

Delivery guide for Environmental Noise Data:



DF4_DF8: Strategic noise maps for major roads, major railways, major airports and agglomerations

Type of Document:
Guidelines Annex DF4_DF8

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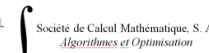


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CHANGE RECORD

Issue / Rev	Date	Revised page(s)	Description of Change	Release
1.0	13.07.2012	All	Update of the ENDRM v1 to adapt to the needs of Reportnet. Update of the corresponding annexes related to each END dataflow.	2.0
2.0	13.12.2012	All	Update of data specifications related to Major Roads and Major Railways. Specific changes can be found in pages 37 and 46.	2.1
3.0	23.12.2016	All	Update of metadata specifications concerning the reporting round to which the data relates.	3.1

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1 OUTLINE OF THE DELIVERY

This reporting obligation consists on the provision of data regarding “Strategic noise maps related data as listed in annex VI for all major roads, railways, airports and agglomerations with the following thresholds:

- Agglomerations > 100,000 inhabitants.
- Major civil airport > 50,000 movements/year
- All major roads > 3 million vehicles/year
- All major railways > 30,000 trains/year”

Information on strategic noise maps consist on 4 main blocks of information:

1. Statistical data consisting on:
 - People exposed to different noise bands by different noise sources by L_{den} and L_{night} and calculations differentiated by exposure to major sources, most exposed façade, quiet façade, areas and dwellings exposed, etc. (details can be found in the description of the reporting obligation in Reportnet–<http://rod.eionet.europa.eu/obligations/369> – and in chapter 4 of this Annex)
 - Unique codification
2. Spatial data consisting on:
 - Noise contour maps focused on the noise emission sources (obligatory in the case of major roads, major railways and major airports, and voluntary in the case of the agglomerations)
 - Quiet areas inside and outside agglomerations
(Details can be found in chapter 5 of the current Annex)
3. Supplementary information (if needed), detailed in chapter 6 of this Annex.
4. 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 7).

So, it is expected that each subfolder created to deliver data concerning this reporting obligation will contain at least, statistical and spatial data, both with the corresponding metadata files. 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. The rest of automatic quality check rules have been introduced in order to guide the reporter.

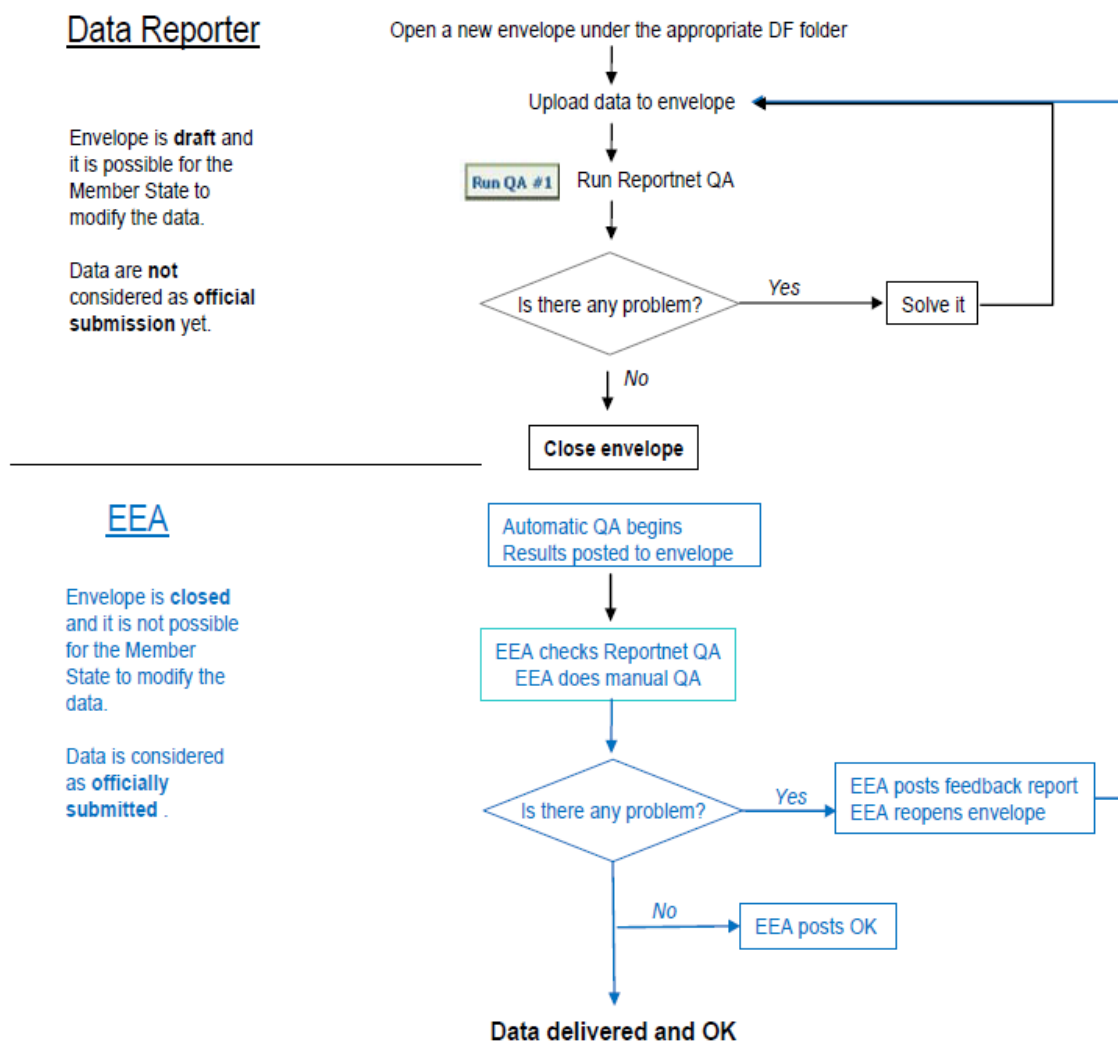
To be highlighted that unique codes are not compulsory but highly relevant in order to ensure traceability as well as the linkage between different dataflows or different types of information in the same dataflow. This is the reason why unique codes already stored from previous deliveries can be consulted in <http://rod.eionet.europa.eu/obligations/369> 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. Download the template provided for spatial data
6. Upload the requested spatial data as separate files or in a ZIP file using the "Add zip file" button.
7. 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 (concerning the statistical information to be reported) and in chapter 5 (concerning the spatial information to be delivered).

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 6 deals with the supplementary information that can be provided, and chapter 7 details the content of the metadata files to be provided for each document delivered.

Finally, in chapter 8, details concerning the naming conventions for the files that should be uploaded in Reportnet are proposed and chapter 9 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 DF_4_8 from the Reportnet data dictionary (9 tables)? <http://dd.eionet.europa.eu/datasets/3300> .
- Is your data given in the correct units?
- Is your data plausible and complete?
- All the cells are fulfilled and where no data should be provided (due to data not available or data not applicable), have they been fulfilled using the explanatory values "-1" and "-2"?
- 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?
- Do the shapefiles include a projection-file?
- Do the shapefiles fulfil the requirements (names and values of the attributes, etc.)?
- Have you completed all the metadata files for all the information you need to provide for this deliverable?

Quiet areas data:

- Do you have quiet areas? Inside agglomerations? Outside agglomerations?
- Have they been delimited and reported?
- Do the metadata file / supplementary report contain a description of the methodology how the quiet areas have been defined?

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:

- Be sure to select the folder corresponding to the reporting period, e.g. 2017.
- 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 and gis files 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?

Related tasks:

- Check if an update of any other dataflow is necessary (e.g. DF_1_5 due to a change on the noise sources, a change of the total number of inhabitants in agglomerations etc.)
 - o *It is important to be aware that, if DF1_DF5 are updated in Reportnet at the same time than DF4_DF8, the automatic quality checking rules that check the correspondence between the items reported in the different dataflows would not be applicable until the reference tables would be updated accordingly.*

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 10 different worksheets, 9 of them expected to be fulfilled with information concerning the noise exposure data per noise source requested by the END, 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 nine 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).

Concerning this dataflow, "0" value will be understood as 0 hundreds of people exposed (meaning that there could be from 0 to 49 people exposed at that noise band for that noise source), or 0 dwellings exposed to a specific noise band, etc.

Information concerning the number of people exposed inside agglomerations and the number of people exposed from major transport sources as well as the number of dwellings are expected to be reported **rounded to the nearest hundred**.

For example, if there are 5235 people exposed, the figure to be provided is 5200, rounding it to the nearest hundred (e.g. 5200 = between 5150 and 5249; 100 = between 50 and 149; 0 = less than 50).

For consultation purposes, all the information expected to be provided in the template excel sheets is detailed in the following subsections (it is not the purpose to reproduce the format of all the spreadsheets, it is just a summary of the details of the data requested in each excel sheet,). This information can also be consulted in the following Reportnet page: <http://dd.eionet.europa.eu/datasets/3300> .

Naming conventions to upload the requested files in the corresponding folder of Reportnet are detailed in chapter 8.1 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

4.1.1 Road noise, railway noise and aircraft noise

Information should be provided separately in the corresponding worksheets, named as DF_4_8_Agg_Road, DF_4_8_Agg_Rail, DF_4_8_Agg_Air, respectively.

