



Technology Enhanced Learning: Conformance - European Requirements & Testing

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Summary:	This report contains EIFEL's ePortfolio application profile for Content Packaging.

REVISION HISTORY

Version Number	Release Date	Comments
Draft 0.1	7 th October 2005	This is the first draft of the document. The aim of this version is to show the basic structure of the document and to indicate where more material is required.
Draft 0.2	14 th October 2005	Second draft including the main modifications for vocabulary usage (taken into account EPICC interoperability framework). This version has been used for the eportfolio plugfest event.
Draft 0.3	10 th January 2006	Third draft including new vocabulary terms to allow packaging of other Europass CV application profile (IMS LIP, UK Leap, HR-XML Resume, Cedefop Schema...) and other Europass doc (EDS AP, Europass CS, DS, Mobility and LP).
Final 0.3	10 th February 2006	

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LIST OF ACRONYMS

CP	Content Packaging
EP	ePortfolio
IMS	Instructional Management Services (IMS Global Learning Consortium)
XML	Extensible Markup Language
XSD	XML Schema Definition

LIST OF REFERENCES

Public Sources

IMS ePortfolio Model: <http://www.imsglobal.org/ep/index.cfm>

XML/XSD: <http://www.w3.org/XML>

EPICC Interoperability Framework: <http://www.eife-l.org/portfolio/interop/>

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Figure 1: IMS Portfolio Package profile of IMS Content Packaging 15

1 SCOPE

This Application Profile will reflect most of the IMS requirements for eportfolio content packaging and added some new vocabulary items to allow the inclusion of new portfolio parts using other LIP APs (i.e. UKLeap) like the use of others schema based portfolio parts (HR-XML Resume, Cedefop Europass...).

This part of the profile has been used as a simple example of e-Portfolio Application Profile for the ePortfolio Plugfest in Cambridge (October 2005).

2 TERMS OF REFERENCE

This profile was developed by EifEL and was based upon the IMS ePortfolio v1.0 specifications and documentation available on IMS Website. It is relevant to eportfolio communities of practice like Europortfolio with an interest in using IMS LIP APs or other specifications (UK Leap, HR-XML Resume, Cedefop Europass...) inside a portfolio package and particularly in the context of CV import/export (based on Europass CV model).

3 INFORMATION MODEL

This Application Profile will only focus on the eportfolio packaging part based on IMS CP and not on the Metadata part.

3.1 Content Packaging

3.1.1 Documents Used

The Content Packaging specification was taken from the document **IMS ePortfolio Information Model, IMS ePortfolio XML Binding and IMS ePortfolio Best Practice Guide** produced by the IMS.

3.1.2 General Notes

In this document, the following modifications of the IMS base specifications will be used:

1. Predefining a specific vocabulary list in the schema for the type attribute of each resource element.
2. Predefining a specific vocabulary list for defining the title vocabulary list of an item if this item is a direct child of organization element (as specified in the IMS spec)
3. Limit the maximum number of item element to five for the direct child node to organization element.

3.1.3 Vocabulary for ‘type’ attribute of <resource> elements

The IMS specifications explain that the resource identifier would allow identifying the associated item. The recommendations from IMS are:

The content for the <title> element is set as "PortfolioParts";

Each of the portfolioParts will be described using its own <item> child for which the corresponding <title> element will be used to supply the title of the view;

Each <item> that is used to identify a portfolioPart resource must have the resource identifier value allocated to the 'identifierref' attribute of the <item> element;

a. Each resource that is used to identify a portfolioPart XML instance will have the '**type**' attribute declared to identify the type of portfolioPart, i.e.:

'**imslip-Identification**' for identification material conforming to IMS LIP;

'**imslip-Accessibility**' for products material conforming to IMS Accessibility;

'**imslip-Activity**' for activities material conforming to IMS LIP;

'**imslip-Affiliation**' for affiliations material conforming to IMS LIP;

'**imslip-Competency**' for competencies material conforming to IMS LIP;

'**imslip-Goal**' for goals material conforming to IMS LIP;

'**imslip-Interests**' for interests material conforming to IMS LIP;

'**imses-Participation**' for groups material conforming to IMS Enterprise Services;

