



Europass XML Schema v 2.0

INTRODUCTION

Europass has produced an XML vocabulary to describe the information contained in the CV and Language Passport. It is considered to be clear and self-explaining, while remaining sound and extensible, and also as close as possible to other related vocabularies, as those defined by HR-XML. The Europass XML Schema is currently on version 2.0 and is available from the Europass web site (section Downloads, Europass XML Schemas and XSLT Resources).

People who create a Europass CV (ECV) or Language passport (ELP) can save the document in Europass XML format or PDF format with the XML attached. Both formats can be imported to the Europass online editors or any other system that understands the Europass XML, ensuring that all information is properly parsed.

This document provides a description of the Europass XML Schema structure and aims to support interested parties, who wish to manage, edit or store Europass documents in their customised systems.

The rest of the document offers an in-depth description of the main "Learner Information" element, which is used by both the ECV and ELP documents.

EUROPASS XML SCHEMA

I. EUROPASS XML NAMESPACE

The main Europass namespace is the
xmlns:europass=" <http://europass.cedefop.europa.eu/Europass/V2.0>".

The XML Schema is available online at
http://europass.cedefop.europa.eu/xml/EuropassSchema_V2.0.xsd .

II. IMPORTED SCHEMAS

In order to reuse information, Europass imports some external XML Schemas which define formal vocabularies. These vocabularies are lists of terms, developed by an independent authority and adopted by Europass. Europass creates and manages the corresponding XML Schemas. Since these vocabularies are not property of Europass, they are not contained in the same namespace.

Namespace Prefixes:

- nace: http://europass.cedefop.europa.eu/xml/resources/NACE_COM.xsd
- isced: <http://europass.cedefop.europa.eu/xml/resources/ISCED97.xsd>
- driving: <http://europass.cedefop.europa.eu/xml/resources/EUDrivinglicence.xsd>

III. INCLUDED SCHEMAS

On the other hand there are other XML Schemas which also define formal vocabularies, but are included in the Europass namespace. The reason for this is that Europass has further edited by extending or filtering the initial form vocabulary to produce a custom version used by Europass documents. These XML Schemas are presented below:

- Europass CV and LP content:
http://europass.cedefop.europa.eu/xml/CVLPSchema_V2.0.xsd
- *Europass CV and LP formatting preferences (included by CVLPSchema_V2.0.xsd):*
http://europass.cedefop.europa.eu/xml/CVLPPreferences_V2.0.xsd
- ISO 3166-1 list of countries:
http://europass.cedefop.europa.eu/xml/EUROPASS_ISOCountries_V1.1.xsd
- ISO 639-1 list of languages:
http://europass.cedefop.europa.eu/xml/EUROPASS_ISOLanguages_V1.1.xsd
- ISCO 88 COM list of occupations:
http://europass.cedefop.europa.eu/xml/EUROPASS_ISCO_88_COM_V1.2.xsd

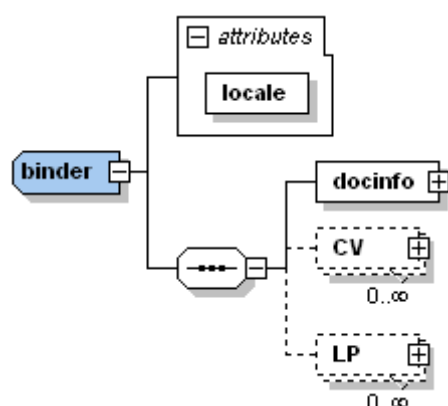
IV. XSLT RESOURCES

In the Downloads section of the Europass web site various XSLT resources are available, amongst which XSLT to transform a Europass XML to HTML.

EUROPASS BINDER (DEPRECATED)

The Europass Binder is a parent element which can group more than one “CV” and “LP” elements of “europass:learnerinformation” data type. The “CV” and “LP” elements refer to the corresponding ECV and ELP XML documents. Nevertheless, the Europass online editors or the web services accept only XML files where the root element is of “europass:learnerinformation” data type.

Note: The Europass Binder is an initial effort to implement in XML a Europass portfolio, which will include all Europass documents. The binder element is deprecated and will be removed from the next Europass XML Schema version. The root element of the Europass XML Schema will be the “learnerinfo”.



Elements and Attributes	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ binder	locale docinfo – europass:docinfo – S(1/0) CV – europass:learnerinformation – S(0/*) LP – europass:learnerinformation – S(0/*)	The document grouping all other ECV and ELP documents of a person.
locale	europass:locale	Attribute to define the language of the document.
/binder/docinfo	docinfo – europass:docinfo – S(1/0)	Provides information on the document.
/binder/CV	CV – europass:learnerinformation – S(0/*)	The Europass CV of a person.
/binder/LP	LP – europass:learnerinformation – S(0/*)	The Europass Language Passport of a person.

Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ europass:locale	xsd:restriction base: xsd:string [Pattern]: [a-z]{2}_[A-Z]{2}	Data type to define the accepted valued for a locale.

EUROPASS LEARNER INFORMATION

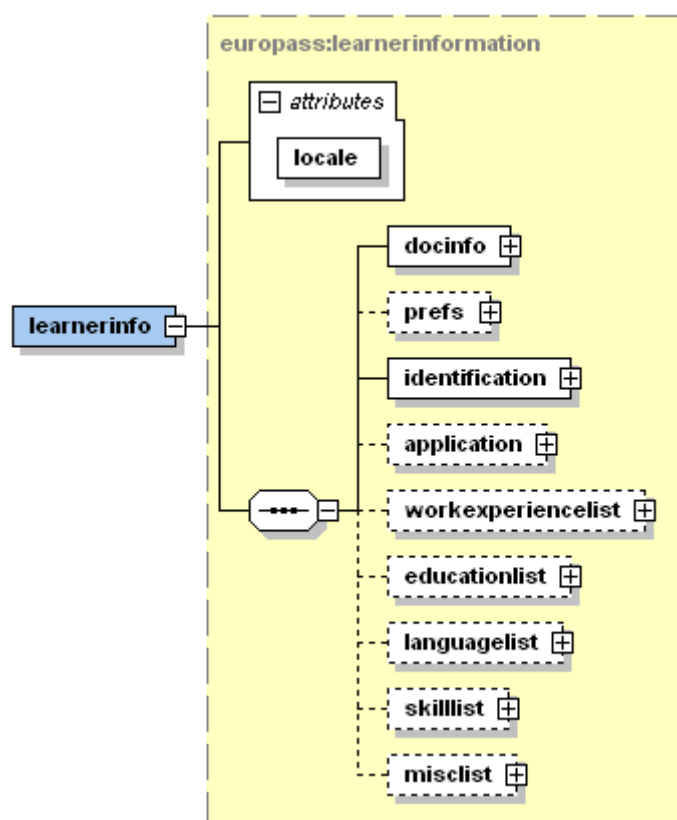
A Europass XML document consist of a main “learnerinfo” element whose type is “europass:learnerinformation”. This is the only element of the included Europass namespace schema “CVLPSchema_V2.0.xsd”.

