Europass XML Schema V3.0.1

Documentation and Change-log from v2.0
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Europass XML Schema V3.0.1

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Europass Supporting Semantic Interoperability

Europass promotes semantic interoperability by defining a specific vocabulary according to which the information contained in Europass Documents is expressed. This vocabulary is defined according to an XML schema, which describes the constraints on the structure and on the contents of Europass Documents.

Individuals, who use the Europass Online Editors to produce their Europass Curriculum Vitae or Europass Language Passport, have the option to receive the document in Europass XML format or PDF format with the XML attached. The most important benefit of this option is that it allows individuals to reuse their personal data and save time and effort when accessing the Europass online editors at a later point, or other systems (job portals, employment/admission services, etc.) that “understand” the Europass vocabulary.

Europass XML Vocabulary

The Europass XML Vocabulary is considered to be relatively simple, 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.

This document provides a description of the latest version of the Europass XML Schema (V3.0.1) with the aim to support interested parties, who wish to manage, edit or store Europass documents within their information systems.

Structure of this Document

The document is structured as follows: First, an extensive reference to the changes and revisions from the previous version (v2.0) is attempted (part 1). Then, we begin the documentation of the latest version by listing the various imported and included XML Schemas, and explain that purpose each schema serves (Part 2). The main body of the document provides an in-depth description of each possible element of a Europass XML document. The order according to which the elements are described matches the hierarchy of the XML document, and starts with the root element of the XML. Each element of the Europass XML is described in detail, by emphasizing the allowed data type and providing an indicative example (Part 3). Finally, the XML data types that are either abstract, or generic or used to define multiple elements are described in detailed in a separate section, and referenced wherever necessary (Part 4).
1 Change-log

1.1 Change-log from version v3.0

Europass has launched an updated version for the Europass XML in October 2013. The newer version is 3.0.1 and introduces some minor changes to two included XSD files: i) EuropassLearnerInformation and ii) EuropassPrintingPreferences XSDs.

More specifically, the following changes took place:

- Personal Statement option added to Headline, see Change-log (2);
- The ability to control the display in the generated document of the Website of the Educational Organisation, see Change-log (3)

The new version is fully backwards compatible and the business continuity of the Europass online CV/ESP editor and RESTful API is preserved. The new XML Schema Definition files are available online.

Change-log

1. The names of all XSD files are changed to:
   a. EuropassSchema_V3.0.1.xsd
   b. EuropassLearnerInformation_V3.0.1.xsd
   c. EuropassPrintingPreferences_V3.0.1.xsd

2. Specific changes to EuropassLearnerInformation_V3.0.1.xsd:
   a. The type HeadlineTypeLabelType has been enriched with an additional enumeration value: personal_statement. More details are given in section 3.5.2.

3. Specific changes to EuropassPrintingPreferences_V3.0.1.xsd:
   a. The simple type EducationDetailFieldNames now has a modified pattern to also include the name LearnerInfo.Education.Organisation.ContactInfo.Website

1.2 Change-log from Previous Major Version (v2.0)

As a general remark Europass XML Schema has changed radically in v3.0.1. Several changes of more generic nature took place, like the naming convention and the publishing under the European Union Public Licence. At the same time the hierarchy of elements is modified and new elements are introduced.

In this section we will present the changes from version 2.0, beginning first with the more generic changes and then discussing the changes on the various elements and data types.
1.2.1 Generic Changes

1.2.1.1 European Union Public License

All XSD files managed by the Europass team include a short notice on the use of European Union Public License\(^1\) (EUPL).

EUPL is a free software license that has been created and approved by the European Commission. It is consistent with the copyright law in the 27 Member States of the European Union, while retaining compatibility with popular open-source software licenses such as the GNU General Public License.

1.2.1.2 Naming Convention

A specific naming convention has been followed commonly used for XML schemas and documents, e.g. HR-XML uses the same approach.

- Elements and Types named in Upper Camel Case, e.g. LearnerInfo.
- Attributes named in lower Camel Case, e.g. locale.
- Simple and Complex type names: Append the word "Type" to all simple and complex type names to aid in human readability and comprehension.
- Element, attribute and type names are in a singular form unless the concept itself is plural, e.g. Identification, Skills
- Elements that include multiple occurrences of the same element are suffixed by the word “List”, e.g. EducationList

Moreover, all included schemas has been renamed from “EUROPASS_ *” to “Europass*”. Also the main schema that describes the learner information has been renamed from “CVLPSchema” to “EuropassLearnerInformation”.

1.2.1.3 Cardinality of Element

The cardinality of the various elements has changed in order to minimize the mandatory elements. However a minimum cardinality of 1 is specified for elements that when left empty would make no sense.

The cardinality of elements is defined in each data type.

1.2.1.4 SkillsPassport in place of the Binder Element

The element binder has been deprecated and now is removed. This element included two sub-elements of the “learnerinfo” type, for the CV and LP accordingly. The binder element has been replaced with the element SkillsPassport. The purpose of both elements was/is to structure the information that may be found in all Europass Documents.

So, in v3.0.1 the root element of the Europass Schema is the “SkillsPassport” element. This element describes the portfolio of an individual which includes any kind of information coming from the Curriculum Vitae, Language Passport or other Europass documents, as well other non-Europass documents.

The structure of this element is described in 3.1. The SkillsPassport now includes within the LearnerInfo sub-element the entire set of personal information, learning achievements and training periods, work experiences, skills and competences of the learner. That information may be included in various Europass Documents (e.g. both the Curriculum Vitae and the Language Passport). Guidelines on what information to display, and how to format it, inside a “printable” Europass Document are included in the PrintingPreferences sub-element. Moreover, SkillsPassport introduces the sub-element AttachmentList which included the data of digital documents attached to this XML document, which are relevant to the learner’s information and provide evidence of or support her claims. Finally, each SkillsPassport XML Document is accompanied by a set of metadata organized under the DocumentInfo sub-element.

1.2.1.5 List of Attachments
The new version (v3.0.1) introduces the element AttachmentList. This includes one or more sub-elements, named Attachment, that correspond to digital documents attached to this XML document. The revamped CV Editor has been extended to offer the functionality of uploading files (either pdf or jpeg/png images) and attaching them to the Europass Document, as well as linking them with specific sections of the document.

So, an individual may upload a scanned copy of her diploma and link it to the section that described her education experience. When receiving the Europass Document in PDF file format with XML attachment, the PDF will add the pages of the uploaded file to the Europass Document, and the XML will include the base-6 encoded bytes of the uploaded file, along with other metadata of the file.

Indicative example:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<SkillsPassport xmlns="http://europass.cedefop.europa.eu/Europass"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    locale="en">
    <DocumentInfo/>
    <PrintingPreferences>
        <Document type="ECV"/>
    </PrintingPreferences>
    <LearnerInfo/>
    <AttachmentList>
        <Attachment id="ATT_1">
            <Name>licence.pdf</Name>
            <MimeType>application/pdf</MimeType>
            <Data><![CDATA[base-64-encoded bytes go here]]></Data>
        </Attachment>
    </AttachmentList>
</SkillsPassport>
```
1.2.1.6 Document Metadata

The previous XML schema (v2.0) included metadata information (docinfo element) about the document both at the binder element (root) as well as at each learnerinfo element.

However, this version (v3.0.1) moves the metadata one level up (DocumentInfo element) and specifies that the metadata information will refer to the entire XML Document.

The DocumentInfo:v3.0.1 augments the set of metadata included in the docinfo:v2.0. The definition of the respective data types is given below for easier comparison.

More details on the DocumentInfo are given in 3.3.

Data Type v3.0.1

```xml
<xsd:complexType name="DocumentInfoType">
  <xsd:sequence>
    <xsd:element name="DocumentType" type="DocumentTypeType" minOccurs="1" maxOccurs="1"/>
    <xsd:element name="CreationDate" type="xsd:dateTime" minOccurs="1" maxOccurs="1"/>
    <xsd:element name="LastUpdateDate" type="xsd:dateTime" minOccurs="1" maxOccurs="1"/>
    <xsd:element name="XSDVersion" type="VersionNumberType" minOccurs="1" maxOccurs="1"/>
    <xsd:element name="Generator" type="xsd:string" minOccurs="1" maxOccurs="1"/>
    <xsd:element name="Comment" type="xsd:string" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

Data Type v2.0

```xml
<xsd:complexType name="docinfo">
  <xsd:sequence>
    <xsd:element name="issuedate" type="xsd:dateTime"/>
    <xsd:element name="xsdversion" type="europass:versionNumbers"/>
  </xsd:sequence>
</xsd:complexType>
```
1.2.1.7 Printing Preferences of “printable” Europass Documents

The previous XML schema (v2.0) included the printing preferences (prefs element) under each learnerinfo element.

However, this version (v3.0.1) moves the printing preferences one level up (PrintingPreferences element) and specifies that the printing preferences are part of the entire Skills Passport. This decouples the actual learner information data (stored in the LearnerInfo element) from the guidelines on how to include them in a printable Europass Document. At the same type the structure of the PrintingPreferences document allows to include guidelines on how to print various Europass Document, such as the Curriculum Vitae or the Language Passport, always taking the actual data from the LearnerInfo element.

A relative correspondence exists between the PrintingPreferences/Document/Field element of v3.0.1 and the learnerinfo/prefs/field element, with the following differences:

- Field@name:v3.0.1 attribute indicates precisely the section of the LearnerInfo for which this Printing Preference is relevant, based on a key that resembles a json path. The field@name:v2.0 attribute included texts that were not easy to track back to the actual Europass document section.
- Field@format:v3.0.1 may receive texts that correspond to the defined patterns for formatting dates and addresses (DateFieldFormatPattern and AddressFieldFormatPattern). On the contrary field@format:v2.0 defines no pattern.
- Field@order attribute is introduced in v.3.0-rc7 and is used to denote the order that various sections must appear in a printable document. The same result was achieved via the field@before attribute of v2.0.

More details on the PrintingPreference element are given in 3.4 and the schema “EuropassPrintingPreferences_V3.0.1.xsd”.

1.2.2 Changes to the Information Set of the Learner

The most notable difference is that in version 3.0-rc7 the LearnerInfo element aims to include all information that belongs to the learner and relates to her personal identification and contact data, her work, education and training experiences, her skills, competences and other achievements. This information set is not bound to a specific Europass Document, rather may be included in any Europass Document. This way, the XML becomes a portable repository where individuals may add any information and then decide which information should be displayed in which Europass Document.

There is a relative correspondence between the learnerinfo element of version 2.0 and the LearnerInfo element of version 3.0-rc7, from the point of view that the same set of information is included, but expressed with different element hierarchy and nomenclature.
The corresponding data type definitions are given below, however more details may be found in 3.5.1 and in the XSD “EuropassLearnerInformation_V3.0.1.xsd”.

**Data Type v3.0.1**

```xml
<xsd:complexType name="LearnerInfoType">
  <xsd:sequence>
    <xsd:element name="Identification" type="IdentificationType" minOccurs="1" maxOccurs="1"/>
    <xsd:element name="Headline" minOccurs="0" maxOccurs="1"/>
    <xsd:element name="WorkExperienceList" minOccurs="0" maxOccurs="1"/>
    <xsd:element name="EducationList" minOccurs="0" maxOccurs="1"/>
    <xsd:element name="Skills" minOccurs="0" maxOccurs="1"/>
    <xsd:element name="AchievementList" minOccurs="0" maxOccurs="1"/>
    <xsd:element name="Documentation" type="DocumentationType" minOccurs="0" maxOccurs="1"/>
  </xsd:sequence>
</xsd:complexType>
```

**Data Type v2.0**

```xml
<xsd:complexType name="learnerinformation">
  <xsd:sequence>
    <xsd:element name="docinfo" type="europass:docinfo"/>
    <xsd:element name="prefs" type="europass:preferences" minOccurs="0"/>
    <xsd:element name="identification" type="europass:identification"/>
    <xsd:element name="workexperiencelist" minOccurs="0"/>
    <xsd:element name="educationlist" minOccurs="0"/>
    <xsd:element name="languagelist" minOccurs="0"/>
    <xsd:element name="skillist" minOccurs="0"/>
    <xsd:element name="misclist" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="locale" type="europass:locale" use="required"/>
</xsd:complexType>
```

1.2.2.1 Identification Information

Roughly the changes introduced with the Identification element data type and the data types of its sub-elements, as opposed to the identification element data type of version 2.0 are listed below:
• In v3.0.1 the first name and surname of the individual are grouped under a `PersonName` element.
• In v3.0.1 the `ContactInfo` element groups all methods of contacting an individual (address, telephone, email, website, instant messaging). All methods are expressed with elements that follow a common structure. Moreover, an individual may include multiple telephone numbers, website URLs and instant messaging accounts.
• In v3.0.1 the `Demographics` element although it contains the same kind of information, it structures it differently. A notable difference is that multiple nationalities can now be included.
• In v3.0.1 the `Photo` element again includes the bytes of an included photo, but within a different structure.

