Publications Office

Directorate A – Core Business Services
A.1 – Enterprise Architecture, Methods and Formats
Formats, Computer Linguistics and Metadata

IMMC v2

Communication protocol naming convention for OJ deliveries

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ABBREVIATIONS, ACRONYMS, DEFINITIONS	
Abbreviation	**Meaning**
OP	Publications Office
IMMC	The Interinstitutional Metadata Maintenance Committee (IMMC) is responsible for the harmonisation and standardisation of metadata to facilitate the information exchanges between and amongst the institutions at European level.
IMMC package	A ZIP format archive which must contain the IMMC descriptor file. The archive may optionally contain data files which must be referenced in the IMMC descriptor file.
IMMC descriptor	An XML file, which validates against the IMMC schema following the specific IMMC parsing rules.
Transmission identifier (cmt:transmission @ id)	The identifier of the IMMC descriptor, which must be used by applications for a valid transmission follow up. Applications must ensure its uniqueness within the IMMC data channel.
XML	EXtensible Markup Language
FMX	Formex
PDF	Portable Data Format

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1 Purpose of the Document

The purpose of this document is to describe the IMMC v2 communication protocol high level general naming conventions that applicable to all IMMC deliveries. It concerns the zip packages and the IMMC descriptor filenames used in messages exchanged between the Publications Office and its contractors for the transmission of documents and their metadata.

1.1 IMMC v2 general package naming conventions

In general, messages exchanged within the context of the IMMC communication protocol have to be wrapped in a ZIP archive with its filename adhering to one of the following naming conventions:

`{filename}``.zip`

`{filename}``_immc.zip`

It is important that every application that generates IMMC packages ensures the uniqueness of the package filename within the IMMC data channel.

It is a common practice and a recommended one that the string `{filename}` is made up of the pattern <transmission_id>_<date_time> in which case, the final name would look like:

`<transmission id>_<date_time>``_immc.zip`

1.2 IMMC v2 OJ delivery specific package naming conventions

The naming convention for IMMC packages in the case of OJ (OJ Full PDF, OJ Act PDF, OJ FMX, and the OJ delivery notice) follows Formex v4 specifications (http://formex.publications.europa.eu/formex-4/physspec/formex-4-filenames.htm) with the additional requirement that always the dots in the filename shall be replaced with underscores. That means that, in this case, the IMMC packages for OJ must follow the pattern:

`{filename}``.zip`

Where the string `{filename}` must have no dots and takes different values depending on the type of content transmitted as described in the following sections.

1.2.1 The package for the OJ Full PDF content

Following the above mentioned Formex v4 rules, these packages are named like in the following example:

`L_2013256_pdf.zip`

In the case that a single message could result in a large-size file, separate language versions (LV) might be delivered instead with each filename denoting the language with the two-character ISO language code, like in the following example illustrating the case of the French linguistic version:

L_2013256FR_pdf.zip

1.2.2 The package for the Act PDF content in a given LV

In this case, the filename is constructed in the same way as the OJ Full PDF but always including the language version part and replacing the "`pdf`" string with "`pdfdoc`" like in the following example:

L_2013256FR_pdfdoc.zip

1.2.3 The package for the FMX content in a given LV

Again, it follows the Formex specification for filenames, indicating the xml nature in the filename but, again, replacing the dots by the underscore character and always specifying the language version code like in the example:

L_2013256FR_xml.zip

1.2.4 The package for the delivery notice

For these files, the string "delivery_notice" is included and there is no mention to any linguistic version. An example for a filename of this kind would be as follows:

L_2013256_delivery_notice.zip

1.3 IMMC v2 descriptor file naming conventions

In all cases mentioned above, the filename for the IMMC descriptor file inside packages must match the pattern:

{filename}`_immc.xml`

It is mandatory that `{filename}` structure is chosen to match the format `<transmission id>_<date_time>` so that the resulting filename must look like:

<transmission id>_<date_time>`_immc.zip`

The segment `<transmission id>` is the unique identifier inside the IMMC transmission envelope part of the IMMC descriptor file. There are no coded semantics in the IMMC package/descriptor name (except for accidental semantics in the transmission id.)

The transmission id can be freely chosen by the printer as long as it is ensured that it is unique and, in general, its value is taken from the id attribute of the `<cmt:transmission>` element (as in the example below) and only accepts valid characters which are set to be digits, letters (uppercase or lowercase), dot and underscore; invalid characters are translated to underscores.

As to the `<date_time>,` it represents the point in time of the transmission that is normally defined by the value of the element `<cm:date_time>` which follows the `YYYY-MM-DDThh:mm:ss.sss.` For the filename, though, colons and dots must be removed from the string.

2   Example

All what has been mentioned above is exemplified in the following extract from an OJ Formex transmission:

```
<oj_transmission_request [...]>
  <cmt:transmission id="oj_JOC_2018_034_R_EN_20180130213331396_formex">
    <cmt:institution>PRIVATE</cmt:institution>
    <cmt:service>OJC Production</cmt:service>
    <cmt:context>OJ production tool</cmt:context>
    <cmt:date_time>2018-01-30T21:33:31.396</cmt:date_time>
  [...]
```

In this case the name of the IMMC descriptor filename must follow the pattern `<transmission id>_<date_time>_immc.xml` and, hence, for the example in hand, we would have something like:

```
oj_JOC_2018_034_R_EN_20180130213331396_formex_2018-01-
30T213331396_immc.xml
```

As to the package filename, the following table illustrates the naming conventions for the package, depending on its type, as described above in section 1.2:

	Language	Format	Package filename	IMMC descriptor filename
Full OJ	all LVs	PDF	L_2013256_pdf.zip	<transmission id>_<date_time>_immc.xml
Acts	per LV	PDF	L_2013256FR_pdfdoc.zip	<transmission id>_<date_time>_immc.xml
Formex files (toc, doc, xml)	per LV	XML	L_2013256FR_xml.zip	<transmission id>_<date_time>_immc.xml
Delivery notice	all LVs	n.a.	L_2013256_delivery_notice.zip	<transmission id>_<date_time>_immc.xml