Field Identifier	Field Name	Field Definition	Compulsory (c) / not compulsory (nc)	Methodology	Data type	Units
UniqueAgglomerationId	Unique Agglomeration ID	Unique Agglomeration ID assigned by the reporting entity to each agglomeration.	nc	The same code as defined in DF_1_5_Agg	String	Minimum size: 6 Maximum size: 14
Lden5054	Numbers people Exposed to Lden 50-54	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559	Numbers people Exposed to Lden 55-59	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064	Numbers people Exposed to Lden 60-64	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden6569	Numbers people Exposed to Lden 65-69	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden7074	Numbers people Exposed to Lden 70-74	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75	Numbers people Exposed to Lden >75	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden >75 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5054FromMajorSource	Numbers people Exposed to Lden 50-54 from Major Roads	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden from a Major Source between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559FromMajorSource	Numbers people Exposed to Lden 55-59 from Major Roads	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden from a Major Source between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064FromMajorSource	Numbers people Exposed to Lden 60-64 from Major Roads	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden from a Major Source between 60-64 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden6569FromMajorSource	Numbers people Exposed to Lden 65-69 from Major Roads	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden from a Major Source between 65-69 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden7074FromMajorSource	Numbers people Exposed to Lden 70-74 from Major Roads	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden from a Major Source between 70-74 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75FromMajorSource	Numbers people Exposed to Lden >75 from Major Roads	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden from a Major Source >75 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5054WithSpecialInsulation	Numbers Exposed to Lden 50-54 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
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Lden6569WithSpecialInsulation	Numbers Exposed to Lden 65-69 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden7074WithSpecialInsulation	Numbers Exposed to Lden 70-74 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75WithSpecialInsulation	Numbers Exposed to Lden >75 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden >75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5054FromMajorSourceWithSpecialInsulation	Numbers Exposed to Lden 50-54 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden from a Major Source between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559FromMajorSourceWithSpecialInsulation	Numbers Exposed to Lden 55-59 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden from a Major Source between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064FromMajorSourceWithSpecialInsulation	Numbers Exposed to Lden 60-64 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden from a Major Source between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden6569FromMajorSourceWithSpecialInsulation	Numbers Exposed to Lden 65-69 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden from a Major Source between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden7074FromMajorSourceWithSpecialInsulation	Numbers Exposed to Lden 70-74 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden from a Major Source between 70-74 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75FromMajorSourceWithSpecialInsulation	Numbers Exposed to Lden >75 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden from a Major Source >75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5054WithAQuietFaçade	Numbers Exposed to Lden 50-54 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
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Lden75WithAQuietFacade	Numbers Exposed to Lden >75 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden >75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
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Lden6064FromMajorSourceWithAQuietFacade	Numbers Exposed to Lden 60-64 from Major Source with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden from a Major Source between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden6569FromMajorSourceWithAQuietFaçade	Numbers Exposed to Lden 65-69 from Major Source with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden from a Major Source between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
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Lden75FromMajorSourceWithAQuietFaçade	Numbers Exposed to Lden >75 from Major Source with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden from a Major Source >75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4044	Numbers people Exposed to Lnight 40-44	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 40-44 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549	Numbers people Exposed to Lnight 45-49	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054	Numbers people Exposed to Lnight 50-54	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight5559	Numbers people Exposed to Lnight 55-59	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064	Numbers people Exposed to Lnight 60-64	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569	Numbers people Exposed to Lnight 65-69	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70	Numbers people Exposed to Lnight >70	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight >70 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4044FromMajorSource	Numbers people Exposed to Lnight 40-44 from Major Roads	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight from Major Source between 40-44 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549FromMajorSource	Numbers people Exposed to Lnight 45-49 from Major Roads	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight from Major Source between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight5054FromMajorSource	Numbers people Exposed to Lnight 50-54 from Major Roads	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight from a Major Source between 50-54 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559FromMajorSource	Numbers people Exposed to Lnight 55-59 from Major Roads	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight from a Major Source between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064FromMajorSource	Numbers people Exposed to Lnight 60-64 from Major Roads	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight from a Major Source between 60-64 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569FromMajorSource	Numbers people Exposed to Lnight 65-69 from Major Roads	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight from a Major Source between 65-69 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70FromMajorSource	Numbers people Exposed to Lnight >70 from Major Roads	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight from a Major Source >70 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4044WithSpecialInsulation	Numbers Exposed to Lnight 40-44 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 40-44 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight4549WithSpecialInsulation	Numbers Exposed to Lnight 45-49 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054WithSpecialInsulation	Numbers Exposed to Lnight 50-54 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559WithSpecialInsulation	Numbers Exposed to Lnight 55-59 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064WithSpecialInsulation	Numbers Exposed to Lnight 60-64 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569WithSpecialInsulation	Numbers Exposed to Lnight 65-69 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70WithSpecialInsulation	Numbers Exposed to Lnight >70 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight >70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight4044FromMajorSourceWithSpecialInsulation	Numbers Exposed to Lnight 40-44 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight from a Major Source between 40-44 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549FromMajorSourceWithSpecialInsulation	Numbers Exposed to Lnight 45-49 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight from a Major Source between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054FromMajorSourceWithSpecialInsulation	Numbers Exposed to Lnight 50-54 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight from a Major Source between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559FromMajorSourceWithSpecialInsulation	Numbers Exposed to Lnight 55-59 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight from a Major Source between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064FromMajorSourceWithSpecialInsulation	Numbers Exposed to Lnight 60-64 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight from a Major Source between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569FromMajorSourceWithSpecialInsulation	Numbers Exposed to Lnight 65-69 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight from a Major Source between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight70FromMajorSourceWithSpecialInsulation	Numbers Exposed to Lnight >70 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight from a Major Source >70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4044WithAQuietFaçade	Numbers Exposed to Lnight 40-44 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 40-44 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549WithAQuietFaçade	Numbers Exposed to Lnight 45-49 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054WithAQuietFaçade	Numbers Exposed to Lnight 50-54 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559WithAQuietFaçade	Numbers Exposed to Lnight 55-59 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064WithAQuietFaçade	Numbers Exposed to Lnight 60-64 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight6569WithAQuietFacade	Numbers Exposed to Lnight 65-69 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70WithAQuietFacade	Numbers Exposed to Lnight >70 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between >70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4044FromMajorSourceWithAQuietFacade	Numbers Exposed to Lnight 40-44 from Major Source with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight from a Major Source between 40-44 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549FromMajorSourceWithAQuietFacade	Numbers Exposed to Lnight 45-49 from Major Source with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight from a Major Source between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054FromMajorSourceWithAQuietFacade	Numbers Exposed to Lnight 50-54 from Major Source with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight from a Major Source between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559FromMajorSourceWithAQuietFacade	Numbers Exposed to Lnight 55-59 from Major Source with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight from a Major Source between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight6064FromMajorSourceWithAQuietFacade	Numbers Exposed to Lnight 60-64 from Major Source with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight from a Major Source between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569FromMajorSourceWithAQuietFacade	Numbers Exposed to Lnight 65-69 from Major Source with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight from a Major Source between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70FromMajorSourceWithAQuietFacade	Numbers Exposed to Lnight >70 from Major Source with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight from a Major Source between >70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
ComputationAndMeasurementMethodsReportDetails	Computation and measurement methods report details	The full name of the report, the author/publisher and date of production.	c	An electronic copy of the report submitted to the EC.	String	Minimum size: 1 Maximum size: 255
ComputationMethodName	Name of the computation method	Short name of the computation method used to made the calculations	nc	Name of the computation method	String	Minimum size: 1 Maximum size: 255

4.1.1.1 Extra spreadsheet in the case of aircraft noise

In order to distinguish between different major airports affecting the same agglomeration, an extra worksheet has been added in order to obtain the above mentioned information. Information should be provided in the worksheet named DF_4_8_Agg_Air_Major, which contains the following data requests:

Field Identifier	Field Name	Field Definition	Compulsory (c) / not compulsory (nc)	Methodology	Data type	Units
UniqueAgglomerationId	Unique Agglomeration ID	Unique Agglomeration ID assigned by the reporting entity to each agglomeration.	nc	The same code as defined in DF_1_5_Agg	String	Minimum size: 6 Maximum size: 14
IcaoCode	ICAO Code	The airport code defined by the International Civil Aviation Organization	nc	The same code as defined in DF_1_5_MAir	String	Minimum size: 4 Maximum size: 4
Lden5054	Numbers people Exposed to Lden 50-54	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559	Numbers people Exposed to Lden 55-59	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064	Numbers people Exposed to Lden 60-64	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6569	Numbers people Exposed to Lden 65-69	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden7074	Numbers people Exposed to Lden 70-74	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75	Numbers people Exposed to Lden >75	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden >75 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5054WithSpecialInsulation	Numbers Exposed to Lden 50-54 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559WithSpecialInsulation	Numbers Exposed to Lden 55-59 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064WithSpecialInsulation	Numbers Exposed to Lden 60-64 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6569WithSpecialInsulation	Numbers Exposed to Lden 65-69 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden7074WithSpecialInsulation	Numbers Exposed to Lden 70-74 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75WithSpecialInsulation	Numbers Exposed to Lden >75 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden >75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5054WithAQuietFaçade	Numbers Exposed to Lden 50-54 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559WithAQuietFaçade	Numbers Exposed to Lden 55-59 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064WithAQuietFaçade	Numbers Exposed to Lden 60-64 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6569WithAQuietFaçade	Numbers Exposed to Lden 65-69 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden7074WithAQuietFa cade	Numbers Exposed to Lden 70-74 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75WithAQuietFaca de	Numbers Exposed to Lden >75 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden >75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4044	Numbers people Exposed to Lnight 40-44	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 40-44 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549	Numbers people Exposed to Lnight 45-49	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054	Numbers people Exposed to Lnight 50-54	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559	Numbers people Exposed to Lnight 55-59	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight6064	Numbers people Exposed to Lnight 60-64	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569	Numbers people Exposed to Lnight 65-69	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70	Numbers people Exposed to Lnight >70	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight >70 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4044WithSpecialnsulation	Numbers Exposed to Lnight 40-44 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 40-44 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549WithSpecialnsulation	Numbers Exposed to Lnight 45-49 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054WithSpecialnsulation	Numbers Exposed to Lnight 50-54 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight5559WithSpecialInsulation	Numbers Exposed to Lnight 55-59 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064WithSpecialInsulation	Numbers Exposed to Lnight 60-64 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569WithSpecialInsulation	Numbers Exposed to Lnight 65-69 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70WithSpecialInsulation	Numbers Exposed to Lnight >70 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight >70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4044WithAQuietFaçade	Numbers Exposed to Lnight 40-44 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 40-44 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549WithAQuietFaçade	Numbers Exposed to Lnight 45-49 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight5054WithAQuietF acade	Numbers Exposed to Lnight 50-54 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559WithAQuietF acade	Numbers Exposed to Lnight 55-59 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064WithAQuietF acade	Numbers Exposed to Lnight 60-64 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569WithAQuietF acade	Numbers Exposed to Lnight 65-69 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70WithAQuietFac ade	Numbers Exposed to Lnight >70 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between >70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
ComputationAndMeasur ementMethodsReportDe tails	Computation and measurement methods report details	The full name of the report, the author/publisher and date of production.	c	An electronic copy of the report submitted to the EC.	String	Minimum size: 1 Maximu m size: 255
ComputationMethodNa me	Name of the computation method	Short name of the computation method used to made the calculations	nc	Name of the computation method	String	Minimum size: 1