More details about the new structure of the personal information section can be found in section 3.5.1 and in its sub-sections.

**1.2.2.2 Headline Information**

The `Headline` element replaces the application element of version 2.0. The `application` element was reserved to describe the current or desired employment of the individual. However in v3.0.1 this section has become more flexible so to allow the individual choose the headline that is most relevant for her and for the purpose of preparing a Europass Document.

More details on the structure of the Headline element may be found in 3.5.2.

**1.2.2.3 List of Work Experiences**

Content-wise there are no notable differences between the elements that include the list of work experiences in both versions. However the structure and nomenclature of the elements has changed.

The most notable differences are described below:

• *Period of the experience*: the duration of an experience is described by the `Period` element which is composed of two elements that define the date-of-start and date-of-completion. A new addition is the element `Current`, which allows an experience to be defined as on-going.
• *Documentation*: each experience can now receive a list of references to attached digital documents that are relevant to this specific experience.
• *Employer*: the new `WorkExperience` element allows defining a specific website for the Employer.

More details on the structure of the work experiences section can be found in section 3.5.3 and in its sub-sections.
1.2.2.4 List of Education Experiences

Content-wise there are no notable differences between the elements that include the list of education or training experiences in both versions. However the structure and nomenclature of the elements has changed.

The most notable differences are described below:

• **Period of the experience**: the duration of an experience is described by the Period element which is composed of two elements that define the date-of-start and date-of-completion. A new addition is the element Current, which allows an experience to be defined as on-going.

• **Documentation**: each experience can now receive a list of references to attached digital documents that are relevant to this specific experience.

More details on the structure of the education experiences section can be found in section 3.5.4 and in its sub-sections.

1.2.2.5 List of languages (mother tongue or foreign languages)

The list of languages, those being either the mother tongues or the foreign languages spoken by the individual are included in the Skills and Competences section (SkillsPassport/LearnerInfo/Skills/Linguistic). So the languageslist element of v2.0 is now obsolete.

1.2.2.6 Skills and Competences

The skills and competences of an individual are included within the Skills element of v3.0.1. This element includes all kinds of skills an individual may demonstrate.

The most notable differences are:

• Information about the mother tongue and the knowledge of foreign languages in included within the Linguistic element.

• Multiple mother tongue can be now included.

• The list of diplomas that verify the knowledge of a foreign language is now included under a ForeignLanguage/VerifiedBy instead of the foreign/diploma

• The list of experiences that indicates how the knowledge of a foreign language is acquired is now included under a ForeignLanguage/AcquiredDuring instead of the foreign/experience

• Skills the description of which is not structured, like organisational, job-related, etc., rather the individual adds some free text to describe them follow the GenericSkill data type.

• Skills which require a more structured description, like the Linguistic skills and the Driving Skill are defined within suitable elements and by suitable data types.

More details on the structure of the education experiences section can be found in section 3.5.5 and in its sub-sections.
1.2.2.7 Miscellaneous List

Version 2.0 of the XML schema included an element, named `misclist`, which was reserved for defining additional sections, such as additional information and annexes. This element is obsolete in v3.0.1 and is thus not included.

On the contrary sections that offer additional information and now included in a separate section, named `AchievementList`.

Moreover, annexes re-purposed and moved to a different section, named `AttachmentList`.

1.2.2.8 List of Achievements

The list of achievements defines a section where individuals can tailor to their needs in order to demonstrate the information that they need. For example this section may include as free text, a list of publications, a list of reference persons, participation to conferences, memberships to associations, awards and distinctions etc.

More details on the structure of the achievements section can be found in section 3.5.6.
2 Namespaces (Main, included and imported)

2.1 Europass Namespace


Europass also maintains under the same namespace other formal vocabularies:

*Included Schemata under the Europass namespace*

1. **Europass Learner Information:**
   - Expresses information about a learner’s personal data, experiences and skills.
   - Advertised at http://europass.cedefop.europa.eu/xml/EuropassLearnerInformation_V3.0.1

2. **Europass Printing Preferences:**
   - Expresses information on how to display the learner’s information in the generated document; more specifically defines the order of the sections, the way to format dates and addresses and finally defines what information to hide in the finally generated document. This is mainly used by the Europass online editors in order to allow the flexibility of retaining all information in the XML, while displaying the desired subset of it in the generated document.

3. **ISO 3166-1 list of countries adjusted by Europass**
   - Defines the ISO list of countries and provides translations to the Europass languages. Notable differences are the country codes of United Kingdom (UK instead of GB) and Greece (EL instead of GR).
   - Advertised at http://europass.cedefop.europa.eu/xml/EUROPASS_ISOCountries_V1.3.xsd

4. **List of nationalities**
   - Defines the list of nationalities, as a one-to-one correspondence with the list of countries. It also provides translations to the Europass languages.
   - Advertised at http://europass.cedefop.europa.eu/xml/EuropassNationalities_V1.3.xsd

5. **ISO 639-1 list of languages adjusted by Europass**
   - Defines the ISO list of languages and provides translations to the Europass languages. Also it organizes the language codes to those that may exist as mother tongues (excludes languages that are considered “dead” as Ancient Greek), and those that may exists as foreign language knowledge.
   - Advertised at http://europass.cedefop.europa.eu/xml/EUROPASS_ISOLanguages_V1.3.xsd

6. **ISCO 88 COM list of occupations adjusted by Europass**
• The International Standard Classification of Occupations and the International Labour Organisation proposed the ISCO 88, and ISCO 88 COM is the European Union variant of ISCO 88. The list is further filtered by Europass by adding a fifth level.
• The vocabulary provides translations in most of the Europass languages of the 5th level group codes, differentiated by gender wherever applicable
• Advertised at http://europass.cedefop.europa.eu/xml/EUROPASS_ISCO_88_COM_V1.3.xsd

2.2 Imported Namespaces

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.

1. NACE List of Business Sectors
   • Nomenclature statistique des activités économiques dans la Communauté européenne: List of NACE codes for business sectors, as listed in the "Competition" related pages of the European Commision’s website (http://ec.europa.eu/comm/competition/mergers/cases/index/n International Standard
   • Namespace: nace: http://europass.cedefop.europa.eu/NACE
   • Advertised at: http://europass.cedefop.europa.eu/xml/resources/NACE_COM.xsd

2. List of Educational Fields
   • Namespace: isced: http://europass.cedefop.europa.eu/ISCED/97
   • Advertised at: http://europass.cedefop.europa.eu/xml/resources/ISCED97.xsd

3. List of European Driving Licence Codes
   • European driving licence - vehicle categories (http://ec.europa.eu/youreurope/nav/en/citizens/living/car/driving-license/index_en.html#326_3)
   • Namespace: driving: http://europass.cedefop.europa.eu/EUDriving
   • Advertised at: http://europass.cedefop.europa.eu/xml/resources/EUDrivinglicence.xsd

4. European Qualifications Framework (EQF)
   • The European Qualifications Framework (EQF) acts as a translation device to make national qualifications more readable across Europe, promoting workers’ and learners’ mobility between countries and facilitating their lifelong learning. The core of the EQF concerns eight reference levels describing what a learner knows, understands and is able to do – ‘learning outcomes’. Levels range from basic (Level 1) to advanced (Level 8). The EQF applies to all types of education, training and qualifications, from school
education to academic, professional and vocational.
(http://ec.europa.eu/education/lifelong-learning-policy/eqf_en.htm)

- Namespace: eqf: http://europass.cedefop.europa.eu/EQF/08
- Advertised at:
  http://europass.cedefop.europa.eu/xml/resources/EQF_08_V1.0.xsd
3 Europass XML Document elements; their structure and data types

3.1 Skills Passport

SkillsPassport is the root element of any Europass XML document. This element actually defines an individual’s portfolio that includes information coming from the Curriculum Vitae, Language Passport or other Europass documents, as well other non-Europass documents.

It is the actual template describing and organizing the entire set of personal information, learning achievements and training periods, work experiences, skills and competences of the learner (LearnerInfo). Moreover, it defines the way that the learner’s information appears in a “printable” Europass document—considering the printing preferences about the order and the format—(PrintingPreferences). This element also includes all the digital documents attached to this XML document to server as supporting material to this portfolio (AttachmentList). Finally, the SkillsPassport also contains some metadata about the XML document itself organized under a suitable sub-element (DocumentInfo)

<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Sequence(S):</strong> The child elements in the XML document MUST appear in the order they are declared in the XSD schema.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Choice(C):</strong> Only one of the child elements described in the XSD schema can appear in the XML document.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>All(A):</strong> The child elements described in the XSD schema can appear in the XML document in any order.</td>
<td></td>
</tr>
<tr>
<td>Skill Passport</td>
<td>Attributes(@)</td>
<td></td>
</tr>
<tr>
<td>---------------</td>
<td>--------------</td>
<td></td>
</tr>
<tr>
<td>Locale: LocaleType</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DocumentInfo: europass:DocumentInfoType - S(1/1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PrintingPreferences: europass:PrintingPreferencesType - S(0/1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LearnerInfo: europass:LearnerInfoType - S(1/1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AttachmentList: [complexType] - S(0/1)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Skill Passport is the root element of any Europass XML document. This element actually defines aperson's portfolio that includes information coming from the Curriculum Vitae, Language Passport or other Europass documents, as well other non-Europass documents.

**Instance:**

```xml
<SkillsPassport locale="">
  <DocumentInfo>{1,1}</DocumentInfo>
  <PrintingPreferences>{0,1}</PrintingPreferences>
  <LearnerInfo>{1,1}</LearnerInfo>
  <AttachmentList>{0,1}</AttachmentList>
</SkillsPassport>
```

**Indicative example:**

```xml
<SkillsPassport xmlns="http://europass.cedefop.europa.eu/Europass"
               xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  <DocumentInfo/>
  <PrintingPreferences/>
  <LearnerInfo/>
  <AttachmentList/>
</SkillsPassport>
```

### 3.2 SkillsPassport @locale

The attribute “locale” refers to the language of translation of the included information.

The content type of the locale attribute is **LocaleType**. This type defines a restriction on any string by defining a specific pattern. This pattern is comprised of two lowercase and two uppercase letters, separated by underscore. E.g. de_DE or sv_SE.

**LocaleType** is a simpleType with acceptable value of xsd:string that follows the followed pattern restriction: `[a-z][2](_[A-Z][2])`
<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>SkillsPassport @locale</td>
<td>europass:LocaleType - S(1/1) [restriction]:xsd:string [pattern]:[a-z][2][_][A-Z][2])*</td>
<td>The translation language of the included information.</td>
</tr>
</tbody>
</table>
### 3.3 SkillsPassport/DocumentInfo

The element `DocumentInfo` contains metadata information about the specific document. It adheres to the data type `DocumentInfoType`. This data type defines a sequence of five mandatory sub-elements (DocumentType, CreationDate, LastUpdateDate, XSDVersion, Generator) and one optional (Comment).