This data type is used for both Europass documents, the CV and the Language Passport, since it includes all information that exists in both documents.

The XML documents for the CV and LP produced by the Europass online editors comprise a subset of the “learnerinfo” element. For example using the online CV editor one cannot add linguistic experiences or diplomas awarded related to a specific foreign language. Thus the elements “diplomalist” and “experiencelist” will not be included in the produced CV XML.

In this section the data type “europass:learnerinformation” will be presented in details, describing all possible child elements of the “learnerinfo”.

Elements and Attributes	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ learnerinfo	learnerinfo –europass:learnerinformation – S(1/1)	Information on the Europass document.



Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ europass:learnerinformation	locale docinfo – europass:docinfo – S(1/1) prefs– europass:preferences– S(0/1) identification– europass:identification– S(1/0) application– europass:occupationalfield – S(0/*) workexperiencelist– [complexType] – S(0/*) educationlist– [complexType] – S(0/*) languagelist– [complexType] – S(0/*) skilllist– [complexType] – S(0/*) misclist– [complexType] – S(0/*)	
locale	europass:locale	Attribute that defines the language of the Europass document.
/ learnerinformation/ docinfo	issuedate – xsd:dateTime – S(1/0) xsdversion – europass:versionNumbers – S(1/0) comment – xsd:string – S(0/*)	Information on the Europass document.
/ learnerinformation/ prefs	field– [complexType] – S(0/*)	Describes the preferences for formatting the Europass document.
/ learnerinformation/ identification	firstname –xsd:string – S(1/1) lastname –xsd:string – S(1/1) contactinfo –europass:contactinfo– S(1/1) demographics–europass:demographics– S(0/1) photo–europass: photo– S(0/1)	Describes the personal information of the owner of the Europass document.
/ learnerinformation/ application	code - europass:isco88com-level5 – S(0/1) label - xsd:string – S(0/1)	Describes the occupational field of the owner of the Europass document.
/ learnerinformation/ workexperiencelist	workexperience - europass:workexperience - S(1/*)	Describes the list of work experiences of the owner of the Europass document.
/ learnerinformation/ educationlist	education - europass:education - S(1/*)	Describes the list of educational experiences of the owner of the Europass document.
/ learnerinformation/ languagelist	language - europass:language - S(1/*)	Describes the list of the languages spoken by the owner of the Europass document.
/ learnerinformation/ skilllist	skill - europass:skill - S(1/*) structured-skill - europass:structured-skill - S(1/*)	Describes the list of skills of the owner of the Europass document.
/ learnerinformation/ misclist	misc - europass:miscellaneous - S(1/*)	Describes miscellaneous information added by the owner of the Europass document.

Sample element:

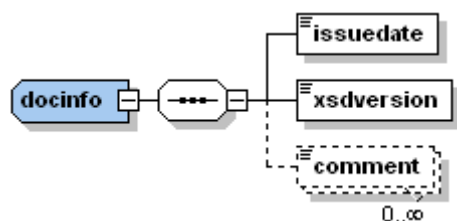
```
<europass:learnerinfo xmlns:europass=http://europass.cedefop.europa.eu/Europass/V2.0
xmlns:xsi=http://www.w3.org/2001/XMLSchema-instance
xsi:schemaLocation="http://europass.cedefop.europa.eu/Europass/V2.0
http://europass.cedefop.europa.eu/xml/EuropassSchema_V2.0.xsd" locale="en_GB">
  </docinfo>
```

```
</prefs>  
</identification>  
</application>  
</workexperiencelist>  
</educationlist>  
</languagelist>  
</skilllist>  
</misclist>  
</europass:learnerinfo>
```

I. DOCUMENT INFORMATION (<DOCINFO>)

The element which summarises the information of the document is named "docinfo". It is used to describe the Binder, ECV and ELP documents.

The "docinfo" is a structured element, consisting of a sequence of the elements "issuedate", "xsdversion" and "comment".



Elements and Attributes	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/docinfo	issuedate – xsd:dateTime – S(1/0) xsdversion – europass:versionNumbers – S(1/0) comment – xsd:string – S(0/*)	Information on the document.
/docinfo/issuedate	issuedate – xsd:dateTime – S(1/0)	The date this document was issued.
/docinfo/xsdversion	xsdversion – europass:versionNumbers – S(1/0)	The Europass XML Schema version with which this XML document complies.
/docinfo/comment	comment – xsd:string – S(0/*)	Any comment on the document.

Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/europass:versionNumbers	xsd:restriction base: xsd:string [Pattern]: V[0-9]\.[0-9]	The number of the version of the Europass XML Schema.

Sample element:

```
<docinfo>
  <issuedate>2008-10-10T11:50:08+03:00</issuedate>
  <xsdversion>V2.0</xsdversion>
  <comment>Automatically generated Europass CV</comment>
</docinfo>
```

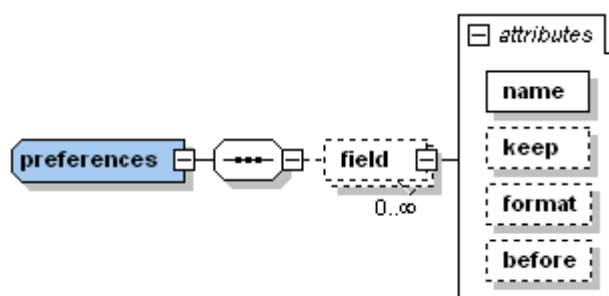
II. EUROPASS CV/ LP FORMATTING PREFERENCES (<PREFS>)

This section provides information for customising the view of a Europass document. It can be specified explicitly which fields to include or not in the produced document, as well as define the formatting of the dates and the order of appearance of the names and the lists of working and educational experiences.

Note: The use of this element is very specific to the way a Europass Document is produced via the Europass online editors or web services and is not compulsory if the Europass XML is used out of this scope. The Europass online editors and web services can perfectly handle an XML without this element by following the default behaviour: show in the produced document only the fields that are filled-in, show the names in an order specific per language, format the dates based on the default numeric formatting per language and show the list of work experiences before the list of educational experiences.

To define the above mentioned preferences a specific complex type is used, which is defined in the included to the Europass namespace schema, "CVLPPreferences_V2.0.xsd". Thus, the data type of element "prefs" is a complex type, named "preferences", consisting of a sequence of "field" elements. In turn, the data type of a "field" element is a complex type, defining the use of four attributes ("name", "keep", "format", "before").

Each element "field" has a required "name" attribute which links it to a specific field of the Europass CV or LP. The use of the rest attributes is optional. The "keep" attribute is true when the field is to appear in the produced Document and false otherwise. Moreover, the "format" attribute is a string attribute which is parsed by the Europass system in order to understand the chosen formatting for the date. Finally, the "before" attribute contains a link to a specific field of the Europass CV and LP.