						Maximum size: 255
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4.1.2 Industrial noise

Information should be provided in the worksheet named as DF_4_8_Agg_Ind, which contain the following data requests:

Field Identifier	Field Name	Field Definition	Compulsory (c) / not compulsory (nc)	Methodology	Data type	Units
UniqueAgglomerationId	Unique Agglomeration ID	Unique Agglomeration ID assigned by the reporting entity to each agglomeration.	nc	The same code as defined in DF_1_5_Agg	String	Minimum size: 6 Maximum size: 14
Lden5054	Numbers people Exposed to Lden 50-54	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559	Numbers people Exposed to Lden 55-59	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064	Numbers people Exposed to Lden 60-64	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden6569	Numbers people Exposed to Lden 65-69	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden7074	Numbers people Exposed to Lden 70-74	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75	Numbers people Exposed to Lden >75	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden >75 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5054WithSpecialInsulation	Numbers Exposed to Lden 50-54 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559WithSpecialInsulation	Numbers Exposed to Lden 55-59 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064WithSpecialInsulation	Numbers Exposed to Lden 60-64 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden6569WithSpecialInsulation	Numbers Exposed to Lden 65-69 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden7074WithSpecialInsulation	Numbers Exposed to Lden 70-74 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75WithSpecialInsulation	Numbers Exposed to Lden >75 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden >75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5054WithAQuietFaçade	Numbers Exposed to Lden 50-54 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559WithAQuietFaçade	Numbers Exposed to Lden 55-59 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064WithAQuietFaçade	Numbers Exposed to Lden 60-64 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden6569WithAQuietFa cade	Numbers Exposed to Lden 65-69 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden7074WithAQuietFa cade	Numbers Exposed to Lden 70-74 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75WithAQuietFaca de	Numbers Exposed to Lden >75 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden >75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4044	Numbers people Exposed to Lnight 40-44	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 40-44 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549	Numbers people Exposed to Lnight 45-49	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054	Numbers people Exposed to Lnight 50-54	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight5559	Numbers people Exposed to Lnight 55-59	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064	Numbers people Exposed to Lnight 60-64	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569	Numbers people Exposed to Lnight 65-69	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70	Numbers people Exposed to Lnight >70	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight >70 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4044WithSpecialInsulation	Numbers Exposed to Lnight 40-44 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 40-44 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549WithSpecialInsulation	Numbers Exposed to Lnight 45-49 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight5054WithSpecialInsulation	Numbers Exposed to Lnight 50-54 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559WithSpecialInsulation	Numbers Exposed to Lnight 55-59 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064WithSpecialInsulation	Numbers Exposed to Lnight 60-64 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569WithSpecialInsulation	Numbers Exposed to Lnight 65-69 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70WithSpecialInsulation	Numbers Exposed to Lnight >70 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight >70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4044WithAQuietFaçade	Numbers Exposed to Lnight 40-44 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 40-44 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight4549WithAQuietF acade	Numbers Exposed to Lnight 45-49 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054WithAQuietF acade	Numbers Exposed to Lnight 50-54 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559WithAQuietF acade	Numbers Exposed to Lnight 55-59 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064WithAQuietF acade	Numbers Exposed to Lnight 60-64 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569WithAQuietF acade	Numbers Exposed to Lnight 65-69 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70WithAQuietFac ade	Numbers Exposed to Lnight >70 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between >70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

ComputationAndMeasurementMethodsReportDetails	Computation and measurement methods report details	The full name of the report, the author/publisher and date of production.	c	An electronic copy of the report submitted to the EC.	String	Minimum size: 1 Maximum size: 255
ComputationMethodName	Name of the computation method	Short name of the computation method used to made the calculations	nc	Name of the computation method	String	Minimum size: 1 Maximum size: 255

4.1.3 Number of people exposed considering all noise sources in an agglomeration

Information should be provided in the worksheet named as DF_4_8_Agg_ALL. This worksheet only needs to be completed on voluntary basis, and it is designed to contain information for the global assessment of noise exposure in a given area due to different noise sources or for overall predictions for such an area.

Field Identifier	Field Name	Field Definition	Compulsory (c) / not compulsory (nc)	Methodology	Data type	Units
UniqueAgglomerationId	Unique Agglomeration ID	Unique Agglomeration ID assigned by the reporting entity to each agglomeration.	nc	The same code as defined in DF_1_5_Agg	String	Minimum size: 6 Maximum size: 14
Lden5054	Numbers people Exposed to Lden 50-54	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559	Numbers people Exposed to Lden 55-59	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden6064	Numbers people Exposed to Lden 60-64	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6569	Numbers people Exposed to Lden 65-69	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden7074	Numbers people Exposed to Lden 70-74	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75	Numbers people Exposed to Lden >75	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden >75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4044	Numbers people Exposed to Lnight 40-44	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 40-44 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549	Numbers people Exposed to Lnight 45-49	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054	Numbers people Exposed to Lnight 50-54	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight5559	Numbers people Exposed to Lnight 55-59	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064	Numbers people Exposed to Lnight 60-64	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569	Numbers people Exposed to Lnight 65-69	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70	Numbers people Exposed to Lnight >70	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight >70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
ComputationMethodName	Name of the computation method	Short name of the computation method used to made the calculations	nc	Name of the computation method	String	Minimum size: 1 Maximum size: 255

Some recommendations regarding the production of overall exposure data can be found in the position paper issued by WG-AEN on “Presenting Noise Mapping Information to the Public”, March 2008.

It is important for the EC and EEA that if you provide this information, it would be relevant to accompany it with a supplementary report specifying which method has been chosen and the reasons for using that method. It is also important to report the institution or person that has developed this exercise.

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

Information should be provided in the corresponding worksheet named as DF_4_8_MRoad and is referred to the number of people exposed outside agglomerations, except where it is explicitly stated.

Field Identifier	Field Name	Field Definition	Compulsory (c) / not compulsory (nc)	Methodology	Data type	Units
ReportingEntityUniqueCode	Reporting Entity Unique Code	A single character Unique code assigned by the Member State to each Reporting Entity.	nc	The same code as defined in DF0_MRoad	String	Minimum size: 1 Maximum size: 1 Minimum value: a Maximum value: z
UniqueRoadIdForCalculation	Unique Road ID for Calculation	List of Unique Road ID that have been used for the calculation of the number of people exposed.	nc	List of Unique Road ID separated by a comma.	String	
Lden5054	Numbers people Exposed to Lden 50-54	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559	Numbers people Exposed to Lden 55-59	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064	Numbers people Exposed to Lden 60-64	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

		exposed façade				
Lden6569	Numbers people Exposed to Lden 65-69	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden7074	Numbers people Exposed to Lden 70-74	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75	Numbers people Exposed to Lden >75	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden >75 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5054WithSpecialInsulation	Numbers Exposed to Lden 50-54 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559WithSpecialInsulation	Numbers Exposed to Lden 55-59 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

		exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade				
Lden6064WithSpecialInsulation	Numbers Exposed to Lden 60-64 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6569WithSpecialInsulation	Numbers Exposed to Lden 65-69 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden7074WithSpecialInsulation	Numbers Exposed to Lden 70-74 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75WithSpecialInsulation	Numbers Exposed to Lden >75 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden >75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden5054WithAQuietFaçade	Numbers Exposed to Lden 50-54 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559WithAQuietFaçade	Numbers Exposed to Lden 55-59 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064WithAQuietFaçade	Numbers Exposed to Lden 60-64 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6569WithAQuietFaçade	Numbers Exposed to Lden 65-69 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden7074WithAQuietFaçade	Numbers Exposed to Lden 70-74 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

		between 70-74 dB(A), 4 m above the ground and on the most exposed façade				
Lden75WithAQuietFacade	Numbers Exposed to Lden >75 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden >75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549	Numbers people Exposed to Lnight 45-49	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054	Numbers people Exposed to Lnight 50-54	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559	Numbers people Exposed to Lnight 55-59	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064	Numbers people Exposed to Lnight 60-64	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

		between 60-64 dB(A), 4 m above the ground and on the most exposed façade				
Lnight6569	Numbers people Exposed to Lnight 65-69	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70	Numbers people Exposed to Lnight >70	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight >70 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549WithSpecialInsulation	Numbers Exposed to Lnight 45-49 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054WithSpecialInsulation	Numbers Exposed to Lnight 50-54 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559WithSpecialInsulation	Numbers Exposed to Lnight 55-59 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

		have special insulation, that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade				
Lnight6064WithSpecialInsulation	Numbers Exposed to Lnight 60-64 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569WithSpecialInsulation	Numbers Exposed to Lnight 65-69 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70WithSpecialInsulation	Numbers Exposed to Lnight >70 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation, that are exposed to values of Lnight >70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549WithAQuietFaçade	Numbers Exposed to Lnight 45-49 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight5054WithAQuietFaçade	Numbers Exposed to Lnight 50-54 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559WithAQuietFaçade	Numbers Exposed to Lnight 55-59 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064WithAQuietFaçade	Numbers Exposed to Lnight 60-64 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569WithAQuietFaçade	Numbers Exposed to Lnight 65-69 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70WithAQuietFaçade	Numbers Exposed to Lnight >70 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