The `DocumentInfoType` contains metadata information about the specific document, like the date the XML was issued/produced, the xsd version with which the xml file is compatible, and other optional comments.

The Europass Document described by this XML document.

The data type defines an enumeration of specific string values.

<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>SkillsPassport/DocumentInfo</td>
<td>Child Element</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Content Type</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sequence(S)</td>
<td>Choice(C)</td>
</tr>
<tr>
<td></td>
<td>(minOccurs/maxOccurs)</td>
<td>Attributes[@]</td>
</tr>
<tr>
<td>DocumentType:</td>
<td>europa:DocumentType</td>
<td>S(1/1)</td>
</tr>
<tr>
<td>CreationDate:</td>
<td>xsd:dateTime</td>
<td>S(1/1)</td>
</tr>
<tr>
<td>LastUpdateDate:</td>
<td>xsd:dateTime</td>
<td>S(1/1)</td>
</tr>
<tr>
<td>XSDVersion:</td>
<td>europa:VersionNumberType</td>
<td>S(1/1)</td>
</tr>
<tr>
<td>Generator:</td>
<td>xsd:string</td>
<td>S(1/1)</td>
</tr>
<tr>
<td>Comment:</td>
<td>xsd:string</td>
<td>S(0/1)</td>
</tr>
</tbody>
</table>

Contains metadata information about the specific document, like the date the XML was issued/produced, the xsd version with which the xml file is compatible, and other optional comments.

SkillsPassport/DocumentInfo/DocumentType

Restriction on xsd:string - S(1/1)
[enumeration] : CV_ESP
[enumeration] : ESP
[enumeration] : ECV

The Europass Document described by this XML document.

The data type defines an enumeration of specific string values.
SkillsPassport/DocumentInfo/
XSDVersion

<table>
<thead>
<tr>
<th>Enumeration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELP</td>
<td>The version of the XML Schema with which this document is compatible. The value should follow the specified pattern.</td>
</tr>
<tr>
<td>EX</td>
<td></td>
</tr>
</tbody>
</table>

**Instance:**

```
<DocumentInfo>
  <DocumentType>{1,1}</DocumentType>
  <CreationDate>{1,1}</CreationDate>
  <LastUpdateDate>{1,1}</LastUpdateDate>
  <XSDVersion>{1,1}</XSDVersion>
  <Generator>{1,1}</Generator>
  <Comment>{0,1}</Comment>
</DocumentInfo>
```

**Indicative example:**

```
<DocumentInfo>
  <DocumentType>ECV</DocumentType>
  <CreationDate>2012-03-01T00:00:00.000+03:00</CreationDate>
  <LastUpdateDate>2012-03-01T00:00:00.0002</LastUpdateDate>
  <XSDVersion>V3.0</XSDVersion>
  <Generator>XML Editor</Generator>
  <Comment>Example CV XML according to XSD v3.0</Comment>
</DocumentInfo>
```
3.4 SkillsPassport/ PrintingPreferences

The **PrintingPreferences** element includes the preferences of the individual related to how to display the information included in the Europass XML when printed into readable format (e.g. PDF, ODT, DOC). This element gives the flexibility of deciding which information to show/hide in a printed document and how to format the dates, addresses, etc. Its presence is useful in the cases where the specific XML is fed to the Europass online editors or web services in order to receive a “printable” Europass document.

This element adheres to the **PrintingPreferencesType** data type, which is defined in details in the included XML schema “EuropassPrintingPreferences”. This data type defines a sequence of **Document** sub-elements, each following the data type DocumentPreferencesType.

The **DocumentPreferencesType** data type defines a required attribute, named **type**, which shows for which Europass document these printing preferences are applicable. The set of printing preferences are thus defined on a per-document basis. However we could envision an expanded XML which will include multiple **Document** elements, each defining its own printing preferences and thus describing a different “printable” document.

The **DocumentPreferencesType** also defines that it accepts a sequence of multiple **Field** elements.

A **Field** element is described by at least one attribute, the name. It may also have extra attributes, such as show, order and format.

The **name** attribute is actually a path to the section in the Europass Document to which this specific printing preference refers to.

The **show** attribute defines whether the specific section of the Europass Document is to be shown in the “printable” document or not. This section may be a specific field (e.g. date of birth), a specific section (Specific work experience item) or an entire list (e.g. List of Foreign languages).

The **order** attribute is described as a simple list, which defines the order with which the sections that correspond to the simple list items are to be displayed in the “printable” document.

The **format** attribute defines a pattern according to which the dates or addresses are to be formatted.
### Elements and Attributes

<table>
<thead>
<tr>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child Element</td>
<td></td>
</tr>
<tr>
<td>Content Type</td>
<td></td>
</tr>
<tr>
<td>Sequence(S)</td>
<td>Choice(C)</td>
</tr>
<tr>
<td>(minOccurs/maxOccurs)</td>
<td></td>
</tr>
<tr>
<td>Attributes(@)</td>
<td></td>
</tr>
</tbody>
</table>

**SkillsPassport/PrintingPreferences**

- **Document**: - S(1/unbounded)

The printing preferences for the XML elements which are shown in the printed versions of the Europass Documents.

**SkillsPassport/PrintingPreferences/Document**

- **type**: Restriction on xsd:string
- **europass:DocumentTypeEnumeration [enumeration]:ECV**
- **field**: - S(0/unbounded)

The set of printing preferences are defined on a per-document basis. The type attribute may have one of the allowed enumeration values.

**SkillsPassport/PrintingPreferences/Document/Field**

- **name**: europass:FieldName - required, show: xsd:boolean - optional, order: europass:OrderNames - optional, format: europass:SimpleFieldFormats - optional

name: path to the section in the Europass Document to which this specific printing preference refers to.
show: defines whether the specific section of the Europass Document is to be shown in the “printable” document or not.
order: is described as a simple list, which defines the order with which the sections that correspond to the simple list items are to be displayed in the “printable” document.
format: defines a pattern according to which the dates or addresses are to be formatted.
Instance:

```xml
<PrintingPreferences>
  <Document type="">
    {1,unbounded}>
      {0,unbounded}</Field>
  </Document>
</PrintingPreferences>
```

Indicative sample:

```xml
<PrintingPreferences>
  <Document type="ECV">
    <Field>
      name="LearnerInfo"
      show="true"
      order="IdentificationHeadlineWorkExperience EducationSkillsAchievementReferenceTo"/>
    <Field name="LearnerInfo.Identification" show="true"/>
    <Field>
      name="LearnerInfo.Identification.PersonName"
      show="true"
      order="FirstNameSurname"/>
    <Field>
      name="LearnerInfo.Identification.ContactInfo.Address"
      show="true"
      format="s \n p-z m (c)"/>
  </Document>
</PrintingPreferences>
```
3.5 SkillsPassport/ LearnerInfo

LearnerInfo is a core element of Europass schema, as it includes all information about personal data, learning achievements, work experiences, skills, competences, diplomas and other miscellaneous information.

The LearnerInfo element adheres to the data type LearnerInfoType, which is presented in details below. This data type defines a specific sequence of child elements.

<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>/SkillsPassport/ LearnerInfo</td>
<td></td>
<td>A core element of Europass schema, as it includes all information about personal data, learning achievements, work experiences, skills, competences, diplomas and other miscellaneous information.</td>
</tr>
<tr>
<td>Identification: europass:IdentificationType - S(1/1)</td>
<td>Identification: europass:IdentificationType - S(1/1)</td>
<td></td>
</tr>
<tr>
<td>Headline: [complexType] - S(0/1)</td>
<td>Headline: [complexType] - S(0/1)</td>
<td></td>
</tr>
<tr>
<td>WorkExperienceList: [complexType] - S(0/1)</td>
<td>WorkExperienceList: [complexType] - S(0/1)</td>
<td></td>
</tr>
<tr>
<td>EducationList: [complexType] - S(0/1)</td>
<td>EducationList: [complexType] - S(0/1)</td>
<td></td>
</tr>
<tr>
<td>Skills: [complexType] - S(0/1)</td>
<td>Skills: [complexType] - S(0/1)</td>
<td></td>
</tr>
<tr>
<td>AchievementList: [complexType] - S(0/1)</td>
<td>AchievementList: [complexType] - S(0/1)</td>
<td></td>
</tr>
<tr>
<td>Documentation: europass:DocumentationType - S(0/1)</td>
<td>Documentation: europass:DocumentationType - S(0/1)</td>
<td></td>
</tr>
<tr>
<td>/SkillsPassport/ LearnerInfo/ Identification</td>
<td>PersonName: europass:PersonNameType - S(1/1)</td>
<td>Contains the personal information of the individual, which includes at least the name, and optionally contact information, demographics and photo.</td>
</tr>
<tr>
<td></td>
<td>ContactInfo: europass:ContactInfoType - S(0/1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Demographics: europass:DemographicsType - S(0/1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Photo: europass:PhotoDataType - S(0/1)</td>
<td></td>
</tr>
<tr>
<td>Path</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
</tbody>
</table>
| /SkillsPassport/LearnerInfo/Headline     | **Type:** europass:HeadlineTypeLabelType - S(1/1)  
**Description:** europass:OccupationalFieldType - S(1/1)  
Contains a headline label for the current document. It is optional and may accommodate various cases.                                                                                                                   |
| /SkillsPassport/LearnerInfo/WorkExperienceList | **WorkExperience:** europass:WorkExperienceType - S(1/*)  
Contains an list of work experiences. The order of those experiences is defined by the related printing preferences.                                                                                                                                                                                                                                   |
| /SkillsPassport/LearnerInfo/EducationList | **Education:** europass:EducationalExperienceType - S(1/*)  
Contains an list of learning achievements or a training periods (formal or not). The order of those experiences is defined by the related printing preferences.                                                                                                                                                                               |
| /SkillsPassport/LearnerInfo/Skills       | **Linguistic:** europass:LinguisticSkillType - S(0/1)  
**Communication:** europass:GenericSkillType - S(0/1)  
**Organisational:** europass:GenericSkillType - S(0/1)  
**JobRelated:** europass:GenericSkillType - S(0/1)  
**Computer:** europass:GenericSkillType - S(0/1)  
**Driving:** europass:DrivingSkillType - S(0/1)  
**Other:** europass:GenericSkillType - S(0/1)  
Contains a sequence of skills and competences that the learner has acquired during any formal or informal experience.                                                                                                                                                                                         |
| /SkillsPassport/LearnerInfo/AchievementList | **Achievement:** europass:AchievementList - S(1/*)  
Contains a list of additional information about the various achievements of an individual, such as participation to conferences, workshops, memberships to organisations, list of publications, etc.                                                                                                                             |
| /SkillsPassport/LearnerInfo/Documentation | **ReferenceTo:** europass:InternalReferenceType - S(0/*)  
Contains a list of references to material attached to this XML instance and which enriched or supports the learner’s information.                                                                                                                                                                                                 |

**Instance**

```xml
<Instance>
  <Identification>{1,1}</Identification>
  <Headline>{0,1}</Headline>
  <WorkExperienceList>{0,1}</WorkExperienceList>
  <EducationList>{0,1}</EducationList>
  <Skills>{0,1}</Skills>
  <AchievementList>{0,1}</AchievementList>
  <Documentation>{0,1}</Documentation>
</Instance>
```

### 3.5.1 SkillsPassport/LearnerInfo/Identification

The **Identification** element comprises a subset of elements that organize all the personal information of the individual. Its data type is **IdentificationType**. This type defines that the
elements need to at least include the person’s name, and optionally contact information, demographics and photo.

