

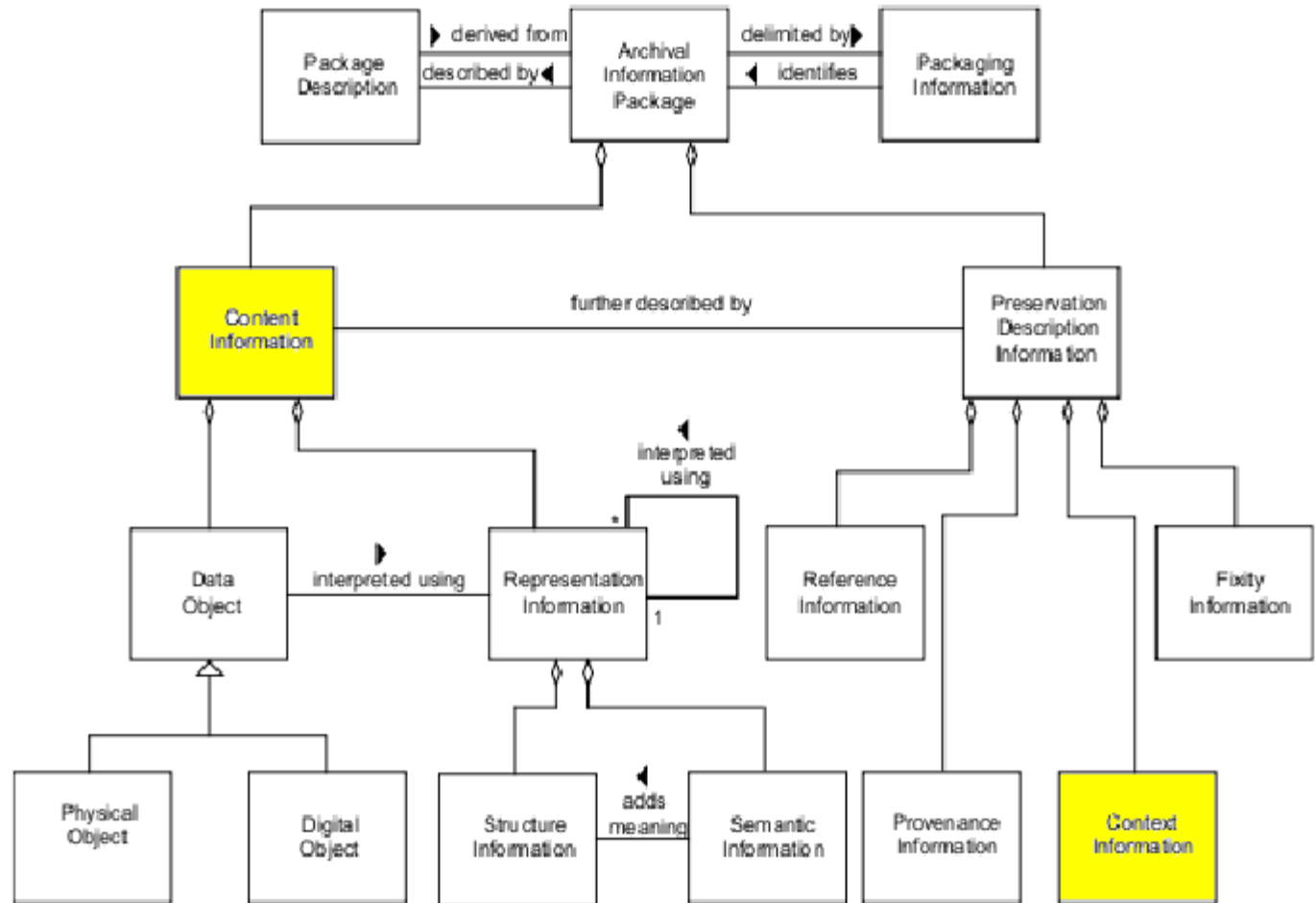
# Data Curation and Preservation Context

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# Preservation in OAIS

Context

OAIS and VO



## Reference information

The information that identifies, and if necessary describes one or more mechanisms used to provide assigned identifiers for the Content Information. It also provides identifiers that allow outside systems to refer, unambiguously, to a particular Content Information. An example of Reference Information is an ISBN.

Context

OAIS and VO

Do ivo identifiers correspond to this ?

Ex: ivo://data\_provider/service#IDnumber

## 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. Examples of Provenance Information are the principal investigator who recorded the data, and the information concerning its storage, handling, and migration

## 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.

Within the VO, it was mainly presented as “provenance data model”

Context

OAIS and VO

## **Fixity Information.**

The information which documents the authentication mechanisms and provides authentication keys to 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.

Use classical md5 sum?