		between >70 dB(A), 4 m above the ground and on the most exposed façade				
AreaExposedToLden55IncludingAgglomerations	Area (km ²) exposed to Lden > 55 (including agglomerations)	The estimated total area (in km ²) exposed to values of Lden higher than 55 dB. The area must include agglomerations.	c		Float	Minimum size: 0 Unit: km ²
AreaExposedToLden65IncludingAgglomerations	Area (km ²) exposed to Lden > 65 (including agglomerations)	The estimated total area (in km ²) exposed to values of Lden higher than 65 dB. The area must include agglomerations.	c		Float	Minimum size: 0 Unit: km ²
AreaExposedToLden75IncludingAgglomerations	Area (km ²) exposed to Lden > 75 (including agglomerations)	The estimated total area (in km ²) exposed to values of Lden higher than 75 dB. The area must include agglomerations.	c		Float	Minimum size: 0 Unit: km ²
Lden55IncludingAgglomerations	Numbers of people exposed to Lden > 55 (including agglomerations)	The estimated total number of people (rounded to the nearest hundred) exposed to values of Lden higher than 55 dB. The number of people must include agglomerations.	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden65IncludingAgglomerations	Numbers of people exposed to Lden > 65 (including agglomerations)	The estimated total number of people (rounded to the nearest hundred) exposed to values of Lden higher than 65 dB. The number of people must include agglomerations.	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75IncludingAgglomerations	Numbers of people exposed to Lden > 75 (including agglomerations)	The estimated total number of people (rounded to the nearest hundred) exposed to values of Lden higher than 75 dB. The number of people must include agglomerations.	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
DwellingsExposedToLden55IncludingAgglomerations	Dwellings exposed to Lden > 55 (including agglomerations)	The estimated total number of dwellings (rounded to the nearest hundred) exposed to values of Lden higher than 55 dB. The number of dwellings must include agglomerations.	c	The number of dwellings, rounded to the nearest hundred (for example 77,598 in this case is equivalent to 77600).	Integer	Number of people
DwellingsExposedToLden65IncludingAgglomerations	Dwellings exposed to Lden > 65 (including agglomerations)	The estimated total number of dwellings (rounded to the nearest hundred) exposed to values of Lden higher than 65 dB. The number of dwellings must include agglomerations.	c	The number of dwellings, rounded to the nearest hundred (for example 77,598 in this case is equivalent to 77600).	Integer	Number of people

DwellingsExposedToLden75IncludingAgglomerations	Dwellings exposed to Lden > 75 (including agglomerations)	The estimated total number of dwellings (rounded to the nearest hundred) exposed to values of Lden higher than 75 dB. The number of dwellings must include agglomerations.	c	The number of dwellings, rounded to the nearest hundred (for example 77,598 in this case is equivalent to 77600).	Integer	Number of people
ReferenceToMaps	Reference to Maps	The map title, the author/publisher and date of production.	nc	An electronic copy of the maps submitted to the EC.	String	Minimum size: 1 Maximum size: 255
ComputationAndMeasurementMethodsReportDetails	Computation and measurement methods report details	The full name of the report, the author/publisher and date of production.	c	An electronic copy of the report submitted to the EC.	String	Minimum size: 1 Maximum size: 255
ComputationMethodName	Name of the computation method	Short name of the computation method used to made the calculations	nc	Name of the computation method	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 corresponding worksheet named as DF_4_8_MRail, and is referred to the number of people exposed outside agglomerations, except where it is explicitly stated.

Field Identifier	Field Name	Field Definition	Compulsory (c) / not compulsory (nc)	Methodology	Data type	Units
ReportingEntityUniqueCode	Reporting Entity Unique Code	A single character Unique code assigned by the Member State to each Reporting Entity.	nc	The same code as defined in DF0_MRail	String	Minimum size: 1 Maximum size: 1 Minimum value: a Maximum value: z
UniqueRailIdForCalculation	Unique Rail ID for Calculation	List of Unique Rail ID that have been used for the calculation of the number of people exposed.	nc	List of Unique Rail ID separated by a comma	String	
Lden5054	Numbers people Exposed to Lden 50-54	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

		between 50-54 dB(A), 4 m above the ground and on the most exposed façade				
Lden5559	Numbers people Exposed to Lden 55-59	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064	Numbers people Exposed to Lden 60-64	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6569	Numbers people Exposed to Lden 65-69	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden7074	Numbers people Exposed to Lden 70-74	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75	Numbers people Exposed to Lden >75	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden >75 dB(A), 4 m above the ground and	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

		on the most exposed façade				
Lden5054WithSpecialInsulation	Numbers Exposed to Lden 50-54 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559WithSpecialInsulation	Numbers Exposed to Lden 55-59 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064WithSpecialInsulation	Numbers Exposed to Lden 60-64 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6569WithSpecialInsulation	Numbers Exposed to Lden 65-69 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden7074WithSpecialInsulation	Numbers Exposed to Lden 70-74 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75WithSpecialInsulation	Numbers Exposed to Lden >75 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden >75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5054WithAQuietFaçade	Numbers Exposed to Lden 50-54 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559WithAQuietFaçade	Numbers Exposed to Lden 55-59 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064WithAQuietFaçade	Numbers Exposed to Lden 60-64 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 60-64 dB(A), 4 m above	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

		the ground and on the most exposed façade				
Lden6569WithAQuietFaçade	Numbers Exposed to Lden 65-69 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden7074WithAQuietFaçade	Numbers Exposed to Lden 70-74 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75WithAQuietFaçade	Numbers Exposed to Lden >75 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden >75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549	Numbers people Exposed to Lnight 45-49	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054	Numbers people Exposed to Lnight 50-54	The estimated total number of people (rounded to the nearest hundred) living outside	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is	Integer	Number of people

		agglomerations in dwellings that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade		equivalent to 159400).		
Lnight5559	Numbers people Exposed to Lnight 55-59	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064	Numbers people Exposed to Lnight 60-64	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569	Numbers people Exposed to Lnight 65-69	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70	Numbers people Exposed to Lnight >70	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight >70 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549WithSpecialInsulation	Numbers Exposed to Lnight 45-49 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation, that are exposed to values of Lnight	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

		between 45-49 dB(A), 4 m above the ground and on the most exposed façade				
Lnight5054WithSpecialInsulation	Numbers Exposed to Lnight 50-54 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559WithSpecialInsulation	Numbers Exposed to Lnight 55-59 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064WithSpecialInsulation	Numbers Exposed to Lnight 60-64 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569WithSpecialInsulation	Numbers Exposed to Lnight 65-69 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight70WithSpecialInsulation	Numbers Exposed to Lnight >70 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation, that are exposed to values of Lnight >70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549WithAQuietFaçade	Numbers Exposed to Lnight 45-49 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054WithAQuietFaçade	Numbers Exposed to Lnight 50-54 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559WithAQuietFaçade	Numbers Exposed to Lnight 55-59 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064WithAQuietFaçade	Numbers Exposed to Lnight 60-64 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 60-64 dB(A), 4 m above	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

		the ground and on the most exposed façade				
Lnight6569WithAQuietFaca de	Numbers Exposed to Lnight 65-69 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70WithAQuietFacade	Numbers Exposed to Lnight >70 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between >70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
AreaExposedToLden55Incl udingAgglomerations	Area (km2) exposed to Lden > 55 (including agglomerations)	The estimated total area (in km ²) exposed to values of Lden higher than 55 dB. The area must include agglomerations.	c		Float	Minimum size: 0 Unit: km ²
AreaExposedToLden65Incl udingAgglomerations	Area (km2) exposed to Lden > 65 (including agglomerations)	The estimated total area (in km ²) exposed to values of Lden higher than 65 dB. The area must include agglomerations.	c		Float	Minimum size: 0 Unit: km ²
AreaExposedToLden75Incl udingAgglomerations	Area (km2) exposed to Lden > 75 (including agglomerations)	The estimated total area (in km ²) exposed to values of Lden higher than 75 dB. The area must include agglomerations.	c		Float	Minimum size: 0 Unit: km ²
Lden55IncludingAgglomera tions	Numbers of people exposed to Lden > 55 (including agglomerations)	The estimated total number of people (rounded to the nearest hundred) exposed to values of Lden higher than 55 dB. The number of people must include agglomerations.	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden65IncludingAgglomera tions	Numbers of people exposed to Lden > 65 (including	The estimated total number of people (rounded to the nearest hundred) exposed to values of Lden higher than	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent	Integer	Number of people

	agglomerations)	65 dB. The number of people must include agglomerations.		to 159400).		
Lden75IncludingAgglomerations	Numbers of people exposed to Lden > 75 (including agglomerations)	The estimated total number of people (rounded to the nearest hundred) exposed to values of Lden higher than 75 dB. The number of people must include agglomerations.	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
DwellingsExposedToLden55IncludingAgglomerations	Dwellings exposed to Lden > 55 (including agglomerations)	The estimated total number of dwellings (rounded to the nearest hundred) exposed to values of Lden higher than 55 dB. The number of dwellings must include agglomerations.	c	The number of dwellings, rounded to the nearest hundred (for example 77,598 in this case is equivalent to 77600).	Integer	Number of people
DwellingsExposedToLden65IncludingAgglomerations	Dwellings exposed to Lden > 65 (including agglomerations)	The estimated total number of dwellings (rounded to the nearest hundred) exposed to values of Lden higher than 65 dB. The number of dwellings must include agglomerations.	c	The number of dwellings, rounded to the nearest hundred (for example 77,598 in this case is equivalent to 77600).	Integer	Number of people
DwellingsExposedToLden75IncludingAgglomerations	Dwellings exposed to Lden > 75 (including agglomerations)	The estimated total number of dwellings (rounded to the nearest hundred) exposed to values of Lden higher than 75 dB. The number of dwellings must include agglomerations.	c	The number of dwellings, rounded to the nearest hundred (for example 77,598 in this case is equivalent to 77600).	Integer	Number of people
ReferenceToMaps	Reference to Maps	The map title, the author/publisher and date of production.	nc	An electronic copy of the maps submitted to the EC.	String	Minimum size: 1 Maximum size: 255
ComputationAndMeasurementMethodsReportDetails	Computation and measurement methods report details	The full name of the report, the author/publisher and date of production.	c	An electronic copy of the report submitted to the EC.	String	Minimum size: 1 Maximum size: 255
ComputationMethodName	Name of the computation method	Short name of the computation method used to made the calculations	nc	Name of the computation method	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 worksheet named as DF_4_8_MAir, which contain the following data requests:

Field Identifier	Field Name	Field Definition	Compulsory (c) / not compulsory (nc)	Methodology	Data type	Units
IcaoCode	ICAO Code	The airport code defined by the International Civil Aviation Organization	nc	The same code as defined in DF_1_5_MAir	String	Minimum size: 4 Maximum size: 4
Lden5054	Numbers people Exposed to Lden 50-54	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559	Numbers people Exposed to Lden 55-59	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064	Numbers people Exposed to Lden 60-64	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6569	Numbers people Exposed to Lden 65-69	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden7074	Numbers people Exposed to Lden 70-74	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75	Numbers people Exposed to Lden >75	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden >75 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5054WithSpecialInsulation	Numbers Exposed to Lden 50-54 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559WithSpecialInsulation	Numbers Exposed to Lden 55-59 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064WithSpecialInsulation	Numbers Exposed to Lden 60-64 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6569WithSpecialInsulation	Numbers Exposed to Lden 65-69 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden7074WithSpecialInsulation	Numbers Exposed to Lden 70-74 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden75WithSpecial Insulation	Numbers Exposed to Lden >75 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden >75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5054WithAQuietFaçade	Numbers Exposed to Lden 50-54 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559WithAQuietFaçade	Numbers Exposed to Lden 55-59 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064WithAQuietFaçade	Numbers Exposed to Lden 60-64 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6569WithAQuietFaçade	Numbers Exposed to Lden 65-69 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden7074WithAQuietFaçade	Numbers Exposed to Lden 70-74 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75WithAQuiet Façade	Numbers Exposed to Lden >75 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden >75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight4549	Numbers people Exposed to Lnight 45-49	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054	Numbers people Exposed to Lnight 50-54	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559	Numbers people Exposed to Lnight 55-59	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064	Numbers people Exposed to Lnight 60-64	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569	Numbers people Exposed to Lnight 65-69	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70	Numbers people Exposed to Lnight >70	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight >70 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549WithSpecialInsulation	Numbers Exposed to Lnight 45-49 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054WithSpecialInsulation	Numbers Exposed to Lnight 50-54 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

		and on the most exposed façade				
Lnight5559WithSpecialInsulation	Numbers Exposed to Lnight 55-59 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064WithSpecialInsulation	Numbers Exposed to Lnight 60-64 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569WithSpecialInsulation	Numbers Exposed to Lnight 65-69 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70WithSpecialInsulation	Numbers Exposed to Lnight >70 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation, that are exposed to values of Lnight >70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549WithAQuietFaçade	Numbers Exposed to Lnight 45-49 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054WithAQuietFaçade	Numbers Exposed to Lnight 50-54 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559WithAQuietFaçade	Numbers Exposed to Lnight 55-59 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

		the most exposed façade				
Lnight6064WithAQ uietFacade	Numbers Exposed to Lnight 60-64 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569WithAQ uietFacade	Numbers Exposed to Lnight 65-69 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70WithAQ tFacade	Numbers Exposed to Lnight >70 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between >70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
AreaExposedToLde n55IncludingAgglo merations	Area (km ²) exposed to Lden > 55 (including agglomerations)	The estimated total area (in km ²) exposed to values of Lden higher than 55 dB. The area must include agglomerations.	c		Float	Minimum size: 0 Unit: km ²
AreaExposedToLde n65IncludingAgglo merations	Area (km ²) exposed to Lden > 65 (including agglomerations)	The estimated total area (in km ²) exposed to values of Lden higher than 65 dB. The area must include agglomerations.	c		Float	Minimum size: 0 Unit: km ²
AreaExposedToLde n75IncludingAgglo merations	Area (km ²) exposed to Lden > 75 (including agglomerations)	The estimated total area (in km ²) exposed to values of Lden higher than 75 dB. The area must include agglomerations.	c		Float	Minimum size: 0 Unit: km ²
Lden55IncludingAg glomerations	Numbers of people exposed to Lden > 55 (including agglomerations)	The estimated total number of people (rounded to the nearest hundred) exposed to values of Lden higher than 55 dB. The number of people must include agglomerations.	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden65IncludingAg glomerations	Numbers of people exposed to Lden > 65 (including agglomerations)	The estimated total number of people (rounded to the nearest hundred) exposed to values of Lden higher than 65 dB. The number of people must include agglomerations.	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75IncludingAg glomerations	Numbers of people exposed to Lden > 75 (including agglomerations)	The estimated total number of people (rounded to the nearest hundred) exposed to values of Lden higher than 75 dB. The number of people must include agglomerations.	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

DwellingsExposedToLden55IncludingAgglomerations	Dwellings exposed to Lden > 55 (including agglomerations)	The estimated total number of dwellings (rounded to the nearest hundred) exposed to values of Lden higher than 55 dB. The number of dwellings must include agglomerations.	c	The number of dwellings, rounded to the nearest hundred (for example 77,598 in this case is equivalent to 77600).	Integer	Number of people
DwellingsExposedToLden65IncludingAgglomerations	Dwellings exposed to Lden > 65 (including agglomerations)	The estimated total number of dwellings (rounded to the nearest hundred) exposed to values of Lden higher than 65 dB. The number of dwellings must include agglomerations.	c	The number of dwellings, rounded to the nearest hundred (for example 77,598 in this case is equivalent to 77600).	Integer	Number of people
DwellingsExposedToLden75IncludingAgglomerations	Dwellings exposed to Lden > 75 (including agglomerations)	The estimated total number of dwellings (rounded to the nearest hundred) exposed to values of Lden higher than 75 dB. The number of dwellings must include agglomerations.	c	The number of dwellings, rounded to the nearest hundred (for example 77,598 in this case is equivalent to 77600).	Integer	Number of people
ReferenceToMaps	Reference to Maps	The map title, the author/publisher and date of production.	nc	An electronic copy of the maps submitted to the EC.	String	Minimum size: 1 Maximum size: 255
ComputationAndMeasurementMethodsReportDetails	Computation and measurement methods report details	The full name of the report, the author/publisher and date of production.	c	An electronic copy of the report submitted to the EC.	String	Minimum size: 1 Maximum size: 255
ComputationMethodName	Name of the computation method	Short name of the computation method used to made the calculations	nc	Name of the computation method	String	Minimum size: 1 Maximum size: 255

5 SPATIAL INFORMATION EXPECTED TO BE PROVIDED

Two different types of information are expected to be delivered in spatial format:

- Noise contour maps for major roads, major railways, major airports and inside agglomerations, noise contour maps per each noise source (in the case of agglomerations, it is not legally mandatory by the END but highly recommended)
- Quiet areas inside and outside agglomerations

It is not specifically indicated in the END that this information should be provided through spatial files, although it is highly recommended by the EC and by the EEA; in order to facilitate the quality check of the data reported and the inclusion of the information into the European noise database.

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.

5.1 NOISE CONTOUR MAPS

Noise contour maps consist on a crucial part of the delivery corresponding to strategic noise maps, and should consist on the isophones resulting for the noise maps calculations for the different indicators specified in the END¹: **L_{den} and L_{night}**.

Although noise contour maps can be delivered in any suitable format to display a map, the preferred ones are shapefiles or Arc/Info Ascii grid (detailed descriptions can be found below). Both formats would also serve the purpose of being able to develop further analysis at EU level, include this information into the European noise database, and display it, among other platforms, into NOISE, etc.

Basic demands concerning the spatial data to be provided:

1. Preferred GIS format: **SHAPEFILES² or ARC/INFO ASCII GRID³**
 - 1.1. In case of delivering shapefiles, it is expected to receive the information corresponding to the different noise bands delimited by the isophones in **POLYGONS** or in **LINES**.
2. Coordinate system and projection: **ETRS89 - LAEA52** (if another coordinate system is used, it should be specified in the metadata file in order to process the data provided).

Most maps in EEA reports are presented in the following Coordinate Reference System (CRS):

Coordinate reference system	EPSG code	Name and definition	Types of coordinates	Datum
ETRS-LAEA	3035	Lambert Azimuthal Equal Area 5210 Latitude of origin: 52 N Longitude of origin (central meridian): 10 E	Map projection in meters	ETRS89

¹ The END does not specify that the contour maps for major roads, major railways and major airports should be provided solely for the indicator L_{den}, although the previous paragraph of the point 2.7 solely refers to this indicator. However, it has been decided to allow the delivery of noise contours per L_{den} and L_{night} and both will be published in NOISE.

² Preferred format is shapefile because (1) major GIS software packages and all the open source desktop GIS support this format and (2) if can be considered an open format and a de facto standard.

What is referred to as a "shapefile" is actually a set of several files. Four individual files are mandatory to store the core data that comprises a shapefile ("

³ The ESRI ASCII raster format can be used to transfer information to or from other cell-based or raster systems. When an existing raster is output to an ESRI ASCII format raster, the file will begin with header information that defines the properties of the raster such as the cell size, the number of rows and columns, and the coordinates of the origin of the raster. The header information is followed by cell value information specified in space-delimited row-major order, with each row separated by a carriage return.

For the purpose of streamline the information of the used Coordinate Reference System (CRS) the EEA QC team recommends to state the EPSG-code instead of writing the full name and definition of the used CRS where it is possible. Lookup EPSG-codes: <http://www.epsg-registry.org/>.

Information expected to be received (in shapefiles or ARC/INFO ASCII GRID):

1. Noise contour maps for major roads: L_{den} and L_{night}
2. Noise contour maps for major railways: L_{den} and L_{night}
3. Noise contour maps for major airports: L_{den} and L_{night}
4. Road noise traffic inside agglomerations (on voluntary basis): L_{den} and L_{night}
5. Railway noise inside agglomerations (on voluntary basis): L_{den} and L_{night}
6. Aircraft noise inside agglomerations (on voluntary basis): L_{den} and L_{night}
7. Industrial noise inside agglomerations (on voluntary basis): L_{den} and L_{night}
8. All environmental noise sources specified in the END inside agglomerations (on voluntary basis): L_{den} and L_{night}

All these spatial information files can also be delivered in a structured geodatabase, but this is up to each country and the contents should be clearly explained in the metadata file, in this case.

Naming conventions to upload those files in the corresponding folder of Reportnet are detailed in chapter 8.2 of the current annex.

