SKEMA
Produce It Yourself

European Media Wrapper Round Table

AXIS

Acquisition, eXchange,
Indexation and Structuration based on OAIS

SkemA assists early indexing and industrial production

In brief

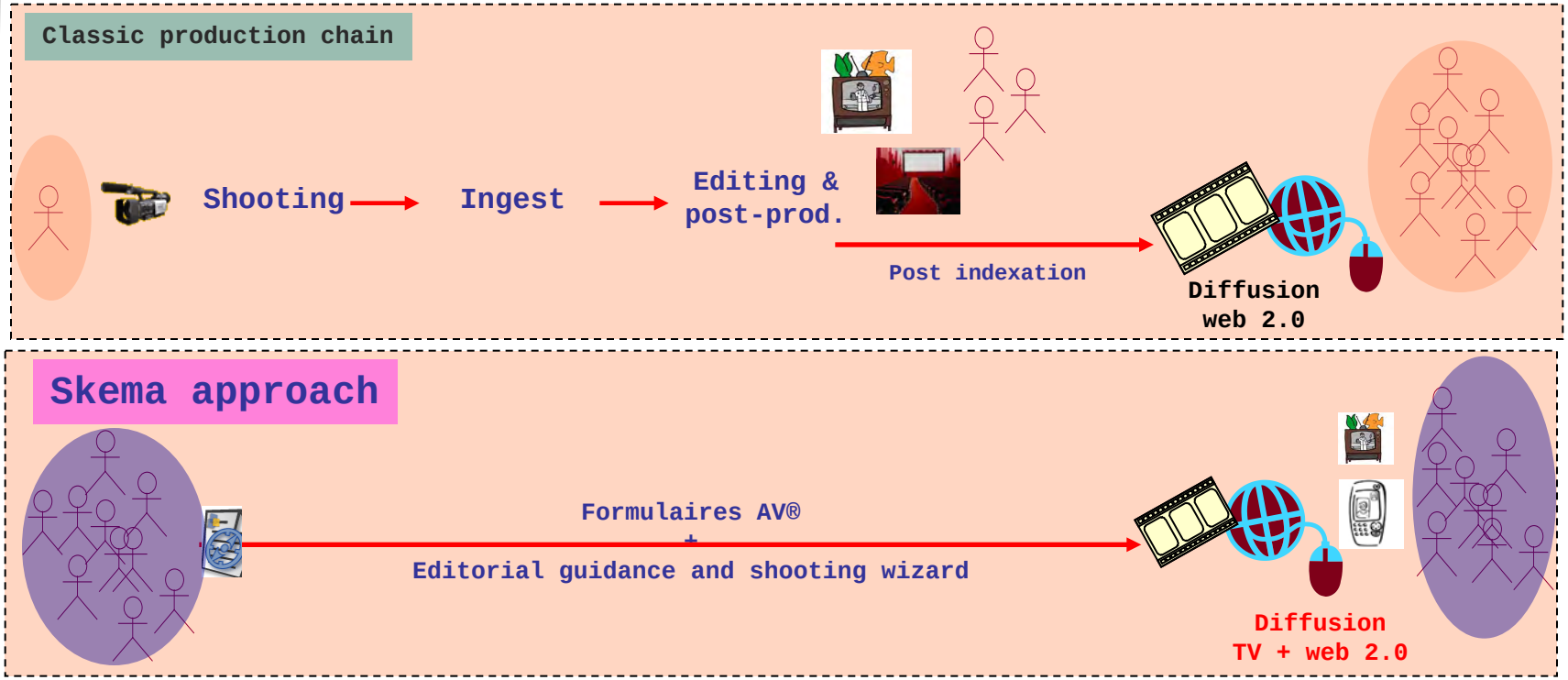
- **Founded in 2003** after 3 years and **€2M of R&D** with the UTC, France Telecom and the Institut National de l'Audiovisuel, present in France and Brazil

- **3 patents**, many prizes and a continuous programme of innovations

- The only offer on the market that covers **the whole audiovisual production chain**, from **design to the broadcasting of content**

- **Leader in self-production**, Skema has been chosen by many media companies for their participative TV and UGC video systems

Automation & industrialisation of production



Production of **structured and quality** audiovisual contents at **less cost**, in **volume** and by **just-in-time methods**

- → **Modelling of production formats**, help with script development and editorial writing (*formulaire audiovisuel®*)
- → **Automation** of editing and post-production according to predefined parameters
- → **Rich indexing** of contents at source
- → **Multi-platform broadcasting** for distribution (TV, Web, IPTV, Mobile)

The SkemA platform

Modelling of the format to be produced

Design of the Formulaire Audiovisuel®

SKAtelier

Help with script writing and creating the images

Software video shooting and production assistants

SKmobile

SKvideo

muskade

Other means of production

Automation of the video processing

Editing, trans-coding and storage of contents

Exploitation & management of audiovisual contents

Moderation, search and reuse of contents

SKAdmin

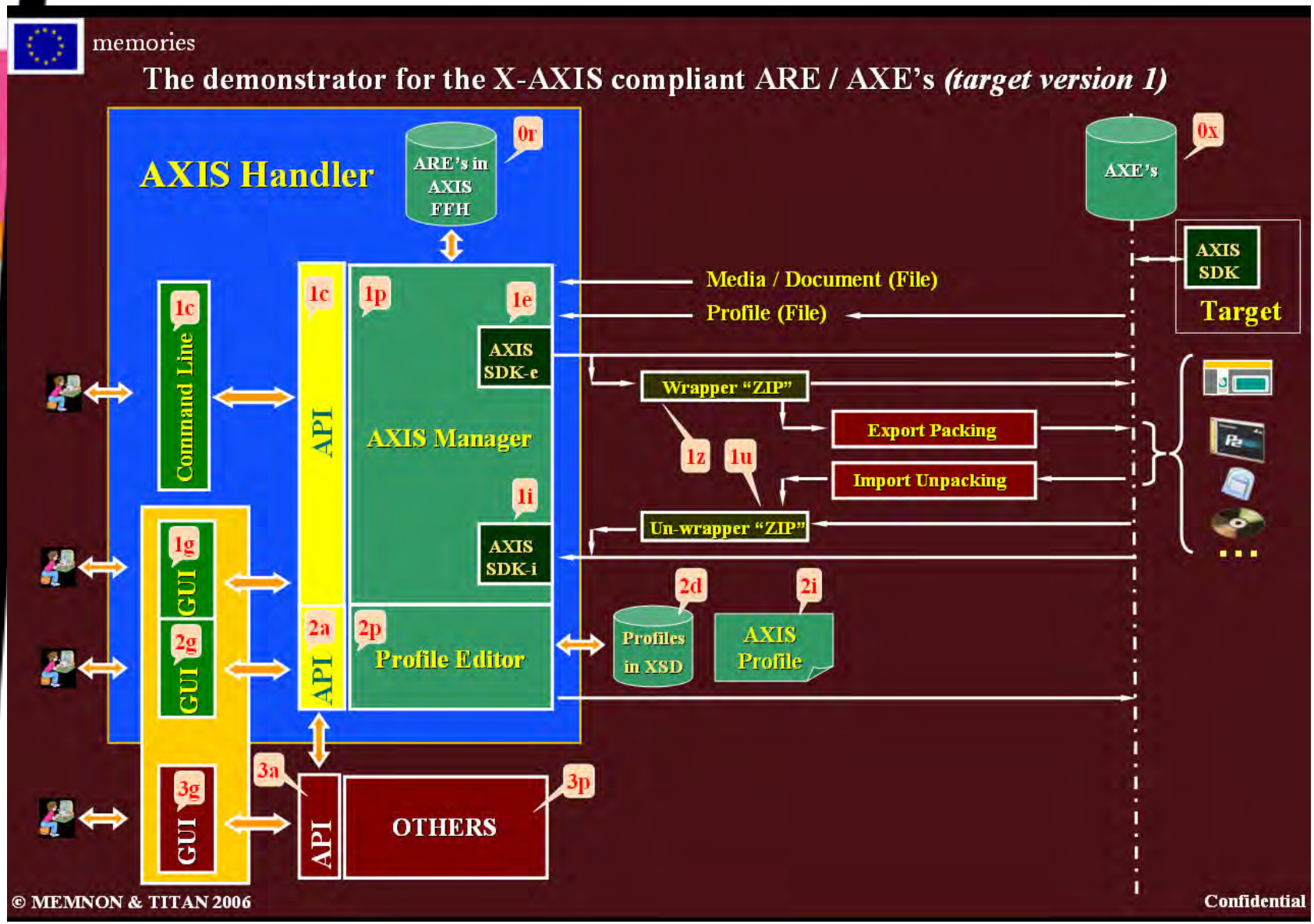
SKRegie

Multi-format broadcasting & multiple distribution platforms

Aggregation and multi-channel publication

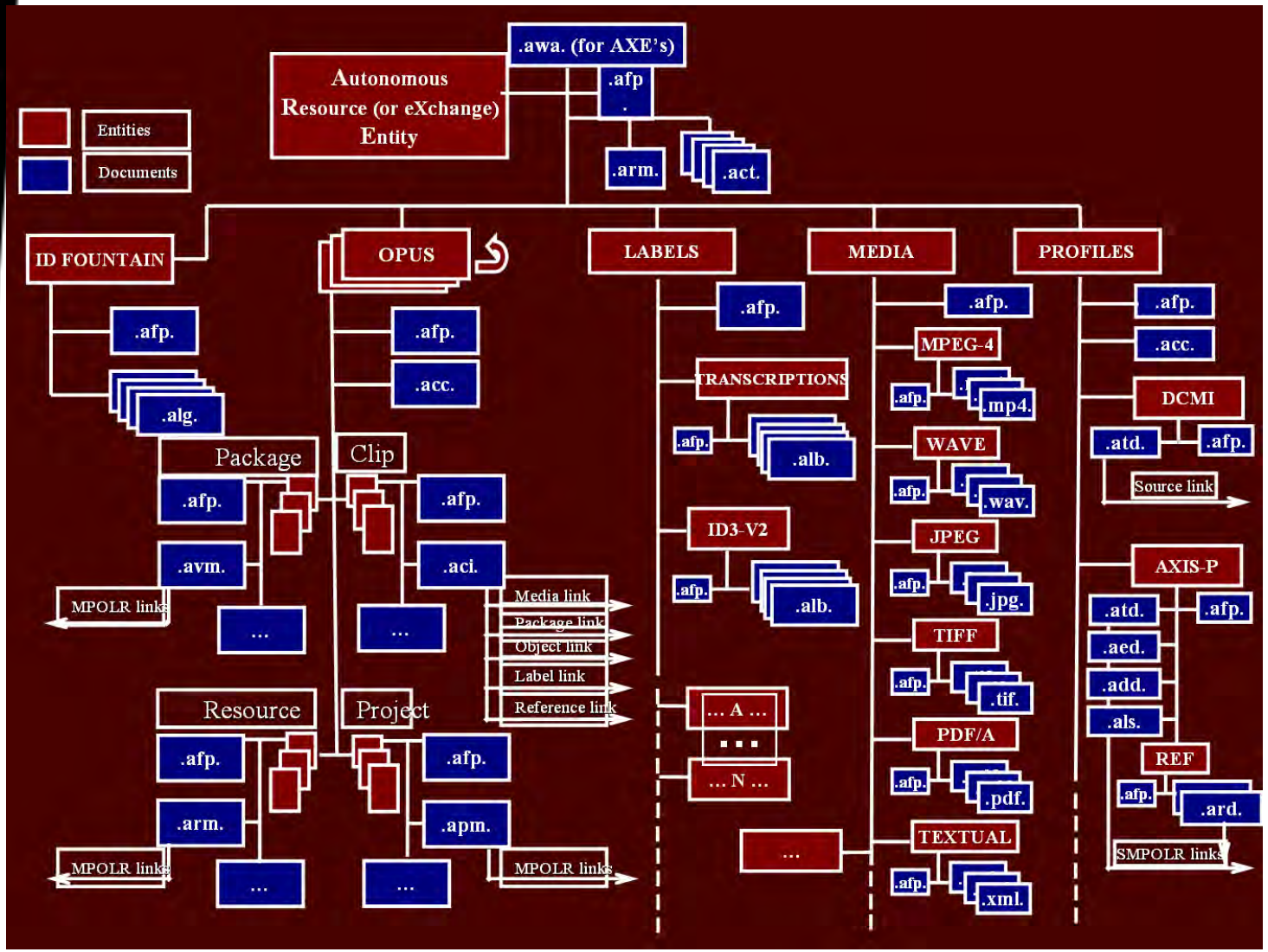
AXIS

(Acquisition, eXchange, Indexation and Structuration based on OAIS)

