

Delivery guide for Environmental Noise Data:



DF3: Noise limit values in force and associated information

Type of Document:
Draft guidelines Annex DF3

Prepared by:
Colin Nugent, Núria Blanes, Jaume Fons,
Miquel Sáinz de la Maza, Roman Ortner

Date:
12.03.2012

Project Manager:
Colin Nugent

European Environment Agency



UNIVERSIDAD
DE MÁLAGA

Universidad de Malaga
ETCSIA
PTA - Technological Park of Andalusia
c/ Marie Curie, 22 (Edificio Habitec)
Campanillas
29590 - Malaga
Spain

Telephone: +34 952 02 05 48
Fax: +34 952 02 05 59

Contact: etc-sia@uma.es

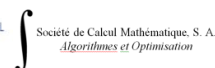


TABLE OF CONTENTS

1	Outline of the delivery	1
2	Data submission process	2
3	Check list for the data reporters	4
4	Statistical information expected to be reported	5
4.1	Data to be reported corresponding to agglomerations > 100.000 inhabitants	6
4.2	Data to be reported corresponding to Major roads with more than 3.000.000 vehicles / year.....	8
4.3	Data to be reported corresponding to Major railways with more than 30.000 train passages / year.....	9
4.4	Data to be reported corresponding to Major airports with more than 50.000 movements / year	11
5	Supplementary information	13
6	Metadata	14
6.1	Metadata for the excel sheets to compile competent authorities	14
6.2	Metadata for the Supplementary information.....	14
7	Naming conventions	15
8	Quality check process	16

1 OUTLINE OF THE DELIVERY

This reporting obligation consists on the provision of the noise limit values in force and associated information.

This information should have been compulsory available by the end of 2005, but updates are accepted at any time (especially in the cases where countries provided noise limit values planned).

This delivery would consist on the following types of information:

- Tabular data consisting on:
 - o Excel sheets providing the information on noise limit values in force and under preparation per L_{den} , L_{night} , L_{day} and $L_{evening}$ per each noise source (agglomerations, major roads, major railways and major airports) and the report where all the details can be found. Details can be found in section 4 of this Annex.
- Supplementary information (if needed), detailed in chapter 5 of this Annex.
- Metadata (how the data provided has been created and constraints of this data: a detailed list of information that should be provided is specified in chapter 6).

So, it is expected that each envelope created to deliver data concerning this reporting obligation will contain the corresponding spreadsheets. How data should be delivered through Reportnet is explained in a separate chapter in the main document.

It is highly recommended that the data provided follow the templates that have been specially created for this purpose, with specific quality check rules designed for helping the country to report the data following the specifications and ensuring the data coherence and at the same time, to facilitate the manual quality check developed by several EU institutions.

The analysis of the quality of the data as well as of its completeness will be only done for the information requested as compulsory, which will be basis to evaluate the compliance of a specific country.