5.1.1 Noise contour maps in shapefile format

5.1.1.1 Noise contour maps for major roads

The END specifies that “the 55 and 65 dB contours must also be shown on one or more maps that give information on the location of villages, towns and agglomerations within those contours”.

Details for the 2 shapefiles to be reported:

Indicator	L_{den}	L_{night}
Name of the shapefile⁴	[CountryCode]_[RepEntUnCode]_Mroad_Lden	[CountryCode]_[RepEntUnCode]_Mroad_Lnight
Noise bands represented by polygons (in dB)	Requested by the END (legal obligation): > 55-65 > 65	Voluntary: more detailed division of the noise bands: 50-54 55-59 60-64 65-69 70-74 >=75
Attribute table	<ul style="list-style-type: none"> - CountryCode (CTRYID) - ReportingEntityUniqueCode (RepEntUnCD) - DB LOW: integer - DB HIGH: integer <p>* In case the information is provided in LINES; only the attribute DB LOW is needed.</p>	<ul style="list-style-type: none"> - CountryCode (CTRYID) - ReportingEntityUniqueCode (RepEntUnCD) - DB LOW: integer - DB HIGH: integer <p>* In case the information is provided in LINES; only the attribute DB LOW is needed.</p>

⁴ More details concerning naming conventions for spatial files can be found in section 8.2.1

Each shapefile should be accompanied with the corresponding metadata. More information on metadata for spatial files is detailed in section 7.2.

5.1.1.2 Noise contour maps for major railways

The END specifies that “the 55 and 65 dB contours must also be shown on one or more maps that give information on the location of villages, towns and agglomerations within those contours”.

Details for the 2 shapefiles to be reported:

Indicator	L _{den}	L _{night}
Name of the shapefile⁵	[CountryCode]_[RepEntUnCode]_Mrail_Lden	[CountryCode]_[RepEntUnCode]_Mra il_Lnight
Noise bands represented by polygons (in dB)	Requested by the END (legal obligation): > 55-65 > 65	Voluntary: more detailed division of the noise bands: 50-54 55-59 60-64 65-69 70-74 >=75
Attribute table	<ul style="list-style-type: none"> - CountryCode (CTRYID) - ReportingEntityUniqueCode (RepEntUnCD) - DB LOW: integer - DB HIGH: integer <p>* In case the information is provided in LINES; only the attribute DB LOW is needed.</p>	<ul style="list-style-type: none"> - CountryCode (CTRYID) - ReportingEntityUniqueCode (RepEntUnCD) - DB LOW: integer - DB HIGH: integer <p>* In case the information is provided in LINES; only the attribute DB LOW is needed.</p>

Each shapefile should be accompanied with the corresponding metadata. More information on metadata for spatial files is detailed in section 7.2.

5.1.1.3 Noise contour maps for major airports

The END specifies that “the 55 and 65 dB contours must also be shown on one or more maps that give information on the location of villages, towns and agglomerations within those contours”.

Details for the 2 shapefiles to be reported:

Indicator	L _{den}	L _{night}
Name of the shapefile⁶	[CountryCode]_[RepEntUnCode]_[ICAO code]_Mair_Lden	[CountryCode]_[RepEntUnCode]_[ICAO code]_Mair_Lnight
Noise bands represented by polygons (in dB)	Requested by the END (legal obligation): > 55-65 > 65	Voluntary: more detailed division of the noise bands: 50-54 55-59

⁵ More details concerning naming conventions for spatial files can be found in section 8.2.1

⁶ More details concerning naming conventions for spatial files can be found in section 8.2.1

	60-64 65-69 70-74 >=75	65-69 >=70
Attribute table	<ul style="list-style-type: none"> - CountryCode (CTRYID) - ICAO code - DB LOW: integer - DB HIGH: integer <p>* In case the information is provided in LINES; only the attribute DB LOW is needed.</p>	<ul style="list-style-type: none"> - CountryCode (CTRYID) - ICAO code - DB LOW: integer - DB HIGH: integer <p>* In case the information is provided in LINES; only the attribute DB LOW is needed.</p>

Each shapefile should be accompanied with the corresponding metadata. More information on metadata for spatial files is detailed in section 7.2.

5.1.1.4 Noise contour maps for agglomerations

Noise contour maps in spatial format containing the isophones that has been used for the calculations of the strategic noise maps inside agglomerations are not compulsory to be provided, but highly recommended.

END specifies in section 1.7 of Annex VI that “In case of graphical presentation, strategic maps must at least show the 60, 65, 70 and 75 dB contours”

As in the previous cases, it is recommended to provide this information as a polygon vector data in a SHAPEFILE format.

Details of the 10 shapefiles that could be provided:

Noise source	Indicator	Name of the shapefile⁷	Noise bands represented by polygons (in dB)	Attribute table (*)
Roads	L _{den}	[UniqueAgglomerationID] _Aggroad_Lden	Requested by the END (legal obligation): 60-64 65-69 70-74 > =75 Voluntary: more detailed division of the noise bands: 50-54 55-59 60-64 65-69 70-74 >=75	<ul style="list-style-type: none"> - CountryCode (CTRYID) - UniqueAgglID (UnAgglID) code - DB LOW: integer - DB HIGH: integer
	L _{night}	[UniqueAgglomerationID] _Aggroad_Lnight	Voluntary: 40-44 45-49 50-54	<ul style="list-style-type: none"> - CountryCode (CTRYID) - UniqueAgglID (UnAgglID) code

⁷ More details concerning naming conventions for spatial files can be found in section 8.2.1

			55-59 60-64 65-69 >=70	<ul style="list-style-type: none"> - DB LOW: integer - DB HIGH: integer
Railways	L _{den}	[UniqueAgglomerationID] _Aggrail_Lden	<p>Requested by the END (legal obligation):</p> <p>60-64 65-69 70-74 > =75</p> <hr style="border-top: 1px dashed black;"/> <p>Voluntary: more detailed division of the noise bands:</p> <p>50-54 55-59 60-64 65-69 70-74 > =75</p>	<ul style="list-style-type: none"> - CountryCode (CTRYID) - UniqueAgglID (UnAgglID) code - DB LOW: integer - DB HIGH: integer
	L _{night}	[UniqueAgglomerationID] _Aggrail_Lnight	<p>Voluntary:</p> <p>40-44 45-49 50-54 55-59 60-64 65-69 > =70</p>	<ul style="list-style-type: none"> - CountryCode (CTRYID) - UniqueAgglID (UnAgglID) code - DB LOW: integer - DB HIGH: integer
Airports	L _{den}	[UniqueAgglomerationID] _Aggair_Lden	<p>Requested by the END (legal obligation):</p> <p>60-64 65-69 70-74 > =75</p> <hr style="border-top: 1px dashed black;"/> <p>Voluntary: more detailed division of the noise bands:</p> <p>50-54 55-59 60-64 65-69 70-74 > =75</p>	<ul style="list-style-type: none"> - CountryCode (CTRYID) - UniqueAgglID (UnAgglID) code - DB LOW: integer - DB HIGH: integer
	L _{night}	[UniqueAgglomerationID] _Aggair_Lnight	<p>Voluntary:</p> <p>40-44 45-49 50-54 55-59 60-64 65-69</p>	<ul style="list-style-type: none"> - CountryCode (CTRYID) - UniqueAgglID (UnAgglID) code - DB LOW: integer - DB HIGH: integer

			>=70	
Industry	L _{den}	[UniqueAgglomerationID] _Aggind_Lden	Requested by the END (legal obligation): 60-64 65-69 70-74 > =75 Voluntary: more detailed division of the noise bands: 50-54 55-59 60-64 65-69 70-74 >=75	- CountryCode (CTRYID) - UniqueAgglID (UnAggID) code - DB LOW: integer - DB HIGH: integer
	L _{night}	[UniqueAgglomerationID] _Aggair_Lnight	Voluntary: 40-44 45-49 50-54 55-59 60-64 65-69 >=70	- CountryCode (CTRYID) - UniqueAgglID (UnAggID) code - DB LOW: integer - DB HIGH: integer
All sources	L _{den}	[UniqueAgglomerationID] _Aggall_Lden	Voluntary: more detailed division of the noise bands: 50-54 55-59 60-64 65-69 70-74 >=75	- CountryCode (CTRYID) - UniqueAgglID (UnAggID) code - DB LOW: integer - DB HIGH: integer
	L _{night}	[UniqueAgglomerationID] _Aggall_Lnight	Voluntary: 40-44 45-49 50-54 55-59 60-64 65-69 >=70	- CountryCode (CTRYID) - UniqueAgglID (UnAggID) code - DB LOW: integer - DB HIGH: integer

(*) In case the information is provided in LINES; only the attribute DB LOW is needed.

Each shapefile should be accompanied with the corresponding metadata. More information on metadata for spatial files is detailed in section 7.2.

5.1.2 Noise contour maps in raster dataset.

A raster dataset is a “spatial data model that defines space as an array of equally sized cells arranged in rows and columns, and composed of single or multiple bands. Each cell contains an attribute value and location coordinates. There are three recommended formats for raster datasets delivery.

An Esri grid is a raster GIS file format developed by Esri, which has two formats:

1. A proprietary binary format, also known as an ARC/INFO GRID.
2. A non-proprietary ASCII format, also known as an ARC/INFO ASCII GRID

The formats were introduced for ARC/INFO. The binary format is widely used within Esri programs, such as ArcGIS, while the ASCII format is used as an exchange, or export format, due to the simple and portable ASCII file structure. Most of noise modeling programs can export the results of the analysis in this format.

In the Esri ASCII grid format the header section defines the reference of the grid. The data section contains the values listed in the order they would naturally appear. An advantage for this text format is its high compression ratio. The file extension is usually .txt.

```
ncols      2151
nrows      2152
xllcorner  3541205
yllcorner  5792285
cellsize   10
NODATA_value -9999

-9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -
9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -
9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -
9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -
9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -
9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -
73 76 80 78 79 75 73 71 69 68 67 65 62 62 60 56 55 58 57 56 57
53 53 54 55 55 54 54 54 55 54 54 53 50 49 50 49 50 51 50 51 51
50 51 51 51 51 51 49 50 53 54 54 54 55 57 56 58 59 60 51 66 69
53 49 50 50 48 50 51 50 50 49 50 50 51 52 52 52 51 51 52 52 52
51 51 51 51 51 51 51 51 51 51 51 51 51 51 51 51 51 52 51 52 51
65 60 57 56 54 48 50 50 51 51 51 49 50 50 50 50 50 50 50 50 50
```

Header section

Data section

The data component of the ESRI ASCII raster follows the header information.