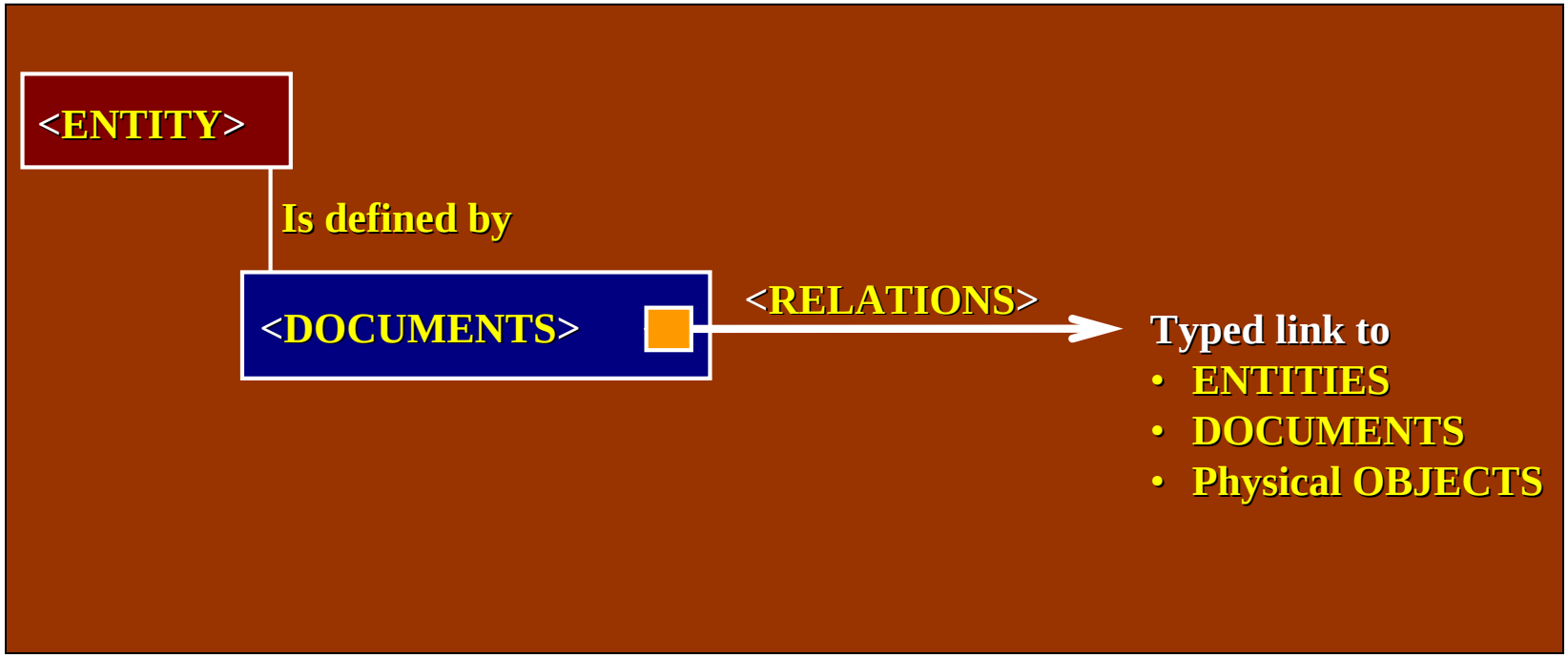


DATA MODEL

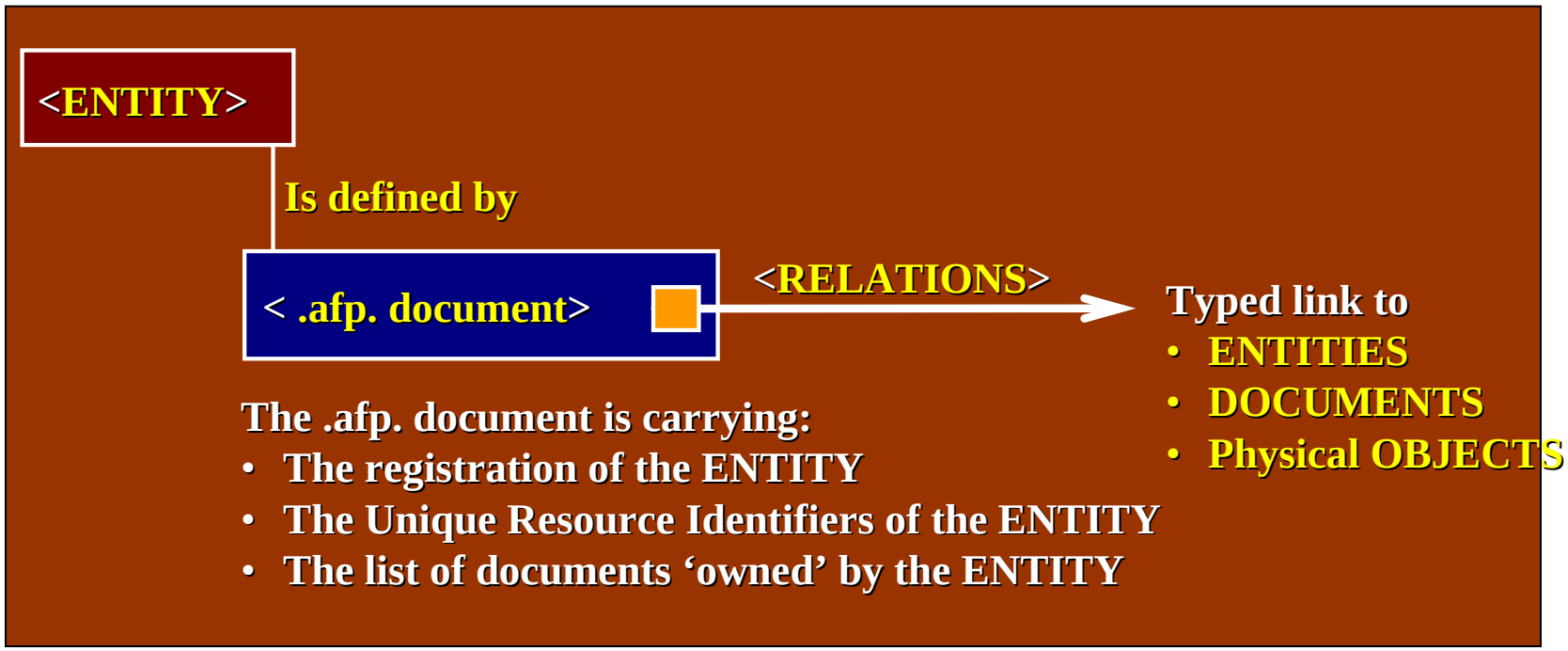
Axis Framework



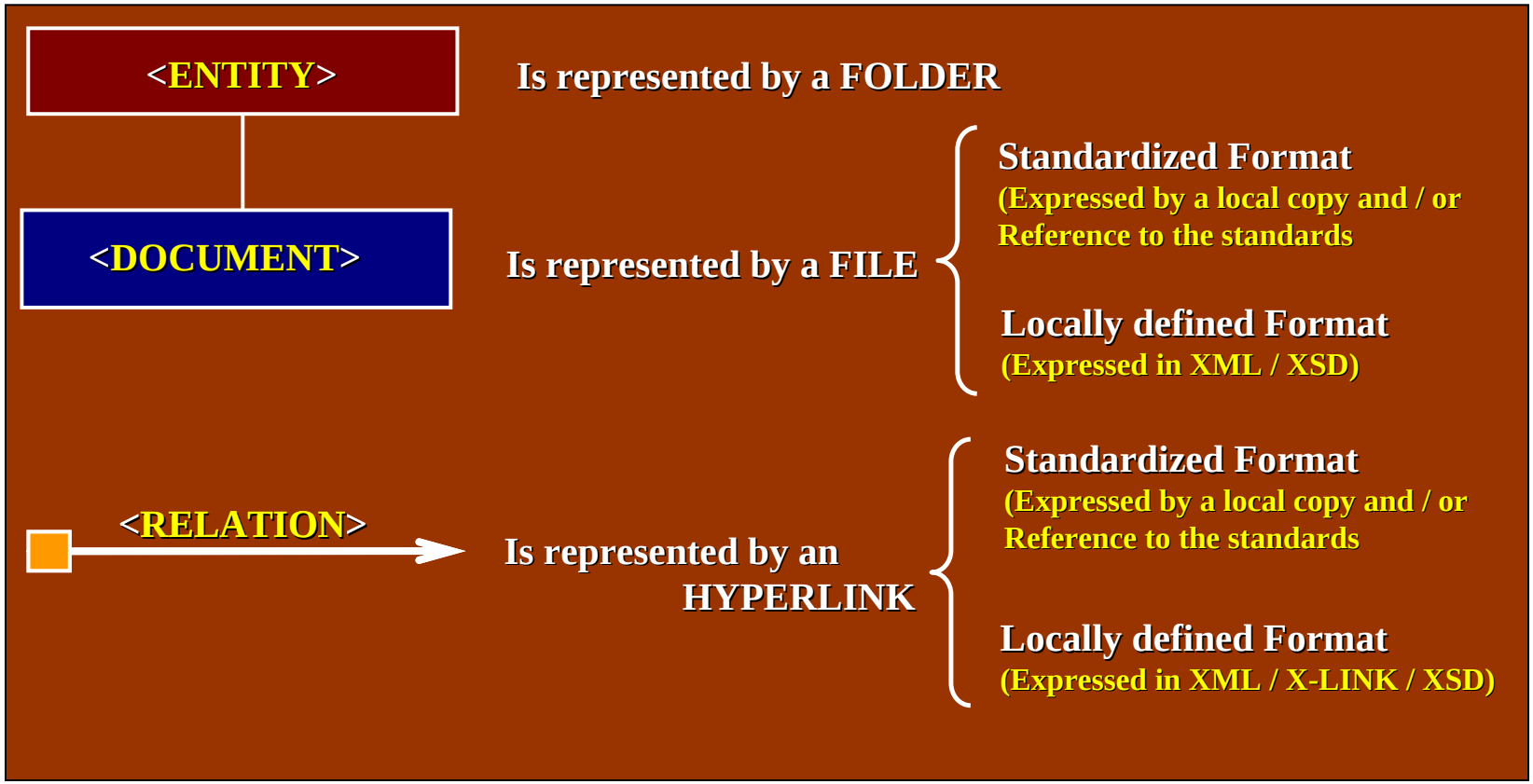
The key constructs of AXIS



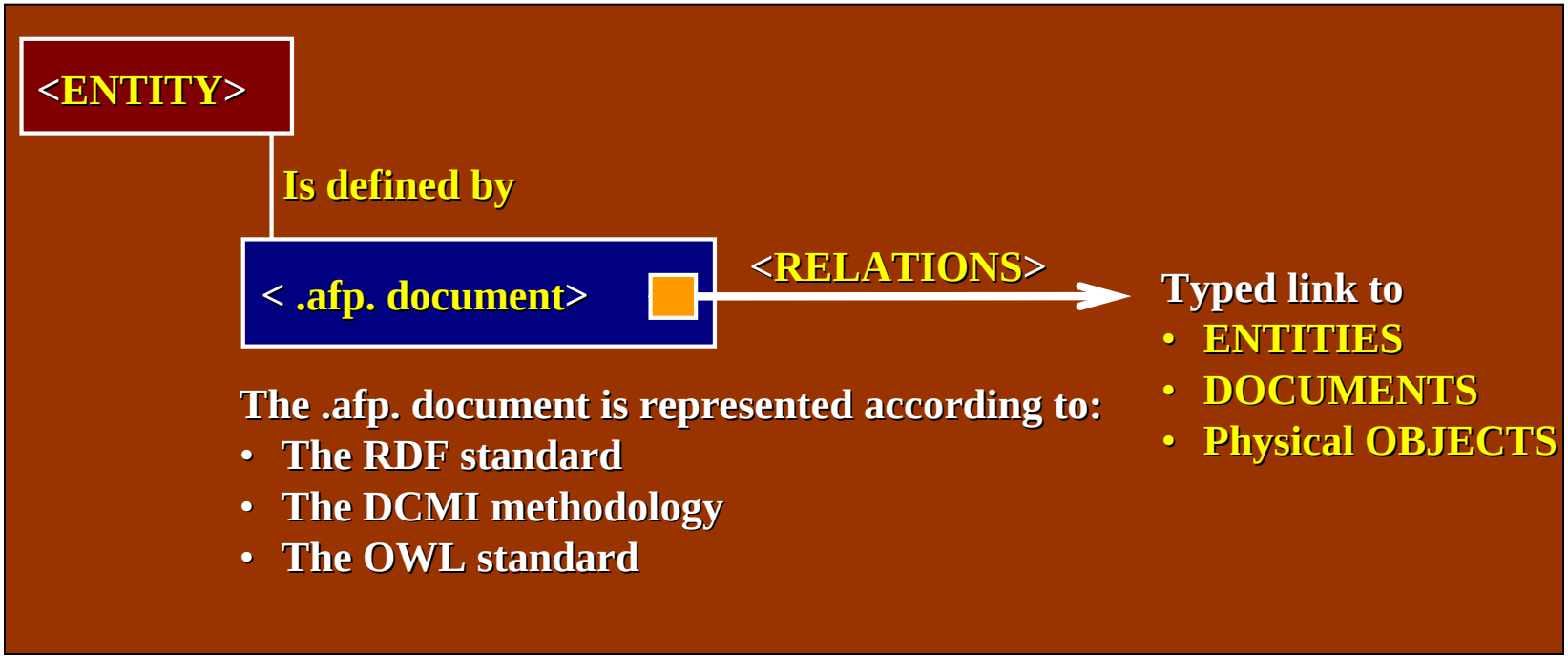
The key constructs of AXIS
The AXIS-Foot-Print document



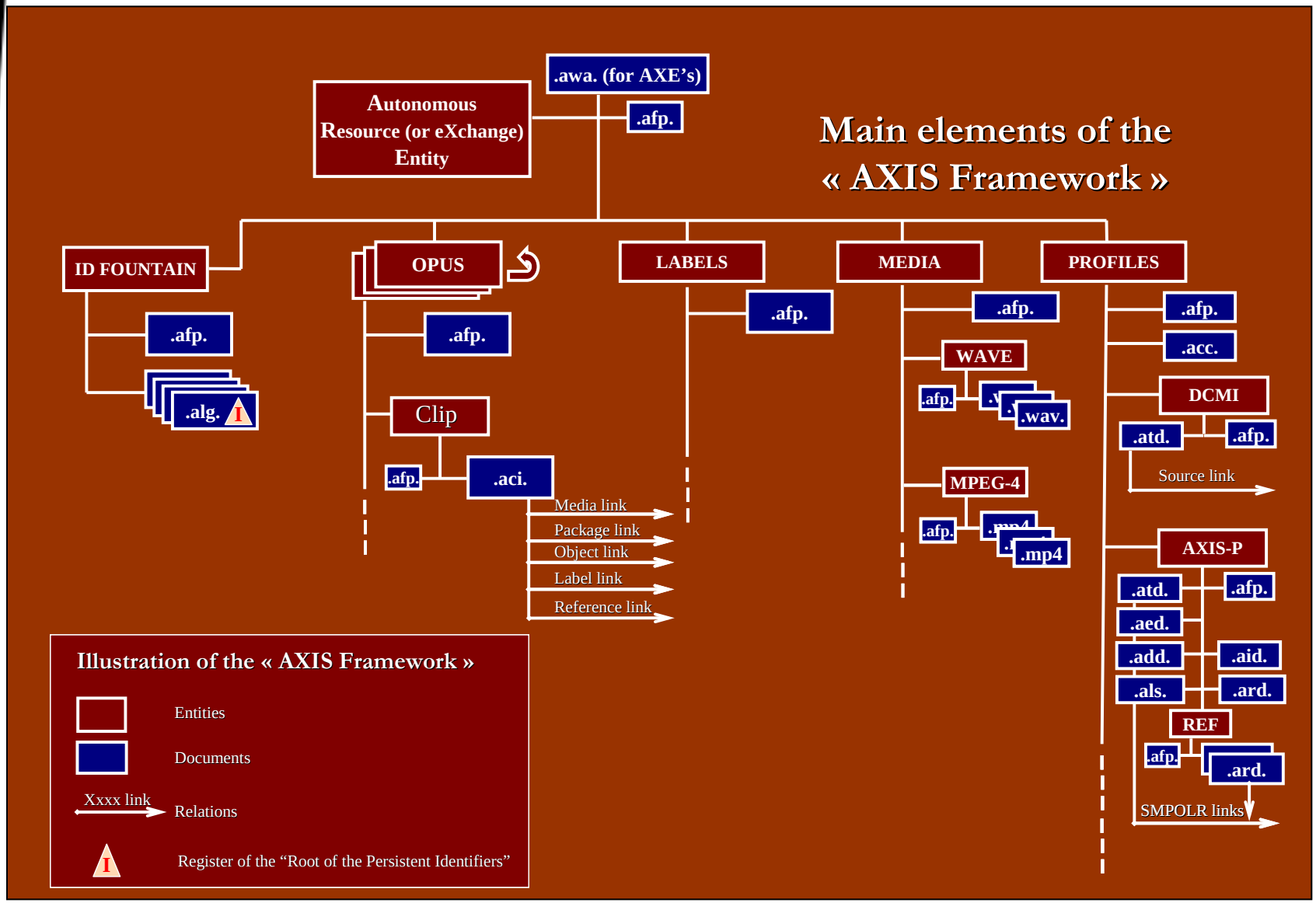
The key constructs of AXIS
Their representation in X-AXIS