**Instance:**

```xml
<Identification>
  <PersonName>{1,1}</PersonName>
  <ContactInfo>{0,1}</ContactInfo>
  <Demographics>{0,1}</Demographics>
  <Photo>{0,1}</Photo>
</Identification>
```

<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>/SkillsPassport/</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LearnerInfo</td>
<td></td>
<td></td>
</tr>
<tr>
<td>/Identification</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PersonName: europass:PersonNameType - S(1/1)</td>
<td>Contains the personal information of the individual, which includes at least the name, and optionally contact information, demographics and photo.</td>
</tr>
<tr>
<td></td>
<td>ContactInfo: europass:ContactInfoType - S(0/1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Demographics:europass:DemographicsType-S(0/1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Photo: europass:PhotoDataType - S(0/1)</td>
<td></td>
</tr>
</tbody>
</table>

### 3.5.1.1 Identification/PersonName

The **PersonName** element contains the full name of an individual that identifies the owner of this document. The element consists of two sub-elements of data type any string.
<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Child Element</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Content Type</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sequence(S)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Choice(C)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>All(A)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(minOccurs/maxOccurs)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Attributes(©)</td>
<td></td>
</tr>
</tbody>
</table>

/SkillsPassport/LearnerInfo/Identification/PersonName

<table>
<thead>
<tr>
<th>FirstName: xsd:string</th>
<th>S(1/1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surname: xsd:string</td>
<td>S(1/1)</td>
</tr>
</tbody>
</table>

Contains the person name and the surname of an individual.

**Instance:**

```xml
<PersonName>
  <FirstName>(1,1)</FirstName>
  <Surname>(1,1)</Surname>
</PersonName>
```

**Indicative Example:**

```xml
<PersonName>
  <FirstName>Chuck</FirstName>
  <Surname>NORRIS</Surname>
</PersonName>
```

### 3.5.1.2 Identification/ContactInfo

The **ContactInfo** element groups the available means with which an individual may be contacted. Its type is **ContactInfoType** and defines an optional sequence of sub-elements, each representing a difference type of contact info.
<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>/SkillsPassport/LearnerInfo/Identification/ContactInfo</td>
<td>Address: ContactAddressType -S(0/1) Email: ContactEmailType - S(0/1) TelephoneList: [complexType]- S(0/1) WebsiteList: [complexType]- S(0/1) InstanceMessagingList:[complexType]- S(0/1) ContactMethodList:[complexType]- S(0/1)</td>
<td>Contains all the available methods of contacting individual.</td>
</tr>
</tbody>
</table>

### Instance:

```xml
<ContactInfo>
  <Address>{0,1}</Address>
  <Email>{0,1}</Email>
  <TelephoneList>{0,1}</TelephoneList>
  <WebsiteList>{0,1}</WebsiteList>
  <InstantMessagingList>{0,1}</InstantMessagingList>
  <ContactMethodList>{0,1}</ContactMethodList>
</ContactInfo>
```

#### 3.5.1.2.1 Identification/ContactInfo/Address

The `Address` element represents the residence address of an individual. Its data type is the `ContactAddressType`(described in 4.5)

#### 3.5.1.2.2 Identification/ContactInfo/Email

The `Email` element defines the email address of an individual. Its data type is `ContactEmailType`, which restricts the `ContactMethodType`(described in 3.5.1.2.6.1) by defining that the Contact sub-element needs to be a string that follows the specified pattern `[^@]+@[^\[\].]+`
**Attributes(‡)**

/SkillsPassport/LearnerInfo/ Identification/ContactInfo/ Email

- **Contact**: `xsd:string` - S(1/1)
  - [pattern]: `[^@]+@[^@]+` +

- **Use**: `xsd:string` - S(0/0)

Defines the email address of an individual.

**Indicative Example:**

```xml
<Email>
  <Contact>chuck@chucknorrisfacts.com</Contact>
</Email>
```

3.5.1.2.3 Identification/ContactInfo/ TelephoneList

The `TelephoneList` element defines a list of `Telephone` elements. Each `Telephone` element corresponds to the valid telephone number of owned by an individual.

A `Telephone` element adheres to the `TelephoneType`, which restricts the `ContactMethodType` (described in 3.5.1.2.6.1) by specifying that the `Use` element needs to follow the data type `TelephoneUseLabelType`. The `TelephoneUseLabelType` data-type restricts the `europass:LabelType` (described in 4.1) by defining a specific list of accepted values for the `Use/Code` element (home, work, mobile).

**Elements and Attributes Compositions**

<table>
<thead>
<tr>
<th>Child Element</th>
<th>Content Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequence(S)</td>
<td>Choice(C)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>(minOccurs/maxOccurs)</td>
</tr>
</tbody>
</table>
### Attributes(@)

<table>
<thead>
<tr>
<th>/SkillsPassport/LearnerInfo/Identification/ContactInfo/TelephoneList</th>
<th>Telephone: europass:TelephoneType - S(1/unbounded)</th>
<th>Lists the telephone numbers owned by the individual.</th>
</tr>
</thead>
<tbody>
<tr>
<td>/SkillsPassport/LearnerInfo/Identification/ContactInfo/TelephoneList/Telephone</td>
<td>Contact: xsd:string -S(1/1) Use: europass:TelephoneUseLabelType - S(1/1)</td>
<td>A telephone number owned by the individual.</td>
</tr>
</tbody>
</table>

#### Indicative Example:

```xml
<TelephoneList>
  <Telephone>
    <Contact>+44 123456789</Contact>
    <Use>
      <Code>mobile</Code>
      <Label>+44 995 666 55</Label>
    </Use>
  </Telephone>
</TelephoneList>
```

### 3.5.1.2.4 Identification/ContactInfo/WebsiteList

The **WebsiteList** element defines a list of **Website** elements. Each Website element corresponds to a URI of a website that either belongs to-, refers to- or presents the work of- and individual.

A Website element adheres to the **WebsiteType**, which restricts the **ContactMethodType** (described in 3.5.1.2.6.1) by specifying that the **Label** element needs to be any valid URI, and the **Use** element needs to follow the data type **WebsiteUseLabelType**. The WebsiteUseLabelType data-type restricts the **europass:LabelType** (described in 4.1) by defining a specific list of accepted values for the **Use/Code** element (personal, business, blog, portfolio).
### Elements and Attributes

| /SkillsPassport/LearnerInfo/Identification/ContactInfo/WebsiteList | Website: europass:WebsiteType - S(1/unbounded) | Defines the websites that are owned, built by or refer to the individual. |
| /SkillsPassport/LearnerInfo/Identification/ContactInfo/WebsiteList /Website | Contact: xsd:anyUri - S(1/1) Use: europass:WebsiteUseLabelType - S(1/1) | Defines a websites that is owned, built by or refer to the individual. |

### Compositions

<table>
<thead>
<tr>
<th>Child Element</th>
<th>Content Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequence(S)</td>
<td>Choice(C)</td>
</tr>
<tr>
<td>All(A)</td>
<td></td>
</tr>
</tbody>
</table>

| Attributes(@) |

### Definition

Indicative Example:

```xml
<WebsiteList>
  <Website>
    <Contact>http://chucknorrisfacts.com</Contact>
    <Use>
      <Code>blog</Code>
      <Label>Blog</Label>
    </Use>
  </Website>
</WebsiteList>
```
### 3.5.1.2.5 Identification/ContactInfo/ InstantMessagingList

The **InstantMessagingList** element defines a list of **InstantMessaging** elements. Each InstantMessaging element corresponds to a valid instant messaging account owned by an individual.

A **InstantMessaging** element adheres to the **InstantMessagingType**, which restricts the **ContactMethodType** (described in 3.5.1.2.6.1) by specifying that the **Use** element needs to follow the data type **InstantMessagingUseLabelType**. The **InstantMessagingUseLabelType** data-type restricts the **europass:LabelType** (described in 4.1) by defining a specific list of accepted values for the **Use/Code** element (gtalk, skype, icq, aim, msn, yahoo).

#### Indicative Example:

```xml
<InstantMessagingList>
  <InstantMessaging>
    <Contact>chuck.norris</Contact>
    <Use>
      <Contact>chuck.norris</Contact>
      <Use>europass:InstantMessagingUseLabelType - S(1/1)</Use>
    </Use>
  </InstantMessaging>
</InstantMessagingList>
```
3.5.1.2.6 Identification/ContactInfo/ContactMethodList

This element lists any other ContactMethod elements not already defined. ContactMethodType defines the use of the contact method. This might be different depending on the contact method chosen. This is an extension point to accommodate the definition of other contact method, so long as they follow the constraints of the specific contact type.

3.5.1.2.6.1 Identification/ContactInfo/ContactMethodList/ContactMethod

A ContactMethod element adheres to the ContactMethodType data type, which defines a sequence of two sub-elements: Contact and Use, with Use being optional. The Contact element includes the actual contact information (e.g. the telephone number), while the Use element informs on when/how to use this contact method (e.g. business hours or not).

The Contact element is of xsd:anyType, so that each ContactMethod can further specify it, while the Use element is of europass:LabelType, defined in 4.1.

<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Child Element</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Content Type</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sequence(S)</td>
<td>Choice(C)</td>
</tr>
</tbody>
</table>
### 3.5.1.3 Identification/Demographics

The Demographics element contains demographics-related information about the individual. It adheres to the data type **DemographicsType**, which defines a sequence of optional sub-elements for the date of birth, the gender and a list of applicable nationalities.

#### Instance:

```xml
<Demographics>
  <Birthdate>day=""month=""year="">{0,1}</Birthdate>
  <Gender>{0,1}</Gender>
  <NationalityList>{0,1}</NationalityList>
</Demographics>
```

#### 3.5.1.3.1 Identification/Demographics/Birthdate

Birthdate adheres to the data type **DateType**. This type defines that an element needs to have at least one attribute for the year, and may optionally have another two attributes for the month and year.
### Elements and Attributes

<table>
<thead>
<tr>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child Element</td>
<td></td>
</tr>
<tr>
<td>Content Type</td>
<td></td>
</tr>
<tr>
<td>Sequence(S)</td>
<td>Choice(C)</td>
</tr>
<tr>
<td>(minOccurs/maxOccurs)</td>
<td></td>
</tr>
<tr>
<td>Attributes(@)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>/SkillsPassport/LearnerInfo/Identification/Birthdate/@day @month @year</td>
<td></td>
</tr>
<tr>
<td>DateType/</td>
<td>xsd:gDay - optional</td>
</tr>
<tr>
<td>xsd:gMonth - optional</td>
<td></td>
</tr>
<tr>
<td>xsd:gYear - required</td>
<td></td>
</tr>
</tbody>
</table>

Defines the date of birth of the individual.

### Indicative Example:

```xml
<Birthdate year="1940" month="--03" day="---10"/>
```

### 3.5.1.3.2 Identification/Demographics/Gender

The Gender element defines the gender of the individual. It adheres to the data type GenderLabelType. This data type restricts the europass:LabelType (described in 4.1) by specifying that the Code sub-element may only be one of M or F, which correspond to male and female. The Label sub-element is the label of the Gender, translated to the language of the document.

![GenderLabelType Diagram](image)

Indicative Example:

```xml
<Gender>
  <Code>M</Code>
  <Label>Male</Label>
</Gender>
```

### 3.5.1.3.3 1.2.1.3.3 Identification/Demographics/NationalityList

The NationalityList element lists Nationality elements. Each Nationality element adheres to the data type of NationalityType. This type restricts the LabelType by specifying that the Code
sub-element needs to one of the values defined by the `europass:nationalityCountryCode` in the included schema of “EuropassNationalities”. The Label sub-element is the translation of the specific nationality in the language of the document. E.g. code: DE, label: German.

```
<Nationality>
  <Code>{0,1}</Code>
  <Label>{0,1}</Label>
</Nationality>
```

Indicative Example:
```
<NationalityList>
  <Nationality>
    <Code>US</Code>
    <Label>American</Label>
  </Nationality>
  <Nationality>
    <Label>Citizen of the world</Label>
  </Nationality>
</NationalityList>
```
3.5.1.4 Identification /Photo

The Photo element includes the base-64 encoded bytes of a JPEG or PNG image file that represents the personal photo of an individual. The element adheres to the PhotoDataType, which restricts the FileDataType (described in 4.11) by excluding the Name sub-element and specifying the MimeType sub-element must follow the ImageMimeTypeEnumeration that defines the following values: image/jpeg, image/pjpeg, image/png and image/x-png.