'**imslip-Product**' for products material conforming to IMS LIP;

'**imslip-QCL**' for QCLs material conforming to IMS LIP;

'**imslip-SecurityKey**' for security keys material conforming to IMS LIP;

'**imslip-Transcript**' for transcripts material conforming to IMS LIP;

'**imsep-Assertion**' for assertions conforming to IMS Assertion;

'**imsep-Reflection**' for reflections conforming to IMS Reflection;

'**imsep-Rubric**' for rubrics conforming to IMS Rubric;

'**imsep-RubricCell**' for rubric cells conforming to IMS Rubric;

Other portfolioParts should be identified using a similar naming convention that reflects the source and nature of the material and its form of binding;

a. Each resource that is used to identify a presentation XML instance will have the 'type' attribute declared as "**PresentationStyle**"; the order of the items ;

b. Each resource that is used to identify an owner XML instance will have the 'type' attribute declared as "**OwnerDescription**".

In order to take into account reflection from the European project EPICC and Europortfolio community it is planned to use for the Europortfolio community an Application Profile that will allow to package portfolio parts from different communities in Europe (UK Leap, HR-XML Europe, IMS Europe, Cedefop Europass) using other specification (HR-XML, Cedefop Europass) or other IMS LIP Application Profiles (Europass Diploma Supplement, UK Leap...) and a new proposal from EIFEL to profile Europass CV using IMS LIP and IMS ePortfolio portfolio parts (with the naming convention: “europasscvlip”)¹.

We’re using a naming convention similar to “*imslip-xxxx*” as specified in the IMS eP XML Binding document “*Other portfolioParts should be identified using a similar naming convention that reflects the source and nature of the material and its form of binding;*”

So here is the vocabulary list for the ‘type’ attribute of a <resource> element:

Cedefop Europass schemas

```
<xsd:enumeration value="cedefopeuropass-CV"/>
<xsd:enumeration value="cedefopeuropass-LP"/>
<xsd:enumeration value="cedefopeuropass-DS"/>
<xsd:enumeration value="cedefopeuropass-CS"/>
<xsd:enumeration value="cedefopeuropass-Mobility"/>
```

German Europass Diploma Supplement Application Profile (IMS LIP Based)

```
<xsd:enumeration value="edsdelip-Activity"/>
<xsd:enumeration value="edsdelip-Identification"/>
<xsd:enumeration value="edsdelip-Learnerinfo"/>
<xsd:enumeration value="edsdelip-QCL"/>
<xsd:enumeration value="edsdelip-Relationship"/>
<xsd:enumeration value="edsdelip-Transcript"/>
```

French Europass Diploma Supplement Application Profile (IMS LIP Based)

```
<xsd:enumeration value="edsfrlip-Activity"/>
<xsd:enumeration value="edsfrlip-Affiliation"/>
<xsd:enumeration value="edsfrlip-Competency"/>
<xsd:enumeration value="edsfrlip-Identification"/>
<xsd:enumeration value="edsfrlip-Product"/>
<xsd:enumeration value="edsfrlip-QCL"/>
<xsd:enumeration value="edsfrlip-Relationship"/>
```

Europortfolio Europass CV Application Profile (IMS LIP Based)

```
<xsd:enumeration value="europasscvlip-Activity"/>
<xsd:enumeration value="europasscvlip-Affiliation"/>
<xsd:enumeration value="europasscvlip-Assertion"/>
<xsd:enumeration value="europasscvlip-Competency"/>
<xsd:enumeration value="europasscvlip-Goal"/>
<xsd:enumeration value="europasscvlip-Identification"/>
<xsd:enumeration value="europasscvlip-Interests"/>
<xsd:enumeration value="europasscvlip-Product"/>
<xsd:enumeration value="europasscvlip-QCL"/>
<xsd:enumeration value="europasscvlip-Reflexion"/>
<xsd:enumeration value="europasscvlip-Relationship"/>
```

¹ This part of the Application Profile is detailed in the second part of this Application Profile.