The key constructs of AXIS
Their representation in X-AXIS



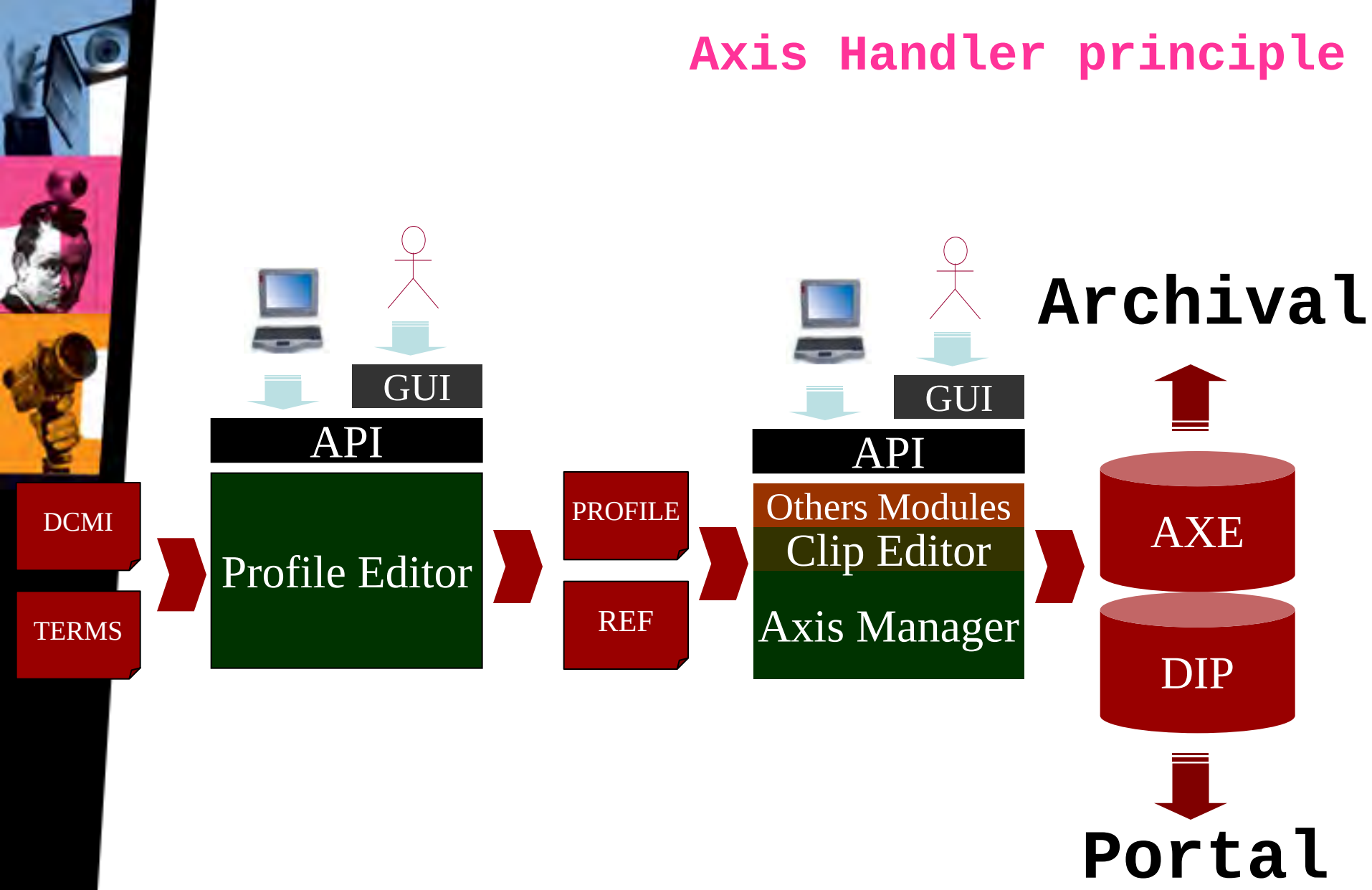
Framework



The Profile

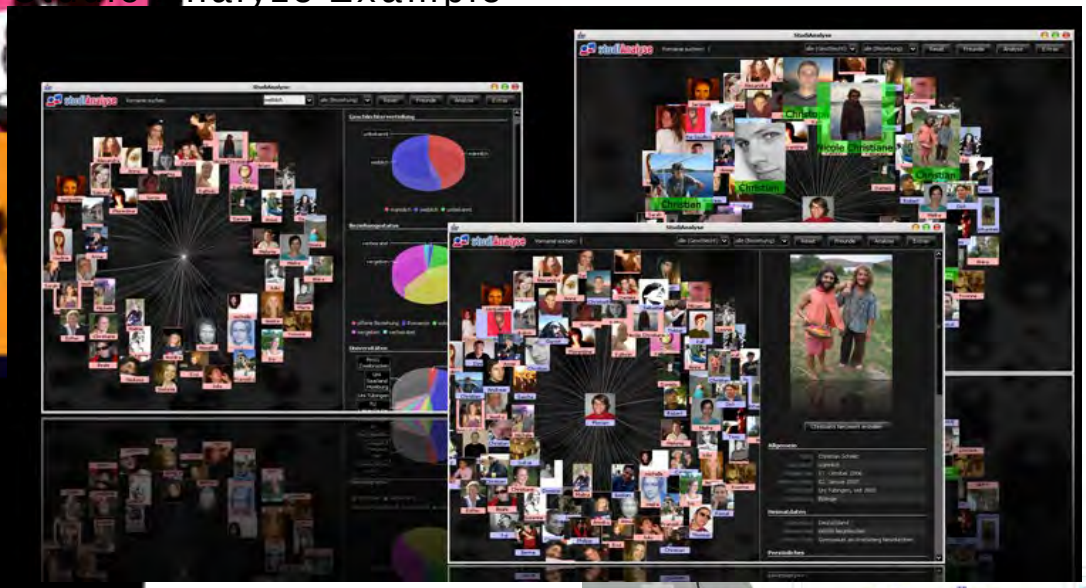
- Defining profiles: (using the DCMI terminology)
  - Namespace: One specific to the profile or no profile [only reference(s) to existing namespace(s)]
  - Terms
    - → Types of terms: A{[Property] + [Value]} pair declares the existence of a [resource]
    - → Concepts
    - → Elements
    - → Entities
    - → Sets
  - Set of terms A {[Terms] + list of [Values]} pair declares the existence of a [Set]
  - Terms in a Name-Space (Data / Control/ Naming)
    - → Basic (class of a term)
    - → Refinement (sub-class of a term) the “qualification” of classes defines a ‘refinement’
    - → Alias
  - Encoding schemes the “qualification” of a scheme defines the ‘encoding’
    - → Standards
    - → Lists
    - → Thesaurus
    - → Free text
  - Entities A complex [Resource] defined by a set of [Documents] and one (or no) [Namespace]
  - Documents
    - → Defined by “Standards”
    - → Defined locally Usually in a profile, by set terms and rules with its associated semantic

Axis Handler principle

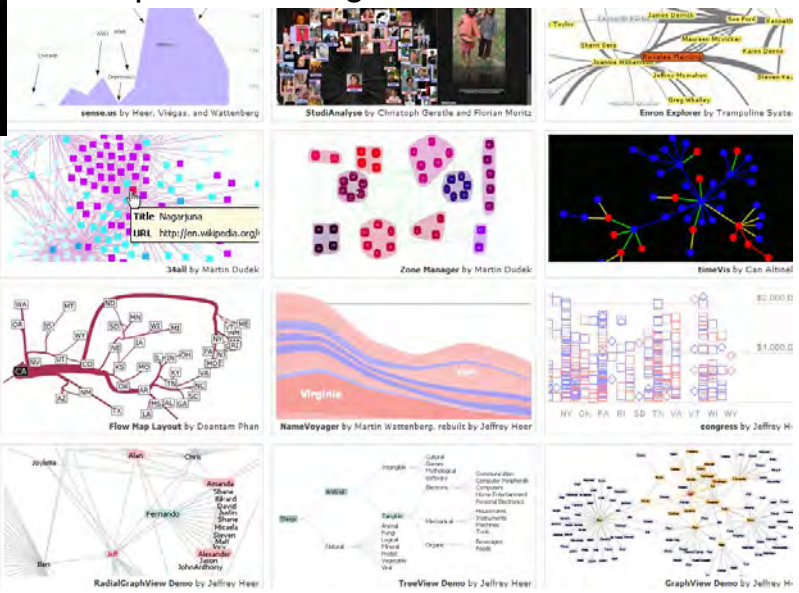


To new way of searching, rendering, and browsing

Studio nalyze Example



prefuse.org



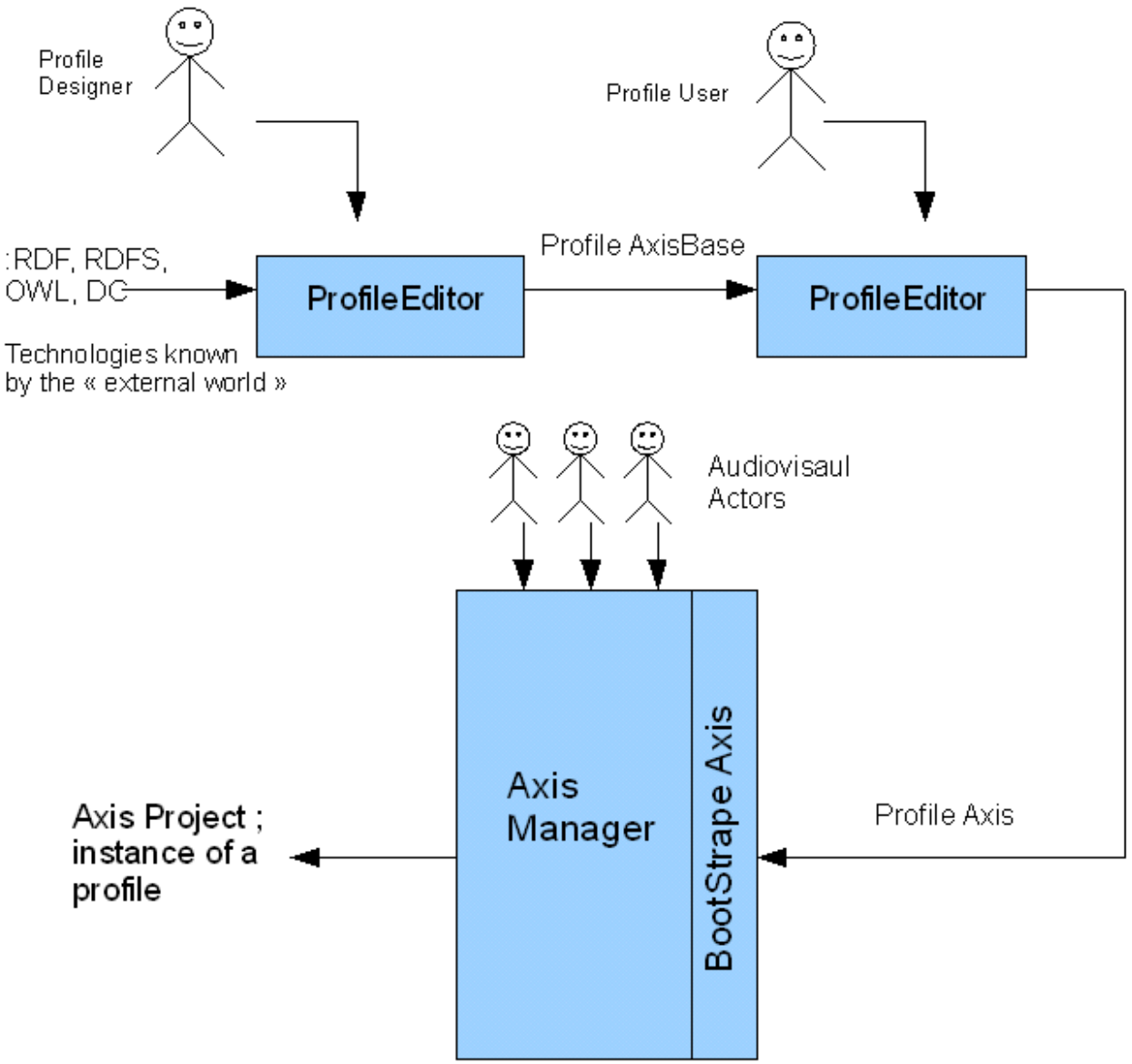
Profile Editor objective

- Create a **backbone** for the Axis Manager
  - Define vocabulary
  - Define metadata
  - Define entities
  - Define relation between entities
  - Specify semantic refinements on the vocabulary
- Enable **open profile**
  - Specialization of profile
  - Extension of profile
- Allow context to be associated to content

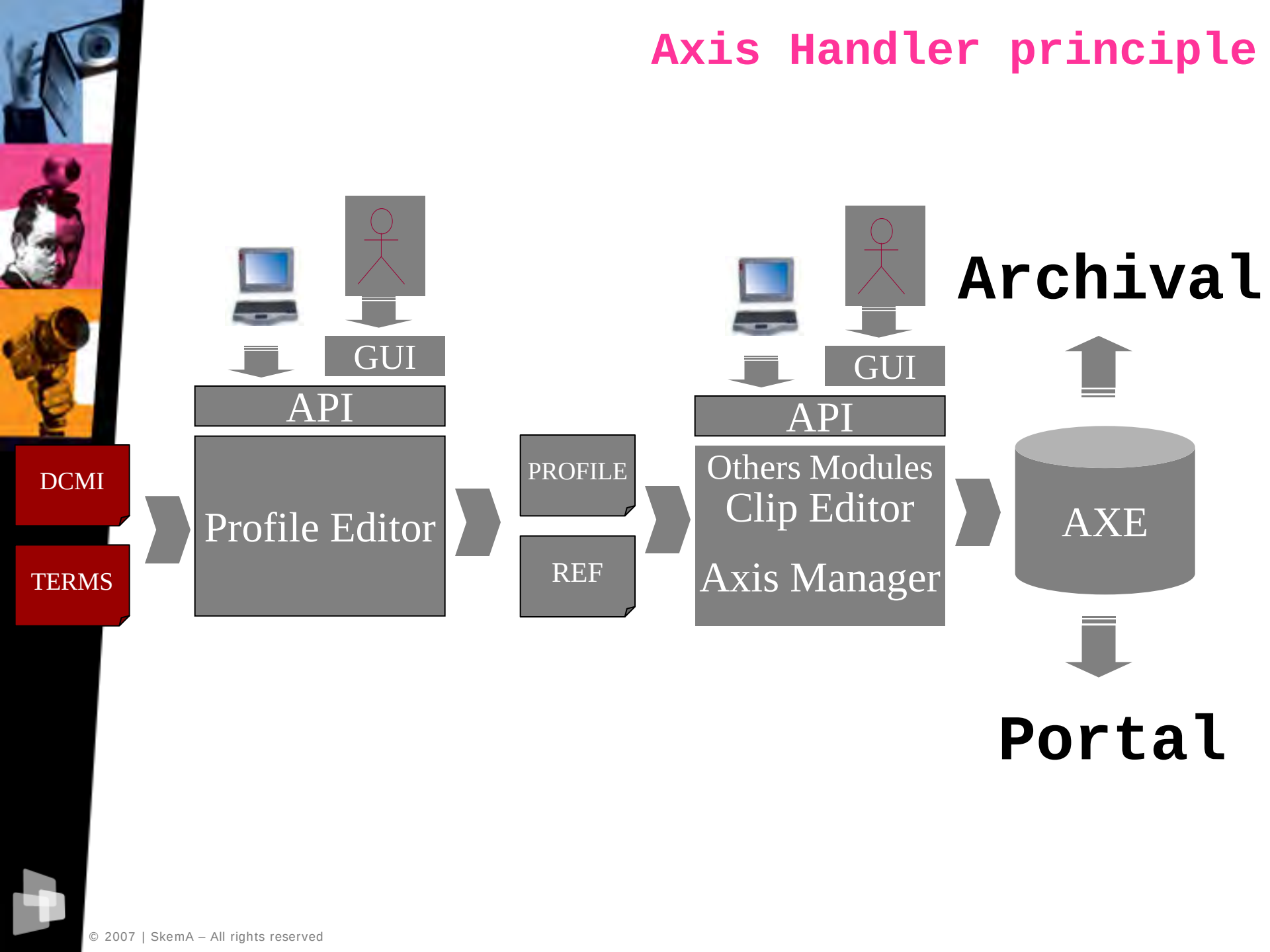
Axis Manager objective

- Axis Manager is the heart of a Audiovisual OAIS
  - Create AAE
    - → Autonomous as self describe content (profile, link , content)
    - → Structural, Semantic and administrative description
    - → Define entities
    - → Define relation between entities
    - → Specify semantic refinements on the vocabulary
  - Create AXE
    - → Enable exchange
    - → Enable traceability