Sample element:

Do not show in the produced Document the photograph:

```
<field name="step1.photo" keep="false" />
```

Show the surname before the first name:

```
<field name="step1.lastName" before="step1.firstName" />
```

Format the address as a short text, e.g. 25 Jan 82:

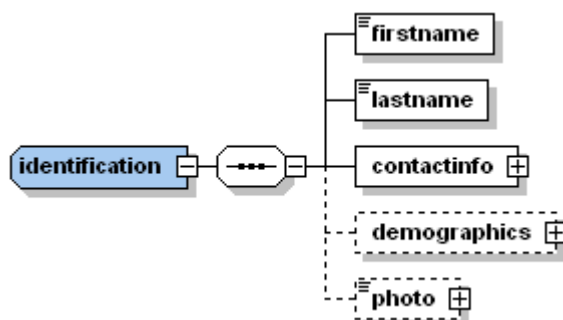
```
<field name="step1.birthDate" keep="true" format="/text/short" />
```

Show the list of work experiences before the list of educational experiences:

```
<field name="step3List" keep="false" before="step4List"/>
```

III. PERSONAL DETAILS (<IDENTIFICATION>)

This section includes the personal data of the owner of the Europass document.



Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ identification	firstname –xsd:string – S(1/1) lastname –xsd:string – S(1/1) contactinfo –europass:contactinfo– S(1/1) demographics –europass:demographics– S(0/1) photo –europass:photo– S(0/1)	Describes the personal information of the owner of the Europass document.

Sample element:

```

<identification>
  <firstname>Rossi</firstname>
  <lastname>Giovanni</lastname>
  <contactinfo>
    <address>
      <addressLine>Via Milano 11</addressLine>
      <municipality>Roma</municipality>
      <postalCode>00144</postalCode>
      <country>
        <code>IT</code>
        <label>Italia</label>
      </country>
    </address>
    <telephone> 0845 120 30 46</telephone>
    <fax> 0845 120 50 58</fax>
    <mobile> 0845 120 30 47</mobile>
    <email>bragov@whao.com</email>
  </contactinfo>
  <demographics>
    <birthdate>1980-08-10</birthdate>
    <gender>F</gender>
    <nationality>
      <code>IT</code>
      <label>Italiana</label>
    </nationality>
  </demographics>
  </photo type="JPEG">
</identification>
  
```

III.1. First name (<firstname>)

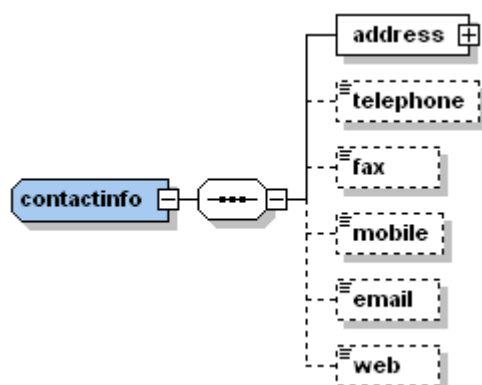
The XML element "firstname" describes the first name (s) of a person. The data type of this element is xsd:string.

III.2. Surname (<lastname>)

The XML element "lastname" describes the surname (s) of a person. The data type of this element is xsd:string.

III.3. Contact information (<contactinfo>)

The XML element "contactinfo" summarises the various ways a person can be contacted.



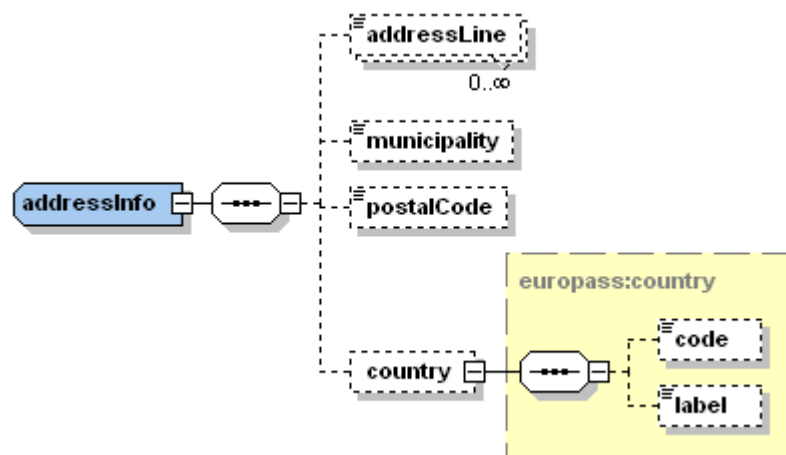
Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ contactinfo	address – europa:addressInfo – S(1/1) telephone – xsd:string – S(0/1) fax – xsd:string – S(0/1) mobile – xsd:string – S(0/1) email – xsd:string – S(0/1)	Describes the various ways the owner of the Europass document can be contacted.

III.3.1. Address (<address>)

The XML element "address" describes the address of a person's residence.

The data type of this element is a complex type, consisting of a sequence of the address line, municipality, postal code and country elements.

Moreover, the data type of the element describing the country is also a complex type, consisting of the country's code and label elements. The code of the country is taken from the ISO 3166-1 alpha-2 list, further edited by Europass.



Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ addressInfo	addressLine – xsd:string – S(0/*) municipality – xsd:string – S(0/1) postalCode – xsd:string – S(0/1) country – europass:country – S(0/1)	Address is a structured element consisting of one or more addressLine element(s), a municipality element, a postalCode element and a country element.
/ country	code - europass:countryCode – S(0/1) label - xsd:string – S(0/1)	Country is a structured element consisting of the code and label of a country.
/ countryCode	xsd:restriction base: xsd:string [Enumeration]	The country code comes from the ISO 3166-1 alpha-2 list of countries, further edited by Europass.

III.3.2. Telephone (<telephone>)

The XML element “telephone” describes the telephone number of a person. The data type of this element is xsd:string.

III.3.3. Fax (<fax>)

The XML element “fax” describes the fax number of a person. The data type of this element is xsd:string.

III.3.4. Mobile (<mobile>)

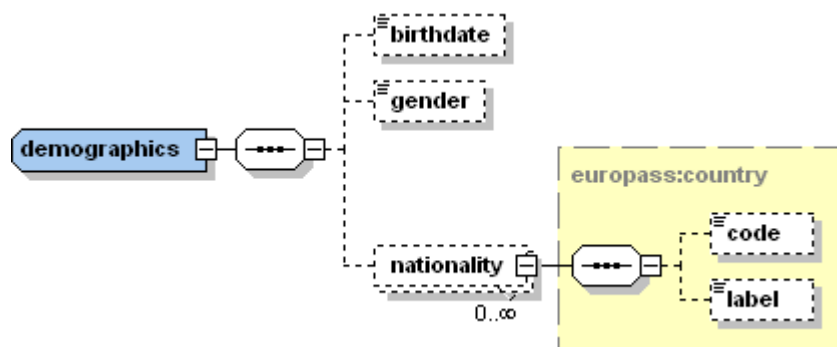
The XML element “mobile” describes the mobile number of a person. The data type of this element is xsd:string.

