WORLD INTELLECTUAL PROPERTY ORGANIZATION

SPECIAL UNION FOR THE INTERNATIONAL
CLASSIFICATIONS OF INDUSTRIAL DESIGNS FOR THE
PURPOSE OF THE REGISTRATION OF MARKS

(LOCARNO UNION)

LOCARNO Master Files Specification

Date	By	Version	Status	Modification
January 11, 2017	Grégoire Isoz	0.1	Draft	Creation
May 17, 2017	Grégoire Isoz	1.01	Final	Change reference files version

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1. **General Information**

This specification concerns the LOCARNO specification abbreviated "LOC" when needed. In the following, terms used with a LOCARNO business specific meaning are indicated with their first letter capitalized.

Each publication of the LOCARNO Classification is completely defined by

(i)   a set of master files which define the concerned edition of the LOCARNO Classification

(ii)   additional files which are the result of master files processing (called Master Files Transformations).

These files are primarily used to update LOCARNO Information Systems regardless of their infrastructure. All information needed to describe a new revision of the LOCARNO Classification in authentic languages is referenced in these master files. To ease downloading, the XML and related files (e.g. illustrations) are compressed in `.zip` format.

The purpose of this document is to specify the format and content of LOCARNO Master Files.

1.1. Release descriptors

- Edition: Integer number representing the edition of the classification.

- Version: Four digit year representing a version released in the current edition

- Date In Force: Date the edition-version goes into force

- Generation Date: Date the master file was generated

Edition is LOCARNO classification terms with specific meanings. Together they may be referred to as edition-version (e.g. 9-2010).

The "date in force" is the YYYYMMDD that a specific version goes into force (e.g. 20100101).

Generation date is an internal reference; master files may be updated several times for a given edition-version (e.g. 20100622).

1.2. File Naming Conventions

The LOC master files include XML, CSV and image files (.jpg, .gif, .png). Image files must be zipped together.

XML and zip files should be named as:

```
loc-<date_in_force>-<language_code>-<name>-<generation_date>.<ext>
```

- `date_in_force` is a ISO 8601 basic formatted date (YYYYMMDD)

- `language_code` is a two letter language code following ISO 639-1 standard: `en` or `fr` for the authentic languages.

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- `name` is a short description of the file using underscores for spaces

- `generation_date` is a ISO 8601 basic formatted date (YYYYMMDD)

- `ext` is the filename extension (either xml, csv or zip, depending on the file)

Not all filenames require a language code. See the specific file naming conventions in the inventory below.

1.3. Element Naming Conventions

Element names are in `CamelCase`, with attribute names in `lowerCamelCase`, as recommended by WIPO ST.66.

2. Overview of Files

2.1. Composition

The LOCARNO master files are composed of:

- One Language-independent Classification Top Structure XML file

- One Language-independent Hierarchy Groups Structure XML file

- One language-independent Illustrations index XML file

- One language-independent zip file including illustration files

- Five sets of language-specific XML files (one for each authentic language)

- Two language-dependent fixed texts XML files (one for each authentic language)

- Two language-dependent Recommendations XML files (one for each authentic language)

These have to be released as XML file (illustrations as zip files), following the naming convention discussed in section 1.2. Each XML file is defined by a separate textual specification document and illustrated by XML Schema Definitions (XSD).

The text of this specification takes precedence over this XSD, either in case of contradiction or information not indicated in the XSD.

An XML Master File must never be empty.

Therefore, the root element must also never be empty even if its content model, as declared in associated XSD, allows for optional elements only. Such optional elements must also never be empty unless explicitly declared empty .i.e. where information is not available, the corresponding optional element is absent.

Elements explicitly declared empty in the XSD also specify at least one required attribute that takes no default value.

Root elements must also specify the following attributes:

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- `xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"`
- `xmlns="http://www.wipo.int/classifications/loc"`

LOC namespace is the default one and there is no need to use a prefix to qualify any element from that namespace in LOC XML Master Files.