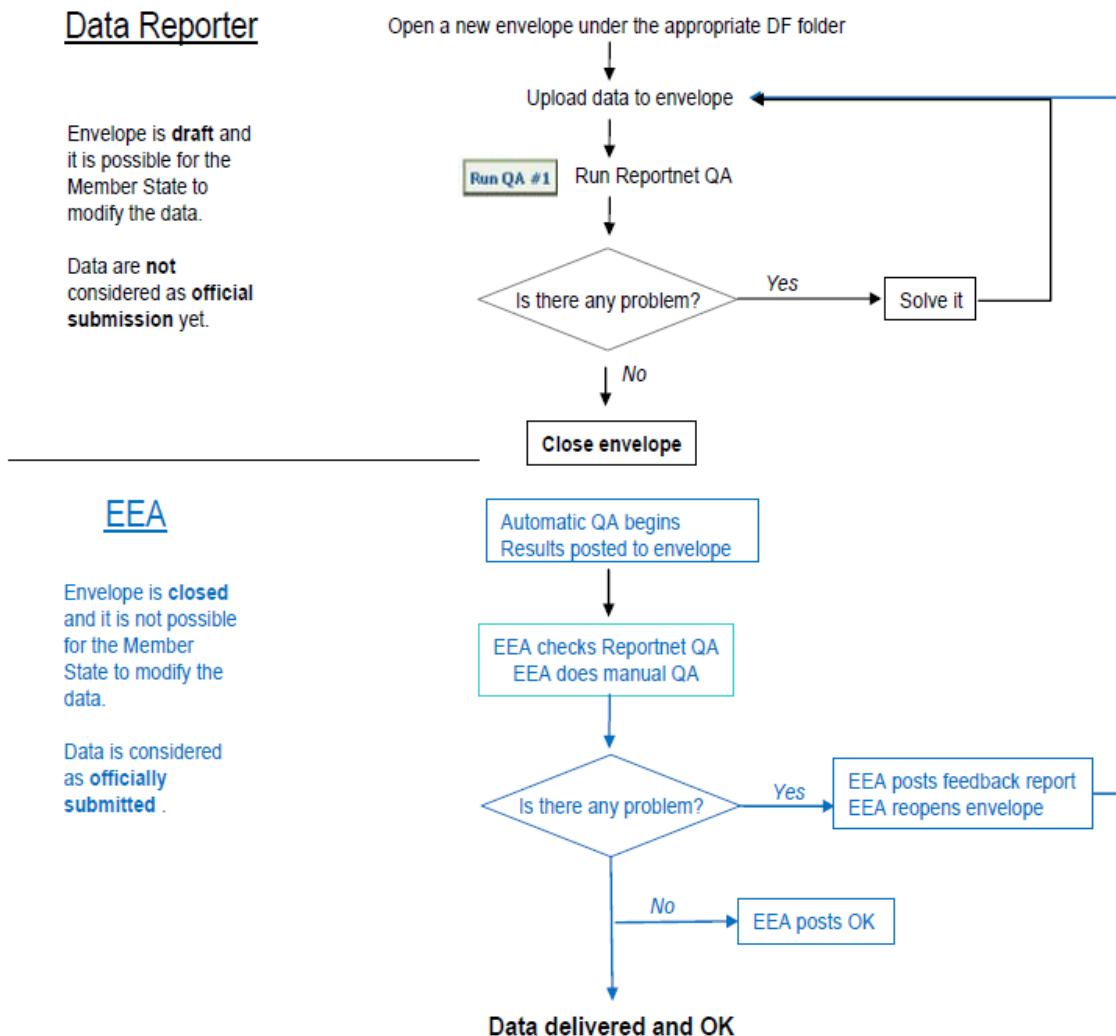
To be highlighted that unique codes are not compulsory but highly relevant in order to ensure traceability as well as the linkage between different dataflows or different types of information in the same dataflow. This is the reason why unique codes already stored from previous deliveries can be consulted in <http://rod.eionet.europa.eu/obligations/365> through the Reportnet platform.

2 DATA SUBMISSION PROCESS

The process to submit the requested information is very simple:

1. Download the template provided for tabular data
2. Fill in the template in your personal computer
3. Upload the filled in template into the Reportnet system
4. Run the quality check rules and correct the data if necessary (if this is the case, go back to step 2)
5. Complete the task (=equivalent to submit the information)

Figure 1. Overview of the Reporting process



The reporter would be able to find the instructions and the explanation of the detailed data to be delivered for each concept specified in the END in chapter 4.

Moreover, chapter 3 contains a check list of what needs to be done in order to fulfil the requests of the END for this specific deliverable, to ensure that the data provided is compliant with the minimum requirements specified in this Annex.

Chapter 5 deals with the supplementary information that can be provided, and chapter 6 details the content of the metadata files to be provided for each document delivered.

Finally, in chapter 7, details concerning the naming conventions for the files that should be uploaded in Reportnet are proposed and chapter 8 contain the general quality check process followed concerning this dataflow.