III.3.5. Email (<email>)

The XML element “email” describes the email of a person. The data type of this element is xsd:string.

III.4. Demographics (<demographics>)

The XML element “demographics” describes some of the demographical descriptors of a person, such as the date of birth, the gender and the nationality(-ies).



Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ demographics	birthdate – xsd:date – S(0/1) gender – xsd:restriction base: xsd:string [Enumeration] M, F, NA – S(0/1) nationality – europass:country – S(0/*)	Describes the various demographics descriptors of the owner of the Europass document.

III.4.1. Date of Birth (<birthdate>)

The XML element “birthdate” describes the date of birth of a person. The data type of this element is xsd:date.

III.4.2. Gender (<gender>)

The XML element “gender” describes the gender of a person. The data type of this element can be defined as an enumeration of the values “M” for male, “F” for female or “NA” when the person has not specified.

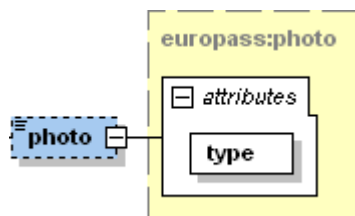
III.4.3. Nationality (<nationality>)

The XML element “nationality” describes the nationality(-ies) of a person.

For nationality a one-to-one relationship is assumed between a nationality and a country, thus the data type of the “nationality” XML element is “europass:country”.

III.5. Photo (<photo>)

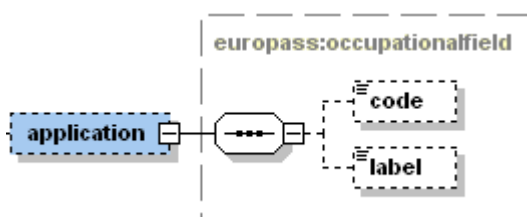
The XML element “photo” describes the photograph of a person. The data type of this element is xsd:base64Binary. The photograph is stored as a 64-encoded binary representation of the uploaded file. The type attribute is fixed to “JPEG”.



Data Types	ContentModel* Data type Occurrence: <u>Sequence</u> <u>Choice</u> <u>All</u> (minOccurs/maxOccurs) Attributes	Definition
/ photo	xsd:restriction base: xsd:base64Binary	A person's photograph attached to the Europass document.

IV. DESIRED EMPLOYMENT / OCCUPATION FIELD (<APPLICATION>)

The XML element “application” describes the desired employment or occupation field of a person.



The data type for this element is a complex type, consisting of the “code” and “label” elements. The ISCO 88 COM list of occupations was further edited by Europass, adding a fifth level, which is used in the code element.

The list is available as XML Schema under:

http://europass.cedefop.europa.eu/xml/Europass_ISCO_88_COM_V1.2.xsd.

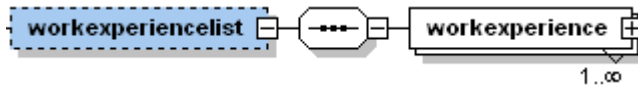
Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ occupationalfield	code - europass:isco88com-level5 – S(0/1) label - xsd:string – S(0/1)	Describes the occupational field of the owner of the Europass document.
/ isco88com-level5	xsd:restriction base: xsd:string [Enumeration]	ISCO 88 COM list is used to structure the code field. Europass has extended the list by producing a 5th level

Sample element:

```
<application>
  <code>24550</code>
  <label>Film director</label>
</application>
```

V. LIST OF WORK EXPERIENCES (<WORKEXPERIENCelist>)

The XML element “workexperiencelist” lists the various work experiences of a person. The data type applied to it is a complex element consisting of a sequence of multiple “workexperience” elements.

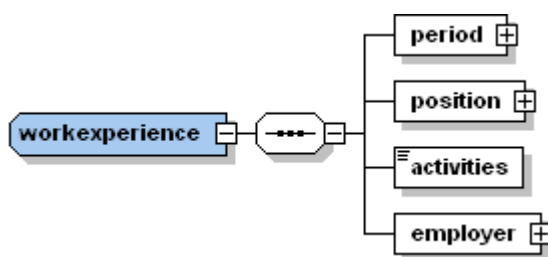


Sample element:

```
<workexperiencelist>
  <workexperience>
    <period>
      <from>
        <year>2004</year>
        <month>--03</month>
      </from>
      <to>
        <year>2006</year>
        <month>--06</month>
        <day>--18</day>
      </to>
    </period>
    <position>
      <code>24552</code>
      <label>Actor</label>
    </position>
    <activities>Participated in a TV series for 3 seasons. </activities>
    <employer>
      <name>BBT</name>
      <address>
        <addressLine>12, Rue de la gare</addressLine>
        <municipality>Paris</municipality>
        <postalCode>51100</postalCode>
        <country>
          <code>FR</code>
          <label>France</label>
        </country>
      </address>
      <sector>
        <code>R</code>
        <label>Arts, Entertainment And Recreation</label>
      </sector>
    </employer>
  </workexperience>
</workexperiencelist>
```

V.1. Work Experience (<workexperience>)

The XML element “workexperience” describes a work experience of a person. The data type of this element is a complex type, consisting of a sequence of elements that define the period of time the experience took place, the title of the position held, the main responsibilities and activities carried out and the details on the employer.



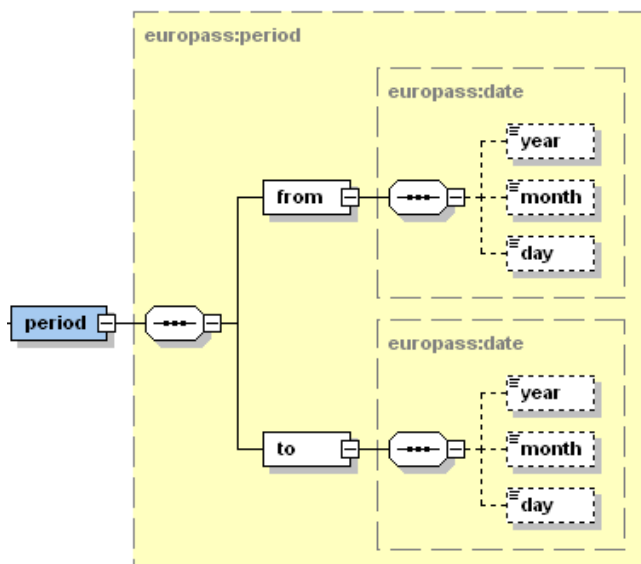
Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ workexperience	period – europa:period – S(1/1) position – europa:occupationalfield – S(1/1) activities – xsd:string – S(1/1) employer – europa:company – S(1/1)	Describes the details of a work experience of the owner of the Europass document.