Profile Editor process flow



Axis Handler principle



Dublin Core Metadata Initiative: RDF encapsulate the Dublin Cores

The 15 ‘elements’ of the Dublin Core

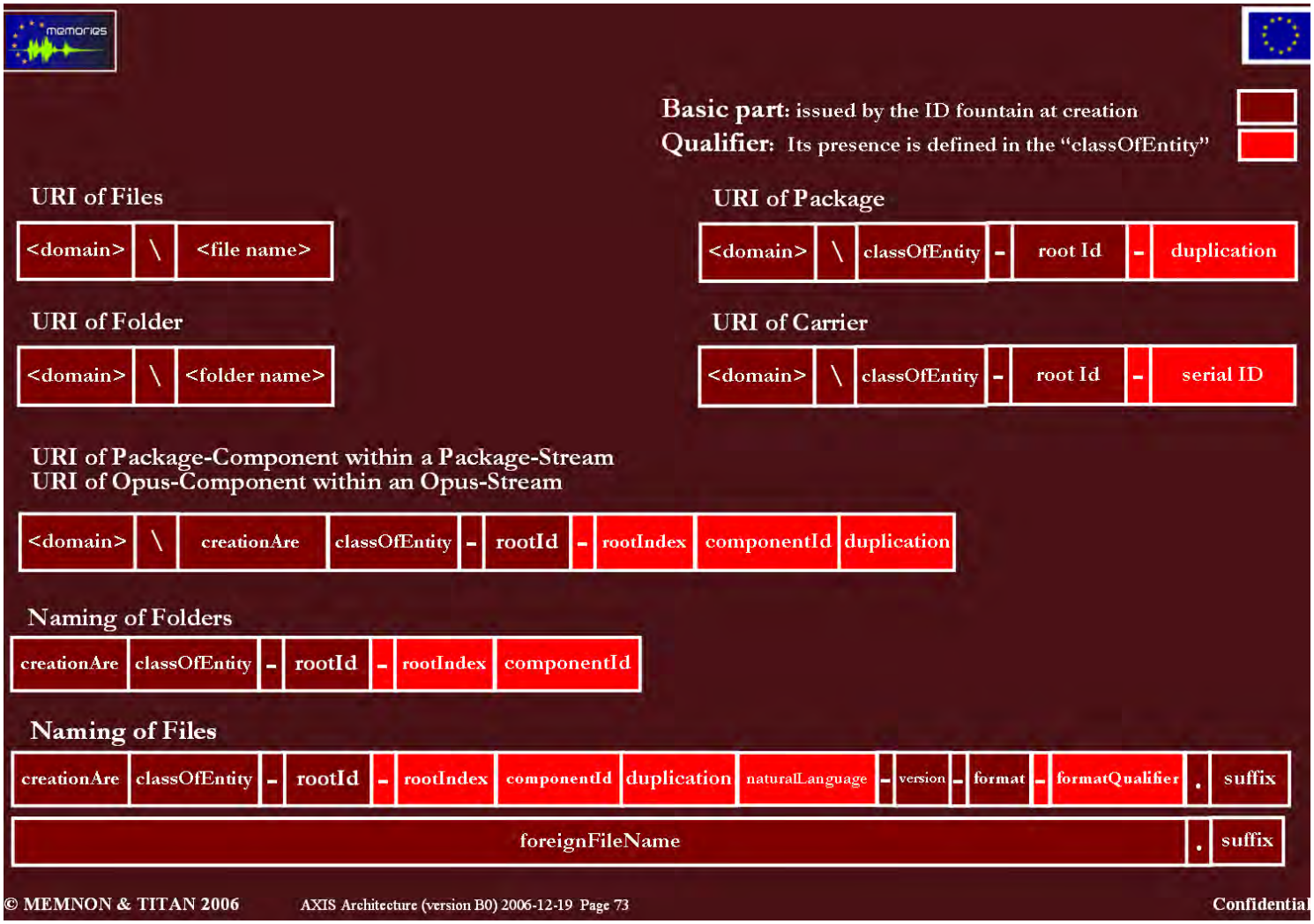
- Title
- Creator (or Author)
- Subject (and Keywords)
- Description
- Publisher
- Contributors (other)
- Date
- Type (The category of the resource)
- Format (The data representation of the resource)
- Identifier
- Source
- Language
- Relation

Terms extend the DC Core vocabulary

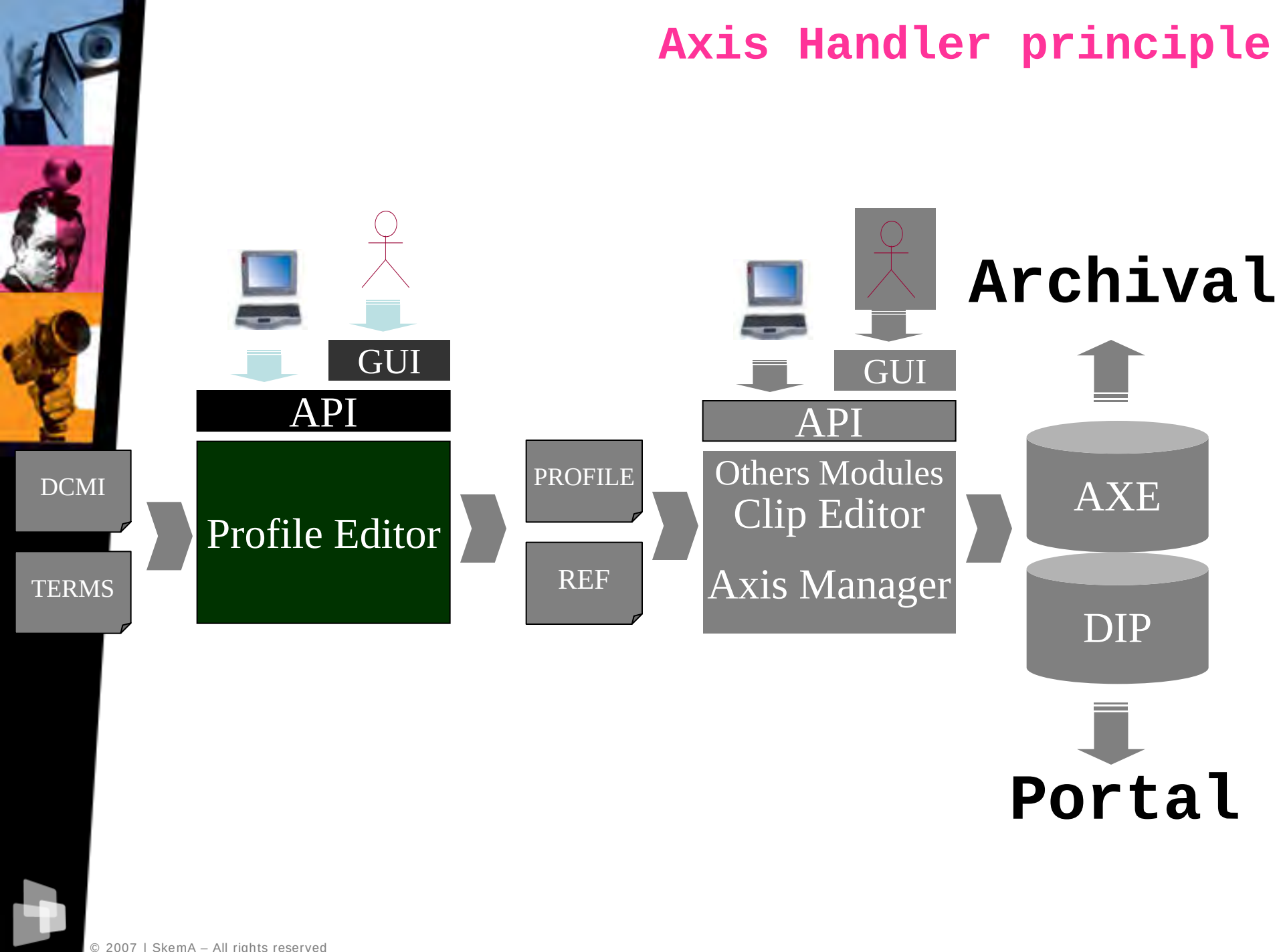
		XML / XSD
Technical		
1.	Term URI	http://purl.org/dc/elements/1.1/date
2.	NameSpace	dc
3.	Label	date
4.	Defined by	http://www.w3.org/TR/NOTE-datetime
5.	Type of term	Element
6.	Refines	-
7.	Refined by	Created, Valid, Available, Issued, Modified, …
8.	Encoding type	External Standard
9.	Encoding scheme	http://purl.org/dc/terms/W3CDTF
10.	Example of contents	2006-08-06
11.	Obligation	OPT
12.	Occurrence	NR
13.	Definition date	1999-07-02

		English	Français	العربية
Natural language				
14.	Label H	Date	Date	التاريخ
15.	Source definition language	+	-	-
16.	Source definition	A date associated with an event in the life cycle of the resource …	Une date associée à un évènement du cycle de vie de la ressource	…
17.	Source comment	…	…	…
18.	Profile definition	…	…	…
19.	Profile comment	YYYY-MM-DD where YYYY represents the ISO Year; MM, the …	AAAA-MM-JJ où AAAA représente l'année ISO ; MM, le …	السنى ⇐ AAAA
20.	Encoding scheme	Optional	Optionnel	…
21.	Obligation H	Not repeatable unless in refinements	Non répétable si ce n'est en affinage	…
22.	Occurrence H	< Mapping >	< Mapping >	…
23.	Contents H			< Mapping >

Profile Editor: Unique Resource Identifiers



Axis Handler principle



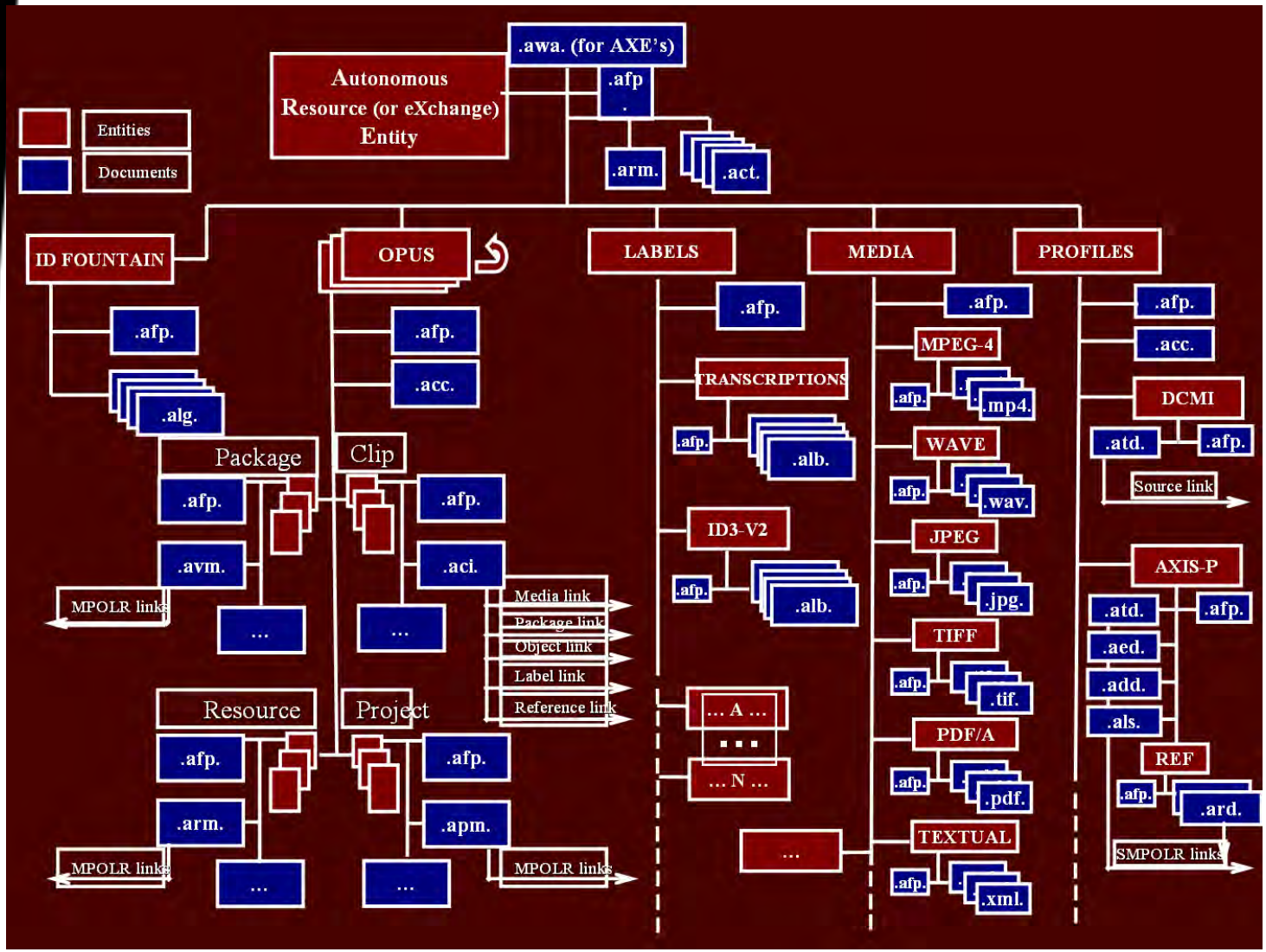
Entities of AXIS Profile

The structure of the “Entities” of the AXIS profile is represented in the “AXIS Framework”.