Context

OAIS and VO

## **Structure information + Semantic information**

**=> This outscope the VO because the VO deals with exchange formats, not archive native formats.**

**Package description : partly used by DAL**

# Why OAIS is important

Context

OAIS and VO

- **Archives will have to be OAIS compliant**
- **An audit procedure is under definition**

<http://wiki.digitalrepositoryauditandcertification.org/bin/view>

- **The OAIS Standard**

<http://public.ccsds.org/publications/archive/650x0b1.pdf>

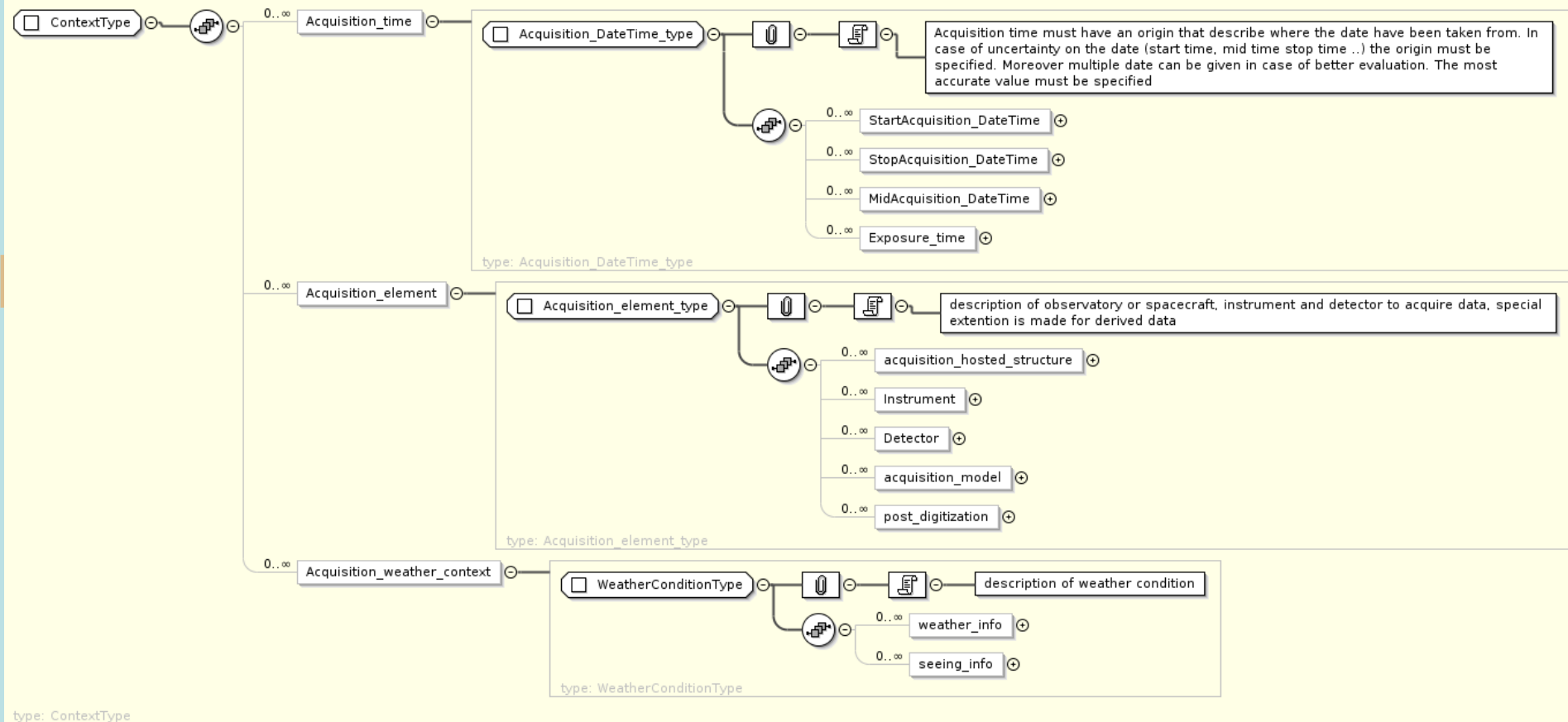
Context

OAIS and VO

- ◆ **How to standardize information for an Image Atlas**
- ◆ **Define an XML schema with all related metadata for ESO-R, SRC-J POSS-E**
- ◆ **All digitized at MAMA (Gepi)**
  - ◆ **First draft model at <http://voplus.obspm.fr/xml/>**
  
- ◆ **OAIS Standard**

# Context

define the context of data, schema to be extended for the need of preservation Context schema, designed in OAIS model to define context of data coming mainly from observation





Context

OAIS and VO

- ◆ **Context is starting**
- ◆ **Some other people have already done this job and could contribute**
- ◆ **The OAIS Standard requires this DM for preservation of metadata. We should keep those for unknown future uses**