2.2. Relation between Master Files and Master File Transformations

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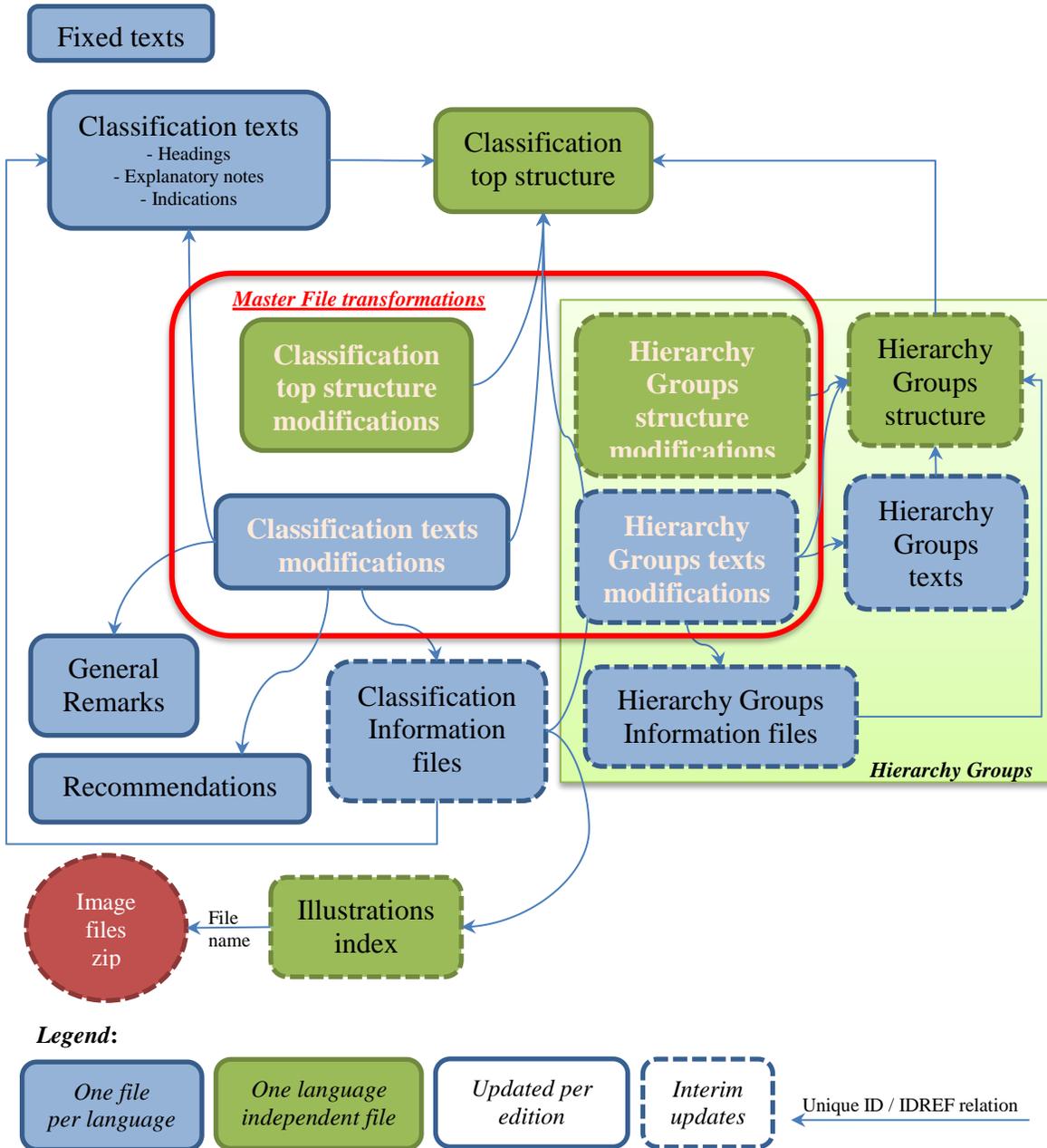
2.3. Mandatory/Optional Master Files and Master File Transformations

To limit the number of case combinations, file sets are considered below.

A file set must be complete i.e. either all files are present or the complete file set should be considered as absent.

The following table shows which file set is optional or mandatory: the mandatory set A may be completed by either the optional set B or C or both.

Files set	Master Files (MF) and *Transformations (MFT)*	Mandatory	Optional
A	Classification top structure MF	X	
	Classification texts MF		
	Fixed texts MF		
	General Remarks MF		
	Recommendations MF		
B	Classification Information files MF		X
	Illustrations index MF		
	Classification top structure modifications MFT		
	Classification texts modifications MFT		
C	Hierarchy Groups structure MF		X
	Hierarchy Groups texts MF		
	Hierarchy Groups Information files MF		
	Hierarchy Groups structure modifications MFT		
	Hierarchy Groups texts modifications MFT		