<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>/SkillsPassport/LearnerInfo/Identification/Photo</td>
<td>MimeType:</td>
<td>Contains the base-64 encoded bytes of a JPEG or PNG image file that represents the personal photo of an individual</td>
</tr>
<tr>
<td></td>
<td>europass:MimeTypeEnumeration -S(1/1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Data: xsd:base64Binary - S(1/1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MetadataList: europass:MetadataListType - S(0/1)</td>
<td></td>
</tr>
<tr>
<td>/SkillsPassport/LearnerInfo/Identification/Photo/MimeType</td>
<td>Restriction base</td>
<td>Defines the MimeType of the Photo element.</td>
</tr>
<tr>
<td></td>
<td>oneuropass:MimeTypeEnumeration [Enumeration]:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>value=&quot;image/jpeg&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>value=&quot;image/pjpeg&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>value=&quot;image/png&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>value=&quot;image/x-png&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>value=&quot;application/pdf&quot;</td>
<td></td>
</tr>
</tbody>
</table>
**Instance:**

```xml
<Photo>
  <MimeType>{1,1}</MimeType>
  <Data>{1,1}</Data>
  <MetadataList>{0,1}</MetadataList>
</Photo>
```

**Indicative Example:**

```xml
<Photo>
  <MimeType>image/jpeg</MimeType>
  <Data><!-- Photo based-64 encoded bytes go here --></Data>
  <MetadataList>
    <Metadata key="photo-dimensions" value="100x110"/>
  </MetadataList>
</Photo>
```
3.5.2 SkillsPassport/LearnerInfo/Headline

The **Headline** element includes the motivation of the individual for authoring this specific document. It defines a suitable text that may be used to either reveal the purpose of the document (e.g. applying for specific job position or training) or to describe the job position held or pursued.

The element adheres to a complex type that defines a sequence of two sub-elements:

- **The Type** sub-element follows the data type of `HeadlineTypeLabelType`. This type in turn restricts the **LabelType** by defining that the **Code** sub-element may only be one of the following values: preferred_job, job_applied_for, studies_applied_for and position. The **Label** sub-element is actually the translation of the type in the language of the document.
- **The Description** sub-element follows the data type of `OccupationalFieldType` (described in 4.2).

**Instance:**

```xml
<Headline>
  <Type>{1,1}</Type>
  <Description>{1,1}</Description>
</Headline>
```

<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>SkillsPassport /LearnerInfo/Headline</td>
<td>Type:europass:HeadlineTypeLabelType - S(1/1) Description:europass:OccupationalFieldType - S(1/1)</td>
<td>Contains a headline label for the current document. It is optional and may accommodate various cases.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HeadlineTypeLabelType</strong></td>
<td>Code:europass:HeadlineTypeLabelType - S(1/1)</td>
<td>Defines the accepted types of headline. The <strong>Code</strong> may only be one of the defined enumeration values. The <strong>Label</strong> is actually the</td>
</tr>
</tbody>
</table>
[enumeration] : "position"
[enumeration] : "personal_statement"

Label: xsd:string - S(0/1)

translated text of the type to the language of the document.
3.5.3 SkillsPassport/LearnerInfo/WorkExperienceList and WorkExperience

This section of the XML document lists the work positions that an individual held. For each work experience one can find further information on the period, the position title, the employer and the activities that concern it.

The section is described by a WorkExperienceList element, which accepts a list of WorkExperience elements. Each WorkExperience element adheres to the data type WorkExperienceType.

The WorkExperienceType data type extends the ExperienceType (described in 4.5) data type by further defining three sub-elements. That said, a WorkExperience element must have a Period element, denoting the period during which the work experience took place, and a Position element, denoting the position title held. Optionally it may also include the elements Description and Documentation (inherited from the ExperienceType) and also the elements Activities and Employer (added by the WorkExperienceType).

<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>SkillsPassport / LearnerInfo / WorkExperienceList</td>
<td>WorkExperience: europass:WorkExperienceType - S(1/unbounded)</td>
<td>Lists the work experiences of an individual.</td>
</tr>
<tr>
<td>SkillsPassport / LearnerInfo / WorkExperienceList</td>
<td>Extension base europass:ExperienceType</td>
<td>Extends the generic</td>
</tr>
</tbody>
</table>
### Instance:

```
<WorkExperienceList>
  <WorkExperience>{1,unbounded}</WorkExperience>
</WorkExperienceList>
```

and

```
<WorkExperience>
  <Period>{1,1}</Period>
  <Description>{0,1}</Description>
  <Documentation>{0,1}</Documentation>
  <Position>{1,1}</Position>
  <Activities>{0,1}</Activities>
  <Employer>{0,1}</Employer>
</WorkExperience>
```

### Indicative Example:

```
<WorkExperienceList>
  <WorkExperience>
    <Period>
      <From year="2001"/>
      <Current>true</Current>
    </Period>
    <Documentation>
      <ReferenceTo idref="ATT_1"/>
    </Documentation>
    <Position><Label>Martial Arts Instructor</Label></Position>
    <Activities>Main activities and responsibilities include preparing class plans.</Activities>
    <Employer>
      <Name>School of Ninjitsu</Name>
      <ContactInfo>
        <Address>
          <Contact>
            <Country>
              <Code>JP</Code>
              <Label>Japan</Label>
            </Country>
          </Contact>
        </Address>
      </ContactInfo>
      <Website>
        <Contact>http://mybusiness.com</Contact>
      </Website>
    </Employer>
  </WorkExperience>
</WorkExperienceList>
```
3.5.3.1 WorkExperience/Period

The Period element defines the period during which the specific work experience took place. It follows the PeriodType (described in 4.8).

Instance:

```
<Period>
  <From day="" month="" year="">{1,1}</From>
  <Today="" month="" year="">{0,1}</To>
  <Current>{0,1}</Current>
</Period>
```

Indicative Example:

```
<Period>
  <From year="2001" year="10"/>
  <Current>true</Current>
</Period>
```

3.5.3.2 WorkExperience/Documentation

The Documentation element provides a list of references to digital documents that are attached to the specific Europass Document and included in the XML Document, and which are related to this specific work experience.

An individual can attach one or more relevant documents that verify or describe the specific work experience included in the Europass Document.

The Documentation element follows the DocumentationType data type (described in4.10).

3.5.3.3 WorkExperience/Position

The Position element described the position held by the individual during her work experience. It follows the OccupationalField data type (described in 4.2).
Instance:

```xml
<Position>
  <Code>{0,1}</Code>
  <Label>{0,1}</Label>
</Position>
```

Indicative Example:

```xml
<Position>
  <Label>Martial Arts Instructor</Label>
</Position>
```

3.5.3.4 WorkExperience/Employer

The **Employer** element describes the organisation with which the individual cooperated during her work experience.

The **Employer** element adheres to the **EmployerType** data type, which extends the **OrganisationType** data type (described in 4.6), by specifying the additional optional element **Sector**, for describing the business sector to which the employer belongs to.

The **Sector** element follows the data type **europass:BusinessSectorType** which is defined in the imported namespace “nace:http://europass.cedefop.europa.eu/NACE”
### Elements and Attributes

<table>
<thead>
<tr>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child Element</td>
<td>Describes the organisation with which the individual cooperated during her work experience.</td>
</tr>
<tr>
<td>Content Type</td>
<td></td>
</tr>
<tr>
<td>Sequence(S)</td>
<td></td>
</tr>
<tr>
<td>Choice(C)</td>
<td></td>
</tr>
<tr>
<td>All(A)</td>
<td></td>
</tr>
<tr>
<td>(minOccurs/maxOccurs)</td>
<td></td>
</tr>
<tr>
<td>Attributes(@)</td>
<td></td>
</tr>
</tbody>
</table>

| SkillsPassport/ LearnerInfo/ WorkExperienceList/ WorkExperience/ Employer | Extension europass:OrganisationType Name: xsd:string - S(1/1) ContactInfo:europass:OrganisationalContactInfoType - S(0/1) Sector:europass:BusinessSectorType - S(0/1) | |

### Indicative Example:

```xml
<Employer>
  <Name>School of Ninjutsu</Name>
  <ContactInfo>
    <Address>
      <Contact>
        <Country>
          <Code>JP</Code>
          <Label>Japan</Label>
        </Country>
        </Contact>
      </Address>
      <Website>
        <Contact>http://mybusiness.com</Contact>
        <Use><Code>business</Code></Use>
      </Website>
    </ContactInfo>
    <Sector>
      <Code>Q</Code>
      <Label>Human health and social work</Label>
    </Sector>
  </ContactInfo>
</Employer>
```

### 3.5.4 SkillsPassport/LearnerInfo/EducationList and Education

This section of the XML document lists the education or training experiences that an individual attended. For each education experience one can find further information on the period, the awarded title, the organisation providing the education or training, the activities that were carried out during this experience, as well as information on the educational field and educational level to which this experience is classified.

The section is described by an `EducationList` element, which accepts a list of `Education` elements. Each Education element adheres to the data type `EducationExperienceType`.

The `EducationExperienceType` data type extends the `ExperienceType` (described in 4.5) data type by further defining three sub-elements. That said,
An **EducationExperienceType** element must have a **Period** element, denoting the period during which the education experience took place, and a **Title** element, denoting the title awarded. Optionally it may also include the elements **Description** and **Documentation** (inherited from the **ExperienceType**) and also the elements **Activities**, **Organisation**, **Level** and **Field** (added by the **EducationExperienceType**).

<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SkillsPassport</strong> / <strong>LearnerInfo</strong> / <strong>EducationList</strong></td>
<td><strong>Education</strong>: europass:EducationExperienceType - S(1/unbounded)</td>
<td>Lists all education or training experiences of an individual.</td>
</tr>
<tr>
<td><strong>SkillsPassport</strong> / <strong>LearnerInfo</strong> / <strong>EducationList</strong> / <strong>Education</strong></td>
<td><strong>Extension base europass:ExperienceType</strong></td>
<td>Extends the generic <strong>ExperienceType</strong> to include further information about an education experience, like the Title, Activities, Organisation, Level and Field.</td>
</tr>
<tr>
<td></td>
<td><strong>Period</strong>: europass:PeriodType - S(1/1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Description</strong>: xsd:string - S(0/1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Documentation</strong>: europass:DocumentationType - S(0/1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Title</strong>: OccupationalFieldtype - S(1/1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Activities</strong>: xsd:string - S(0/1)</td>
<td></td>
</tr>
<tr>
<td>Organisation: europass:OrganisationType - S(0/1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level: europass:EducationalLevelType - S(0/1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Field: europass:EducationalFieldType - S(0/1)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Instance:

```xml
<EducationList>
  <Education>(1,unbounded)</Education>
</EducationList>
```

and

```xml
<Education>
  <Period>{1,1}</Period>
  <Description>{0,1}</Description>
  <Documentation>{0,1}</Documentation>
  <Title>{1,1}</Title>
  <Activities>{0,1}</Activities>
  <Organisation>{0,1}</Organisation>
  <Level>{0,1}</Level>
  <Field>{0,1}</Field>
</Education>
```

Indicative example:

```xml
<EducationList>
  <Education>
    <Period>
      <From year="1995" month="10" day="05"/>
      <To year="2000" month="09" day="30"/>
    </Period>
    <Documentation>
      <ReferenceTo idref="ATT_1"/>
      <ReferenceTo idref="ATT_2"/>
    </Documentation>
    <Title>Martial Arts</Title>
    <Activities>Principal Subjects covered</Activities>
    <Organisation>
      <Name>The University of Chicago</Name>
      <ContactInfo>
        <Address>
          <Contact>
            <Country>
              <Code>US</Code>
              <Label>United States</Label>
            </Country>
          </Contact>
        </Address>
      </ContactInfo>
    </Organisation>
    <Level>
```

```xml
```

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3.5.4.1 Education/Period

The Period element defines the period during which the specific education or training experience took place. It follows the PeriodType (described in 4.8).