3 CHECK LIST FOR THE DATA REPORTERS

This section contains a list to be checked by the (experienced) noise information reporters through Reportnet, to be sure that the data reported accomplish the minimum requirements specified in this annex.

Data preparation:

- Have you downloaded the most recent template for DF3 from the Reportnet data dictionary (4 tables)? <http://dd.eionet.europa.eu/datasets/2732>
- All the cells are fulfilled and where no data should be provided (due to data not available of data not applicable), have they been fulfilled using the explanatory values "-1" and "-2"?
- Is your data complete?
- Have you inserted your country data into the template (xls or xml)?
- Do you provide a metadata file / supplementary report and do they contain all necessary information (e.g. description of data actuality)?
- Does the supplementary report include a short summary in English?
- Have you completed all the metadata files for all the information you need to provide for this deliverable?

File names:

- Do the file names follow the naming convention proposed? And if the naming convention is not available, does the name indicate the content of the file?

Uploading process:

- Have you delivered the data through Reportnet? If this is the case, have you log in, created a new envelope, entered the envelope and activated the task?
- Have you uploaded the filled template with the corresponding metadata file, and the supplementary reports (in case it is needed)?
- Have you run the automatic QA for all the tables?
- If necessary (because the automatic QA is not passed successfully for all tables) have you corrected the data and uploaded the correct tables again?
- Have you checked that your data is delivered? Have you press the option "Complete task"?
- Have you logout from Reportnet?

4 STATISTICAL INFORMATION EXPECTED TO BE REPORTED

In order to harmonise the statistical information to be reported to the European Commission, an Excel Workbook has been designed containing 5 different worksheets, 4 of them expected to be fulfilled with information concerning the noise limit values, and the last worksheet is solely for internal use (for the conversion of the files to enable the automatic quality check of the data being reported).

The expected information to be reported is indicated in the first row of the four worksheets. Empty fields are not allowed in those worksheets; therefore, one of the following values should be provided in case there is no information available for a specific cell:

Field value	Meaning	Description
-1	Data not applicable	This may apply to the following cases: <ul style="list-style-type: none">- Table / field not to be reported because no agglomeration, or no major roads, or no major railways or no major airports fall in the scope of the Directive (meeting the minimum threshold specified by END).- For the agglomerations case if a specific noise source is not present.- A field value does not exist (e.g. EURoadID)
-2	Data not available	This may apply to the following cases: <ul style="list-style-type: none">- Data not mandatory for reporting- Data not yet available (mandatory data)- Data not available (mandatory data)

The "-2" value should not appear in the mandatory cells corresponding to the final data delivery (in case more than one delivery is done by one MS).

For consultation purposes, all the information expected to be provided in the template excel worksheets is detailed in the following subsections (it is not the purpose to reproduce the format of all the worksheets, it is just a summary of the details of the data requested in each of them). This information can also be consulted in the following Reportnet page: <http://dd.eionet.europa.eu/datasets/2732>

Naming conventions to upload the requested files in the corresponding folder of Reportnet are detailed in chapter 7 of the current annex.

EC and EEA will decline responsibilities for not quality checking and therefore, not including into NOISE (Noise Observation and Information Service for Europe) those deliveries not following the specifications and guidelines provided in this annex.

The specifications detailed in this document will be adapted to the INSPIRE guidelines specifications as soon as they become available and official.