- Cell values should be delimited by spaces (in dB)
- No carriage returns are necessary at the end of each row in the raster. The number of columns in the header determines when a new row begins.
- Row 1 of the data is at the top of the raster, row 2 is just under row 1, and so on.

3. Another format for for raster datasets delivery is GeoTIFF (Geographic Tagged Image File Format).

The GeoTIFF has become an industry image standard file for GIS and satellite remote sensing applications. All GIS and image processing software packages have GeoTIFF compatibility. GeoTIFFs get the file extension TIF and may be accompanied by other files:

- TFW: is a world file that gives the raster geolocation. As most GIS software store this information in the header of the TIF file, this world file is not often needed as a separate entity. Therefore, this file is optional.
- AUX: although the aux file can and does store projection and coordinate information, it also stores information that is NOT normally encoded in the header such as raster statistics, colour maps and pointers to the pyramids file (RRD). Nevertheless, this file is optional with regard to these guidelines.
- XML: it is the metadata file. It is mandatory to provide this file together with the GeoTIFF.
- RRD: it stands for "Reduced Resolution Dataset" and it stores a reduced dataset from an original raster image using pyramid layers, which speed up the display of raster maps. It is an optional file.

These formats are applicable to all noise sources that are listed below.

Noise contour maps for Major Roads, Major Railways, Major Airports		
Noise source	Indicator	Name of the ASCII Grid or TIF file
Major Roads	Lden	[CountryCode]_[RepEntUnCode]_Mroad_Lden
	Lnight	[CountryCode]_[RepEntUnCode]_Mroad_Lnight
Major Railways	Lden	[CountryCode]_[RepEntUnCode]_Mrail_Lden
	Lnight	[CountryCode]_[RepEntUnCode]_Mrail_Lnight
Major Airports	Lden	[CountryCode]_[RepEntUnCode]_[ICAOcode]_Mair_Lden
	Lnight	[CountryCode]_[RepEntUnCode]_[ICAOcode]_Mair_Lnight

Noise contour maps for agglomerations		
Noise source	Indicator	Name of the ASCII Grid or TIF file
Roads	Lden	[UniqueAgglomerationID]_Aggroad_Lden
	Lnight	[UniqueAgglomerationID]_Aggroad_Lnight
Railways	Lden	[UniqueAgglomerationID]_Aggrail_Lden
	Lnight	[UniqueAgglomerationID]_Aggrail_Lnight
Airports	Lden	[UniqueAgglomerationID]_Aggair_Lden
	Lnight	[UniqueAgglomerationID]_Aggair_Lnight
Industry	Lden	[UniqueAgglomerationID]_Aggind_Lden
	Lnight	[UniqueAgglomerationID]_Aggair_Lnight
All sources	Lden	[UniqueAgglomerationID]_Aggall_Lden
	Lnight	[UniqueAgglomerationID]_Aggall_Lnight

5.2 QUIET AREAS

The Environmental Noise Directive deals with quiet areas in:

- Article 3: Definitions, where it is defined:
 - o (l) "quiet area in an agglomeration" shall mean an area, delimited by the competent authority, for instance which is not exposed to a value of Lden or of another appropriate noise indicator greater than a certain value set by the Member State, from any noise source;
 - o (m) "quiet area in open country" shall mean an area, delimited by the competent authority, that is undisturbed by noise from traffic, industry or recreational activities;
- Article 11: Review and reporting, where in section 2 (C) is mentioned "the protection of quiet areas in open country"
- and in Annex V: Minimum requirements for action plans, where it is stated:
 - o actions which the competent authorities intend to take in the next five years, including any measures to preserve quiet areas,.

However, no clear demands on which data should be reported concerning quiet areas are provided and therefore, it is up to MS to report this information in following their preferred method, within this reporting obligation and / or within the reporting of noise action plans.

It is recommended that, for evaluation purposes and further analysis of the information provided, the delineation of the quiet areas (both, inside and outside agglomerations) would be delivered as:

- 1) Preferred format: **SHAPEFILES**⁸
- 2) Expected entities that will represent the noise contours: **POLYGONS** (limits of the polygon should correspond to the limits of the quiet area)
- 3) Coordinate system and projection: **ETRS89 - LAEA52** (if another coordinate system is used, it should be specified in the metadata file in order to process the data provided).

Most maps in EEA reports are presented in this CRS:

Coordinate reference system	EPSG code	Name and definition	Types of coordinates	Datum
ETRS-LAEA	3035	Lambert Azimuthal Equal Area 5210 Latitude of origin: 52 N Longitude of origin (central meridian): 10 E	Map projection in meters	ETRS89

For the purpose of streamline the information of the used Coordinate Reference System (CRS) the EEA QC team recommends to state the EPSG-code instead of writing the full name and definition of the used CRS where it is possible. Lookup EPSG-codes: <http://www.epsg-registry.org/>.

4) Attribute table: it is only expected a provision of a "definition code", as all the necessary information to understand how the quiet area has been delimited, the reference year, who has done it, etc. should appear in the metadata file of the shapefile with the definition code that can be found in the attributes table.

It is expected to receive one shapefile containing all the quiet areas for a single agglomeration (so, depending on the number of agglomerations present in one country, it will be expected X

⁸ Preferred format is shapefile because (1) major GIS software packages and all the open source desktop GIS support this format and (2) it can be considered an open format and a de facto standard.

What is referred to as a "shapefile" is actually a set of several files. Four individual files are mandatory to store the core data that comprises a shapefile (".shp", ".prj", ".dbf" and ".shx"; being the file name, which should be the same for all the files). If a country only provides a single file with the ".shp" extension, this file cannot be used for any purpose, as it is incomplete for distribution. The other three supporting files are required.

number of shapefiles) and another one reporting all quiet areas outside agglomerations, covering all the country (so it is expected that, all noise sources – Major roads, Major railways and Major airports – would be taken into account to delineate the quiet areas outside agglomerations reported). Partial reports could be provided, although the coverage should be specified in the metadata file accompanying the shapefiles.

Details of the shapefile that could be provided:

Name of the shapefile⁹	[CountryCode]_[ReportingEntityUniqueCode]_QAREA.[extension]
Attribute table	<ul style="list-style-type: none"> - CountryCode (CTRYID) - ReportingEntityUniqueCode (RepEntUnCD) - TypQArea. Possible values: <ul style="list-style-type: none"> - OC: if the quiet area is in open country - IN: if the quiet area is in an agglomeration - UnAggID code. Possible values: <ul style="list-style-type: none"> - "-1": if the quiet area is in open country - If the quiet area is inside an agglomeration, then provide the UniqueAgglomerationID (UnAggID).

⁹ More details concerning naming conventions for spatial files can be found in section 8.2.2

6 SUPPLEMENTARY INFORMATION

You can provide any other types of information that you think are relevant for consultation purposes (letters, clarification documents, 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 7.1).

7 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.

7.1 METADATA FOR TABULAR DATA TO COMPILE NOISE EXPOSURE

The metadata file should contain the following information:

- Title of the 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
- Census year of the population used for the calculations
- Year when the traffic flow has been determined
- Method used for the calculations (in the future, there will be only 2 options: Simple C-NOSSOS method and Detailed C-NOSSOS method, but for nowadays, it can also be specified Interim methods or any national method used)
- Constraints of the method
- Constraints of the data (e.g. major roads inside agglomerations not used in the calculations, how dwellings have been taken into account,...)

It is sufficient to supply the metadata files using any text file format (e.g. Microsoft WORD, .txt files, etc.) and they could follow the naming convention specified below:

[Name]_metadata.[extension]

Where:

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

7.2 METADATA FOR THE SPATIAL FILES CONTAINING NOISE CONTOUR MAPS

Metadata information that should be associated to each spatial file containing noise contour maps:

- Name of data: title of the data
- Description of data: Which is the content of the data and purpose of its creation
- Coordinate reference system
- Source and methodology – including version of specification on which the compilation is based
- 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

- Ownership: to whom the data belongs
- Use rights: if the data can be distributed worldwide, restrictions, possibility to use depending on the purpose,...

The EEA has developed a metadata standard for geodata. The standard – termed the European Environment Agency Metadata Standard for Geographic Information (EEA-MSGI) – is a profile of the ISO19115 standard for geographic metadata. EEA-MSGI is defined as a set of metadata for discovery and quick understanding of geographic data.¹⁰

EEA Metadata Editor (designed specifically for EEA-MSGI) has been developed using the ArcCatalog data explorer in the ArcGIS desktop v9.x software packages. The editor provides an easy way to edit and visualise metadata, but other software and programmes could be used in order to provide the metadata information.

EEA developed as well, a metadata information form in Microsoft – Word format; the latest version can be found at <http://www.eionet.europa.eu/gis>. In this case, the reporter needs to fill in the metadata form and validate the entries manually.

It is recommended to use the European Open Source Metadata Editor available at <http://inspire-geoportal.ec.europa.eu/editor/> .

7.3 METADATA FOR THE SPATIAL FILES CONTAINING QUIET AREAS

Metadata information that should be associated to each spatial file containing quiet areas:

- Name of data: title of the data
- Description of data: Which is the content of the data and purpose of its creation
- Coordinate reference system
- Source and methodology – including version of specification on which the compilation is based: Description on how the quiet areas delineation has been done (based on acoustics, leisure parks, etc.) and which data has been used for its creation.
- Reference year: in which year this information has been created and delivered / published
- Coverage: Quiet areas inside a specific agglomeration, covering the whole country, covering part of the country...
- Responsible organisation: Name of the organisation creating the data
- Contact person: Name of the contact person in the responsible organisation and contact details
- Ownership: to whom the data belongs
- User rights: if the data can be distributed worldwide, restrictions, possibility to use depending on the purpose, etc.

