



EFIR Workshop (Webinar) – 1st session

Preliminary breakdown of assets in Legal, Organisational and Technical Interoperability levels

Makx Dekkers

24 April 2013



1 Background



The Asset Description Metadata Schema (ADMS) was initially developed for the description of Semantic Interoperability Assets.



This specification has been created as part of Action 1.1 of the Interoperability solutions for European public administrations (ISA) programme of the European Commission (EC). This programme funds initiatives to foster the efficient and effective cross-border electronic interactions between European public administrations. Action 1.1 of this programme is targeted towards improving the semantic interoperability of European e-Government systems. Action 1.1 attempts to address these by encouraging the sharing and reuse of semantic assets (see section 1.2 Terminology). As part of Action 1.1, the ISA Programme maintains a repository of semantic interoperability assets on Joinup, the ISA integrated collaborative platform.

ADMS

ASSET DESCRIPTION METADATA SCHEMA

SPECIFICATION

VERSION 1.00

Semantic interoperability is defined as the ability of information and communication technology (ICT) systems and the business processes they support to exchange data and to enable the sharing of information and knowledge: *Semantic Interoperability enables systems to combine received information with other information resources and to process it in a meaningful manner* (European Interoperability Framework 2.0²). It aims at the mental representations that human beings have of the meaning of any given data.

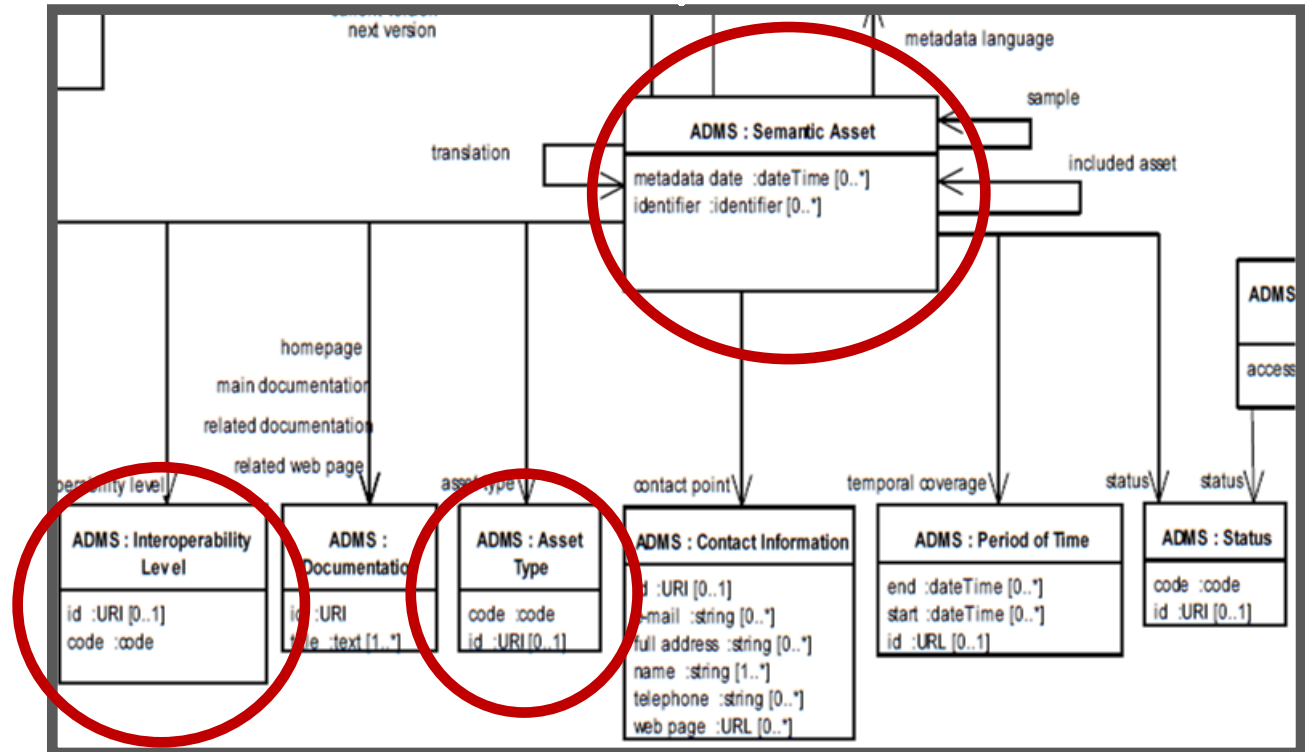




- Semantic Interoperability Assets are just one particular type of Interoperability Asset.
- ADMS can also be applied to Assets on other Interoperability levels: Legal, Organisational and Technical.