Other Europortfolio eportfolio related schemas

```
<xsd:enumeration value="europortfolio-blog"/>
<xsd:enumeration value="europortfolio-rssresource"/>
<xsd:enumeration value="FOAF"/>
```

HR-XML Schemas

```
<xsd:enumeration value="hrxmlcpo-Competencies"/>
<xsd:enumeration value="hrxmlcpo-ContactMethod"/>
<xsd:enumeration value="hrxmlcpo-DemographicDetail"/>
<xsd:enumeration value="hrxmlcpo-EducationHistory"/>
<xsd:enumeration value="hrxmlcpo-EmploymentHistory"/>
<xsd:enumeration value="hrxmlcpo-MilitaryHistory"/>
<xsd:enumeration value="hrxmlcpo-PersonName"/>
<xsd:enumeration value="hrxmlcpo-PostalAddress"/>
<xsd:enumeration value="hrxmlcpo-PublicationHistory"/>
<xsd:enumeration value="hrxmlcpo-SpeakingEventsHistory"/>
<xsd:enumeration value="hrxmlcpo-SupportingMaterials"/>
<xsd:enumeration value="hrxmlcpo-UserArea"/>
<xsd:enumeration value="hrxmlcpo-WorkSite"/>
<xsd:enumeration value="hrxmlsep-Candidate"/>
<xsd:enumeration value="hrxmlsep-PositionOpening"/>
<xsd:enumeration value="hrxmlsep-Resume"/>
```

IMS LIP root schemas (for portfolio with full lip file)

```
<xsd:enumeration value="imslip-Learnerinfo"/>
```

IMS LIP portfolio part schemas**(for portfolio with portfolio parts lip files)**

```
<xsd:enumeration value="imsep-Assertion"/>
<xsd:enumeration value="imsep-PortfolioPackage"/>
<xsd:enumeration value="imsep-Reflection"/>
<xsd:enumeration value="imsep-Rubric"/>
<xsd:enumeration value="imsep-RubricCell"/>
<xsd:enumeration value="imses-Participation"/>
<xsd:enumeration value="imslip-Accessibility"/>
<xsd:enumeration value="imslip-Activity"/>
<xsd:enumeration value="imslip-Affiliation"/>
<xsd:enumeration value="imslip-Competency"/>
<xsd:enumeration value="imslip-Goal"/>
<xsd:enumeration value="imslip-Identification"/>
<xsd:enumeration value="imslip-Interests"/>
<xsd:enumeration value="imslip-Product"/>
<xsd:enumeration value="imslip-QCL"/>
<xsd:enumeration value="imslip-Relationship"/>
<xsd:enumeration value="imslip-SecurityKey"/>
<xsd:enumeration value="imslip-Transcript"/>
```

UK Leap root schemas**(for portfolio with full UKleap file)**

```
<xsd:enumeration value="uklip-Learnerinfo"/>
```

UK Leap portfolio part schemas**(for portfolio with portfolio parts ukleap files)**

```
<xsd:enumeration value="uklip-Accessibility"/>
<xsd:enumeration value="uklip-Activity"/>
<xsd:enumeration value="uklip-Affiliation"/>
<xsd:enumeration value="uklip-Assertion"/>
<xsd:enumeration value="uklip-Competency"/>
<xsd:enumeration value="uklip-Goal"/>
```

```
<xsd:enumeration value="uklip-Identification"/>
<xsd:enumeration value="uklip-Interests"/>
<xsd:enumeration value="uklip-Product"/>
<xsd:enumeration value="uklip-QCL"/>
<xsd:enumeration value="uklip-Reflexion"/>
<xsd:enumeration value="uklip-Relationship"/>
<xsd:enumeration value="uklip-SecurityKey"/>
<xsd:enumeration value="uklip-Transcript"/>
```

Other IMS eportfolio spec related schemas

```
<xsd:enumeration value="OwnerDescription"/>
<xsd:enumeration value="PresentationStyle"/>
<xsd:enumeration value="RubricStyle"/>
```

Other type of content

(to stay compatible with IMS CP specs)

```
<xsd:enumeration value="test/html"/>
<xsd:enumeration value="Other"/>
<xsd:enumeration value="webcontent"/>
```

It is planned to add in a future release of this Application Profile a new constraint to predefine the associated schema for each of these portfolioParts so it will be able to test the conformance of each of them regarding a base schema or an another application profile.