3. <u>Language-independent files</u>

3.1. LOCARNO Classification top structure

3.1.1. Filenames
- loc-YYYYMMDD-classification_top_structure-YYYYMMDD.xml

3.1.2. Brief description of XML file contents
- Structured tree elements: classes, subclasses and children goods

- Class numbers and IDs, basicNumbers and IDs of goods

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3.1.3. Specification

- LOC_classification_top_structure_specification_V1-01.doc

- LOC_classification_top_structure_V1-01.xsd

3.2. LOCARNO Hierarchy Groups structure

3.2.1. Filenames

- loc-YYYYMMDD-hierarchy_groups_structure-YYYYMMDD.xml

3.2.2. Brief description of XML file contents

- Structured tree elements: hierarchy groups, related parents, goods

- Group numbers and IDs and references to goods IDs in each hierarchy group

3.2.3. Specification

- LOC_hierarchy_groups_structure_specification_V1-01.doc

- LOC_hierarchy_groups_structure_V1-01.xsd

3.3. LOCARNO Illustration Files

3.3.1. Zip Filename

- loc-YYYYMMDD-illustrations-YYYYMMDD.zip

3.3.2. Zip Contents

- Illustrations files in various formats.

- loc-YYYYMMDD-illustrations_index-YYYYMMDD.xml

3.3.3. Brief description of XML file contents

Flat list of illustration files used in the concerned LOCARNO edition.

3.3.4. Specification

- LOC_illustrations_index_specification_V1-01.doc

- LOC_illustrations_index_V1-01.xsd

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4. <u>Language-dependent files</u>

4.1. LOCARNO General Remarks

4.1.1. Filenames

- loc-YYYYMMDD-en-general_remarks-YYYYMMDD.xml
- loc-YYYYMMDD-fr-general_remarks-YYYYMMDD.xml

4.1.2. Brief description of XML file contents

- Introductory comments for the general remarks

  Itemized remarks for classifying goods

4.1.3. Specification

- LOC_general_remarks_specification_V1-01.doc
- LOC_general_remarks_V1-01.xsd

4.2. LOCARNO Classification Texts

4.2.1. Filenames

- loc-YYYYMMDD-en-classification_texts-YYYYMMDD.xml
- loc-YYYYMMDD-fr-classification_texts-YYYYMMDD.xml

4.2.2. Brief description of XML file contents

- Single paragraph elements for each class or subclass heading
- Explanatory note headings
- Included or excluded goods in explanatory notes
- A master indication in the given language with sort expressions
- Optional synonym indications in the given language

4.2.3. Specification

- LOC_classification_texts_V1-01.doc
- LOC_classification_texts_V1-01.xsd

4.3. LOCARNO Hierarchy Groups Texts

4.3.1. Filenames

- loc-YYYYMMDD-en-hierarchy_groups_texts-YYYYMMDD.xml
- loc-YYYYMMDD-fr-hierarchy_groups_texts-YYYYMMDD.xml

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4.3.2. Brief description of XML file contents

- A flat list of all the hierarchy groups

- Titles of each group in the given language

4.3.3. Specification

- LOC_hierarchy_groups_texts_specification_V1-01.doc

- LOC_hierarchy_groups_texts_V1-01.xsd

4.4. LOCARNO Classification Information Files

4.4.1. Filenames

- loc-YYYYMMDD-en-classification_information_files-YYYYMMDD.xml

- loc-YYYYMMDD-fr-classification_information_files-YYYYMMDD.xml

4.4.2. Brief description of XML file contents

- Structured paragraph class analyses with formatting and links to classes

- Structured paragraph definitions of individual goods

- References to illustrations of specific goods

- Related goods in the same or other classes

4.4.3. Specification

- LOC_classification_information_files_specification_V1-01.doc

- LOC_classification_information_files_V1-01.xsd

4.5. LOCARNO Hierarchy Groups Information Files

4.5.1. Filenames

- loc-YYYYMMDD-en-hierarchy_groups_information_files-YYYYMMDD.xml

- loc-YYYYMMDD-fr-hierarchy_groups_information_files-YYYYMMDD.xml

4.5.2. Brief description of XML file contents

- Structured paragraph hierarchy group analyses with formatting and links

4.5.3. Specification

- LOC_hierarchy_groups_information_files_specification_V1-01.doc

- LOC_hierarchy_groups_information_files_V1-01.xsd

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4.6. LOCARNO Fixed Texts Files

4.6.1. Filenames

- loc-YYYYMMDD-en-fixed_texts-YYYYMMDD.xml

- loc-YYYYMMDD-fr-fixed_texts-YYYYMMDD.xml

4.6.2. Specification

- LOC_fixed_texts_specification_V1-01.doc

- LOC_fixed_texts_V1-01.xsd

4.7. LOCARNO Recommendations Files

4.7.1. Filenames

- loc-YYYYMMDD-en-recommendations-YYYYMMDD.xml

- loc-YYYYMMDD-fr-recommendations-YYYYMMDD.xml

4.7.2. Specification

- LOC_recommendations_specification_V1-01.doc

- LOC_recommendations_V1-01.xsd

5. <u>Common elements and Attributes</u>

Several of the master files share types of elements that have a specific structure or set of attributes. These common elements are described in this section.