For every Asset, we can specify:

- Interoperability Level
- Asset Type





ADMS controlled vocabulary for Interoperability Level:

I.1 INTEROPERABILITY LEVEL

Base URI: <http://purl.org/adms/interoperabilitylevel/>

<i>Code</i>	<i>URI</i>
Political	http://purl.org/adms/interoperabilitylevel/Political
Legal	http://purl.org/adms/interoperabilitylevel/Legal
Organisational	http://purl.org/adms/interoperabilitylevel/Organisational
Semantic	http://purl.org/adms/interoperabilitylevel/Semantic
Technical	http://purl.org/adms/interoperabilitylevel/Technical

From:

<https://joinup.ec.europa.eu/asset/adms/release/100>

I.2 ASSET TYPE

Base URI: <http://purl.org/adms/assettype/>

<i>Code</i>	<i>URI</i>
Core Component	http://purl.org/adms/assettype/CoreComponent
Ontology	http://purl.org/adms/assettype/Ontology
Domain Model	http://purl.org/adms/assettype/DomainModel
Schema	http://purl.org/adms/assettype/Schema
Information Exchange Package Description	http://purl.org/adms/assettype/InformationExchangePackageDescription
Thesaurus	http://purl.org/adms/assettype/Thesaurus
Taxonomy	http://purl.org/adms/assettype/Taxonomy
Code List	http://purl.org/adms/assettype/CodeList
Name Authority List	http://purl.org/adms/assettype/NameAuthorityList
Mapping	http://purl.org/adms/assettype/Mapping
Syntax Encoding Scheme	http://purl.org/adms/assettype/SyntaxEncodingScheme
Service Description	http://purl.org/adms/assettype/ServiceDescription

ADMS taxonomy of Semantic Assets:

So, the various Interoperability
Levels are already defined

Taxonomy of Asset Types
should be extended to the
other levels.



Approach:

- Use the existing taxonomy of Interoperability Levels
- Extend the list of Asset Types to cover the specific ones for the legal, organisational and technical levels

<http://purl.org/adms/interoperabilitylevel/Legal> etc.

E.g. <http://purl.org/adms/assettype/EUDirective> etc.

Considerations:

- Support main types included in existing asset collections
- Find common denominators across collections
- Limit number of terms to max. 10-15 per level in order to support faceted search



European
Commission

2 Legal



Definition: Legal interoperability asset

“an agreement that is binding via legislation (e.g. EU Directives and national transposition) relevant in the context of information exchange between public administrations; a template; or a framework that can support the creation or execution of such agreement (e.g. licence template and licensing framework)”

Preliminary taxonomy:

- International Agreement
- EU Directive
- (National) Legislative act
- (Commission) Recommendation
- Licensing Framework
- Licensing Template
- Etc.

Sources: EUR-Lex | Article 288 of the Treaty on European Union



Preliminary taxonomy:

- International Agreement
- EU Directive
- (National) Legislative act
- (Commission) Recommendation
- Licensing Framework
- Licensing Template
- Etc.

Comment this request in the issue tracker

<https://joinup.ec.europa.eu/asset/adms/issue/preliminary-taxonomy-legal-interoperability-assets>

Discussion

- Do we need to include a policy level for strategy, action plans etc.? E.g. Europe 2020 strategy, ISA Action Plan, EIF.
- Is the legal level limited to legislation, laws, court decisions, with contracts and licenses covered on the organisational level?
- Are any main types missing in the preliminary list?
- Other issues?

3 Organisational



Definition: Legal interoperability asset

“an agreement that is binding via legislation (e.g. EU Directives and national transposition) relevant in the context of information exchange between public administrations; a template; or a framework that can support the creation or execution of such agreement (e.g. licence template and licensing framework)”

Preliminary taxonomy:

- Business Process Model
- Business Rule Model
- Service Level Agreement
- Memorandum of Understanding
- Organisational structure with roles
- (Organisational) Guidelines
- (Organisational) Framework
- Etc.

Sources:

Zachman framework matrix
OASIS Transformational Government Framework (TGF)
The Open Group Architecture Framework (TOGAF)
Decision 922/2009/EC on interoperability solutions for European public administrations (ISA)



Preliminary taxonomy:

- Business Process Model
- Business Rule Model
- Service Level Agreement
- Memorandum of Understanding
- Organisational structure with roles
- (Organisational) Guidelines
- (Organisational) Framework
- Etc.