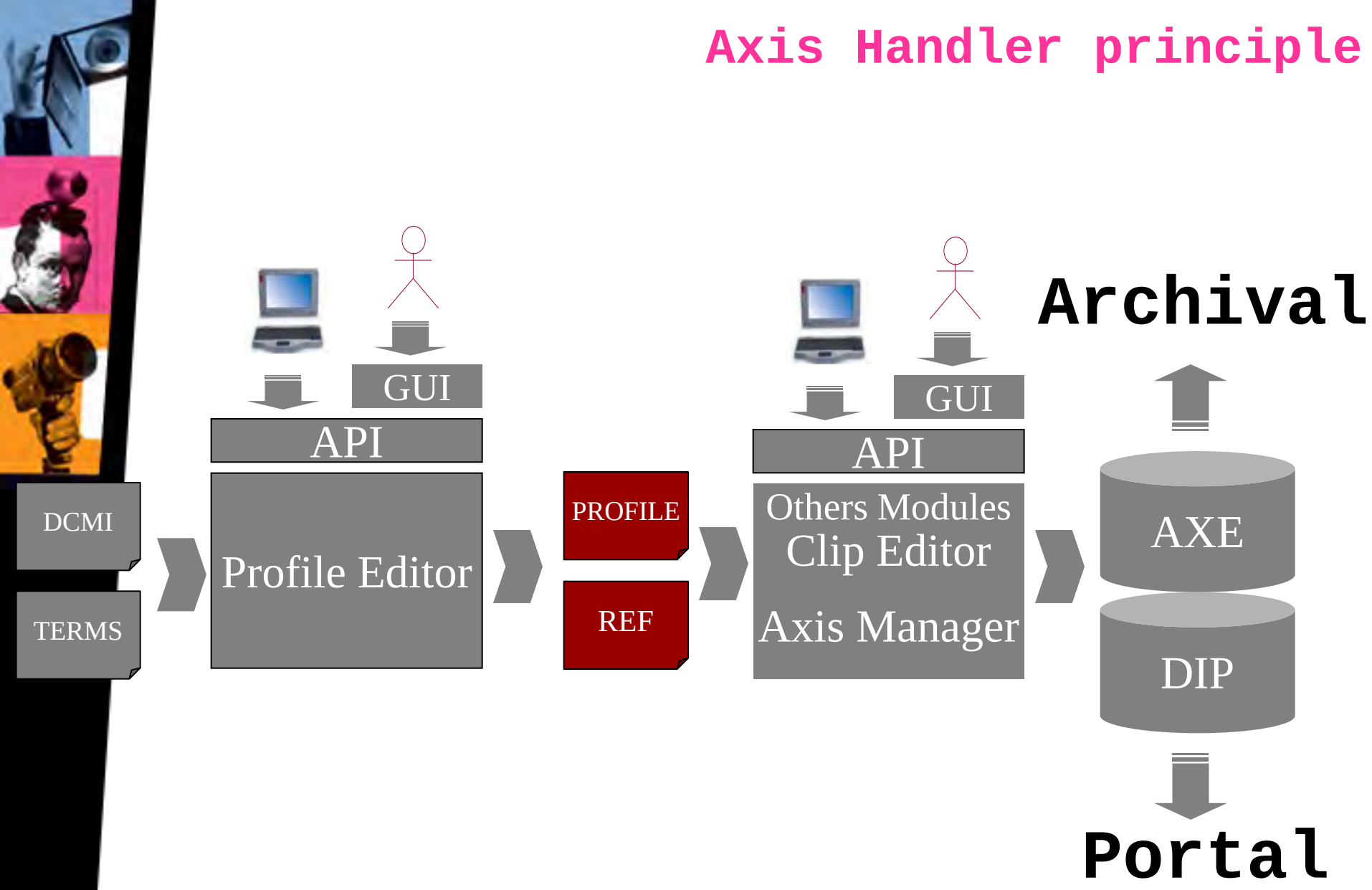
The AXIS “Entities” are:

- ARE Autonomous Resource Entity (The dynamic resource)
- AXE Autonomous eXchange Entity (The static resource issued from an EXPORT)
- ID FOUNTAIN The resource ensuring uniqueness of identification
- OPUS The bundling entity
- CLIP The key entity for annotations and structuration of the MEDIA
- PROJECT The managing resource for the OPUS
- RESOURCE The resource required for the OPUS
- PACKAGE The embodiment of the OPUS and AXEs
- LABELS The repository of the labels (like associated with clips, segments and points)
- MEDIA The repository of the representations of the media contents
- PROFILES The repository of the Profiles (in particular the AXIS profile)
- REF The repository of the References required for a specific IT tool (such as ‘speech to text’)
- TRANSCRIPTIONS The repository of the labels, transcriptions synchronized with spoken sound
- ID3-V2 The repository of the labels, expressed in the format ID3-V2
- MPEG-4 The repository of the full-media represented in the .mp4 format
- WAVE The repository of the audio-media represented in the .wav format
- JPEG The repository of the pictures represented in the .jpg format
- TIFF The repository of the pictures represented in the .tif format
- PDF/A The repository of the textual documents represented in the ISO 19 0005 format
- TEXTUAL The repository of the textual documents expressed in the .xml format

Axis Framework



Axis Handler principle



Axis Documents

- The AXIS “Documents” are:
  - .afp. AXIS Foot Print Mandatory use for each Entity
  - .act. AXIS Certificate of traceability AXE (Export / Import) and acquisition of Media
  - .alg. AXIS LoG Logging of the management of the IDs
  - .acc. AXIS Configuration Control Control of all the versions of the Entities, Documents and Hyper links of the OPUS and of the PROFILES
  - .aci. AXIS Configuration & Indexing The key document for defining the clips and their links
  - .alb. AXIS Label The document giving the annotations attached to a point, a segment or an entity
  - .avm. AXIS Volume Management
  - .arm. AXIS Resource Management
  - .apm. AXIS Project Management
  - *.atd. AXIS Terms Definition <Definition> / <Link to a definition>*
  - .add. AXIS Document type Definition <Definition> / <Link to a definition>
  - *.aed. AXIS Entity Type Definition <Definition> / <Link to a definition>*
  - .als. AXIS List Set <List of Terms> / <Link to a list of Terms or Thesaurus>
  - .ard. AXIS Reference Data <Definition> / <Link to a definition>
  - .awa AXIS Wrapped Assembly To be used for the Export and Imports wrapped (f.i. ZIPed)

Profile Editor Output

Axis Term Definition

```
<rdf:RDF xmlns:axisCap="http://www.skema.fr/axisCap/" xmlns:terms="http://www.skema.fr/terms/"
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#">
    <rdf:Description rdf:about="http://www.skema.fr/axisCap/rootID">
        <terms:naturalLanguage/>
        <terms:definitionDate/>
        <terms:exampleOfContents/>
        <terms:refines>http://purl.org/dc/elements/1.1/identifier</terms:refines>
        <terms:typeOfTerm>Element</terms:typeOfTerm>
        <terms:definedBy/>
        <terms:label>rootID</terms:label>
        <terms:namespace>axisCap</terms:namespace>
        <terms:termURI>http://www.skema.fr/axisCap/rootID</terms:termURI>
    </rdf:Description>
    <rdf:Description rdf:about="http://www.skema.fr/axisCap/classOfEntity">
        <terms:termURI>http://www.skema.fr/axisCap/classOfEntity</terms:termURI>
        <terms:namespace>axisCap</terms:namespace>
        <terms:label>classOfEntity</terms:label>
        <terms:definedBy/>
        <terms:typeOfTerm>Element</terms:typeOfTerm>
        <terms:refines>http://purl.org/dc/elements/1.1/type</terms:refines>
        <terms:exampleOfContents/>
        <terms:definitionDate/>
        <terms:naturalLanguage/>
    </rdf:Description>
</rdf:RDF>
```

Resource

Property

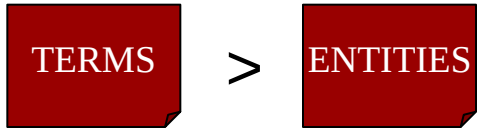
Value

TERMS

Profile Editor Output

Axis Entity Type Definitions

```
<rdf:RDF xmlns:axisCap="http://www.skema.fr/axisCap/" xmlns:terms="http://www.skema.fr/terms/"
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#">
    <rdf:Description rdf:about="http://www.skema.fr/axisCap/entity8">
        <axisCap:rootID/>
        <axisCap:classOfEntity>timeCodeOut</axisCap:classOfEntity>
    </rdf:Description>
    <rdf:Description rdf:about="http://www.skema.fr/axisCap/entity1">
        <axisCap:classOfEntity>opus</axisCap:classOfEntity>
        <axisCap:rootID/>
    </rdf:Description>
    <rdf:Description rdf:about="http://www.skema.fr/axisCap/entity5">
        <axisCap:rootID/>
        <axisCap:classOfEntity>project</axisCap:classOfEntity>
    </rdf:Description>
    <rdf:Description rdf:about="http://www.skema.fr/axisCap/entity3">
        <axisCap:rootID/>
        <axisCap:classOfEntity>clip</axisCap:classOfEntity>
    </rdf:Description>
    <rdf:Description rdf:about="http://www.skema.fr/axisCap/entity2">
        <axisCap:rootID/>
        <axisCap:classOfEntity>opusComponent</axisCap:classOfEntity>
    </rdf:Description>
    <rdf:Description rdf:about="http://www.skema.fr/axisCap/entity4">
        <axisCap:rootID/>
        <axisCap:classOfEntity>clip</axisCap:classOfEntity>
    </rdf:Description>
</rdf:RDF>
```



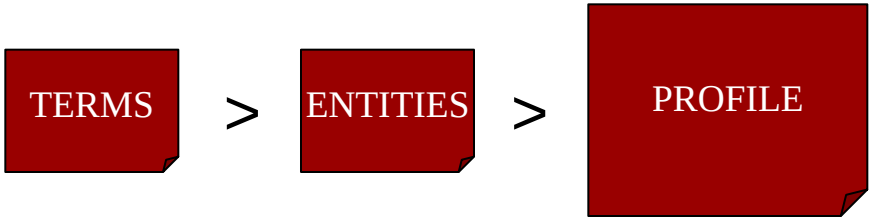
Profile Editor Output

Axis Manager Bootstrap

```
df:RDF xmlns:axisCap="http://www.skema.fr/axisCap/" xmlns:terms="http://www.skema.fr/terms/" xmlns:
ins:rdfs="http://www.w3.org/2000/01/rdf-schema#">
  <rdf:Description rdf:about="http://www.skema.fr/axisCap/segment">
      <rdf:type rdf:resource="http://www.w3.org/1999/02/22-rdf-syntax-ns#Property"/>
      <rdfs:subPropertyOf rdf:resource="http://www.skema.fr/axisCap/Choose you refinement"/>
      <rdfs:domain rdf:resource="http://www.skema.fr"/>
      <rdfs:label>segment</rdfs:label>
  </rdf:Description>
  <rdf:Description rdf:about="http://www.skema.fr/axisCap/Objectlink">
      <rdf:type rdf:resource="http://www.w3.org/1999/02/22-rdf-syntax-ns#Property"/>
      <rdfs:subPropertyOf rdf:resource="http://purl.org/dc/elements/1.1/source"/>
      <rdfs:domain rdf:resource="http://www.skema.fr/axisCap"/>

  .....

  |
  <rdfs:label>opusComponent</rdfs:label>
  </rdf:Description>
  <rdf:Description rdf:about="http://www.skema.fr/axisCap/classOfEntity">
      <rdf:type rdf:resource="http://www.w3.org/1999/02/22-rdf-syntax-ns#Property"/>
      <rdfs:subPropertyOf rdf:resource="http://purl.org/dc/elements/1.1/type"/>
      <rdfs:domain rdf:resource="http://www.skema.fr/axisCap"/>
      <rdfs:label>classOfEntity</rdfs:label>
  </rdf:Description>
  <rdf:Description rdf:about="http://www.skema.fr/axisCap/mediaName">
      <rdf:type rdf:resource="http://www.w3.org/1999/02/22-rdf-syntax-ns#Property"/>
      <rdfs:subPropertyOf rdf:resource="http://purl.org/dc/elements/1.1/title"/>
      <rdfs:domain rdf:resource="http://www.skema.fr/axisCap"/>
      <rdfs:label>mediaName</rdfs:label>
  </rdf:Description>
  <rdf:Description rdf:about="http://www.skema.fr/axisCap/point">
      <rdf:type rdf:resource="http://www.w3.org/1999/02/22-rdf-syntax-ns#Property"/>
      <rdfs:subPropertyOf rdf:resource="http://www.skema.fr/axisCap/Choose you refinement"/>
      <rdfs:domain rdf:resource="http://www.skema.fr"/>
      <rdfs:label>point</rdfs:label>
  </rdf:Description>
  <rdf:Description rdf:about="http://www.skema.fr/axisCap/timeCodeIn">
      <rdf:type rdf:resource="http://www.w3.org/1999/02/22-rdf-syntax-ns#Property"/>
      <rdfs:subPropertyOf rdf:resource="http://www.skema.fr/axisCap/Choose you refinement"/>
      <rdfs:domain rdf:resource="http://www.skema.fr"/>
      <rdfs:label>timeCodeIn</rdfs:label>
  </rdf:Description>
  <rdf:Description rdf:about="http://www.skema.fr/axisCap/physicalSupport">
      <rdf:type rdf:resource="http://www.w3.org/1999/02/22-rdf-syntax-ns#Property"/>
      <rdfs:subPropertyOf rdf:resource="http://purl.org/dc/elements/1.1/type"/>
      <rdfs:domain rdf:resource="http://www.skema.fr/axisCap"/>
      <rdfs:label>physicalSupport</rdfs:label>
  </rdf:Description>
  <rdf:Description rdf:about="http://www.skema.fr">
      <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#Class"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://www.skema.fr/axisCap">
      <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#Class"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://www.skema.fr/axisCap/project">
      <rdf:type rdf:resource="http://www.w3.org/1999/02/22-rdf-syntax-ns#Property"/>
      <rdfs:subPropertyOf rdf:resource="http://www.skema.fr/axisCap/Choose you refinement"/>
      <rdfs:domain rdf:resource="http://www.skema.fr"/>
      <rdfs:label>project</rdfs:label>
  </rdf:Description>
df:RDF>
```



Axis Profile layers cake

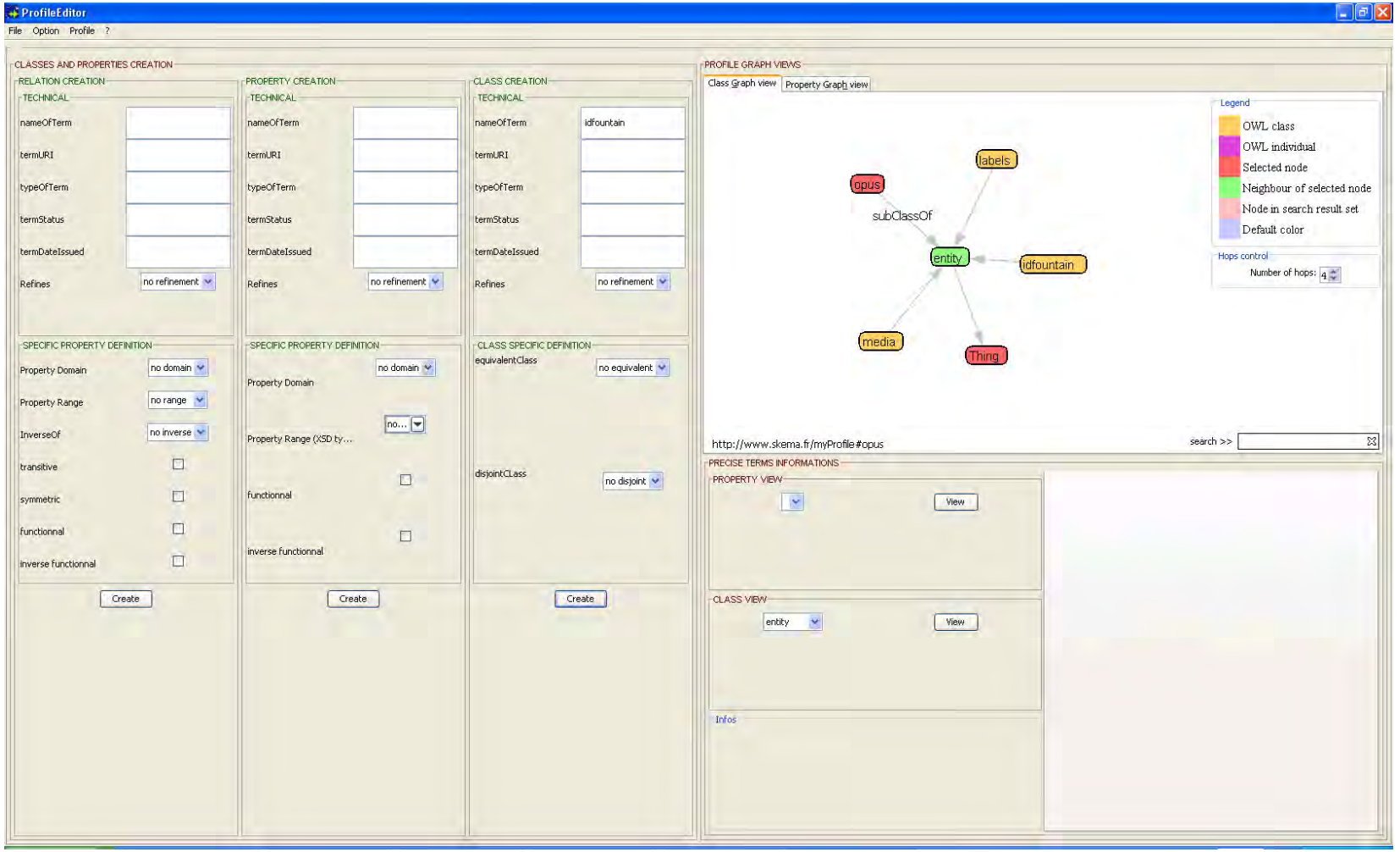
AXIS SEMANTIC LAYER
Web Ontology Language