Instance:

```xml
<Period>
  <From day="" month="" year="">{1,1}</From>
  <To day="" month="" year="">{0,1}</To>
  <Current>{0,1}</Current>
</Period>
```

Indicative Example:

```xml
<Period>
  <From year="2001" year="10"/>
  <To year="2004" year="12"/>
</Period>
```

3.5.4.2 Education/Documentation

The Documentation element provides a list of references to digital documents that are attached to the specific Europass Document and included in the XML Document, and which are related to this specific education or training experience.

An individual can attach one or more relevant documents that verify or describe the specific education experience included in the Europass Document.

The Documentation element follows the DocumentationType data type (described in 4.10).

3.5.4.3 Education/Organisation

The Organisation element provides information about the organisation that provided the specific education or training experience. The element adheres to the data type OrganisationType (described in 4.6).
3.5.4.4 Education/Level

The Level elements provides information on how could this specific education or training experience be classified according to a specific classification scheme.

The Level element adheres to the EducationalLevelType data type. This type restricts the LabelType by specifying that the Code element must be of type eqf:level, as this is defined in the imported namespace “eqf:http://europass.cedefop.europa.eu/EQF/08”

<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>SkillsPassport</td>
<td>Code: eqf:level - S(0/1)</td>
<td>Describes the level to which this education is classified. The Code element when present must take one of the enumeration values defined by the eqf:level type from the imported namespace of eqf:<a href="http://europass.cedefop.europa.eu/EQF/08">http://europass.cedefop.europa.eu/EQF/08</a></td>
</tr>
<tr>
<td>/LearnerInfo/</td>
<td>Label: xsd:string - S(0/1)</td>
<td></td>
</tr>
<tr>
<td>EducationList/</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Education/</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Indicative example:

```xml
<Level>
  <Code>6</Code>
  <Label>EQF 6</Label>
</Level>
```
### 3.5.4.5 Education/Field

The **Field** element provides information on how could the field this specific education or training experience relates to according to a specific taxonomy.

The Field element adheres to the **EducationalField** data type. This type restricts the **Label** by specifying that the Code element must be of type `isced:field-level2`, as this is defined in the imported namespace “isced:http://europass.cedefop.europa.eu/ISCED/97”

<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>SkillsPassport/ LearnerInfo/ EducationList/ Education/ Field</td>
<td>Code: <code>isced:field-level2</code> - S(0/1) Label: <code>xsd:string</code> - S(0/1)</td>
<td>Describes the field this specific education or training experience relates to according to a specific taxonomy. The Code element when present must take one of the enumeration values defined by the <code>isced:field-level2</code> type from the imported namespace of <code>isced:http://europass.cedefop.europa.eu/ISCED/97</code></td>
</tr>
</tbody>
</table>

**Indicative example:**

```
<Field>
  <Code>21</Code>
  <Label>Arts</Label>
</Field>
```
3.5.5 SkillsPassport/LearnerInfo/Skills

The Skills element contains a sequence of skills and competences that the individual has acquired during any formal or informal experience and has decided to include them in the Europass document. The skills are organised into seven categories:

1. Linguistic skills: including details about the mother tongues and the foreign languages that the individual speaks;
2. Communication skills
3. Organisational skills
4. Job-related skills: job related or other technical skills, valuable for the job.
5. Computer skills: skills that reveal knowledge of working with information systems.
6. Driving skills: driving skills that are verified by the driving licences owned.
7. Other: any other skill that is relevant and provided added value to the individual.

<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>SkillsPassport / LearnerInfo/ Skills</td>
<td></td>
<td>Defines the skills and competences that the individual has acquired during any formal or informal experience.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Child Element</th>
<th>Content Type</th>
<th>Sequence(S)</th>
<th>Choice(C)</th>
<th>All(A)</th>
<th>(minOccurs/maxOccurs) Attributes(@)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linguistic</td>
<td></td>
<td>europass:LinguisticSkillType- S(0/1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td>europass:GenericSkillType- S(0/1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisational</td>
<td></td>
<td>europass:GenericSkillType- S(0/1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JobRelated</td>
<td></td>
<td>europass:GenericSkillType- S(0/1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer</td>
<td></td>
<td>europass:GenericSkillType- S(0/1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Driving</td>
<td></td>
<td>europass:DrivingSkillType- S(0/1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td>europass:GenericSkillType- S(0/1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Instance:
3.5.5.1 Skills/Linguistic

The Linguistic element refers to the ability of the individual to communicate in various languages. It adheres to the LinguisticSkillType, which defines a sequence of two sub-elements: MotherTongueList and ForeignLanguageList, described in detail below.

**Instance:**

```xml
<Skills>
  <Linguistic>{0,1}</Linguistic>
  <Communication>{0,1}</Communication>
  <Organisational>{0,1}</Organisational>
  <JobRelated>{0,1}</JobRelated>
  <Computer>{0,1}</Computer>
  <Driving>{0,1}</Driving>
  <Other>{0,1}</Other>
</Skills>
```

3.5.5.2 Skills/Linguistic/MotherTongueList and MotherTongue

The MotherTongueList element, lists the languages in which the individual communicates as a native speaker. The data type of the element defines a sequence of MotherTongue elements each adhering to the data type MotherTongueSkillType.
The **MotherTongueSkillType** restricts the **SkillType** (described in 4.12) by defining that it includes only two sub-elements: Description and Documentation. Moreover, Description adheres to the data type **MotherLanguageType**.

The **MotherLanguageType** restricts the **LabelType** (described in 4.1) by defining that the Code element must have one of the enumeration values specified by the **europass:motherCode** data type defined in the included schema “EuropassISOLanguages”.

<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>SkillsPassport / LearnerInfo / Skills/Linguistic / MotherTongueList</td>
<td><strong>Child Element</strong>&lt;br&gt;<strong>Content Type</strong>&lt;br&gt;**Sequence(S)</td>
<td><strong>Definition</strong>&lt;br&gt;** Lists the languages in which the individual communicates as a native speaker (mother tongue)**</td>
</tr>
<tr>
<td><strong>Code Type</strong>&lt;br&gt;<strong>SkillType</strong>&lt;br&gt;<strong>Description</strong>&lt;br&gt;<strong>Documentation</strong></td>
<td><strong>Attributes(@)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>MotherTongue:</strong>&lt;br&gt;<strong>europass:MotherTongueSkillType-S(0/unbounded)</strong></td>
<td><strong>Restriction on europass:SkillType</strong>&lt;br&gt;<strong>Description:</strong> <strong>europass:MotherLanguageType-S(1/1)</strong>&lt;br&gt;<strong>Documentation:</strong> <strong>europass:DocumentationType-S(0/1)</strong></td>
<td><strong>A languages in which the individual communicates as a native speaker (mother tongue)</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Code:</strong> <strong>europass:motherCode - S(0/1)</strong>&lt;br&gt;[<strong>restriction</strong>:xsd:string][<strong>enumeration</strong>]: el [<strong>enumeration</strong>]: de</td>
<td><strong>Attributes(@)</strong></td>
<td><strong>Defines that this element includes information about mother language. In case the Code element is present, then this should take a value from the enumeration defined by the</strong></td>
</tr>
<tr>
<td><strong>Label</strong></td>
<td><strong>europass:motherCode</strong></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>------------------------</td>
<td></td>
</tr>
<tr>
<td>xsd:string</td>
<td>in the included schema &quot;EuropassISOLanguages&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**Instance:**

```xml
<MotherTongueList>
  <MotherTongue>
    <Description>{0,unbounded}</Description>
  </MotherTongue>
</MotherTongueList>

and

```xml
<MotherTongue>
  <Description>{1,1}</Description>
  <Documentation>{0,1}</Documentation>
</MotherTongue>

**Indicative example:**

```xml
<MotherTongueList>
  <MotherTongue>
    <Description>
      <Code>en</Code>
      <Label>English</Label>
    </Description>
  </MotherTongue>
  <MotherTongue>
    <Description>
      <Label>Elvish</Label>
    </Description>
  </MotherTongue>
</MotherTongueList>

**3.5.5.3 Skills/Linguistic/ForeignLanguageList and ForeignLanguage**

The **ForeignLanguageList** element, lists the languages in which the individual communicates at variant levels of competence. The data type of the element defines a sequence of **ForeignLanguage** elements each adhering to the data type **ForeignLanguageSkillType**.

The **ForeignLanguageSkillType** restricts the **SkillType** (described in 4.12) by specifying the data type of the elements that describe the level of knowledge of the language (**ProficiencyLevel**) and related linguistic diplomas (**VerifiedBy**) and/or experiences (**AcquiredDuring**). It also specifies that the **Description** element must adheres to the data type **ForeignLanguageType**.

The **ForeignLanguageType** restricts the **LabelType** (described in 4.1) by defining that the Code element must have one of the enumeration values specified by the **europass:foreignCode** data type defined in the included schema "EuropassISOLanguages".
### Elements and Attributes

<table>
<thead>
<tr>
<th>Child Element</th>
<th>Content Type</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ForeignLanguage</td>
<td>europass:ForeignLanguageSkillType</td>
<td>Lists the languages in which the individual communicates at variant levels of competence.</td>
</tr>
<tr>
<td>Description:</td>
<td>[complexType]</td>
<td>A language in which the individual communicates at variant levels of competence.</td>
</tr>
<tr>
<td>ProficiencyLevel:</td>
<td>[complexType]</td>
<td></td>
</tr>
<tr>
<td>AcquiredDuring:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VerifiedBy:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Documentation:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Composition

<table>
<thead>
<tr>
<th>Element</th>
<th>Child Element</th>
<th>Content Type</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>SkillsPassport / LearnerInfo/Linguistic/ ForeignLanguageList</td>
<td>ForeignLanguage</td>
<td>europass:ForeignLanguageSkillType</td>
<td>Lists the languages in which the individual communicates at variant levels of competence.</td>
</tr>
<tr>
<td>SkillsPassport / LearnerInfo/Linguistic/ ForeignLanguageList/ ForeignLanguage</td>
<td>Description:</td>
<td>[complexType]</td>
<td>A language in which the individual communicates at variant levels of competence.</td>
</tr>
<tr>
<td></td>
<td>ProficiencyLevel:</td>
<td>[complexType]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AcquiredDuring:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>VerifiedBy:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Documentation:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Instance:

```
<ForeignLanguageList>
  <ForeignLanguage>(0,unbounded)</ForeignLanguage>
</ForeignLanguageList>
```
and:

```xml
<ForeignLanguage>
  <Description>{1,1}</Description>
  <ProficiencyLevel>{0,1}</ProficiencyLevel>
  <AcquiredDuring>{0,1}</AcquiredDuring>
  <VerifiedBy>{0,1}</VerifiedBy>
  <Documentation>{0,1}</Documentation>
</ForeignLanguage>
```

**Indicative example:**