3.1.4 Vocabulary for <organization><item><title> element

As specified in the IMS specification, this vocabulary list is limited to five elements: Views, Presentations, Owners, Relationships and PortfolioParts.

- a. The <organization> can have, at most, five <item> element children. Each of these <item> elements is used to refer to the five different content types for a Portfolio, i.e., the views, the presentations, the owners, the relationships, and the portfolioParts. The <organization> may have any combination of the four types but there is never more than one instance of each;

In the XML binding it is intended in the specifications that the Owners part will be replaced by an only one instance of imslip-identification in the PortfolioParts.

So we are using only four values in the AP:

- **Views**
- **Presentations**
- **Relationships**
- **PortfolioParts.**

3.1.5 Cardinality of <organization><item> elements

As said in the previous section the XML binding suppose that the Owners part is replaced by an instance of imslip-identification in PortfolioParts so the cardinality will be set to 1 to 4 (a minimum of one instance of PortfolioParts).

3.1.6 Content Packaging Profile

The modifications are highlighted in the table beyond by using text in bold.

Content Packaging						
Element Number	Element Name	Profile Use Mandatory / Optional / Prohibited	Type and Size	Maximum occurrences	Value Space	Notes
0	manifest	M	Container	1		
0.1	identifier	M	ID	1		
0.2	version	M	str()	1	“1.0”	fixed
0.3	xml:base	O	anyURI	1		
1	metadata	O	Container	1		
1.1	schema	M	str()	1		
1.2	schemaversion	M	str()	1		
1.3	#Wildcard	O	any	1		Extension point for metadata
2	organizations	M	Container	1		
2.1	default	M	IDRef	1	Contain the organization ref	
2.2	organization	M	Container	1		
2.2.1	identifier	M	ID	1		
2.2.2	title	M	str()	1		
2.2.3	item	M	Container	4		
2.2.3.1	identifier	M	ID	1		
2.2.3.2	identifierRef	O	str()	1		
2.2.3.3	title	M	str()	1	Views, Presentations, Relationships, PortfolioParts	fixed
2.2.3.4	item	M	Container	Unbounded		No specific vocabulary nor particular recommendations
2.2.3.5	Meta-data	O	Container	1		
2.2.4	Meta-data	O	Container	1		
3	resources	M	Container	1		
3.1	xml:base	O	anyURI	1		
3.2	resource	M	Container	1		
3.2.1	identifier	M	ID	1		
3.2.2	type	M	str()	1	“ims..., uklip..., hrxml-Resume, cedefopeuropass-CV, webcontent,”	Fixed see section 3.1.3
3.2.3	xml:base	O	anyURI	1		
3.2.4	href	M	anyURI	1		
3.2.5	meta-data	O	Container	1		
3.2.6	file	M	Container	Unbounded		
3.2.6.1	href	M	anyURI	1		file path
3.2.6.2	meta-data	O	Container	1		
4	manifest	O	Container	Unbounded		

4 BINDING

The binding use for this Application Profile is XML Binding.

4.1 Content Packaging

Figure 1 shows the effective schema that exists, pre-profiling, of Europortfolio ePortfolio content packages.