4.1 DATA TO BE REPORTED CORRESPONDING TO AGGLOMERATIONS > 100.000 INHABITANTS

Information should be provided in the spreadsheet named as DF3_Aggl, which contain the following data requests:

Field Identifier	Field Name	Field Definition	Compulsory (c) / not compulsory (nc)	Methodology	Data type	Units
CountryCode	Country Code	Unique code used as an identifier for each country, as defined in the code list.	nc	ISO 3166-1 alpha-2 country code.	String	
ReportingEntityUniqueCode	Reporting Entity Unique Code	A single character Unique code assigned by the Member State to each Reporting Entity.	nc	A single character Unique alpha ID from a to z assigned sequentially by the Member State.	String	Minimum size: 1 Maximum size: 1 Minimum value: a Maximum value: z
NoiseLimitValueReport	Noise Limit Value Report	The full name of the report, the author/publisher and date of production.	c	An electronic copy of the Data Flow 3 report detailing limit values for Agglomerations per each noise source must be supplied electronically with the submission to the European Commission using the naming convention, '<Country Code>_<Reporting Entity Unique Code>_DF3_Aggl'.	String	Minimum size: 1 Maximum size: 255
NoiseSource	Noise source	Determine the noise source existing in an agglomeration area to which the noise limit value is applied.	nc	Distinction about the different noise sources that can be present in an agglomeration from the strategic noise mapping and action planning point of view: - road - rail - industry - aircraft	String	Minimum size: 1 Maximum size: 255
LdenNoiseLimitValueInForce	Lden Noise Limit value in force	Noise limit value in force calculated in dB(A) expressed in terms of Lden	nc		Integer	Minimum size: 1 Maximum

						size: 3
LnightNoiseLimitValueInForce	Lnight Noise Limit value in force	Noise limit value in force calculated in dB(A) expressed in terms of Lnight	nc		Integer	Minimum size: 1 Maximum size: 3
LdayNoiseLimitValueInForce	Lday Noise Limit value in force	Noise limit value in force calculated in dB(A) expressed in terms of Lday	nc		Integer	Minimum size: 1 Maximum size: 3
LeveningNoiseLimitValueInForce	Levening Noise Limit value in force	Noise limit value in force calculated in dB(A) expressed in terms of Levening	nc		Integer	Minimum size: 1 Maximum size: 3
LdenNoiseLimitValueInPreparation	Lden Noise Limit value in preparation	Noise limit value in preparation calculated in dB(A) expressed in terms of Lden	nc		Integer	Minimum size: 1 Maximum size: 3
LnightNoiseLimitValueInPreparation	Lnight Noise Limit value in preparation	Noise limit value in preparation calculated in dB(A) expressed in terms of Lnight	nc		Integer	Minimum size: 1 Maximum size: 3
LdayNoiseLimitValueInPreparation	Lday Noise Limit value in preparation	Noise limit value in preparation calculated in dB(A) expressed in terms of Lday	nc		Integer	Minimum size: 1 Maximum size: 3
LeveningNoiseLimitValueInPreparation	Levening Noise Limit value in preparation	Noise limit value in preparation calculated in dB(A) expressed in terms of Levening	nc		Integer	Minimum size: 1 Maximum size: 3
Comments	Comments	Explanations about their implementation is needed	nc		String	Minimum size: 1 Maximum size: 255

Notice that 1 field have been added comparing this template with the previous version of the ENDRM, in order to be able to distinguish the noise source in an agglomeration to which the noise limit value is applied: "NoiseSource".

4.2 DATA TO BE REPORTED CORRESPONDING TO MAJOR ROADS WITH MORE THAN 3.000.000 VEHICLES / YEAR

Information should be provided in the spreadsheet named as DF3_MRoad, which contain the following data requests:

Field Identifier	Field Name	Field Definition	Compulsory (c) / not compulsory (nc)	Methodology	Data type	Units
CountryCode	Country Code	Unique code used as an identifier for each country, as defined in the code list.	nc	ISO 3166-1 alpha-2 country code.	String	
ReportingEntityUniqueCode	Reporting Entity Unique Code	A single character Unique code assigned by the Member State to each Reporting Entity.	nc	A single character Unique alpha ID from a to z assigned sequentially by the Member State.	String	Minimum size: 1 Maximum size: 1 Minimum value: a Maximum value: z
NoiseLimitValueReport	Noise Limit Value Report	The full name of the report, the author/publisher and date of production.	c	An electronic copy of the Data Flow 3 report detailing limit values for Major Roads must be supplied electronically with the submission to the European Commission using the naming convention, '<Country Code>_<Reporting Entity Unique Code>_DF3_MRoad'.	String	Minimum size: 1 Maximum size: 255
LdenNoiseLimitValueInForce	Lden Noise Limit value in force	Noise limit value in force calculated in dB(A) expressed in terms of Lden	nc		Integer	Minimum size: 1 Maximum size: 3
LnightNoiseLimitValueInForce	Lnight Noise Limit value in force	Noise limit value in force calculated in dB(A) expressed in terms of Lnight	nc		Integer	Minimum size: 1 Maximum size: 3
LdayNoiseLimitValueInForce	Lday Noise Limit value in force	Noise limit value in force calculated in dB(A) expressed in terms of Lday	nc		Integer	Minimum size: 1 Maximum size: 3
LeveningNoiseLimitValueInForce	Levening Noise Limit value in force	Noise limit value in force calculated in dB(A) expressed in terms of Levening	nc		Integer	Minimum size: 1 Maximum size: 3
LdenNoiseLimitValueInPreparation	Lden Noise Limit value in preparation	Noise limit value in preparation calculated in dB(A) expressed in terms of Lden	nc		Integer	Minimum size: 1 Maximum size: 3

LnightNoiseLimitValueInPreparation	Lnight Noise Limit value in preparation	Noise limit value in preparation calculated in dB(A) expressed in terms of Lnight	nc		Integer	Minimum size: 1 Maximum size: 3
LdayNoiseLimitValueInPreparation	Lday Noise Limit value in preparation	Noise limit value in preparation calculated in dB(A) expressed in terms of Lday	nc		Integer	Minimum size: 1 Maximum size: 3
LeveningNoiseLimitValueInPreparation	Levening Noise Limit value in preparation	Noise limit value in preparation calculated in dB(A) expressed in terms of Levening	nc		Integer	Minimum size: 1 Maximum size: 3
Comments	Comments	Explanations about their implementation is needed	nc		String	Minimum size: 1 Maximum size: 255

4.3 DATA TO BE REPORTED CORRESPONDING TO MAJOR RAILWAYS WITH MORE THAN 30.000 TRAIN PASSAGES / YEAR

Information should be provided in the spreadsheet named as DF3_MRail, which contain the following data requests:

Field Identifier	Field Name	Field Definition	Compulsory (c) / not compulsory (nc)	Methodology	Data type	Units
CountryCode	Country Code	Unique code used as an identifier for each country, as defined in the code list.	nc	ISO 3166-1 alpha-2 country code.	String	
ReportingEntityUniqueCode	Reporting Entity Unique Code	A single character Unique code assigned by the Member State to each Reporting Entity.	nc	A single character Unique alpha ID from a to z assigned sequentially by the Member State.	String	Minimum size: 1 Maximum size: 1 Minimum value: a Maximum value: z