```xml
<ForeignLanguage>
  <Description>
    <Code>ja</Code>
    <Label>Japanese</Label>
  </Description>
  <ProficiencyLevel>
    <Listening>C1</Listening>
    <Reading>C1</Reading>
    <SpokenInteraction>C1</SpokenInteraction>
    <SpokenProduction>C1</SpokenProduction>
    <Writing>C1</Writing>
  </ProficiencyLevel>
  <VerifiedBy>
    <Certificate>
      <Title>Cambridge Proficiency</Title>
    </Certificate>
    <Certificate>
      <Title>Michigan Proficiency</Title>
    </Certificate>
  </VerifiedBy>
</ForeignLanguage>
```

### 3.5.3.1 Skills/Linguistic/ForeignLanguageList/ForeignLanguage/ProficiencyLevel

The **ProficiencyLevel** element demonstrates the level of competence for the specific linguistic skill. The evaluation is performed on a self-assessment basis and is based on the classification defined by the Common European Framework of Reference for Languages (CEFR).

The element follows a complex type that defines a sequence of sub-elements each adhering to the data type **CEFLanguageLevelType**, described in 4.13.
**Elements and Attributes**

<table>
<thead>
<tr>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sequence(S)</strong></td>
<td>A detailed break-down of an individual’s self assessment about her level of knowledge of a foreign language.</td>
</tr>
<tr>
<td><strong>Choice(C)</strong></td>
<td>The CEF language level is comprised of one letter (either A, B or C) and one digit (either 1 or 2). E.g. A1, B2, C1. The levels are defined by the Common European Framework of Reference for Languages (CEF).</td>
</tr>
<tr>
<td><strong>All(A)</strong></td>
<td></td>
</tr>
<tr>
<td>(minOccurs/maxOccurs)</td>
<td></td>
</tr>
<tr>
<td><strong>Attributes(@)</strong></td>
<td></td>
</tr>
</tbody>
</table>

SkillsPassport /LearnerInfo/ Skills/Linguistic/ ForeignLanguageList/ ForeignLanguage/ ProficiencyLevel

**Listening:**
europass:CEFLanguageLevelType- S(0/1)

**Reading:**
europass:CEFLanguageLevelType- S(0/1)

**SpokenInteraction:**
europass:CEFLanguageLevelType - S(0/1)

**SpokenProduction:**
europass:CEFLanguageLevelType - S(0/1)

**Writing:**
europass:CEFLanguageLevelType - S(0/1)

Indicative example:

```xml
<ProficiencyLevel>
  <Listening>C1</Listening>
</ProficiencyLevel>
```
3.5.5.3.2 Skills/Linguistic/ForeignLanguageList/ForeignLanguage/AquiredDuring

The AcquiredDuring element lists the experiences that helped an individual to acquire the specific linguistic skill. The data type of this element is the ExperienceListType that consists of one or more Experience elements, each adhering to the ExperienceType described in 4.7.

3.5.5.3.3 Skills/Linguistic/ForeignLanguageList/ForeignLanguage/VerifiedBy

The VerifiedBy element lists the certificates that verify the knowledge of the specific language. The data type of this element is the CertificateListType that consists of one or more Certificate elements, each adhering to the LinguisticCertificateType.

The LinguisticCertificateType restricts the CertificateType (described in 4.12) by restricting the allowed type for the Level element in order to be CEFLanguageLevelType (described in 4.13).

<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child Element</td>
<td>Content Type</td>
<td>Sequence(S)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(minOccurs/maxOccurs)</td>
</tr>
<tr>
<td>Attributes(§)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SkillsPassport /LearnerInfo/ Skills/Linguistic/ ForeignLanguageList/ ForeignLanguage/ VerifiedBy</strong></td>
<td>Certificate: europass:LinguisticCertificateType-S(1/unbounded)</td>
<td>A list of certificates that verify a linguistic skill</td>
</tr>
<tr>
<td><strong>SkillsPassport /LearnerInfo/ Skills/Linguistic/ ForeignLanguageList/ ForeignLanguage/ VerifiedBy/ Certificate</strong></td>
<td>Title: xsd:string-S(1/1) AwardingBody: xsd:string-S(0/1) Date: europass:DateType-S(0/1) Level: europass:CEFLanguageLevelType-S(0/1)</td>
<td>A certificate that verifies linguistic skill</td>
</tr>
</tbody>
</table>

**Instance:**

```
<VerifiedBy>
  <Certificate>{1,unbounded}</Certificate>
</VerifiedBy>
```

**Indicative example:**

```
<VerifiedBy>
  <Certificate>
    <Title>CambridgeProficiency</Title>
    <Level>C2</Level>
  </Certificate>
</VerifiedBy>
```

### 3.5.5.4 Skills/Communication

The **Communication** element includes information which proves that the individual has specific communication skills, such as good ability to adapt to multicultural environments or team spirit.

The data type of this element is **GenericSkillType**. This data type restricts the generic data type **SkillType** (described in 4.12), by defining a generic skill, which is modeled only by an unstructured (free text) **Description** element and a **Documentation** element, which lists the references to the related attached digital documents.
Elements and Attributes

<table>
<thead>
<tr>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child Element</td>
<td></td>
</tr>
<tr>
<td>Content Type</td>
<td></td>
</tr>
<tr>
<td>Sequence(S)</td>
<td>Choice(C)</td>
</tr>
<tr>
<td>(minOccurs/maxOccurs)</td>
<td></td>
</tr>
<tr>
<td>Attributes(@)</td>
<td></td>
</tr>
</tbody>
</table>

SkillsPassport /LearnerInfo/Skills/Communication

Description: \texttt{xsd:string} - S(1/1)
Documentation: DocumentationType - S(0/1)

Definition: Enables the communication skills of an individual.

Instance:

```xml
<Communication>
  <Description>{1,1}</Description>
  <Documentation>{0,1}</Documentation>
</Communication>
```

Indicative example:

```xml
<Communication>
  <Description>Team spirit; Good ability to adapt to multicultural environments, gained though my work experience abroad.</Description>
</Communication>
```
3.5.5.5 Skills/Organisational

The Organisational element includes information which proves that the individual has specific organisational skills, such as leadership or project management skills.

The data type of this element is GenericSkillType, described in 3.5.5.4.

Instance:

```xml
<Organisational>
  <Description>{1,1}</Description>
  <Documentation>{0,1}</Documentation>
</Organisational>
```

Indicative example:

```xml
<Organisational>
  <Description>Leadership (currently responsible for a team of 10 people); Sense of organisation.</Description>
</Organisational>
```

3.5.5.6 Skills/JobRelated

The JobRelated element includes information which proves that the individual has specific technical skills, necessary for a specific job, such as good command of quality assurance methods.

The data type of this element is GenericSkillType, described in 3.5.5.4.

Instance:

```xml
<JobRelated>
  <Description>{1,1}</Description>
  <Documentation>{0,1}</Documentation>
</JobRelated>
```

Indicative example:

```xml
<JobRelated>
  <Description>Good command of quality control processes</Description>
</JobRelated>
```

3.5.5.7 Skills/Computer

The Computer element includes information which proves that the individual has specific skills related to the use of information systems and software packages.

The data type of this element is GenericSkillType, described in 3.5.5.4.
3.5.5.8 Skills/Driving

This element defines a driving skill e.g. driving licence of type B. It has a complex type DrivingSkillType, based on a SkillType restriction which is modeled with one Description element that verifies the driving license of an individual and may also accept Documentation information such as the attachment of a driving license copy.

<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>SkillsPassport/ LearnerInfo/ Skills/Driving</td>
<td>Description -S(1/1) Documentation: DocumentationType - S(0/1)</td>
<td>Defines the driving skills of an individual.</td>
</tr>
</tbody>
</table>
Instance:

```
<Driving>
  <Description>{1,1}
    <Licence>{1,unbounded}</Licence>
  </Description>
  <Documentation>{0,1}</Documentation>
</Driving>
```

Indicative example:

```
<Driving>
  <Description>
    <Licence>A</Licence>
    <Licence>B</Licence>
    <Licence>BE</Licence>
  </Description>
</Driving>
```

3.5.5.9 Skills/Other

The Other element includes any other skills that the individual has and which adds value to her profile. For example, artistic skills may be included here.

The data type of this element is `GenericSkillType`, described in 3.5.5.4.

Instance:

```
<Other>
  <Description>{1,1}</Description>
  <Documentation>{0,1}</Documentation>
</Other>
```

Indicative example:

```
<Other>
  <Description>Carpentry skills acquired through voluntary activities.</Description>
</Other>
```

3.5.6 SkillsPassport/LearnerInfo/AchievementList and Achievement

This section of the XML document lists any additional information about the various achievements of an individual, such as participation to conferences, workshops, memberships to organisations, list of publications, etc.
The section is described by the **AchievementList** element, which accepts a list of **Achievement** elements. Each Achievement element adheres to the data type **AchievementType**.

The **AchievementType** defines a sequence of three sub-elements: **Title**, **Description** and **Documentation**.

The **Title** element describes to what kind of achievement this section refers to. It adheres to the **AchievementTypeLabelType** data type. This data type restricts the **LabelType** (described in 4.1) by specifying that the Code element must have one of the specified values: “honors_awards”, “publications”, “projects”, “citations”, “memberships”, “conferences”, “seminars”, workshops” or “references”.

The **Description** element provides information on what this specific achievement entails. It is a simple text (**xsd:string**).

The **Documentation** element provides a list of references to attached digital documents that are included in the XML Document and are related to this achievement. The element follows the data type **DocumentationType** (described in 4.10).

---

<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>SkillsPassport / LearnerInfo/ AchievementList</td>
<td>Achievement: <strong>AchievementList</strong>Type - <strong>S(0/1)</strong></td>
<td>Defines a list of achievements.</td>
</tr>
<tr>
<td>SkillsPassport / LearnerInfo/ AchievementList/ Achievement</td>
<td>Title: <strong>europass:AchievementTypeLabel</strong>Type - <strong>S(1/1)</strong> Description: <strong>xsd:string</strong> - <strong>S(1/1)</strong> Documentation: <strong>europass:Documentation</strong>Type - <strong>S(0/1)</strong></td>
<td>Defines an achievement</td>
</tr>
<tr>
<td>Data Type</td>
<td>Compositions</td>
<td>Definition</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>-------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td><strong>Sequence(S)</strong></td>
<td>Choice(C)</td>
</tr>
</tbody>
</table>
| AchievementType, LabelType |                                                                           |                                                 |}

**Indicative example:**

```xml
<AchievementList>
  <Achievement>
    <Title>
      <Code>projects</Code>
      <Label>Projects</Label>
    </Title>
    <Description>Project 1; Project 2</Description>
  </Achievement>
  <Achievement>
    <Title>
      <Code>publications</Code>
      <Label>Publications</Label>
    </Title>
    <Description>Publication 1; Publication 2</Description>
  </Achievement>
  <Achievement>
    <Title>
      <Label>Theatre Participations</Label>
    </Title>
    <Description>Theatre 1; Theatre 2</Description>
  </Achievement>
</AchievementList>
```

### 3.5.7 SkillsPassport/LearnerInfo/Documentation and ReferenceTo

An individual can attach one or more relevant documents that verify or support the information included in the specific Europass Document.
Thus, Documentation element comprises a list of ReferenceTo elements each referencing an Attachment element that corresponds to an uploaded digital document, the bytes of which are already included in the XML document.

The Documentation element adheres to the data type DocumentationType (described in 4.10).
3.6 SkillsPassport/AttachmentList

The AttachmentList element defines a list of Attachment elements. Each Attachment element corresponds to any digital document (PDF, JPEG or PNG format) that an individual has attached to her Europass document to support/evidence of her personal data, learning achievements, work experiences, skills, competences, diplomas, etc.

The Attachment element adheres to the data type AttachmentType. This data type extends the FileDataType (defined in 4.10) by defining a Description sub-element and a required id attribute. The actual bytes of the digital attachment are included in the Data sub-element as raw base-64 encoded bytes.

<table>
<thead>
<tr>
<th>Elements and Attributes</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>SkillsPassport/AttachmentList</td>
<td>Attachment: europass:AttachmentType - S(0/unbounded)</td>
<td>A list of digital documents attached to the specific Europass document as evidence of the mentioned experiences, skills and competences.</td>
</tr>
</tbody>
</table>

<p>| SkillsPassport/AttachmentList/Attachment | europass:AttachmentType | A digital document attached to the specific Europass document. |</p>
<table>
<thead>
<tr>
<th>Description: xsd:string - S(0/unbounded)</th>
<th>Must have a unique identifier attribute and a sequence of sub-elements that describe the attachment in detail.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: xsd:string - S(0/1)</td>
<td></td>
</tr>
<tr>
<td>MimeType: europass:MimeTypeEnumeration - S(1/1)</td>
<td></td>
</tr>
<tr>
<td>Data: xsd:base64Binary - S(1/1)</td>
<td></td>
</tr>
<tr>
<td>MetadataList: europass:MetadataListType - S(0/1)</td>
<td></td>
</tr>
</tbody>
</table>

Instance:

```xml
<AttachmentList>
  <Attachment id=""/>
    <Name>{0,1}</Name>
    <MimeType>{1,1}</MimeType>
    <Data>{1,1}</Data>
    <MetadataList>{0,1}</MetadataList>
  </Attachment>
</AttachmentList>

Indicative example:

```xml
<AttachmentList>
  <Attachment id="ATT_1">
    <Name>licence.pdf</Name>
    <MimeType>application/pdf</MimeType>
    <Data>!--base-64 encoded bytes go here --></Data>
    <MetadataList>
      <Metadata key="number-of-pages" value="5"/>
    </MetadataList>
    <Description>Copy of the</Description>
  </Attachment>
  <Attachment id="ATT_2">
    <Name>My scanned Diploma</Name>
    <MimeType>image/jpeg</MimeType>
    <Data>!--base-64 encoded bytes go here --></Data>
  </Attachment>
</AttachmentList>
```
4 Generic Data Types

4.1 LabelType

The **LabelType** data type defines a sequence of two sub-elements **Code** and **Label**. This data type is used to describe any information that may be referenced back to a taxonomy based on the Code element. The Label element includes the translation of this text to the language of the document.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LabelType</strong></td>
<td></td>
<td>Describes any information that may be referenced back to a taxonomy.</td>
</tr>
<tr>
<td>Code</td>
<td>xsd:string</td>
<td>S(0/1)</td>
</tr>
<tr>
<td>Label</td>
<td>xsd:string</td>
<td>S(0/1)</td>
</tr>
</tbody>
</table>

4.2 OccupationalFieldType

The **OccupationalFieldType** data type restricts the **LabelType** (described in 4.1) by defining that the **Code** sub-element must correspond to the occupational field code type is defined in the included schema "EuropassISCO_88_COM". The **Label** sub-element is actually the translation of the type in the language of the document.
### 4.3 AddressInfoType

The **AddressInfoType** data type defines a sequence of four sub-elements: **AddressLine**, **PostalCode**, **Municipality** and **Country**, out of which only **Country** is mandatory. This data type is used to describe an address by providing the address-line, usually referring to the residence's street and street number, the municipality, the postal code and the country.

The minimum required information is the **Country** element, which adheres to the **CountryType** data-type (described in 4.4).

**Instance:**

```xml
<Contact>
  <AddressLine>{0,1}</AddressLine>
  <PostalCode>{0,1}</PostalCode>
  <Municipality>{0,1}</Municipality>
  <Country>{0,1}</Country>
</Contact>
```

**Indicative Example:**
<Contact>
  <AddressLine>12 Strawberry Hille</AddressLine>
  <PostalCode>12345</PostalCode>
  <Municipality>London</Municipality>
  <Country>
    <Code>UK</Code>
    <Label>United Kingdom</Label>
  </Country>
</Contact>

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddressInfoType</td>
<td>AddressLine: xsd:string -S(0/1) PostalCode : xsd:string - S(0/1) Municipality: xsd:string - S(0/1) Country: europass:CountryType- S(1/1)</td>
<td>Describes the details of a postal address.</td>
</tr>
</tbody>
</table>

### 4.4 CountryType

The **CountryType** data type restricts the **LabelType** (defined in 4.1) by defining that the **Code** element must have one of the values defined by the **europass:countryCode** defined in the included schema "EuropassISOCountries". E.g. code: FR, label: France.
### Attributes(@)

| **CountryType** | Code: xsd:string S(0/1) | Label: xsd:string S(1/1) | Defines the structure of an element that describes a country. |

**Instance:**

```xml
<Country>
  <Code>{0,1}</Code>
  <Label>{1,1}</Label>
</Country>
```

**Indicative Example:**

```xml
<Country>
  <Code>UK</Code>
  <Label>United Kingdom</Label>
</Country>
```

### 4.5 ContactAddressType

The **ContactAddressType**, restricts the **ContactMethodType** (described in 3.5.1.2.6.1) by defining that the **Contact** element adheres to the data type **AddressInfoType** (described in 4.2), and that the **Use** element is not necessary.

**Address**, as all the rest contact method elements that are based on the **ContactMethodType** data type, consists of two elements **Contact** and **Use**.

**Contact** element is of type **AddressInfoType** that defines an address which is described by the address-line, usually referring to the residence's street and street number, the municipality, postal code and country. The minimum required information is the Country element.

The **Use** element defines the use of the contact method, e.g. home or work address.
4.6 OrganisationType

The OrganisationType data type defines a sequence of two sub-elements: Name and ContactInfo. It is used when an element needs to describe an Organisation. An organisation is described at least by a Name. Optionally its description may include a ContactInfo element.

The optional ContactInfo element adheres to the type OrganisationalContactInfoType data type. This type defines a sequence of two sub-elements: Address and Website, both being optional.

The Address element adheres to the data type ContactAddressType (described in 4.5), while the Website adheres to the data type OrganisationalWebsiteType.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Compositions</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>OrganisationType</td>
<td>Name: xsd:string</td>
<td>S(1/1)</td>
</tr>
<tr>
<td></td>
<td>ContactInfo :</td>
<td>europass:OrganisationalContactInfoType - S(0/1)</td>
</tr>
</tbody>
</table>

The OrganisationType data type defines a sequence of two sub-elements: Name and ContactInfo.
### 4.7 ExperienceType

The **europass:ExperienceType** data type defines a sequence of three sub-elements: **Period**, **Description** and **Documentation**, out of which the Period is mandatory. This data type is used to describe any experience that is relevant for the curriculum vitae of an individual.

**Data Type**

<table>
<thead>
<tr>
<th>ExperienceType</th>
<th>Compositions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Child Element</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Content Type</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Sequence(S)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>(minOccurs/maxOccurs)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Attributes(@)</strong></td>
</tr>
</tbody>
</table>

**Definition**

- **Period**: Defines the period (starting date and ending date or a Boolean indicator that the period extends until today)
- **Description**: A text describing the experience
- **Documentation**: A List of references to attached digital documents that provide evidence or complement this experience (e.g. recommendation letter)

---

### 4.8 PeriodType

The **europass:PeriodType** data type defines a sequence three sub elements: **From**, **To** and **Current**. Its purpose is to describe a period, with starting date and either an end date or a Boolean...
The end date and the current indicator are optional elements.

**4.9 DateType**

The **DateType** data type defines an element that may have up to three attributes: day, month and year, out of which year is required. Its purpose is to describe a date, which consists of the day, the month and the year.
### 4.10 DocumentationType

The **DocumentationType** data type defines a list of **ReferenceTo** elements, each being a reference to an attached digital document.

The **ReferenceTo** element adheres to the **InternalReferenceType** data type which defines that the element needs to have an attribute, named `idref`, which actually is a reference to the id of an element within the same XML document. The references element is an **Attachment** element, found somewhere in the list of SkillsPassport/AttachmentList (described in 3.6).
**InternalReferenceType**

<table>
<thead>
<tr>
<th>idrefxsd:IDREF - required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Defines that the <code>idref</code> element needs to reference the id of an existing element in the XML Document.</td>
</tr>
</tbody>
</table>

**Instance:**

```xml
<Documentation>
  <ReferenceTo idref="">
    {0, unbounded}
  </ReferenceTo>
</Documentation>
```

**Indicative example:**

```xml
<Documentation>
  <ReferenceTo idref="ATT_1"/>
  <ReferenceTo idref="ATT_2"/>
</Documentation>
```

### 4.11 FileDataType

The **FileDataType** data type defines a sequence of elements and is used to describe an attached digital file.

<table>
<thead>
<tr>
<th>Compositions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child Element</td>
</tr>
<tr>
<td>Content Type</td>
</tr>
<tr>
<td>Sequence(S)</td>
</tr>
<tr>
<td>(minOccurs/maxOccurs)</td>
</tr>
<tr>
<td>Attributes(?)</td>
</tr>
</tbody>
</table>

**Data Type**

FileDataType

**Definition**

Describes a digital document.

- **Name**: defines the original file-name.
- **MimeType**: defines the file type of the document and must follow the MimeTypeName enumeration data type.
- **Data**: includes the raw base-64 encoded bytes of the document.
- **MetadataList**: lists Metadata elements, each offering some extra information about this document.
**MimeTypeEnumeration**

<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Restricts the string by defining an enumeration of allowed file mime types.</td>
</tr>
</tbody>
</table>

**MetadataListType**

<table>
<thead>
<tr>
<th>Metadata: europass:MetadataType - S(0/unbounded)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lists Metadata elements, each offering some extra information about this document.</td>
</tr>
</tbody>
</table>

**MetadataType**

<table>
<thead>
<tr>
<th>key: xsd:string value: xsd:string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Defines specific metadata information identified by the key attribute and with text specified by the value attribute.</td>
</tr>
</tbody>
</table>

4.12 SkillType

The *SkillType* data type defines any skill or competence that an individual demonstrates. A *SkillType* defines a sequence of sub-elements: *Description*, *ProficiencyLevel*, *AcquiredDuring*, *VerifiedBy* and *Documentation*.

The *Description* element provides a text-based description of this skill.

The *ProficiencyLevel* denotes the level of expertise of the individual when it comes to the specific skill.

The *AcquiredDuring* element includes a list of Experiences in which the individual participated in, and which had as learning outcome the acquisition of this skill or competence.

The *VerifiedBy* element includes a list of Certificates each of which verifies that the individual has the specific skill or competence.

Finally, the *Documentation* element lists references to attached digital documents that are included in the XML Document and that provide evidence for the possession of this skill by the learner.
### Data Type Compositions

<table>
<thead>
<tr>
<th>Child Element</th>
<th>Content Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequence(S)</td>
<td>Choice(C)</td>
</tr>
</tbody>
</table>

(minOccurs/maxOccurs)

Attributes(@)

#### Definition

**SkillType**

- **Description:** xsd:anyType-S(1/1)
- **ProficiencyLevel:** xsd:anyType-S(0/1)
- **AcquiredDuring:** europass:ExperienceListType-S(0/1)
- **VerifiedBy:** europass:CertificateListType-S(0/1)
- **Document:** europass:DocumentationType-S(0/1)

Defines any skill or competence that an individual demonstrates.

**ExperienceListType**

- **Experience:** europass:ExperienceType-S(1/unbounded)

Defines a list of Experience elements, each adhering to the `ExperienceType` described in 4.7.

**CertificateListType**

- **Certificate:** europass:CertificateType-S(1/unbounded)

Defines a list of Certificate elements, each adhering to the `CertificateType`.

**CertificateType**

- **Title:** xsd:string-S(1/1)
- **AwardingBody:** xsd:string-S(0/1)
- **Date:** europass:DateType-S(0/1)
- **Level:** xsd:anyType-S(0/1)

Defines information about a certificate related to the awarded title, the date of awarding, the body that awarded it and finally the level against a specific classification to which this certificate corresponds.

### 4.13CEFLanguageLevelType

The `CEFLanguageLevelType` data type defines a specific pattern for the CEF language level. According to this pattern, an element that adheres to this type must be a string that is comprised of one letter (either A, B or C) and one digit (either 1 or 2). E.g. A1, B2, C1. The levels are defined by the Common European Framework of Reference for Languages (CEFR).

#### Data Type Compositions

<table>
<thead>
<tr>
<th>Child Element</th>
<th>Content Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequence(S)</td>
<td>Choice(C)</td>
</tr>
</tbody>
</table>

(minOccurs/maxOccurs)

Attributes(@)

**CEFLanguageLevelType**

- **Restriction xsd:string**
- **Pattern:** ([A-C][12])?

Defines a string that is comprised of one letter (either A, B or C) and one digit (either 1 or 2). E.g. A1, B2, C1.