V.1.1. Period (<period>)

Describes the period of time where the work experience took place.

The XML element “period” defines a specific period in time. The data type for this element is a complex type, consisting of a sequence of elements for the starting and ending date.

Moreover, the data type of the elements for the starting/ ending dates is also complex type, consisting of a sequence of elements for the exact year, month and day.

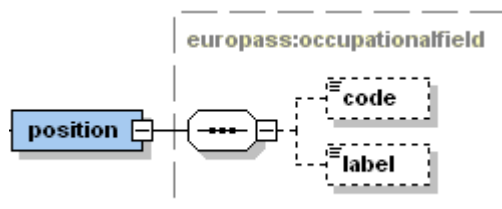


Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ period	from - europa:date – S(1/1) to - europa:date – S(1/1)	Describes a specific period in time with a starting and ending date.

/ date	year - xsd:gYear – S(0/1) month - xsd:gMonth – S(0/1) day - xsd:gDay – S(0/1)	Describes a specific date, with the specific year, month and day.
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V.1.2. Occupation or position held (<position>)

The XML element “position” describes the occupation or position held during a work experience of a person.



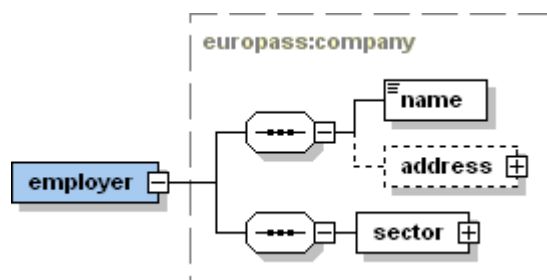
For details on the data type of this element please see IV.

V.1.3. Main Activities and Responsibilities (<activities>)

The XML element “activities” describes the main responsibilities and activities carried by a person during a work experience. The data type of this element is xsd:string.

V.1.4. Employer (<employer>)

The XML element “employer” describes the company/ organisation, which was the employer of the person during a work experience. The data type of this element is a complex type, consisting of a sequence of the name, address and business sector elements.



Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ company	name – xsd:string – S(1/1) address – europass:addressInfo – S(0/1) sector – europass:businesssector – S(1/1)	Describes the company/ organisation, which was the employer of the person during a work experience.

V.1.4.1. Name of employer (<name>)

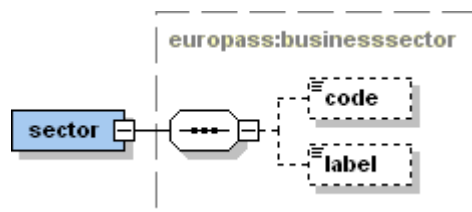
The XML element “name” describes the name of the employer. The data type of this element is xsd:string.

V.1.4.2. Address of employer (<address>)

The XML element “address” describes the contact address of the employer.

For details on the data type of this element please see III.3.1

V.1.4.3. Type of business or sector (<sector>)



The XML element “sector” describes the business sector of a company/organisation. The data type of this element is a complex type, consisting of the “code” and “label” elements. The first level of NACE list of business sectors is used for the code.

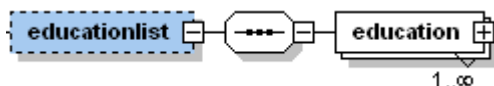
The list is available as XML Schema under:

http://europass.cedefop.europa.eu/xml/resources/NACE_COM.xsd

Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ businesssector	code - nace:sector-level1 – S(0/1) label - xsd:string – S(0/1)	Describes the business sector of a company/organisation.
/ nace:sector-level1	xsd:restriction base: xsd:string [Enumeration]	NACE COM list is used to structure the code field.

VI. LIST OF EDUCATION AND TRAINING EXPERIENCES (<EDUCATIONLIST>)

The XML element "educationlist" lists the various education and training experiences of a person. The data type applied to it is a complex element consisting of a sequence of multiple "education" elements.

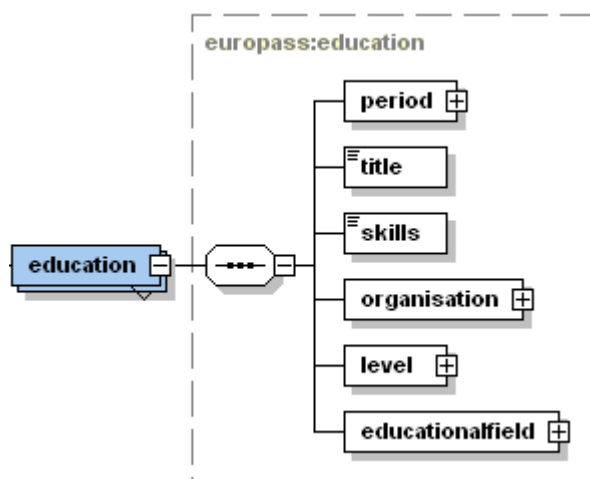


Sample element:

```
<educationlist>
  <education>
    <period>
      <from>
        <year>2001</year>
        <month>--09</month>
        <day>---30</day>
      </from>
      <to>
        <year>2005</year>
        <month>--10</month>
        <day>---30</day>
      </to>
    </period>
    <title>Acting and Film production</title>
    <skills>Acting, Film production, Phoenetics</skills>
    <organisation>
      <name>Faculty of Fine Arts</name>
      <address>
        <addressLine>45 Rue de Lyon</addressLine>
        <municipality>Bordeaux</municipality>
        <postalCode>54100</postalCode>
        <country>
          <code>FR</code>
          <label>France</label>
        </country>
      </address>
      <type>Aristotle University</type>
    </organisation>
    <level>
      <code>4</code>
      <label>ISCED 4</label>
    </level>
    <educationalfield>
      <code>21</code>
      <label>Arts</label>
    </educationalfield>
  </education>
</educationlist>
```

VI.1. Education and Training (<education>)

The XML element "education" describes an educational or training experience of a person. The data type of this element is a complex type, consisting of a sequence of elements that define the period of time the experience took place, the title of the qualification awarded, the principal subjects or occupational skills covered, the details of the educational organisation and the level and field to which this experience corresponds to.



Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ education	period – europass:period – S(1/1) title – xsd:string – S(1/1) skills – xsd:string – S(1/1) organisation – europass:educationOrg – S(1/1) level – europass:educationlevel – S(1/1) educationfield – europass:educationfield – S(1/1)	Describes the details of an educational or training experience of the owner of the Europass document.

VI.1.1. Period (<period>)

Describes the period of time where the educational or training experience took place. For details on the data type of this element please see V.1.1.

VI.1.2. Title of qualification awarded (<title>)

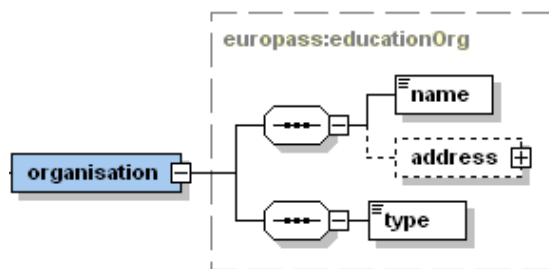
The XML element “title” describes the title of the qualification awarded during the educational or training experience. The data type of this element is xsd:string.

