</i>
	Adapter_is_Element_of_OAIS_Interoperability_Framework	1..1	OAIS_Interoperability_Framework
	Web_HTML_Data_realized_by_Adapter_Interface	0..1	Adapter_Interface
	Adapter_realized_by_Identifier_Interface	1..1	Identifier_Interface
	Adapter_realized_by_Message_Interface	1..1	Message_Interface
	Adaptor_invokes_function	1..1	Native_Access, Native_Ingest
	Web_HTML_Data_is_Element_Of_Binding_Layer	0..1	Binding_Layer
<i>Referenced from: None</i>			

## accessIO

<b>Name: accessIO</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: agreeStrategy</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: chooseAdapter</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> chooseAdapter: a method that given an 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

<b>Name: getDOID</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: getDataObject</b>			<b>Version Id: 1.0.0.0</b>
<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, Access_Rights_Information_Interface, Archival_Information_Package, Content_Information, Context_Information, Dissemination_Information_			

<b>Name: getDataObject</b>	<b>Version Id: 1.0.0.0</b>
Package, Fixity_Information, Fixity_Information_Interface, Identification_Information, Information_Object, Information_Object_Interface, Information_Package, Packaged_Information, Packaged_Information_Interface, Preservation_Description_Information, Provenance_Information, Provenance_Information_Interface, Reference_Information, Reference_Information_Interface, Representation_Information, Representation_Information_Interface, Submission_Information_Package	

## getORID

<b>Name: getORID</b>	<b>Version Id: 1.0.0.0</b>		
<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

<b>Name: getReceiver</b>	<b>Version Id: 1.0.0.0</b>		
<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

<b>Name: getRepresentationInformation</b>	<b>Version Id: 1.0.0.0</b>		
<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>			
<i>Referenced from:</i> Access_Rights_Information, Access_Rights_Information_Interface, Archival_Information_Package, Content_Information, Context_Information, Dissemination_Information_Package, Fixity_Information, Fixity_Information_Interface, Identification_Information, Information_Object, Information_Object_Interface, Information_Package, Packaged_Information, Packaged_Information_Interface, Preservation_Description_Information, Provenance_Information, Provenance_Information_Interface, Reference_Information, Reference_Information_Interface, Representation_Information, Representation_Information_Interface, Submission_Information_Package			

## getSender

<b>Name: getSender</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: ingestIO</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: isInfoUsable</b>			<b>Version Id: 1.0.0.0</b>
<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

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

## putDataObject

<b>Name: putDataObject</b>			<b>Version Id: 1.0.0.0</b>
<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, Access_Rights_Information_Interface, Archival_Information_Package, Content_Information, Context_Information, Dissemination_Information_Package, Fixity_Information, Fixity_Information_Interface, Identification_Information, Information_Object, Information_Object_Interface, Information_Package, Packaged_Information, Packaged_Information_Interface, Preservation_Description_Information, Provenance_Information, Provenance_Information_Interface, Reference_Information, Reference_Information_Interface, Representation_Information, Representation_Information_Interface, Submission_Information_Package			

## putRepresentationInformation

<b>Name: putRepresentationInformation</b>			<b>Version Id: 1.0.0.0</b>
<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, Access_Rights_Information_Interface, Archival_Information_Package, Content_Information, Context_Information, Dissemination_Information_Package, Fixity_Information, Fixity_Information_Interface, Identification_Information, Information_Object, Information_Object_Interface, Information_Package, Packaged_Information, Packaged_Information_Interface, Preservation_Description_Information, Provenance_Information, Provenance_Information_Interface, Reference_Information, Reference_Information_Interface, Representation_Information, Representation_Information_Interface, Submission_Information_Package			

## queryRequest

<b>Name: queryRequest</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: requestPackage</b>			<b>Version Id: 1.0.0.0</b>
<i>Description:</i> requestPackage: a method that requests 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 :: requestPackage			
<i>No Attributes</i>			
<i>No Associations</i>			
<i>Referenced from:</i> Message_Interface			

## requestRepInfoIDs

<b>Name: requestRepInfoIDs</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: sendPackage</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: sendRepInfoPackage</b>			<b>Version Id: 1.0.0.0</b>
<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

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

## setORIID

<b>Name: setORIID</b>			<b>Version Id: 1.0.0.0</b>
<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. Attributes in the common namespace.

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

## PID in Information\_Object

<b>Name: PID</b>			<b>Version Id: 1.0.0.0</b>
<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>	<i>No Values</i>		

## character\_constraint in ASCII\_Short\_String\_Collapsed

<b>Name: character_constraint</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: character_constraint</b>			<b>Version Id: 1.0.0.0</b>
<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	

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

## character\_encoding in Character\_Data\_Type

<b>Name: character_encoding</b>		<b>Version Id: 1.0.0.0</b>	
<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

<b>Name: formation_rule</b>		<b>Version Id: 1.0.0.0</b>	
<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

<b>Name: logical_identifier</b>		<b>Version Id: 1.0.0.0</b>	
<i>Description:</i> The logical_idenfifer 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

<b>Name: maximum_characters</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: maximum_characters</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: maximum_value</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: minimum_characters</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: minimum_characters</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: minimum_value</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: pattern</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: version_identifier</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name: xml_schema_base_type</b>			<b>Version Id: 1.0.0.0</b>
<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

<b>Name:</b> xml_schema_base_type		<b>Version Id:</b> 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>		



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# Chapter 5. Data Types in the common namespace.

These classes define the data types.

## ASCII\_Short\_String\_Collapsed

<b>Name:</b> ASCII_Short_String_Collapsed		<b>Version Id:</b> 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

<b>Name:</b> Character_Data_Type		<b>Version Id:</b> 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

<b>Name:</b> Data_Type		<b>Version Id:</b> 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>			