AXIS Entities & Hierarchies
RDF Schema

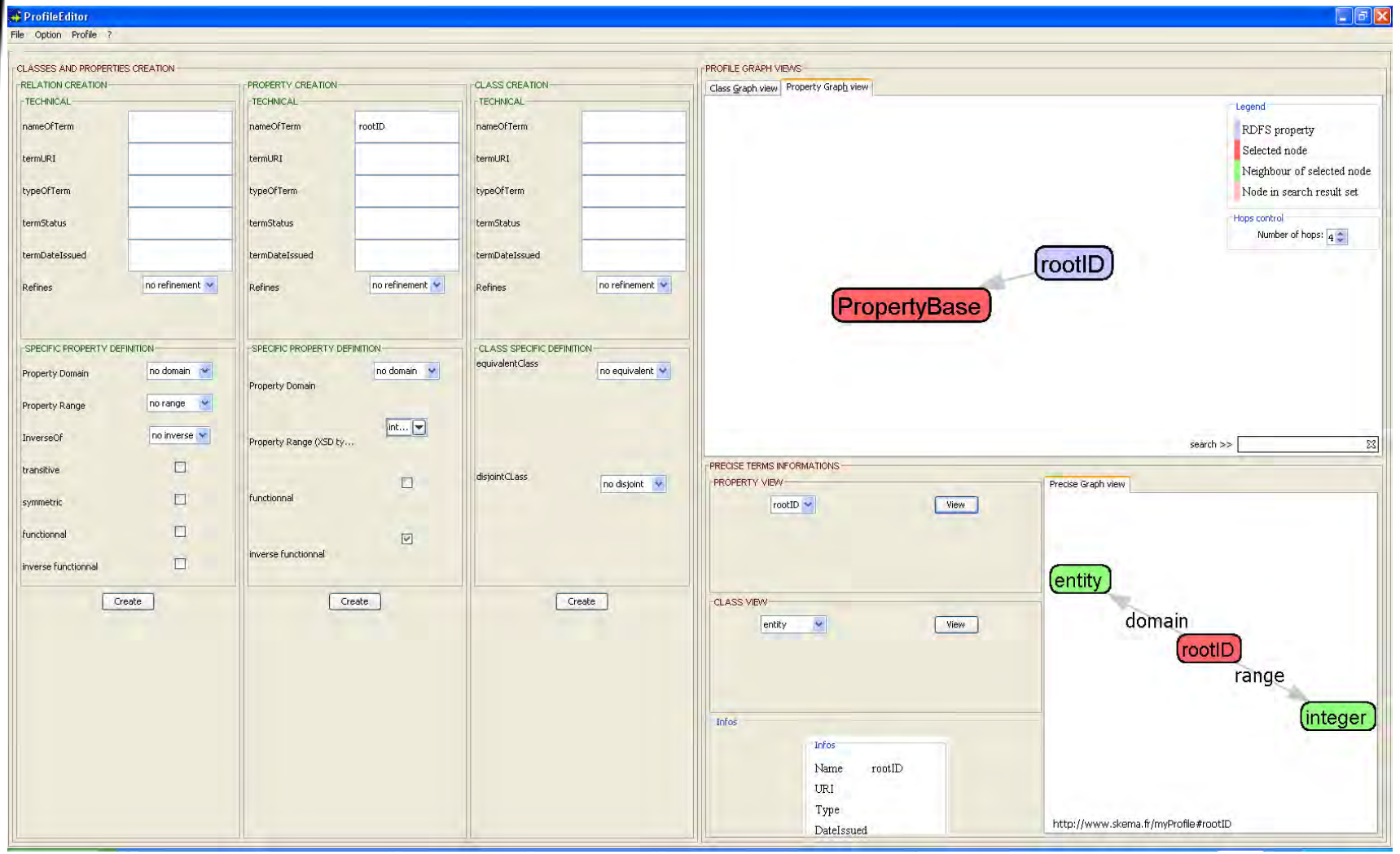
AXIS TERMS
DCMI/RDF

DCMI/TERMS

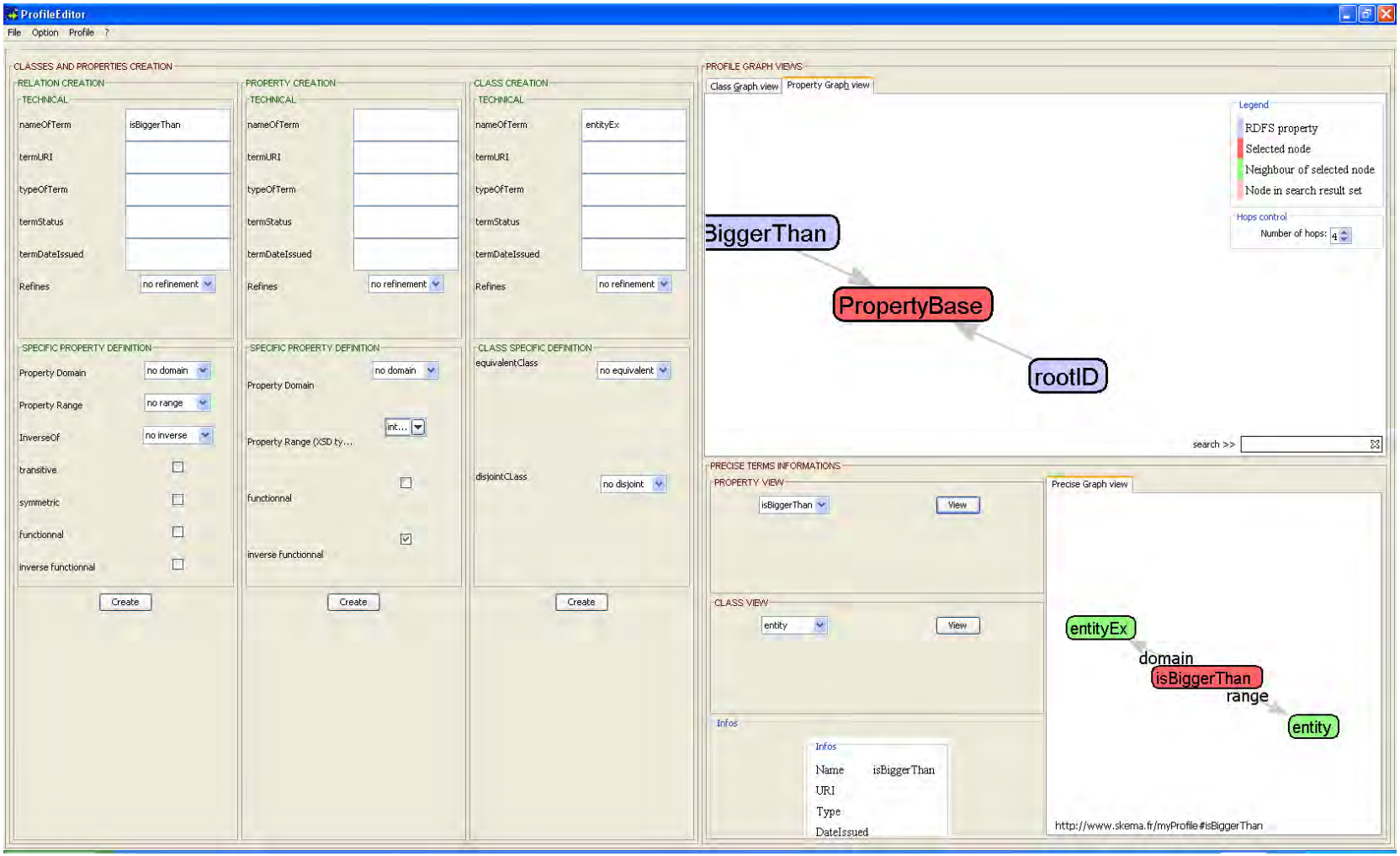
Profile Editor Main interface
Creating classes



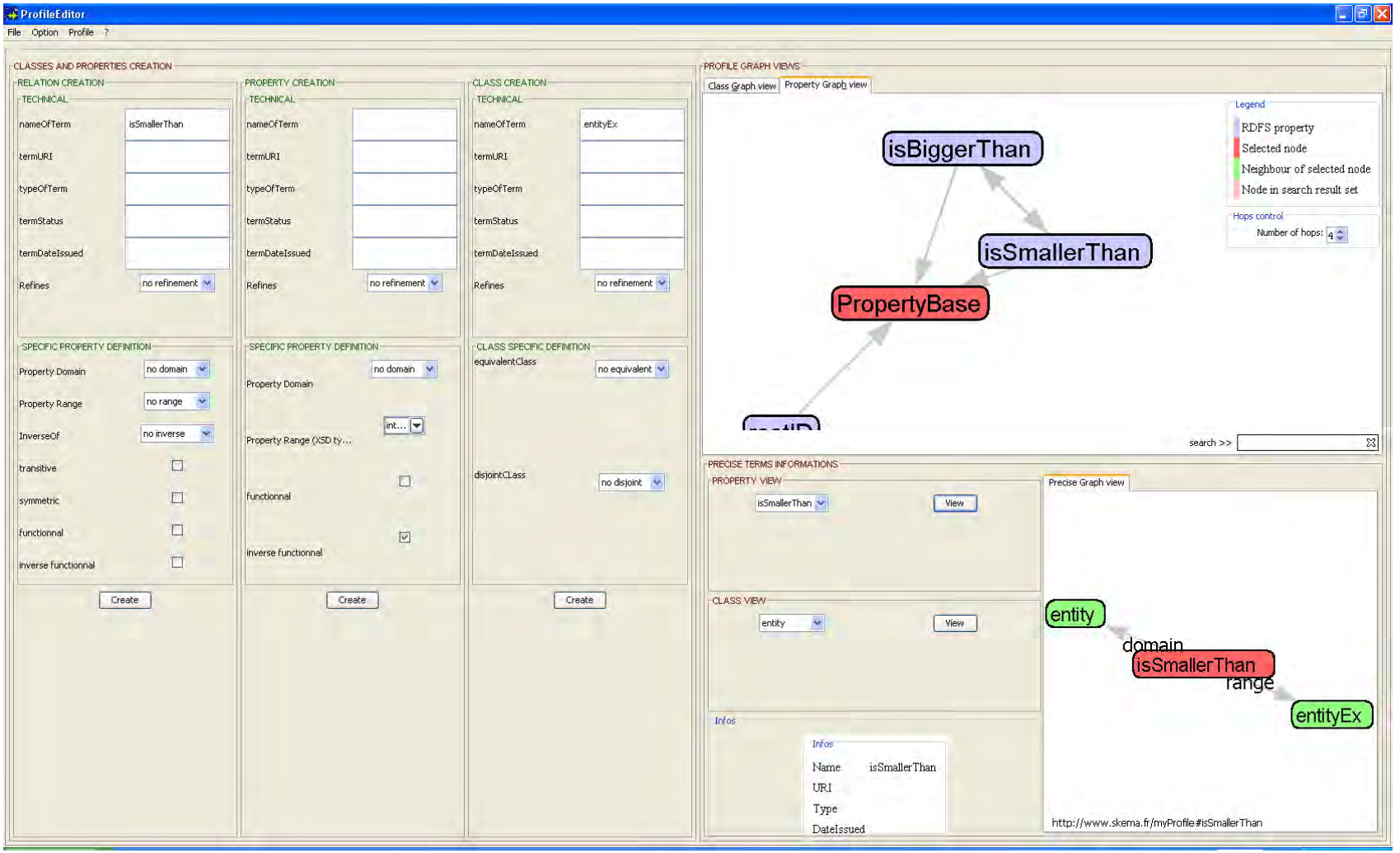
Profile Editor Main interface
Creating Properties



Profile Editor Main interface
Defining relations



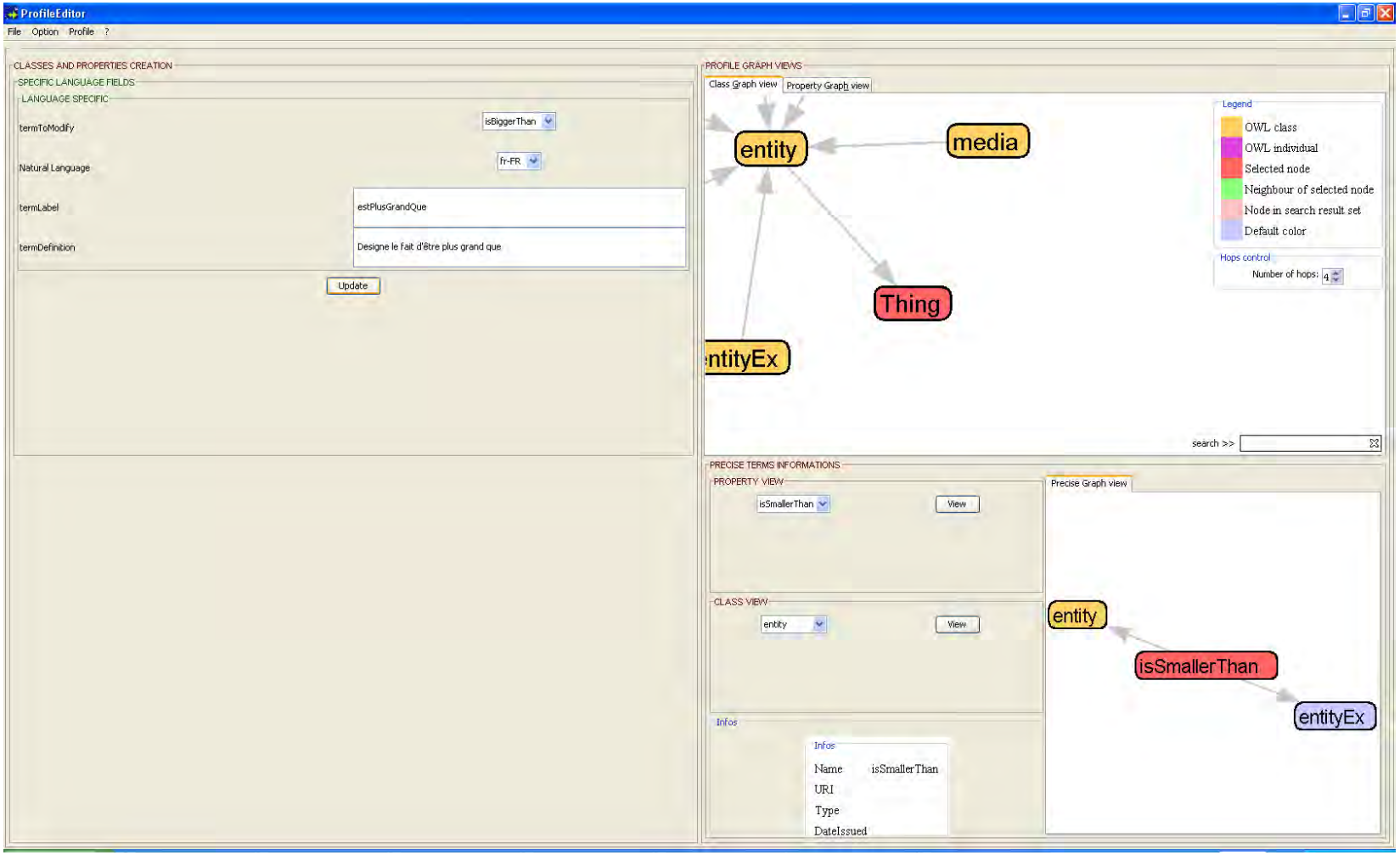
Profile Editor Main interface
Defining relations



... and its inverse property. Domain and range display are switched.

