Data Preservation

V5. Two data preservation standards

OAIS

PREMIS

OAIS

The Open Archival Information System (OAIS) is a model for data archives.*

It is documented *in Reference Model for an Open Archival Information System (OAIS)*, *Recommended Practice*, CCSDS 650.0-M-2 Issue 2, June 2012.
https://public.ccsds.org/Pubs/650x0m2.pdf

OAIS was developed by the Consultative Committee for Space Data Systems [CCSDS 650.0-B-2], originally for space agency data

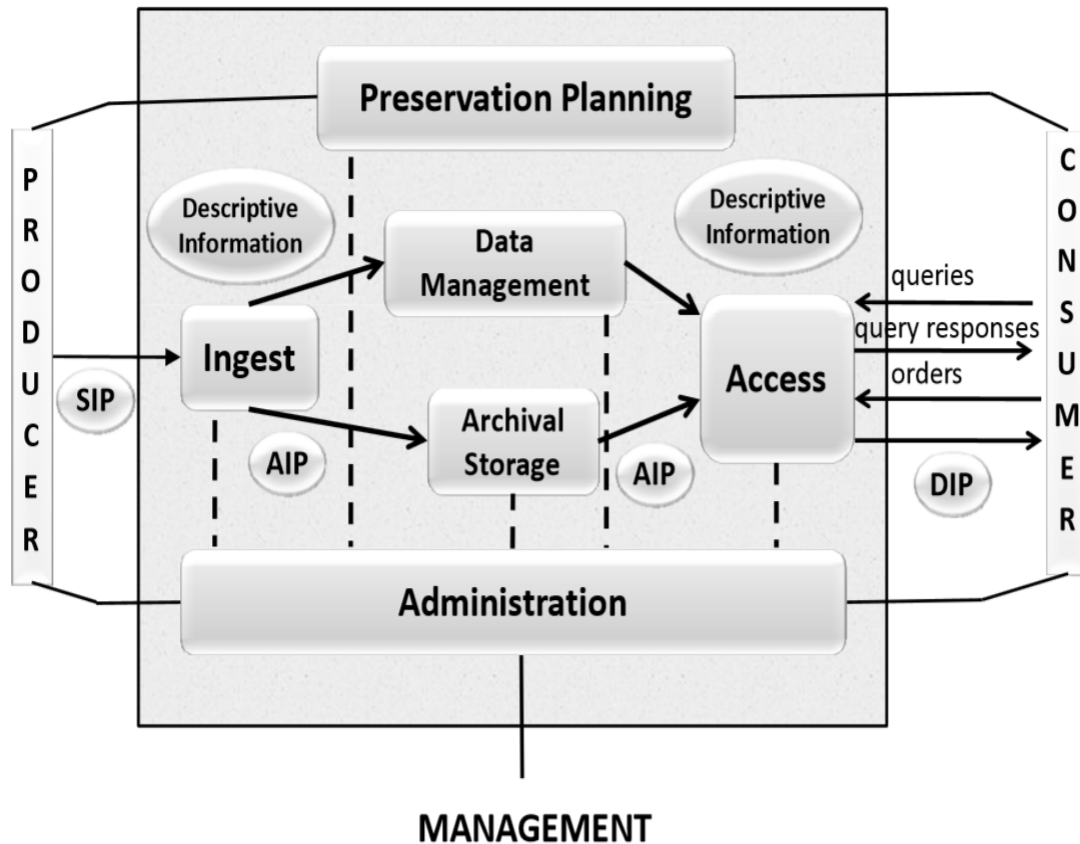*but now the most influential high level data archiving standard.*

It is very comprehensive, but also very high level,
which means that it is a general framework
but not a specific set of rules, formats, techniques, etc.

Take a look: https://public.ccsds.org/Pubs/650x0m2.pdf

*"OAIS" also refers to archives themselves as well as the standard.

OAIS Functional Model

Section 4.1 – Oasis Functional Entities:

Reference Model for an Open Archival Information System (OAIS),
 Recommended Practice, CCSDS 650.0-M-2 (Magenta Book) Issue 2, June 2012

OAIS Information Package

Information Package Definition:

Content Information
(Information Object)

Content
Data Object
(Data Object)

Representation
Information

Preservation Description Information

Reference

Provenance

Context

Fixity

Access Rights

PREMIS

PRESERVATION METADATA ———
——— MAINTENANCE ACTIVITY

The PREMIS Data Dictionary for Preservation Metadata is the international standard for metadata to support the preservation of digital objects and ensure their long-term usability. Developed by an international team of experts, PREMIS is implemented in digital preservation projects around the world, and support for PREMIS is incorporated into a number of commercial and open-source digital preservation tools and systems. The PREMIS Editorial Committee coordinates revisions and implementation of the standard, which consists of the Data Dictionary, an XML schema, and supporting documentation.

Official Web Site

▸ **PREMIS 2.2 (and Schema version 2.3)**

› **PREMIS Data Dictionary for Preservation Metadata, version 2.2** *(PDF:3.38MB/272pp.)*
This publication includes the PREMIS Introduction, the Data Dictionary, Special Topics, Methodology and Glossary. The data dictionary and report with supporting documentation are also available as separate documents:

› **PREMIS Data Dictionary, version 2.2** *(PDF:1.01MB/227pp.)*
The PREMIS Data Dictionary for core preservation metadata needed to support the long-term preservation of digital materials.

› **PREMIS Introduction and Supporting Documentation, version 2.2** *(PDF:285K/51pp.)*
Provides information on the background, objectives, data model, implementation and other supporting documentation for the PREMIS Data Dictionary.

› **PREMIS Data Dictionary Entity Hierarchical Listing, version 2.2**
A hierarchical list by PREMIS semantic unit.

› **PREMIS Schema 2.2**

News and articles:

▸ **PREMIS - Implementation Fair, Oct. 6, 2014** NEW!

▸ **PREMIS - Approved Changes for Version 3.0** NEW!

▸ **PREMIS - Version 2.3 Now Available** NEW!

▸ **PREMIS - Schema 2.3** NEW!

▸ **Preservation Metadata Vocabularies at id.loc.gov** NEW!

▸ **PREMIS Owl Ontology**

› **Ontology**

› **Announcement**

▸ **PREMIS Implementation Fair at iPRES 2013 in Lisbon, Portugal**

PREMIS Implementors' Group