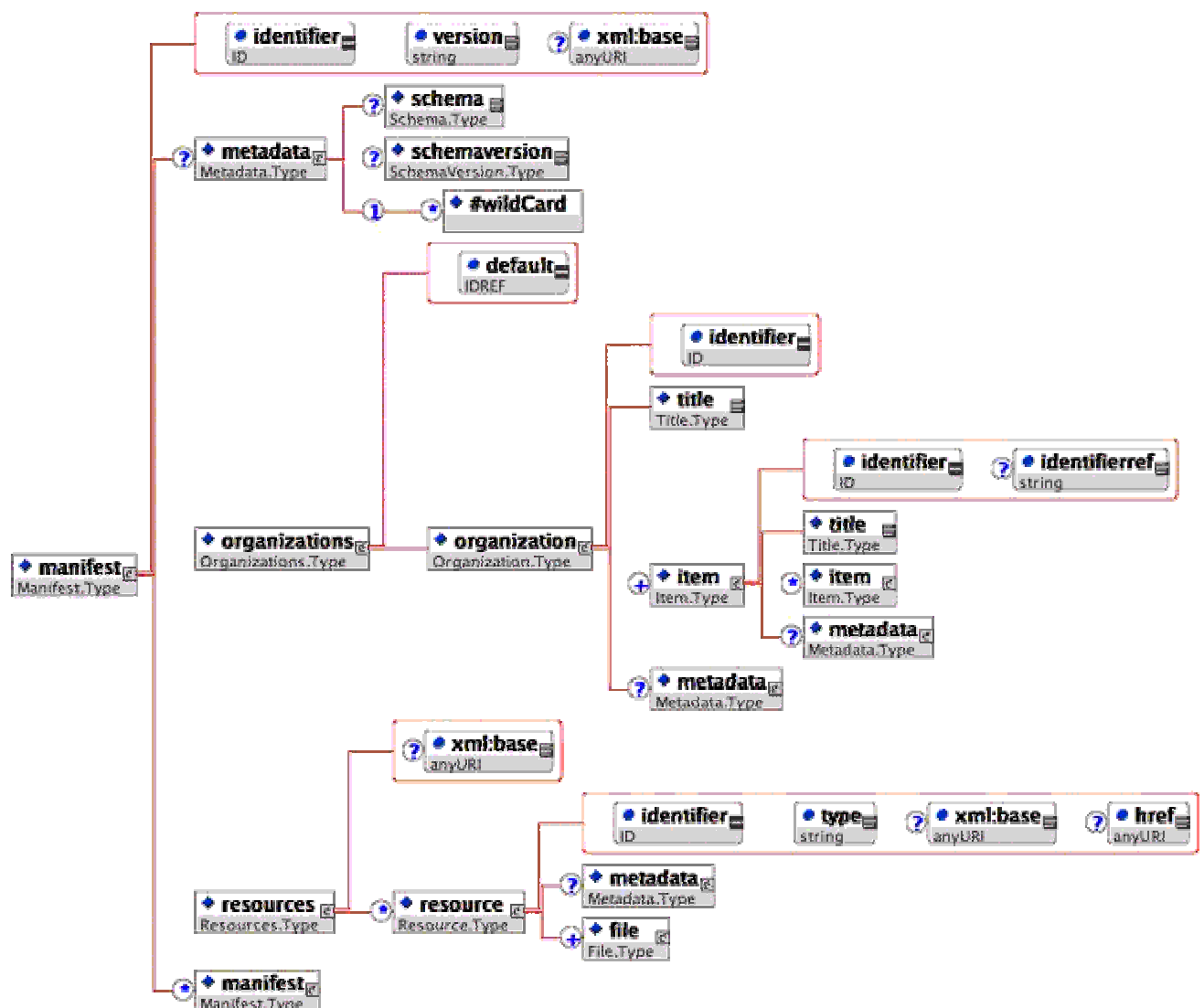


Figure 1: IMS Portfolio Package profile of IMS Content Packaging

4.2 Portfolio CP Application Profile

```

<?xml version="1.0" encoding="ISO-8859-1"?>
<sp:schema_mod baseSchema="imsportfoliocp_vlp0.xsd" level="restrictive"
  xmlns="http://www.imsglobal.org/xsd/imsportfoliocp_vlp0"
  xmlns:ac="http://iwm.uni-koblenz.de/xsd/tel_addc_vlp1"
  xmlns:sp="http://iwm.uni-koblenz.de/xsd/ims_apvlp5"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://iwm.uni-koblenz.de/xsd/ims_apvlp5
  ims_apvlp5.xsd">
  <sp:annotation>
    <sp:documentation category="conformance"
  xml:lang="en">Europortfolio ePortfolio Application Profile, reflect well
  the IMS ePortfolio Content Package Specifications and include new
  vocabulary to be used with other non IMS LIP specs as well as IMS LIP
  APs</sp:documentation>
    </sp:annotation>
    <sp:modifications>
      <sp:modification element="/xsd:schema/xsd:attributeGroup[7]">
        <sp:attribute_properties
          subelement="./xsd:attribute[@name='type']"
          type="eportfoliotype">
          <sp:annotation>
            <sp:documentation category="explanation"
          xml:lang="en">A list of authorized vocabulary to reflect the IMS ePortfolio
          requirements specifications regarding Resource Type
          attribute.</sp:documentation>
            </sp:annotation>
          </sp:attribute_properties>
        </sp:modification>
        <sp:modification element="/xsd:schema/xsd:element[4]">
          <sp:cardinality maxOccurs="4" minOccurs="1"
          subelement="./xsd:sequence[1]/xsd:element[2]">
          <sp:annotation>
            <sp:documentation category="explanation"
          xml:lang="en">Occurrences modifications to reflect IMS eP doc. Min 1, Max 4.
          </sp:documentation>
            </sp:annotation>
          </sp:cardinality>
          <sp:modification element="./xsd:sequence[1]/xsd:element[2]">
            <sp:modification
          element="./xsd:sequence[1]/xsd:element[1]">
            <sp:attribute_properties subelement="."
          type="eportfoliorootitemtitle">
            <sp:annotation>
              <sp:documentation category="explanation"
            xml:lang="en">Specific vocabulary for the main items under organization
            root.</sp:documentation>
              </sp:annotation>
            </sp:attribute_properties>
          </sp:modification>
        </sp:modification>
      </sp:modifications>
    <sp:definitions>
      <xsd:simpleType name="eportfoliotype">
        <xsd:restriction base="xsd:string">

```

```

<xsd:whiteSpace value="preserve"/>
<xsd:enumeration value="cedefopeuropass-CV"/>
<xsd:enumeration value="cedefopeuropass-LP"/>
<xsd:enumeration value="cedefopeuropass-DS"/>