5.1. Version and Language Attributes

The root element on all files has 4 mandatory attributes: `"dateInForce"`, `"dateOfGeneration"`, and `"edition"` and `"version"`. "dateInForce" and "dateOfGeneration" take date values in ISO 8601 extended format (i.e. YYYY-MM-DD). The `"dateInForce"` attribute is the date the given edition-version goes into force, while the `"dateOfGeneration"` is the date the XML file was generated. Both attributes must match their respective dates in the filename. The `"edition"` attribute is a number (e.g. 10). The `"version"` attribute is a year (e.g. 2015).

All files that are in a specific target language (i.e. all XML files except illustrations index, taxonomy and taxonomy modifications) also require a `"language"` attribute; a two letter language code (`en` or `fr` in the authentic version of the master files). This attribute must match the language code used in the filename.

5.2. Classification Links

Some of the master files can contain pointers to classes, subclasses, specific goods, General Remarks, Recommendations or hierarchy groups. These are represented

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respectively by a `<ClassLink>`, `<SubclassLink>`, `<GoodLink>`, `<GeneralRemarkLink>`, `<RecommendationLink>` and `<HierarchyGroupLink>` element, which has one mandatory attribute `"idRef"`. Its value is the id of the target Class, Subclass, Good, Recommendation, General Remark or Hierarchy Group.

The `<ClassLink>`, `<SubclassLink>`, `<GoodLink>`, and `<HierarchyGroupLink>` elements have a mandatory attribute `"targetKind"`. This attribute is used to define the kind of data which has to be used. Possible values for this attribute are:

- `"text"`
- `"number"`
- `"numberAndText"`

Other links elements can take optional content for the text of the link.

5.3. External Links

It is also possible to link to external resources using the `<ExternalLink>` element. This element takes a single attribute `"linkURI"`, which should be a valid URI for the linked resource. This is usually a web URL, but other resources can also be linked. The content of the `<ExternalLink>` element is the text of the link.

5.4. Ordered Lists

Certain structures inside the classification are recorded as ordered lists of text objects. These are recorded as an `<OrderedList>` element, which contains contains an optional `<Introduction>` element and a series of `<ListItem>` elements. Each `<ListItem>` can contain text and `<ClassLink>`, `<SubclassLink>`, `<GoodLink>`, `<GeneralRemarkLink>`, `<RecommendationLink>` and `<HierarchyGroupLink>` interspersed. The Introduction element is just text.

5.5. Paragraph Structure

Certain elements, mostly in the information files are described as having a paragraph structure. Therefore the element can contain semi-structured freeform text elements. Each paragraph is marked up with `<P>` elements.

The <P> element has one required attribute `"id"` (see paragraph 5.7 below).

Inside individual paragraph elements, freeform mixed content text can be used. The mixed content can contain `<ClassLink>`, `<SubclassLink>`, `<GoodLink>`, `<GeneralRemarkLink>`, `<RecommendationLink>`, `<HierarchyGroupLink>` and `<ExternalLink>` described above. It can also contain an `<Emphasis>` element to mark certain freeform text as important.

5.6. Illustration References

Illustrations can be referenced in both the definition and related examples part of the goods and services definition in the information files. In both cases, the element used is named `<IllustrationRef>`. It has two required attributes `"id"` (see paragraph 5.7

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below), and `"idRef"` which value is the id of the related illustration as defined in LOC Illustrations Master File specification. This element content is the legend describing the image in question in the language of the current file, and must be supplied in all cases.

5.7. Unique identifiers and references

Instances of elements for which a required attribute `"id"` is specified are uniquely identified by the value of this attribute.

This attribute take an xs:ID type of value (a character string made of numerals, letters, hyphens and/or colons which must start with a letter or a hyphen). A given "id" value must be unique among all identified elements in all XML Master Files in all LOCARNO editions.

Uniquely identified element instance can be then referenced by another element in the same LOCARNO edition for which an attribute of type xs:IDREF (referenced instance is in the same file) or xs:NCName (referenced instance is in another file) is specified.

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