NoiseLimitValueReport	Noise Limit Value Report	The full name of the report, the author/publisher and date of production.	c	An electronic copy of the Data Flow 3 report detailing limit values for Major Railways must be supplied electronically with the submission to the European Commission using the naming convention, '<Country Code>_<Reporting Entity Unique Code>_DF3_MRail'.	String	Minimum size: 1 Maximum size: 255
LdenNoiseLimitValueInForce	Lden Noise Limit value in force	Noise limit value in force calculated in dB(A) expressed in terms of Lden	nc		Integer	Minimum size: 1 Maximum size: 3
LnightNoiseLimitValueInForce	Lnight Noise Limit value in force	Noise limit value in force calculated in dB(A) expressed in terms of Lnight	nc		Integer	Minimum size: 1 Maximum size: 3
LdayNoiseLimitValueInForce	Lday Noise Limit value in force	Noise limit value in force calculated in dB(A) expressed in terms of Lday	nc		Integer	Minimum size: 1 Maximum size: 3
LeveningNoiseLimitValueInForce	Levening Noise Limit value in force	Noise limit value in force calculated in dB(A) expressed in terms of Levening	nc		Integer	Minimum size: 1 Maximum size: 3
LdenNoiseLimitValueInPreparation	Lden Noise Limit value in preparation	Noise limit value in preparation calculated in dB(A) expressed in terms of Lden	nc		Integer	Minimum size: 1 Maximum size: 3
LnightNoiseLimitValueInPreparation	Lnight Noise Limit value in preparation	Noise limit value in preparation calculated in dB(A) expressed in terms of Lnight	nc		Integer	Minimum size: 1 Maximum size: 3
LdayNoiseLimitValueInPreparation	Lday Noise Limit value in preparation	Noise limit value in preparation calculated in dB(A) expressed in terms of Lday	nc		Integer	Minimum size: 1 Maximum size: 3
LeveningNoiseLimitValueInPreparation	Levening Noise Limit value in preparation	Noise limit value in preparation calculated in dB(A) expressed in terms of Levening	nc		Integer	Minimum size: 1 Maximum size: 3

Comments	Comments	Explanations about their implementation is needed	nc		String	Minimum size: 1 Maximum size: 255
----------	----------	---	----	--	--------	--------------------------------------

4.4 DATA TO BE REPORTED CORRESPONDING TO MAJOR AIRPORTS WITH MORE THAN 50.000 MOVEMENTS / YEAR

Information should be provided in the spreadsheet named as DF3_MAir, which contain the following data requests:

Field Identifier	Field Name	Field Definition	Compulsory (c) / not compulsory (nc)	Methodology	Data type	Units
CountryCode	Country Code	Unique code used as an identifier for each country, as defined in the code list.	nc	ISO 3166-1 alpha-2 country code.	String	
ReportingEntityUniqueCode	Reporting Entity Unique Code	A single character Unique code assigned by the Member State to each Reporting Entity.	nc	A single character Unique alpha ID from a to z assigned sequentially by the Member State.	String	Minimum size: 1 Maximum size: 1 Minimum value: a Maximum value: z
NoiseLimitValueReport	Noise Limit Value Report	The full name of the report, the author/publisher and date of production.	c	An electronic copy of the Data Flow 3 report detailing limit values for Major Airports must be supplied electronically with the submission to the European Commission using the naming convention, '<Country Code>_<Reporting Entity Unique Code>_DF3_MAir'.	String	Minimum size: 1 Maximum size: 255
LdenNoiseLimitValueInForce	Lden Noise Limit value in force	Noise limit value in force calculated in dB(A) expressed in terms of Lden	nc		Integer	Minimum size: 1 Maximum size: 3
LnightNoiseLimitValueInForce	Lnight Noise Limit value in force	Noise limit value in force calculated in dB(A) expressed in terms of Lnight	nc		Integer	Minimum size: 1 Maximum size: 3

LdayNoiseLimitValueInForce	Lday Noise Limit value in force	Noise limit value in force calculated in dB(A) expressed in terms of Lday	nc		Integer	Minimum size: 1 Maximum size: 3
LeveningNoiseLimitValueInForce	Levening Noise Limit value in force	Noise limit value in force calculated in dB(A) expressed in terms of Levening	nc		Integer	Minimum size: 1 Maximum size: 3
LdenNoiseLimitValueInPreparation	Lden Noise Limit value in preparation	Noise limit value in preparation calculated in dB(A) expressed in terms of Lden	nc		Integer	Minimum size: 1 Maximum size: 3
LnightNoiseLimitValueInPreparation	Lnight Noise Limit value in preparation	Noise limit value in preparation calculated in dB(A) expressed in terms of Lnight	nc		Integer	Minimum size: 1 Maximum size: 3
LdayNoiseLimitValueInPreparation	Lday Noise Limit value in preparation	Noise limit value in preparation calculated in dB(A) expressed in terms of Lday	nc		Integer	Minimum size: 1 Maximum size: 3
LeveningNoiseLimitValueInPreparation	Levening Noise Limit value in preparation	Noise limit value in preparation calculated in dB(A) expressed in terms of Levening	nc		Integer	Minimum size: 1 Maximum size: 3
Comments	Comments	Explanations about their implementation is needed	nc		String	Minimum size: 1 Maximum size: 255