VI.1.3. Principal Subjects/ Occupational Skills Covered (<skills>)

The XML element “skills” describes the title of the principal subjects or occupational skills covered during the educational or training experience. The data type of this element is xsd:string.

VI.1.4. Educational organisation (<organisation>)

The XML element “organisation” describes the educational organisation awarding the title of qualification. The data type of this element is a complex type, consisting of a sequence of the name, address and type elements for the educational organisation.



Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ educationOrg	name – xsd:string – S(1/1) address – europass:addressInfo – S(0/1) type – xsd:strings – S(1/1)	Describes the details of a work experience of the owner of the Europass document.

VI.1.4.1. Name of organisation (<name>)

The XML element “name” describes the name of the educational organisation. The data type of this element is xsd:string.

VI.1.4.2. Address of organisation (<address>)

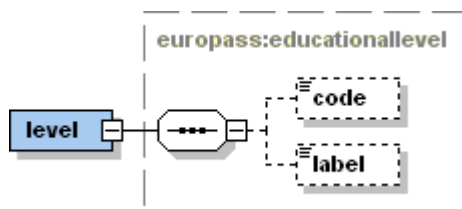
The XML element “address” describes the contact address of the educational organisation. For details on the data type of this element please see III.3.1

VI.1.4.3. Type of organisation (<type>)

The XML element “type” describes the type of the educational organisation. The data type of this element is xsd:string.

VI.1.5. Level in national or international classification (<level>)

The XML element “level” describes the level corresponding to the educational or training experience based on a national or international classification. The data type of this element is a complex type, consisting of the “code” and “label” elements.



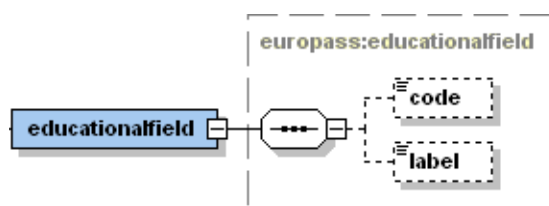
The proposed European classification is the ISCED levels. The educational levels by ISCED 1997 are used to structure the code. The list is available as XML Schema under:

<http://europass.cedefop.europa.eu/xml/resources/ISCED97.xsd>

Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ educationallevel	code - europa:iscd-level – S(0/1) label - xsd:string – S(0/1)	Describes the level of the educational or training experience.
/ iscd-level	xsd:restriction base: xsd:string [Enumeration]	The list of levels of education of ISCED 1997 is used to structure the code field.

VI.1.6. Educational field (<educationalfield>)

The XML element “educationalfield” describes the educational field to which the educational or training experience applies. The data type of this element is a complex type, consisting of the “code” and “label” elements.

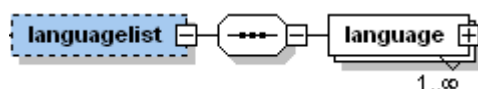


The ISCED 1997 list of educational fields and especially the second field classification (2 digit code) is used to structure the code.

Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ educationalfield	code - europa:iscd-field-level2 – S(0/1) label - xsd:string – S(0/1)	Describes the field of the educational or training experience.
/ iscd-field-level2	xsd:restriction base: xsd:string [Enumeration]	The second level of the codes for educational fields ISCED 1997 is used to structure the code field.

VII. LIST OF LANGUAGES (<LANGUAGELIST>)

The XML element “`language`” lists the various languages for which the person is competent. The data type applied to it is a complex element consisting of a sequence of multiple “`language`” elements.

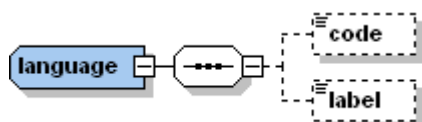


Sample element:

```
<languageList>
  <language xsi:type="europass:mother">
    <code>iit</code>
    <label>Italian</label>
  </language>
  <language xsi:type="europass:foreign">
    <code>en</code>
    <label>English</label>
    <level>
      <listening>c1</listening>
      <reading>c1</reading>
      <spokeninteraction>c1</spokeninteraction>
      <spokenproduction>c1</spokenproduction>
      <writing>c1</writing>
    </level>
  </language>
</languageList>
```

VII.1. Languages (<language>)

The XML element “`language`” describes the competences of a person related to languages.



The data type of this element is an abstract complex type, consisting of the “`code`” and “`label`” elements.

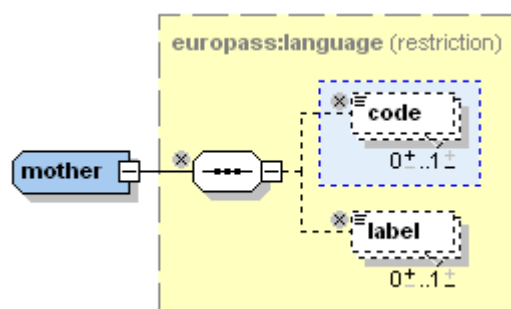
Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ language	code – <code>xsd:language</code> – S(0/1) label - <code>xsd:string</code> – S(0/1)	Describes a language.

Europass makes a distinction in languages, differentiating the mother tongues from foreign languages. For this purpose, the initial “`europass:language`” data type is restricted as far as the allowable values for the code of the language and two other data types emerge, the “`europass:mother`” and “`europass:foreign-abstract`”/ “`europass:foreign`”.

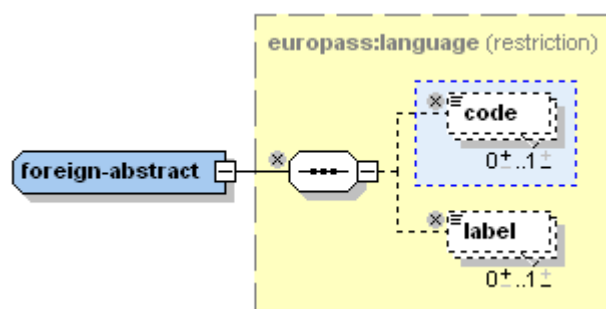
The code of the language for mother tongues and foreign language is taken from the ISO 639-1 list of languages, further filtered by Europass.