<xsd:enumeration value="cedefopeuropass-CS"/>
<xsd:enumeration value="cedefopeuropass-Mobility"/>
<xsd:enumeration value="edsdelip-Activity"/>
<xsd:enumeration value="edsdelip-Identification"/>
<xsd:enumeration value="edsdelip-Learnerinfo"/>
<xsd:enumeration value="edsdelip-QCL"/>
<xsd:enumeration value="edsdelip-Relationship"/>
<xsd:enumeration value="edsdelip-Transcript"/>
<xsd:enumeration value="edsfrlip-Activity"/>
<xsd:enumeration value="edsfrlip-Affiliation"/>
<xsd:enumeration value="edsfrlip-Competency"/>
<xsd:enumeration value="edsfrlip-Identification"/>
<xsd:enumeration value="edsfrlip-Product"/>
<xsd:enumeration value="edsfrlip-QCL"/>
<xsd:enumeration value="edsfrlip-Relationship"/>
<xsd:enumeration value="europasscvlip-Activity"/>
<xsd:enumeration value="europasscvlip-Affiliation"/>
<xsd:enumeration value="europasscvlip-Assertion"/>
<xsd:enumeration value="europasscvlip-Competency"/>
<xsd:enumeration value="europasscvlip-Goal"/>
<xsd:enumeration value="europasscvlip-Identification"/>
<xsd:enumeration value="europasscvlip-Interests"/>
<xsd:enumeration value="europasscvlip-Product"/>
<xsd:enumeration value="europasscvlip-QCL"/>
<xsd:enumeration value="europasscvlip-Reflexion"/>
<xsd:enumeration value="europasscvlip-Relationship"/>
<xsd:enumeration value="europortfolio-blog"/>
<xsd:enumeration value="europortfolio-rssresource"/>
<xsd:enumeration value="FOAF"/>
<xsd:enumeration value="hrxmlcpo-Competencies"/>
<xsd:enumeration value="hrxmlcpo-ContactMethod"/>
<xsd:enumeration value="hrxmlcpo-DemographicDetail"/>
<xsd:enumeration value="hrxmlcpo-EducationHistory"/>
<xsd:enumeration value="hrxmlcpo-EmploymentHistory"/>
<xsd:enumeration value="hrxmlcpo-MilitaryHistory"/>
<xsd:enumeration value="hrxmlcpo-PersonName"/>
<xsd:enumeration value="hrxmlcpo-PostalAddress"/>
<xsd:enumeration value="hrxmlcpo-PublicationHistory"/>
<xsd:enumeration value="hrxmlcpo-SpeakingEventsHistory"/>
<xsd:enumeration value="hrxmlcpo-SupportingMaterials"/>
<xsd:enumeration value="hrxmlcpo-UserArea"/>
<xsd:enumeration value="hrxmlcpo-WorkSite"/>
<xsd:enumeration value="hrxmlsep-Candidate"/>
<xsd:enumeration value="hrxmlsep-PositionOpening"/>
<xsd:enumeration value="hrxmlsep-Resume"/>
<xsd:enumeration value="imslip-Learnerinfo"/>
<xsd:enumeration value="imsep-Assertion"/>
<xsd:enumeration value="imsep-PortfolioPackage"/>
<xsd:enumeration value="imsep-Reflexion"/>
<xsd:enumeration value="imsep-Rubric"/>
<xsd:enumeration value="imsep-RubricCell"/>
<xsd:enumeration value="imses-Participation"/>
<xsd:enumeration value="imslip-Accessibility"/>
<xsd:enumeration value="imslip-Activity"/>
<xsd:enumeration value="imslip-Affiliation"/>
<xsd:enumeration value="imslip-Competency"/>
<xsd:enumeration value="imslip-Goal"/>