Profile Editor Main interface
Linguistic labels

We can add linguistic informations...



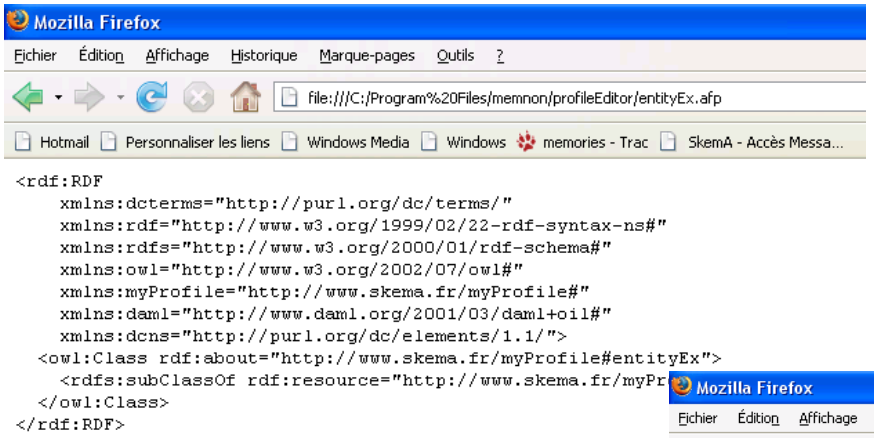
Profile Editor Main interface
Persistent document

OWL file to wrapp the profile

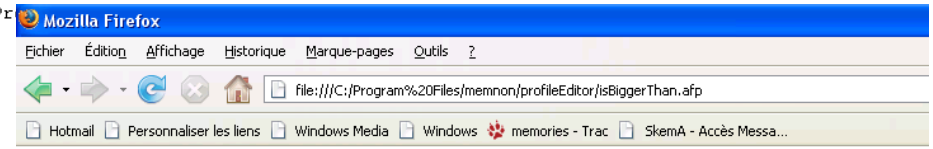

```
<rdf:RDF
    xmlns:dcterms="http://purl.org/dc/terms/"
    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
    xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
    xmlns:owl="http://www.w3.org/2002/07/owl#"
    xmlns:myProfile="http://www.skema.fr/myProfile#"
    xmlns:daml="http://www.daml.org/2001/03/daml+oil#"
    xmlns:dcns="http://purl.org/dc/elements/1.1/">
  <owl:Class rdf:about="http://www.skema.fr/myProfile#entity">
    <rdfs:subClassOf rdf:resource="http://www.w3.org/2002/07/owl#Thing"/>
  </owl:Class>
  <owl:Class rdf:about="http://www.skema.fr/myProfile#entityEx">
    <rdfs:subClassOf rdf:resource="http://www.skema.fr/myProfile#entity"/>
  </owl:Class>
  <owl:Class rdf:about="http://www.skema.fr/myProfile#opus">
    <rdfs:subClassOf rdf:resource="http://www.skema.fr/myProfile#entity"/>
  </owl:Class>
  <owl:Class rdf:about="http://www.skema.fr/myProfile#idgenerator">
    <rdfs:subClassOf rdf:resource="http://www.skema.fr/myProfile#entity"/>
    <owl:equivalentClass>
      <owl:Class rdf:about="http://www.skema.fr/myProfile#idfountain"/>
    </owl:equivalentClass>
  </owl:Class>
  <owl:Class rdf:about="http://www.skema.fr/myProfile#labels">
    <rdfs:subClassOf rdf:resource="http://www.skema.fr/myProfile#entity"/>
  </owl:Class>
  <owl:Class rdf:about="http://www.skema.fr/myProfile#idfountain">
    <rdfs:subClassOf rdf:resource="http://www.skema.fr/myProfile#entity"/>
    <owl:equivalentClass rdf:resource="http://www.skema.fr/myProfile#idgenerator"/>
  </owl:Class>
  <owl:Class rdf:about="http://www.skema.fr/myProfile#media">
    <rdfs:subClassOf rdf:resource="http://www.skema.fr/myProfile#entity"/>
  </owl:Class>
  <rdf:Property rdf:about="http://www.skema.fr/myProfile#isSmallerThan">
    <rdfs:subPropertyOf>
      <rdf:Property rdf:about="http://www.skema.fr/profileEditor#PropertyBase"/>
    </rdfs:subPropertyOf>
    <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#ObjectProperty"/>
    <owl:inverseOf>
      <rdf:Property rdf:about="http://www.skema.fr/myProfile#isBiggerThan"/>
    </owl:inverseOf>
    <rdfs:range rdf:resource="http://www.skema.fr/myProfile#entityEx"/>
    <rdfs:domain rdf:resource="http://www.skema.fr/myProfile#entity"/>
  </rdf:Property>
  <rdf:Property rdf:about="http://www.skema.fr/myProfile#isBiggerThan">
    <owl:inverseOf rdf:resource="http://www.skema.fr/myProfile#isSmallerThan"/>
    <rdfs:subPropertyOf>
      <rdf:Property rdf:about="http://www.skema.fr/profileEditor#PropertyBase"/>
    </rdfs:subPropertyOf>
    <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#ObjectProperty"/>
    <rdfs:domain rdf:resource="http://www.skema.fr/myProfile#entityEx"/>
    <rdfs:range rdf:resource="http://www.skema.fr/myProfile#entity"/>
  </rdf:Property>
  <rdf:Property rdf:about="http://www.skema.fr/myProfile#rootID">
    <rdfs:subPropertyOf>
```

Profile Editor Main interface
Persistent document

And each class and property created has its persistent document

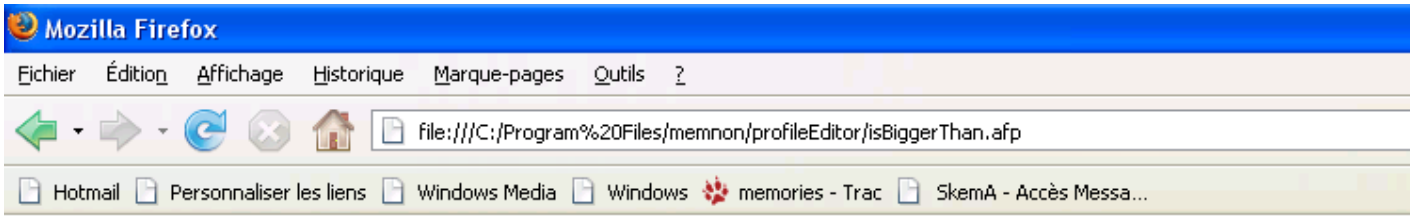



```
<rdf:RDF
    xmlns:dcterms="http://purl.org/dc/terms/"
    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
    xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
    xmlns:owl="http://www.w3.org/2002/07/owl#"
    xmlns:myProfile="http://www.skema.fr/myProfile#"
    xmlns:daml="http://www.daml.org/2001/03/daml+oil#"
    xmlns:dcns="http://purl.org/dc/elements/1.1/">
  <owl:Class rdf:about="http://www.skema.fr/myProfile#entityEx">
    <rdfs:subClassOf rdf:resource="http://www.skema.fr/myPr
  </owl:Class>
</rdf:RDF>
```




```
<rdf:RDF
    xmlns:dcterms="http://purl.org/dc/terms/"
    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
    xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
    xmlns:owl="http://www.w3.org/2002/07/owl#"
    xmlns:myProfile="http://www.skema.fr/myProfile#"
    xmlns:daml="http://www.daml.org/2001/03/daml+oil#"
    xmlns:dcns="http://purl.org/dc/elements/1.1/">
  <owl:ObjectProperty rdf:about="http://www.skema.fr/myProfile#isBiggerThan">
    <owl:inverseOf rdf:resource="http://www.skema.fr/myProfile#isSmallerThan"/>
    <rdfs:range rdf:resource="http://www.skema.fr/myProfile#entity"/>
    <rdfs:domain rdf:resource="http://www.skema.fr/myProfile#entityEx"/>
    <rdfs:subPropertyOf>
      <rdf:Property rdf:about="http://www.skema.fr/profileEditor#PropertyBase"/>
    </rdfs:subPropertyOf>
    <rdf:type rdf:resource="http://www.w3.org/1999/02/22-rdf-syntax-ns#Property"/>
  </owl:ObjectProperty>
  <rdf:Property rdf:about="http://www.skema.fr/profileEditor#PropertyBase">
    <rdfs:subPropertyOf rdf:resource="http://www.skema.fr/profileEditor#PropertyBase"/>
  </rdf:Property>
</rdf:RDF>
```

Profile Editor Main interface
Persistent document




```
<rdf:RDF
    xmlns:dcterms="http://purl.org/dc/terms/"
    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
    xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
    xmlns:owl="http://www.w3.org/2002/07/owl#"
    xmlns:myProfile="http://www.skema.fr/myProfile#"
    xmlns:daml="http://www.daml.org/2001/03/daml+oil#"
    xmlns:dcns="http://purl.org/dc/elements/1.1/">
  <owl:ObjectProperty rdf:about="http://www.skema.fr/myProfile#isBiggerThan">
    <rdfs:comment xml:lang="fr-FR">Designe le fait d'Ãªtre plus grand que</rdfs:comment>
    <rdfs:label xml:lang="fr-FR">estPlusGrandQue</rdfs:label>
    <owl:inverseOf rdf:resource="http://www.skema.fr/myProfile#isSmallerThan"/>
    <rdfs:range rdf:resource="http://www.skema.fr/myProfile#entity"/>
    <rdfs:domain rdf:resource="http://www.skema.fr/myProfile#entityEx"/>
    <rdfs:subPropertyOf>
      <rdf:Property rdf:about="http://www.skema.fr/profileEditor#PropertyBase"/>
    </rdfs:subPropertyOf>
    <rdf:type rdf:resource="http://www.w3.org/1999/02/22-rdf-syntax-ns#Property"/>
  </owl:ObjectProperty>
  <rdf:Property rdf:about="http://www.skema.fr/profileEditor#PropertyBase">
    <rdfs:subPropertyOf rdf:resource="http://www.skema.fr/profileEditor#PropertyBase"/>
  </rdf:Property>
</rdf:RDF>
```

And verify it in the persistent document.

Axis Documents

- The AXIS “Documents” are:

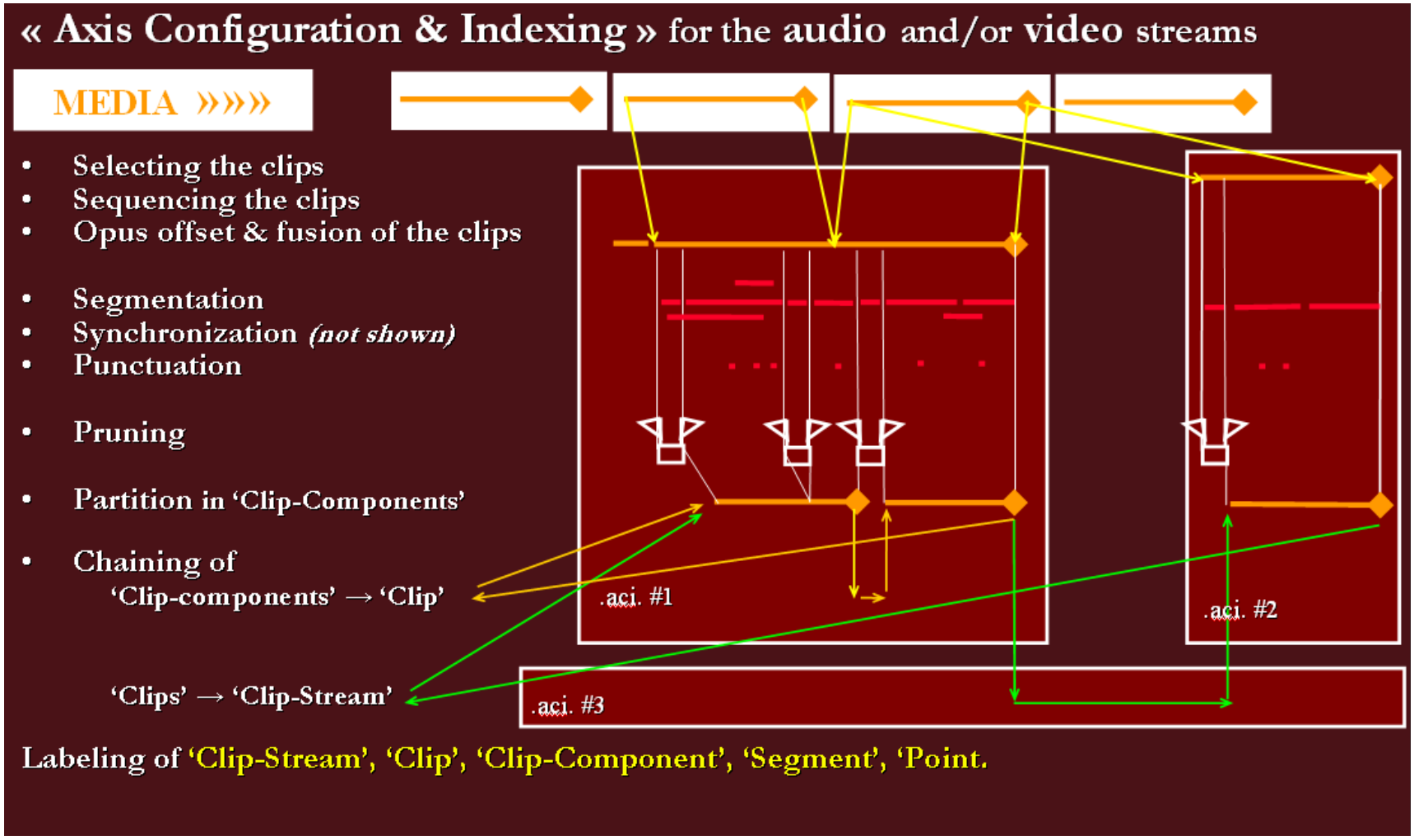
.afp.	AXIS Foot Print	Mandatory use for each Entity
.act.	AXIS Certificate of traceability	AXE (Export / Import) and acquisition of Media
.alg.	AXIS Log	Logging of the management of the IDs
.acc.	AXIS Configuration Control	Control of all the versions of the Entities, Documents and Hyper links of the OPUS and of the PROFILES
.aci.	AXIS Configuration & Indexing	The key document for defining the clips and their links
.alb.	AXIS Label	The document giving the annotations attached to a point, a segment or an entity
.avm.	AXIS Volume Management	
.arm.	AXIS Resource Management	
.apm.	AXIS Project Management	
.atd.	AXIS Terms Definition	<Definition> / <Link to a definition>
.add.	AXIS Document type Definition	<Definition> / <Link to a definition>
.aed.	AXIS Entity Type Definition	<Definition> / <Link to a definition>
.als.	AXIS List Set	<List of Terms> / <Link to a list of Terms or Thesaurus>
.ard.	AXIS Reference Data	<Definition> / <Link to a definition>
.awa	AXIS Wrapped Assembly	To be used for the Export and Imports wrapped (f.i. ZIPed)