5 SUPPLEMENTARY INFORMATION

You can provide any other types of information that you think are relevant for consultation purposes (letters, clarification documents, the noise limit values report, etc). This information will be solely stored, and will not be analysed, so be sure that all the relevant information is provided in the fulfilled templates, in the shapefiles or in the metadata sections accompanying all the files.

It is requested that a short text file (supplying it using any text file format (e.g. Microsoft WORD, .txt files, etc.)), to be used as metadata of the supplementary information provided, would be stored in the same folder detailing, in English:

- The title of the supplementary information
- Language used in the report
- Short description of the information contained in this report (recommended length: from half a page to one page).

(The name of this file can follow the same specifications than the proposed in section 6.1).

6 METADATA

In order to be able to deal with the data provided, it is very important to provide some information about the data itself.

Therefore, several metadata files are asked to be provided accompanying the information reported. These files should be written down in English, and it is sufficient to supply them using any text file format (e.g. Microsoft WORD, .txt files, etc.).

6.1 METADATA FOR THE EXCEL SHEETS TO COMPILE COMPETENT AUTHORITIES

The metadata file should contain the following information:

- Title of the excel file that the metadata is referring to
- Reference year: in which year this information has been created and delivered / published
- Responsible organisation: Name of the organisation creating the data
- Contact person: Name of the contact person in the responsible organisation and contact details
- Constraints of the data being provided.

The supplied metadata files could follow the naming convention specified below:

[Name]_metadata.[extension]

Where:

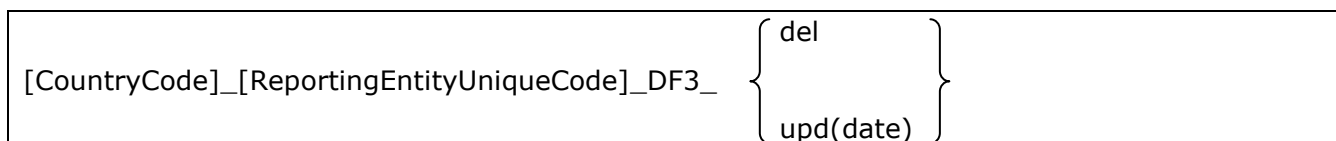
- [Name] is the name of the file the metadata is referring to.

6.2 METADATA FOR THE SUPPLEMENTARY INFORMATION

Detailed information provided in section 5.

7 NAMING CONVENTIONS

The excel files to be uploaded in the corresponding folder in Reportnet should follow the naming convention proposed below:



Where:

- "del" refers to "deliverable" and corresponds to the first time that a country provide information for this dataflow;
- "upd" refers to "update" and corresponds to the updates of the information corresponding to the dataflow;
- and (date) is the date when the update of information is done. Date format is month (two digits), followed by year (two digits).

Examples:

MT_a_DF3_del.xls

MT_a_DF3_upd0912.xls

8 QUALITY CHECK PROCESS

The items checked in the data reported are the following ones:

- Items checked in the Reportnet's QA process:
 - data specifications – data types, to ensure that data is within the range defined in the guidelines documents,
 - all the mandatory elements have been reported,
 - code conventions
 - the existence of duplicates in unique codes fields.
- It is checked which mandatory elements has been filled in with "-2" value, to keep track of the information that still needs to be provided.
- Correspondence of unique codes between different dataflow and/or updates of the same dataflow.
- Reporting coverage, to be sure that the information has been provided for all the expected reporting units.