More information can be, nevertheless, provided if desired. If this is the case, it can be used the metadata standard for geodata developed by the EEA, and detailed in the previous section 7.2.

7.4 METADATA FOR THE SUPPLEMENTARY INFORMATION

Detailed information provided in section 6.

¹⁰ More information can be found in the report EEA GIS guide, that can be found in the webpage: <http://www.eionet.europa.eu/gis/>

8 NAMING CONVENTIONS

8.1 TABULAR FILES NAME

The files containing tabular data should follow the naming convention proposed below:

[CountryCode]_[ReportingEntityUniqueCode]_DF4_8_[RefYear]_	{ del upd(date) }
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Where:

- [RefYear] corresponds to the year when the deliverable should be done (four digits);
- "del" refers to "deliverable" and corresponds to the first time that a country provide information for this reporting obligation in a specific reference year;
- "upd" refers to "update" and corresponds to the updates of the information corresponding to the reporting obligation for a specific reference year of the END (i.e. when the information reported under del is not complete or does not contain the complete expected coverage);
- and (date) is the date when the update of information to the same reporting obligation is done. Date format is month (two digits), followed by year (two digits).

Examples:

ES_a_DF4_8_2012_del.xls

ES_a_DF4_8_2012_upd0613.xls

8.2 SPATIAL FILES NAME

8.2.1 Noise contour maps

The spatial files (SHP)¹¹ to be uploaded in the corresponding folder in Reportnet should follow the naming convention proposed below:

- **Agglomerations' case:**

- Roads:

[UniqueAgglomerationID]_Aggroad_[Indicator].[extension]

If there is an update of the spatial information, then:

[UniqueAgglomerationID]_Aggroad_[Indicator]upd¹².[extension]

¹¹ Mandatory files :

.shp — shape format; the feature geometry itself
.shx — shape index format; a positional index of the feature geometry to allow seeking forwards and backwards quickly
.dbf — attribute format; columnar attributes for each shape, in dBase IV format
.prj — projection format; the coordinate system and projection information, a plain text file describing the projection using well-known text format.

Optional files :

.shp.xml — geospatial metadata in XML format, such as ISO 19115 or other schemas

¹² Upd when the file delivered is the update of a previous file with the same name. This update must contain all the information and not only the updated parts.

	SHAPEFILES	FILES
Example:	HU_a_ag0013_Aggroad_Lden	HU_a_ag0013_Aggroad_Lden.shp HU_a_ag0013_Aggroad_Lden.dbf HU_a_ag0013_Aggroad_Lden.prj HU_a_ag0013_Aggroad_Lden.shx HU_a_ag0013_Aggroad_Lden.shp.xml
	HU_a_ag0013_Aggroad_Lnight	HU_a_ag0013_Aggroad_Lnight.shp HU_a_ag0013_Aggroad_Lnight.dbf HU_a_ag0013_Aggroad_Lnight.prj HU_a_ag0013_Aggroad_Lnight.shx HU_a_ag0013_Aggroad_Lnight.shp.xml

- Rails: [UniqueAgglomerationID]_Aggrail_[Indicator].[extension]

If there is an update of the spatial information, then:

[UniqueAgglomerationID]_Aggrail_[Indicator]upd¹³. [extension]

	SHAPEFILES	FILES
Example:	HU_a_ag0013_Aggrail_Lden	HU_a_ag0013_Aggrail_Lden.shp HU_a_ag0013_Aggrail_Lden.dbf HU_a_ag0013_Aggrail_Lden.prj HU_a_ag0013_Aggrail_Lden.shx HU_a_ag0013_Aggrail_Lden.shp.xml
	HU_a_ag0013_Aggrail_Lnight	HU_a_ag0013_Aggrail_Lnight.shp HU_a_ag0013_Aggrail_Lnight.dbf HU_a_ag0013_Aggrail_Lnight.prj HU_a_ag0013_Aggrail_Lnight.shx HU_a_ag0013_Aggrail_Lnight.shp.xml

- Airports: [UniqueAgglomerationID]_Aggair_[Indicator].[extension]

If there is an update of the spatial information, then:

[UniqueAgglomerationID]_Aggair_[Indicator]upd¹⁴. [extension]

	SHAPEFILES	FILES
Example:	HU_a_ag0013_Aggair_Lden	HU_a_ag0013_Aggair_Lden.shp HU_a_ag0013_Aggair_Lden.dbf HU_a_ag0013_Aggair_Lden.prj HU_a_ag0013_Aggair_Lden.shx HU_a_ag0013_Aggair_Lden.shp.xml
	HU_a_ag0013_Aggair_Lnight	HU_a_ag0013_Aggair_Lnight.shp HU_a_ag0013_Aggair_Lnight.dbf HU_a_ag0013_Aggair_Lnight.prj HU_a_ag0013_Aggair_Lnight.shx HU_a_ag0013_Aggair_Lnight.shp.xml

- Industry: [UniqueAgglomerationID]_Aggind_[Indicator].[extension]

If there is an update of the spatial information, then:

¹³ Upd when the file delivered is the update of a previous file with the same name. This update must contain all the information and not only the updated parts.

¹⁴ Upd when the file delivered is the update of a previous file with the same name. This update must contain all the information and not only the updated parts.

[UniqueAgglomerationID]_Aggind_[Indicator]upd¹⁵.[extension]

	SHAPEFILES	FILES
Example:	HU_a_ag0013_Aggind_Lden	HU_a_ag0013_Aggind_Lden.shp HU_a_ag0013_Aggind_Lden.dbf HU_a_ag0013_Aggind_Lden.prj HU_a_ag0013_Aggind_Lden.shx HU_a_ag0013_Aggind_Lden.shp.xml
	HU_a_ag0013_Aggind_Lnight	HU_a_ag0013_Aggind_Lnight.shp HU_a_ag0013_Aggind_Lnight.dbf HU_a_ag0013_Aggind_Lnight.prj HU_a_ag0013_Aggind_Lnight.shx HU_a_ag0013_Aggind_Lnight.shp.xml

- **Major roads' case:**

[CountryCode]_[ReportingEntityUniqueCode]_Mroad_[Indicator].[extension]

If there is an update of the spatial information, then:

[CountryCode]_[ReportingEntityUniqueCode]_Mroad_[Indicator]upd¹⁶.[extension]

	SHAPEFILES	FILES
Example:	HU_a_Mroad_Lden	HU_a_Mroad_Lden.shp HU_a_Mroad_Lden.dbf HU_a_Mroad_Lden.prj HU_a_Mroad_Lden.shx HU_a_Mroad_Lden.shp.xml
	HU_a_Mroad_Lnight	HU_a_Mroad_Lnight.shp HU_a_Mroad_Lnight.dbf HU_a_Mroad_Lnight.prj HU_a_Mroad_Lnight.shx HU_a_Mroad_Lnight.shp.xml

- **Major railways' case:**

[CountryCode]_[ReportingEntityUniqueCode]_Mrail_[Indicator].[extension]

If there is an update of the spatial information, then:

[CountryCode]_[ReportingEntityUniqueCode]_Mrail_[Indicator]upd¹⁷.[extension]

	SHAPEFILES	FILES
Example:	HU_a_Mrail_Lden	HU_a_Mrail_Lden.shp HU_a_Mrail_Lden.dbf HU_a_Mrail_Lden.prj HU_a_Mrail_Lden.shx HU_a_Mrail_Lden.shp.xml

¹⁵ Upd when the file delivered is the update of a previous file with the same name. This update must contain all the information and not only the updated parts.

¹⁶ Upd when the file delivered is the update of a previous file with the same name. This update must contain all the information and not only the updated parts.

¹⁷ Upd when the file delivered is the update of a previous file with the same name. This update must contain all the information and not only the updated parts.

	HU_a_Mrail_Lnight	HU_a_Mrail_Lnight.shp HU_a_Mrail_Lnight.dbf HU_a_Mrail_Lnight.prj HU_a_Mrail_Lnight.shx HU_a_Mrail_Lnight.shp.xml
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- **Major airports' case:**

[CountryCode]_[ReportingEntityUniqueCode]_Mair_[Indicator].[extension]

If there is an update of the spatial information, then:

[CountryCode]_[ReportingEntityUniqueCode]_Mair_[Indicator]upd¹⁸. [extension]

	SHAPEFILES	FILES
Example:	HU_a_LHBP_Mair_Lden	HU_a_LHBP_Mair_Lden.shp HU_a_LHBP_Mair_Lden.dbf HU_a_LHBP_Mair_Lden.prj HU_a_LHBP_Mair_Lden.shx HU_a_LHBP_Mair_Lden.shp.xml
	HU_a_LHBP_Mair_Lnight	HU_a_LHBP_Mair_Lnight.shp HU_a_LHBP_Mair_Lnight.dbf HU_a_LHBP_Mair_Lnight.prj HU_a_LHBP_Mair_Lnight.shx HU_a_LHBP_Mair_Lnight.shp.xml

8.2.2 Quiet areas

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

[CountryCode]_[ReportingEntityUniqueCode]_QAREA.[extension]

	SHAPEFILE	FILES
Example:	UK_s_QAREA	UK_s_QAREA.shp UK_s_QAREA.dbf UK_s_QAREA.prj UK_s_QAREA.shx UK_s_QAREA.shp.xml

¹⁸ Upd when the file delivered is the update of a previous file with the same name. This update must contain all the information and not only the updated parts.

9 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.
- Correspondence of unique codes between tabular information and spatial information being reported.
- Outliers to identify problems with data reported, assuming that numbers have been reported rounded to the nearest hundred.
- Reporting coverage, to be sure that the information has been provided for all the expected reporting units.
- Coordinate Reference System (CRS) is ETRS89 - LAEA52
- Coordinates of the spatial information are inside the European territory.
- Geometry of the data being provided, either points, lines or polygons, have an acceptable structure and topology (e.g. are polygons closed and lines forming networks linked properly to nodes?)
- Geometric accuracy, coordinate reference system and file format follow specifications.
- Metadata compliant with Inspire specifications (<http://inspire-geoportal.ec.europa.eu/>) has been provided, including aspects of accuracy, coordinate system, methodology and source.

More information concerning spatial information can be found in the EEA GIS guide in <http://www.eionet.europa.eu/gis/>.