.afp. AXIS Foot Print Mandatory use for each Entity
.act. AXIS Certificate of traceability AXE (Export / Import) and acquisition of Media
.alg. AXIS Log Logging of the management of the IDs
.acc. AXIS Configuration Control Control of all the versions of the Entities, Documents and Hyper links of the OPUS and of the PROFILES
.aci. AXIS Configuration & Indexing The key document for defining the clips and their links
.alb. AXIS Label The document giving the annotations attached to a point, a segment or an entity
.avm. AXIS Volume Management
.arm. AXIS Resource Management
.apm. AXIS Project Management
.atd. AXIS Terms Definition <Definition> / <Link to a definition>
.add. AXIS Document type Definition <Definition> / <Link to a definition>
.aed. AXIS Entity Type Definition <Definition> / <Link to a definition>
.als. AXIS List Set <List of Terms> / <Link to a list of Terms or Thesaurus>
.ard. AXIS Reference Data <Definition> / <Link to a definition>
.awa AXIS Wrapped Assembly To be used for the Export and Imports wrapped (f.i. ZIPed)

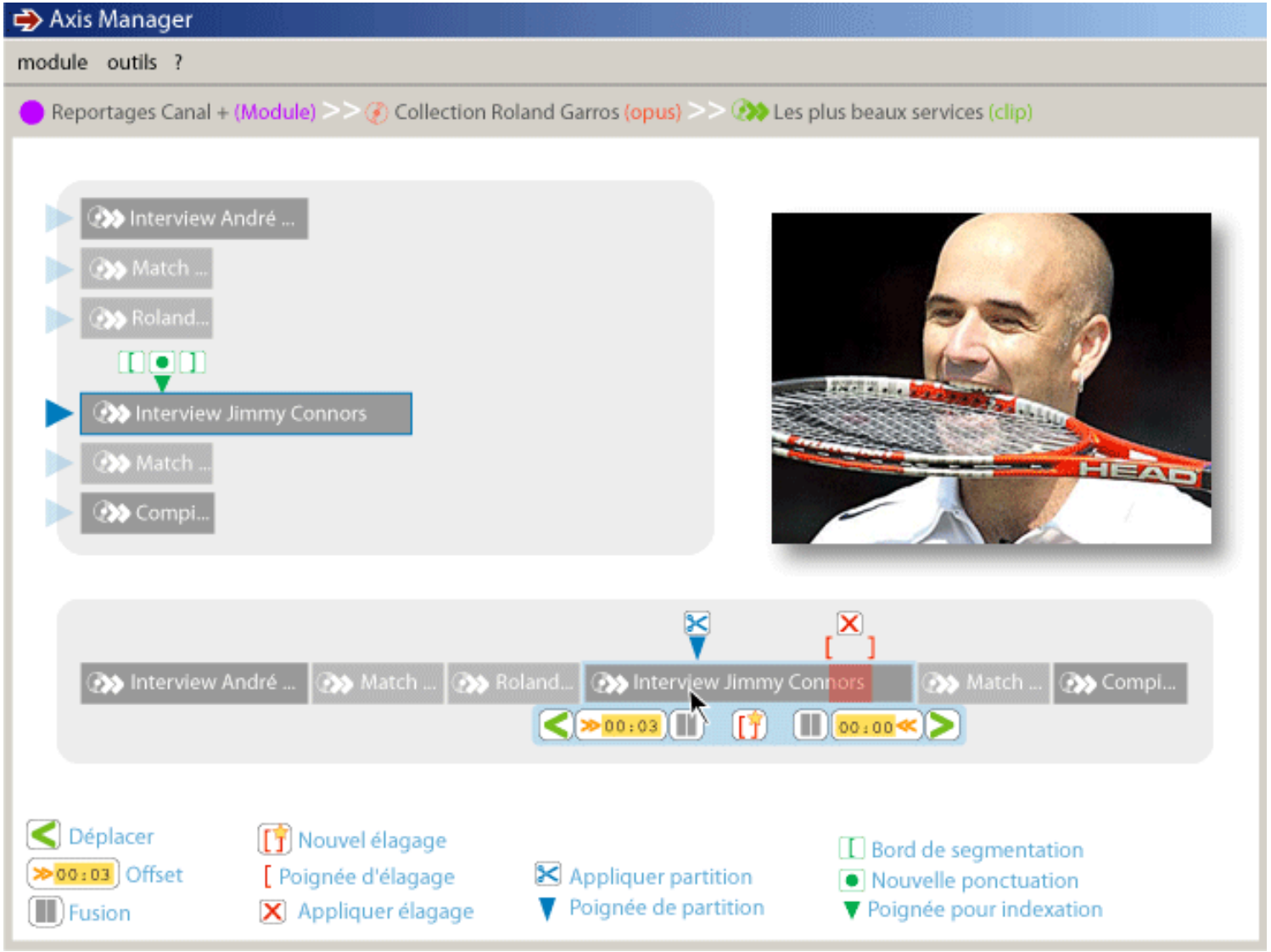
.afp. AXIS Foot Print Mandatory use for each Entity
.aci. AXIS Configuration & Indexing The key document for defining the clips and their links

- *Axis Manager Bootstrap*

Clip & Axis Configuration and Indexing

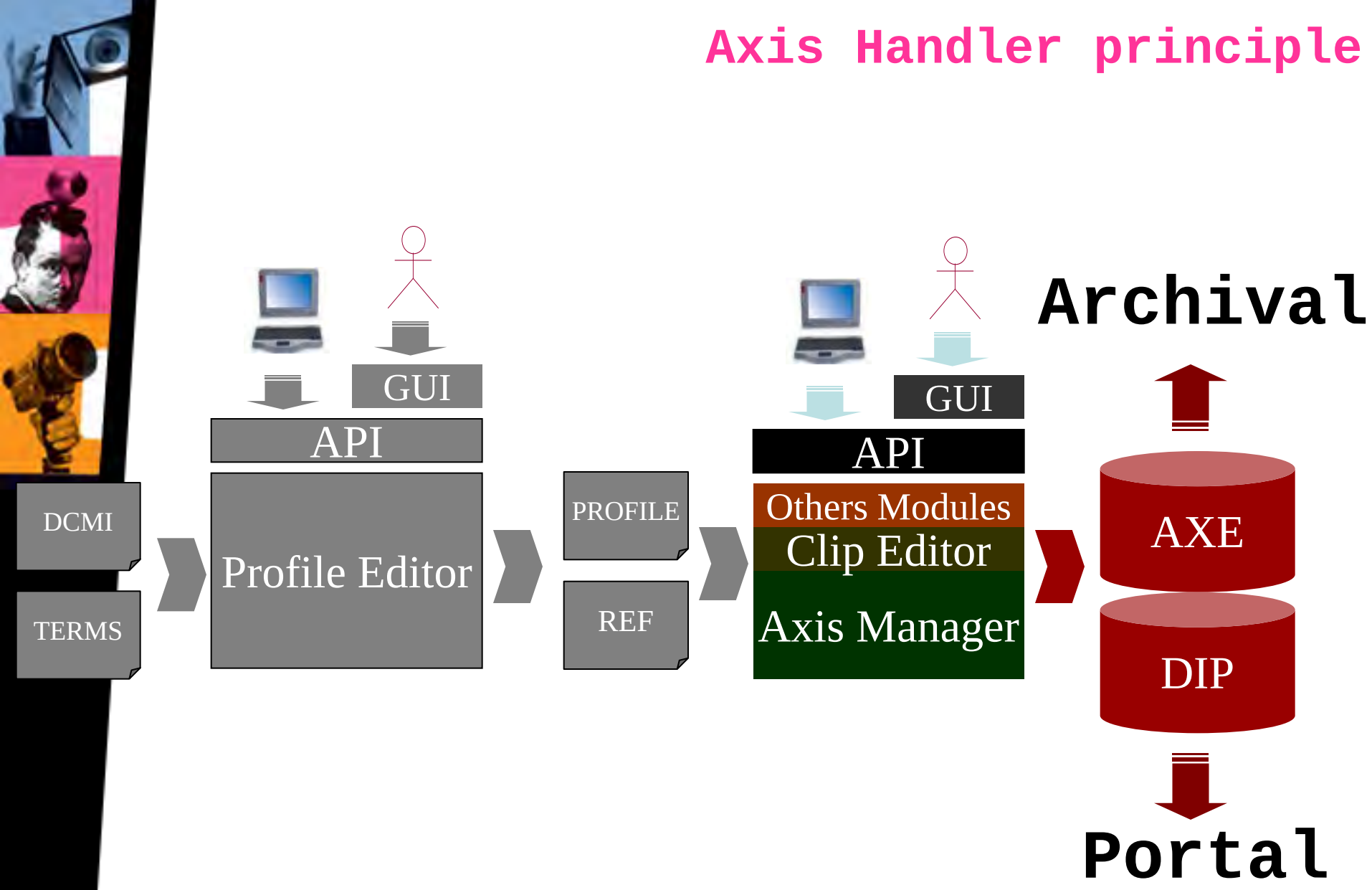


Clip & Axis Configuration and Indexing



DEMONSTRATION

Axis Handler principle



AXIS Manager principle

- Associate profile to content
  - AIP, SIP, DIP wrap both content and profile
  - Create, save, handle content according to its profile
- Enable Knowledge layer rendering
  - Semantic, logic and structural segmentation of content
  - Enable semantics links between AAE

The end

Axis Manager

module outils ?

Reportages Canal + (Module) >> Collection Roland Garros (opus)

Clip

- Toutes les balles de matchs
- Les plus beaux services
- Prises de tête avec l'arbitre
- Finale de l'édition 2000

46 Go occupés
87% de clips validés

Titre : Les plus beaux services
Profil : axis core
Résume : Reportage sur les services légendaires dans tous les tournois de Roland Garros de 1974 à 2005
Statistiques : 18 segments et 44 points

Finale hommes 1990

Opus fils | Resource | Project | Package

Project

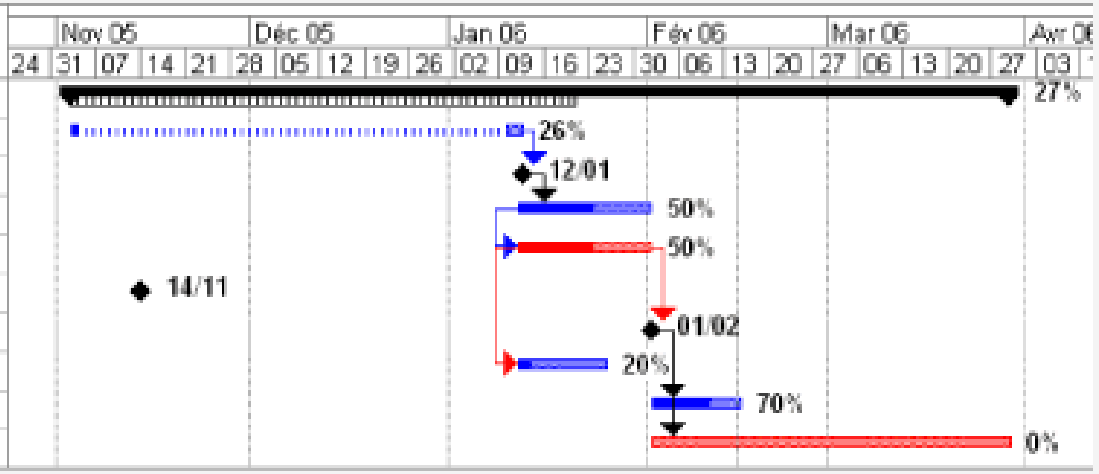
45 % des taches engagées
65 % d'avancement

Éditer le formulaire processus

Editer le planning

Titre : planning de tournage du reportage sur les plus beaux services de Roland Garros
Profil : axis core
Résume : Planning de gestion de projet des plus beaux services de Roland Garros

N°	Nom de la tâche
1	**AXIS PROFILE**
2	Finalisation du schema AXIS
3	Schema statique AXIS
4	Spécifications fonctionnelles
5	Spécifications techniques
6	Conférence ACF/TITAN
7	Spécifications dynamiques (API)
8	Démonstateur RIMES
9	Architecture Axis manager core
10	Implémentation



Axis Manager

module outils ?

Reportages Canal + (Module) >> Collection Roland Garros (opus)

Package

- Toutes les balles de matchs
- Les plus beaux services
- Prises de tête avec l'arbitre
- Finale de l'édition 2000

3 packages importés
1 package défini pour l'export

Titre : Les plus beaux services
Profil : axis core
Résume : package dvd pour la distribution commmerciale du sujet « Les plus beaux services de Roland Garros »

Opus fils Resource Project Clip

Axis Manager

module outils ?

Reportages Canal + (Module) >> Collection Roland Garros (opus)

Package

- Toutes les balles de matchs
- Les plus beaux services
- Prises de tête avec l'arbitre
- Finale de l'édition 2000

3 packages importés
1 package défini pour l'export

Titre : Prises de tête avec l'arbitre
Profil : axis core
Résume : 52 minues pour diffusion antenne de « Les plus grosses prises de tête avec l'arbitre de l'histoire du tennis »

Opus fils Resource Project Clip

Axis Manager

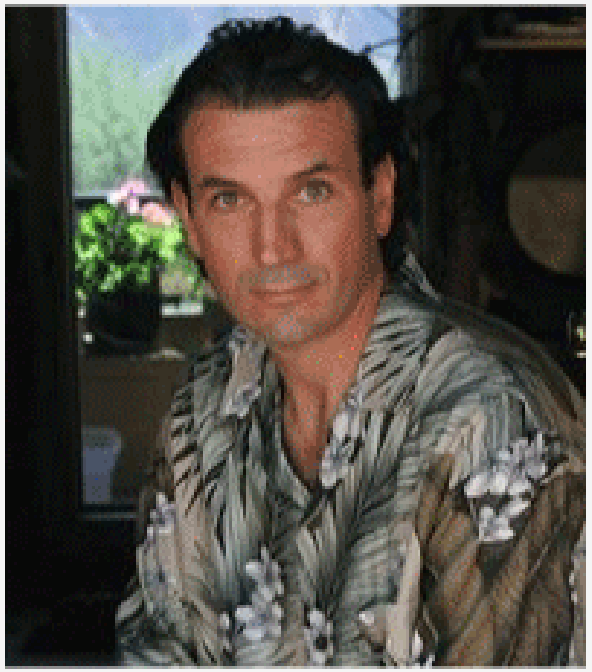
module outils ?

Reportages Canal + (Module) >> Collection Roland Garros (opus)

Resource

- Cameraman badge 4767
- Cameraman badge 2865
- Producteur badge 2424
- Documentaliste badge 123
- Documentaliste badge 5985
- Panasonic P2 badge 34
- PD150 sony badge 545
- Betacam badge 980

Titre : Cameraman Badge 4767
Profil : axis core
Résume : Jean-Pierre Courot, spécialiste steadycam et sport
Statistiques : mobilisé sur 8 projets



Au 24 03 2006 taux d'occupation des ressources humaines : 87%

30% des ressources matérielles non vérouillées

Opus fils | Package | Project | Clip