Discussion

- Which organisational aspects contribute to interoperability?
- Are any types missing in the preliminary list?
- Other issues?

Comment this request in the issue tracker

<https://joinup.ec.europa.eu/asset/adms/issue/preliminary-taxonomy-organisational-interoperability-assets>



European
Commission

4 Technical

Technical interoperability asset

“a technical specification, a service or a generic tool that is used within the context of information exchange between public administrations. A technical interoperability asset can be, for example, software interface specifications, communication protocols, messaging specifications, data format or a generic solution/tool for exchanging documents in a secure way.”

Preliminary taxonomy:

- Protocol
- Data Architecture
- Interface Specifications
- Service (Registry)
- Tool
- Security Specification
- Package Solution
- (Technical) Framework
- Etc.

Sources:

Zachman framework matrix
OASIS Transformational Government Framework (TGF)
The Open Group Architecture Framework (TOGAF)
Decision 922/2009/EC on interoperability solutions for European public administrations (ISA)

Preliminary taxonomy:

- Protocol
- Data Architecture
- Interface Specifications
- Service (Registry)
- Tool
- Security Specification
- Package Solution
- (Technical) Framework
- Etc.

Discussion

- Is there a need to distinguish documents, source code, executable code and running software?
- Are any types missing in the preliminary list?
- Other issues?

Comment this request in the issue tracker

<https://joinup.ec.europa.eu/asset/adms/issue/preliminary-taxonomy-technical-interoperability-assets>

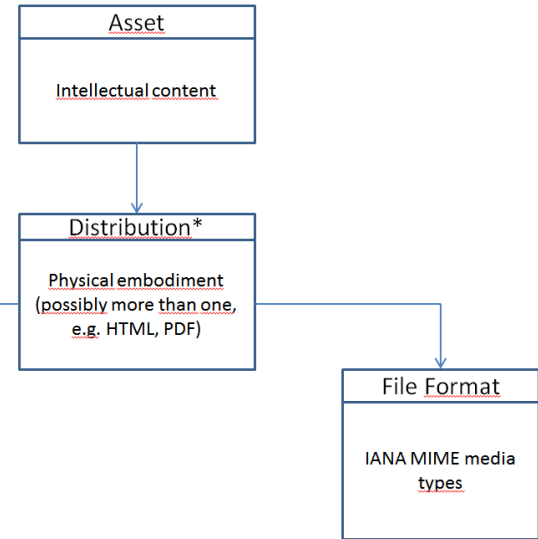


5 Distributions

Distribution types



A Distribution is typically a downloadable computer file that implements the intellectual content of an Asset



Content in Joinup about ISA Open Metadata Licence v1.1

1. Copyright

The Work (as defined below) is provided under the terms of this ISA Open Metadata Licence (this Lic) than as authorised under this Licence or copyright law is prohibited.

By exercising any rights to the work provided here, you accept and agree to be bound by the terms r

2. Definitions

The "Owner" is the European Union represented by the European Commission, which is the original l

The "Work" is the information and/or data offered by You under this Licence, according to the "Conten



Open Government Licence for public sector information



CC0

You are using a tool for freeing your own work of copyright restrictions around the world. You may use this tool even if your work is free of copyright in some jurisdictions, if you want to ensure it is free everywhere. Creative Commons does not recommend this tool for works that are already in the public domain worldwide. Instead use the **Public Domain Mark** for such works.



Public Domain Mark

You are using a tool for labeling works that are free of known copyright restrictions. Creative Commons does not recommend this tool for works that are restricted by copyright laws in one or more jurisdictions. If you want to free **your own work** of copyright restrictions, instead use the **CC0 public domain dedication**.

Using the Public Domain Mark, you can mark a work that is free of known copyright restrictions and clearly convey that status. When applied properly, the PDM allows the work to be easily discovered, and provides valuable information about the work.



Internet Assigned Numbers Authority

MIME Media Types

application

audio

example

image

message

model

multipart

text

video

MIME Media Types

Specifies that Media Types (formerly known as and Media Subtypes will be assigned and listed by

registering Media Types can be found in [RFC4289](#), and [RFC6652](#). Additional registering media types for transfer via Real-time tool (RTP) can be found in [RFC4855](#)

is the list of Directories of Content Types and

e.g.
text/html
application/pdf
application/zip
video/mp4