The list is available as XML Schema under:

http://europass.cedefop.europa.eu/xml/Europass_ISOLanguages_V1.0.xsd

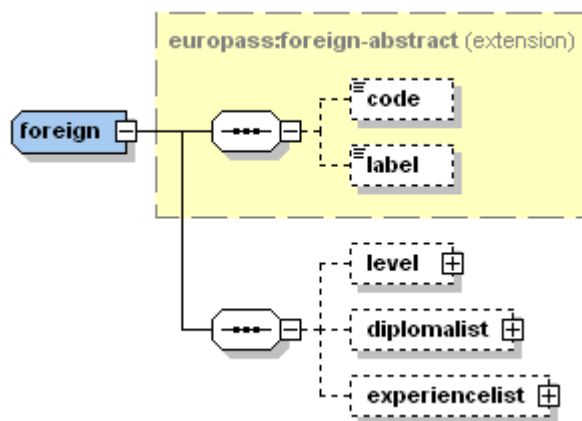


Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ mother	code - europass:motherCode – S(0/1) label - xsd:string – S(0/1) europass:language (restriction)	Describes the mother tongue spoken by the owner of the Europass document.
/ motherCode	xsd:restriction base: xsd:string [Enumeration]	The ISO 639-1 list of languages, further filtered by Europass, is used to structure the code field and especially a subset of the available codes, which corresponds to the languages still spoken by populations around the world.



Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ foreign-abstract	code - europass:foreignCode – S(0/1) label - xsd:string – S(0/1) europass:language (restriction)	Describes the foreign language spoken by the owner of the Europass document.
/ foreignCode	xsd:restriction base: xsd:string [Enumeration]	The ISO 639-1 list of languages, further filtered by Europass, is used to structure the code field.

The “europass:foreign” data type extends “europass:foreign-abstract” data type by adding the elements “level”, “diplomalist” and “experientelist” to the sequence of expected elements.

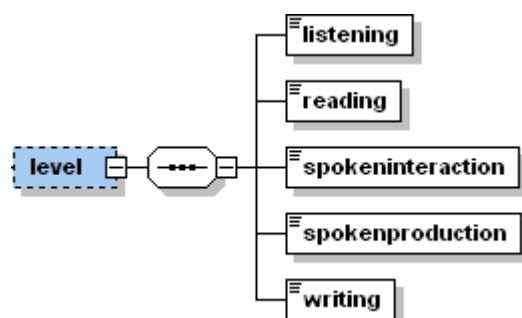


Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ foreign	code - europass:foreignCode – S(0/1) label - xsd:string – S(0/1) <i>foreign-abstract (extension)</i> level - [complexType] – S(0/1) diplomalist – [complexType] – S(0/1) experiencelist – [complexType] – S(0/1)	Describes the foreign language spoken by the owner of the Europass document. More information is given on the self assessment of the knowledge of this language (levels) and also on the related diplomas or linguistic experiences.
/ level	listening - xsd:string - S(1/1) reading - xsd:string - S(1/1) spokeninteraction - xsd:string - S(1/1) spokenproduction - xsd:string - S(1/1) writing - xsd:string - S(1/1)	Detailed self evaluation of a person concerning the knowledge of a foreign language. A specific scale is used defined based on the Common European Framework of Reference levels.
diplomalist	diploma - europass:diploma - S(1/*)	Lists the various diplomas awarded to a person related to foreign language competences
experiencelist	experience - europass:experience - S(1/*)	Lists the various linguistic experiences of a person

VII.1.1. Level (<level>)

The XML element “level” provides a detailed self evaluation of a person concerning the knowledge of a foreign language. A specific scale is used defined based on the [Common European Framework of Reference levels](#).

The data type applied to it is a complex type, consisting of a sequence of the elements “listening”, “reading”, “spokeninteraction”, “spokenproduction” and “writing”.



Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ level	listening - xsd:string - S(1/1) reading - xsd:string - S(1/1) spokeninteraction - xsd:string - S(1/1) spokenproduction - xsd:string - S(1/1) writing - xsd:string - S(1/1)	Detailed self evaluation of a person concerning the knowledge of a foreign language. A specific scale is used defined based on the Common European Framework of Reference levels.

VII.1.1.1. Listening (<listening>)

The XML element “listening” describes the level of listening comprehension of a foreign language. The data type of this element is xsd:string.

VII.1.1.2. Reading (<reading>)

The XML element “reading” describes the level of reading comprehension of a foreign language. The data type of this element is xsd:string.

VII.1.1.3. Spoken Interaction (<spokeninteraction>)

The XML element “spokeninteraction” describes the level of oral interaction in a foreign language. The data type of this element is xsd:string.

VII.1.1.4. Spoken Production (<spokenproduction>)

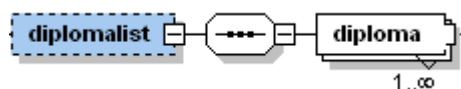
The XML element “spokenproduction” describes the level of oral production in a foreign language. The data type of this element is xsd:string.

VII.1.1.5. Writing (<writing>)

The XML element “writing” describes the level of writing in a foreign language. The data type of this element is xsd:string

VII.1.2. List of Diplomas (<diplomalist>)

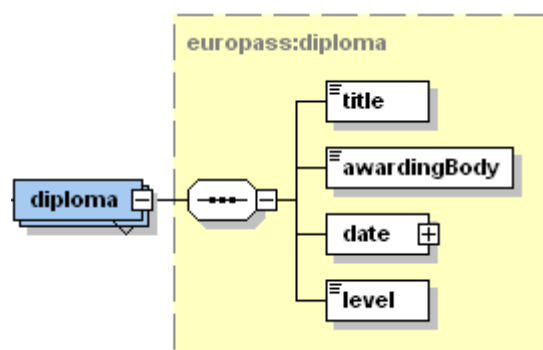
The XML element “diplomalist” lists the various diplomas awarded to a person related to foreign language competences. The data type applied to it is a complex element consisting of a sequence of multiple “diploma” elements.



VII.1.2.1. Diploma (<diploma>)

The XML element “diploma” provides information on the diploma awarded to a person to certify the knowledge of a foreign language. The data type applied to it is a complex data type, consisting of a sequence of elements to describe the title

of the diploma, the awarding body, the date of certification and the level of the diploma in a national or international scale.



Data Types	ContentModel* Data type Occurrence: <u>Sequence</u> <u>Choice</u> <u>All</u> (minOccurs/maxOccurs) Attributes	Definition
/ diploma	title - xsd:string - S(1/1) awardingBody - xsd:string - S(1/1) date - europass:date - S(1/1) level - xsd:string - S(1/1)	Describes the diploma awarded to a person to certify the knowledge of a foreign language.

VII.1.2.1.(i) Title of Diploma (<title>)

The XML element "title" describes the title of the awarded diploma that certifies the knowledge of the foreign language. The data type of this element is xsd:string.

VII.1.2.1.(ii) Awarding Body (<awardingBody>)

The XML element "awardingBody" describes the awarding body issuing the awarded diploma that certifies the knowledge of the foreign language. The data type of this element is xsd:string.

VII.1.2.1.(iii) Date (<date>)

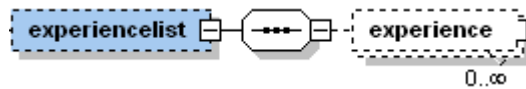
The XML element "date" describes the issuing date of the awarded diploma that certifies the knowledge of the foreign language. The data type of this element is europass:date. For details on this data type, please see III.4.1.