```

```

    <xsd:enumeration value="imslip-Identification"/>
    <xsd:enumeration value="imslip-Interests"/>
    <xsd:enumeration value="imslip-Product"/>
    <xsd:enumeration value="imslip-QCL"/>
    <xsd:enumeration value="imslip-Relationship"/>
    <xsd:enumeration value="imslip-SecurityKey"/>
    <xsd:enumeration value="imslip-Transcript"/>
    <xsd:enumeration value="uklip-Learnerinfo"/>
    <xsd:enumeration value="uklip-Accessibility"/>
    <xsd:enumeration value="uklip-Activity"/>
    <xsd:enumeration value="uklip-Affiliation"/>
    <xsd:enumeration value="uklip-Assertion"/>
    <xsd:enumeration value="uklip-Competency"/>
    <xsd:enumeration value="uklip-Goal"/>
    <xsd:enumeration value="uklip-Identification"/>
    <xsd:enumeration value="uklip-Interests"/>
    <xsd:enumeration value="uklip-Product"/>
    <xsd:enumeration value="uklip-QCL"/>
    <xsd:enumeration value="uklip-Reflexion"/>
    <xsd:enumeration value="uklip-Relationship"/>
    <xsd:enumeration value="uklip-SecurityKey"/>
    <xsd:enumeration value="uklip-Transcript"/>
    <xsd:enumeration value="OwnerDescription"/>
    <xsd:enumeration value="PresentationStyle"/>
    <xsd:enumeration value="RubricStyle"/>
    <xsd:enumeration value="test/html"/>
    <xsd:enumeration value="Other"/>
    <xsd:enumeration value="webcontent"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="eportfoliorootitemtitle">
  <xsd:restriction base="Title.Type">
    <xsd:whiteSpace value="preserve"/>
    <xsd:enumeration value="PortfolioParts"/>
    <xsd:enumeration value="Presentations"/>
    <xsd:enumeration value="Relationships"/>
    <xsd:enumeration value="Views"/>
  </xsd:restriction>
</xsd:simpleType>
</sp:definitions>
<sp:mappings/>
</sp:schema_mod>

```

5 POLICY AND PROCESSES

Any interested party may use the Application Profile defined in this document. It used a Creative Common License:

Attribution-NonCommercial-ShareAlike 2.5

<http://creativecommons.org/licenses/by-nc-sa/2.5/>

6 CONFORMANCE TESTING

No conformance testing procedures have been outlined in this document. EiFEL has launched a study to evaluate the opportunity to build a conformance programme associated with this profile for the European portfolio community.

7 TOOLS

The modifications to this base specification were produced by the TELCERT Schemaprof Application (Version 4.1.0).

For further information: schemaprof@uni-koblenz.de

Link : <http://iwm.uni-koblenz.de/schemaprof/>

Test contents have been used with the following systems:

- EPICC Platform (Guinti LearnXact ePortfolio).
- TELCERT CRT (Version 2.2).

APPENDIX A: CREATIVE COMMON LICENSE



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