VII.1.2.1.(iv) European Level (<level>)

The XML element "level" describes the level in a national or international classification of the awarded diploma that certifies the knowledge of the foreign language. The data type of this element is xsd:string.

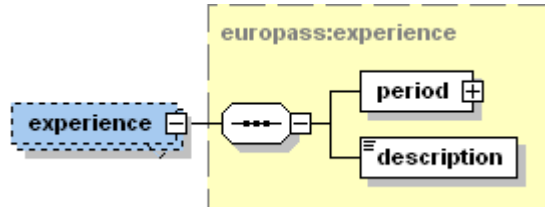
VII.1.3. Linguistic Experiences (<experiencelist>)

The XML element "experiencelist" lists the various linguistic experiences of a person. The data type applied to it is a complex element consisting of a sequence of multiple "experience" elements.



VII.1.3.1. Linguistic Experience (<experience>)

The XML element “experience” describes a linguistic experience of a person. The data type applied to it is a complex type, consisting of a sequence of elements that define the period/duration of the experience and the description of the experience.



Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ experience	period - europass:period - S(1/1) description - xsd:string - S(1/1)	Describes a linguistic experience of a person.

VII.1.3.1.(i) Period (<period>)

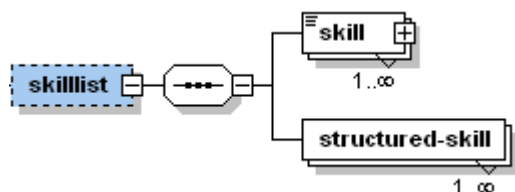
The XML element “period” describes the time period that the linguistic experience took place. The data type of this element is europass:period. For details on this data type, please see V.1.1.

VII.1.3.1.(ii) Description of the Linguistic Experience (<description>)

The XML element “description” offers a description of the linguistic experience. The data type of this element is xsd:string.

VIII. PERSONAL SKILLS AND COMPETENCES (<SKILLLIST>)

The XML element “skilllist” lists the various skills and competences of a person. The data type applied to it is a complex element consisting of a sequence of multiple “skill” and “structured-skill” elements.



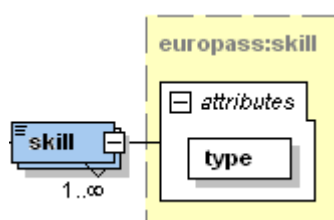
Sample element:

```

<skilllist>
  <skill type="social">Team spirit; Good ability to adapt to multicultural environments, gained
  through my work experience abroad; Good communication skills gained through my experience
  as sales manager. </skill>
  <skill type="organisational">Sense of organisation; Good experience in project or team
  management. </skill>
  <skill type="technical"></skill>
  <skill type="computer">Good command of Microsoft Office™ tools (Word™, Excel™ and
  PowerPoint™); Basic knowledge of graphic design applications (Adobe Illustrator™,
  PhotoShop™). </skill>
  <skill type="artistic">Singing; Dancing; Painting.</skill>
  <skill type="other"></skill>
  <structured-skill xsi:type="europass:driving">
    <drivinglicence>A1</drivinglicence>
    <drivinglicence>B</drivinglicence>
  </structured-skill>
</skilllist>
  
```

VIII.1. Skill (<skill>)

The XML element “skill” describes a specific skill of a person that is described using free text. The data type applied to it extends xsd:string by adding a “type” attribute of data type “europass:skillenum”. “europass:skillenum” data type defines an enumeration of values, which can be used to describe the type of the skill.



Elements and Attributes	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ skill	xsd:string type	Describes a specific skill of a person, described using free text.
/ type	type - skillenum	The type attribute of a skill shows the type of the skill.

Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ skillenum	xsd:restriction base: xsd:string [Enumeration] "social", "organisational", "technical", "computer", "artistic" and "other"	Describes the available types of skills.

VIII.2. Structured-skill (<structured-skill>)

The XML element "structured skill" includes elements that describe skill and competences in a structured way, rather than using free text. The data type applied to this element is intentionally abstract, so that it is possible to create other data types by extending it. These new data types will be applied to structured skills to accommodate the needs for their custom definition.

Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ structured-skill (abstract)	-	Defines an abstract data type for skills that are structured instead of free text.

VIII.2.1. Driving licence (<driving>)

An example of a structured skill that needs a data type, which extends the "structured-skill" is the driving licence.

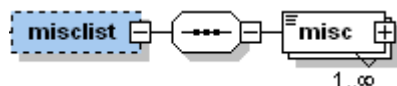
Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ driving	extends structured-skill (abstract) drivinglicense – driving:drivinglicense – S(0/*)	Defines the structured skill for driving competence.
/ drivinglicence	xsd:restriction base: xsd:string [Enumeration] "A", "A1", "B", "B1", "BE", "C", "C1", "CE", "C1E", "D", "D1", "DE" and "D1E"	The driving licence type uses the European driving licence categories to restricted the accepted values.

The "structured-skill" data type is extended so that a new complex type is defined ("driving"), consisting of a sequence of "drivinglicence" elements. The data type of the "drivinglicence" element is a simple type restricting xsd:string by an enumeration of specific values, which correspond to the European driving licence categories.

The European driving licence categories list is available as XML Schema under:
<http://europass.cedefop.europa.eu/xml/resources/EUDrivingLicence.xsd>.

IX. LIST OF ADDITIONAL INFORMATION AND ANNEXES (<misclist>)

The XML element “misclist” lists any additional information or annexes a person would like to include in a Europass document. The data type applied to it is a complex element consisting of a sequence of multiple “misc” elements.



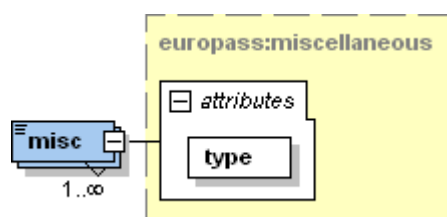
Sample element:

```
<misclist>
  <misc type="additional"></misc>
  <misc type="annexes">References available if requested.</misc>
</misclist>
```

IX.1. Additional Information and Annexes (<misc>)

The XML element “misc” describes any additional information or annexes a person includes in a Europass document using free text.

The data type applied to it extends xsd:string by adding a “type” attribute of data type “europass:miscenum”. “europass:miscenum” data type defines an enumeration of values, which can be used to describe the type of the additional information.



Elements and Attributes	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ misc	xsd:string type	Describes any additional information or annexes a person includes in a Europass document using free text.
/ type	type - miscenum	The type attribute of a misc element shows the type of the additional information.

Data Types	ContentModel* Data type Occurrence: Sequence Choice All (minOccurs/maxOccurs) Attributes	Definition
/ miscenum	xsd:restriction base: xsd:string [Enumeration] "additional" and "annexes"	Describes the available types of additional information.