

Environmental Noise Directive Reporting guidelines

DF2 Competent Authorities



Version 3, July 2024

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HISTORY OF CHANGES

Version	List of changes
November 2021	Issue first version
March 2024	Update reporting schema: typo correction in the field name competentAuthorityRole in the table CompetentAuthorityAirport. Some Text field types are changed to Multiline text to allow text in paragraphs with line feeds in the tables CompetentAuthorityDetails and SubmissionDeclaration. Added information on limitation of length of fields of type Text and Multiline text to 4000 characters and URL field type to 2100 characters. Added information on INSPIRE Good Practice on GeoPackage in section 1.3.
July 2024	A new code has been implemented to facilitate the assignment of both categories of quiet areas—those located in open countryside and those situated within urban agglomerations. This is to cover cases where a quiet area covers areas in agglomerations as well as areas in open country at the same time.

Contents

Contents	3
Acknowledgements	5
Summary	6
1 Introduction	7
1.1 Purpose of this document.....	7
1.2 The legal basis	7
1.3 Alignment with the INSPIRE Directive	8
2 Understanding the new END data model	10
3 Understanding the basic principles of Reportnet 3.0 from a reporter point of view	11
3.1 Validation	13
3.2 Reportnet 3 dataset schema and data types	16
4 Key concepts in relation to <i>Competent Authority (DF2)</i>	17
4.1 Reporting data schema structure for DF2	17
4.2 Identifiers	17
4.2.1 Thematic identifiers	17
4.2.2 Providing thematic identifiers in the END reported data	18
4.2.3 Re-using object identifiers defined in data flows DF1_5 and DF7_10 for data flow DF2	18
4.2.4 INSPIRE identifiers.....	18
4.3 From conceptual data model (UML) to MS Excel templates	18
4.4 Reference datasets of statistical (NUTS) and administrative units (LAU).....	21
5 Data schema: Competent Authority (DF2)	24
5.1 Description	24
5.2 Table CompetentAuthorityDetails	24
5.2.1 Field competentAuthorityId_identifier	25
5.2.2 Field competentAuthorityName	25
5.2.3 Field streetName	25
5.2.4 Field buildingNumber	25
5.2.5 Field postalCode.....	26
5.2.6 Field city	26
5.3 Table CompetentAuthorityAirport.....	26
5.3.1 Field competentAuthorityIdIdentifier	27
5.3.2 Field ICAOCode.....	27
5.3.3 Field competentAuthorityRole.....	28
5.4 Table CompetentAuthorityAgglomeration	29
5.4.1 Field competentAuthorityIdIdentifier	29
5.4.2 Field agglomerationIdIdentifier	30
5.4.3 Field competentAuthoritySource.....	31
5.4.4 Field competentAuthorityRole.....	32
5.5 Table CompetentAuthorityRail	33
5.5.1 Field competentAuthorityIdIdentifier	34
5.5.2 Field competentAuthorityRole.....	35
5.5.3 Field reportingLevel	35
5.5.4 Field ESTATUnitCode.....	36
5.5.5 Field railIdIdentifier	36

5.6	Table CompetentAuthorityRoad	36
5.6.1	Field competentAuthorityIdIdentifier	37
5.6.2	Field competentAuthorityRole	38
5.6.3	Field reportingLevel	38
5.6.4	Field ESTATUnitCode	39
5.6.5	Field roadIdIdentifier	39
5.7	Table CompetentAuthorityQuietArea	40
5.7.1	Field competentAuthorityIdIdentifier	40
5.7.2	Field competentAuthorityType	41
5.7.3	Field quietAreaIdIdentifier	41
5.8	Table ESTATUnitReference_Rail	42
5.8.1	Field ESTATNUTSReferenceTitle	43
5.8.2	Field ESTATNUTSReferenceLink	43
5.8.3	Field ESTATLAUReferenceTitle	43
5.8.4	Field ESTATLAUReferenceLink	43
5.9	Table ESTATUnitReference_Road	44
5.9.1	Field ESTATNUTSReferenceTitle	44
5.9.2	Field ESTATNUTSReferenceLink	44
5.9.3	Field ESTATLAUReferenceTitle	45
5.9.4	Field ESTATLAUReferenceLink	45
5.10	Table DatasetDefaultProperties	45
5.11	Table CodelistProperties	46
6	Data schema: Submission Declaration	48
6.1	Description	48
6.2	Table SubmissionDeclaration	48
6.2.1	Field processStatus	49
6.2.2	Field difference	49
6.2.3	Field reason	50
6.2.4	Field explanatoryFile	50
6.2.5	Field dateOfChange	50
7	Reporting process	51
7.1	Reporting data in Reportnet 3: overall workflow	51
7.2	User accounts and permissions	52
7.3	Importing data	53
7.4	Validations	54
7.5	Official submission of the report	55
7.6	Resubmission	57

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Matthias Hintzsche (UBA) reviewed the final version.

Summary

The reporting guidelines are intended to support reporters that will be conducting the submission of data required under the Environmental Noise Directive. The document provides an overview to the data reporting and validation process in Reportnet 3. A key goal of this document is to ensure a common understanding among data providers working on the implementation of the Environmental Noise Directive. This document should further be of assistance to both thematic and IT experts.

1 Introduction

1.1 Purpose of this document

This document aims to provide detailed guidance on the practicalities and processes for reporting environmental noise data to Reportnet 3, the central hub from which all e-Reporting activities handled by the EEA with Eionet and other partners will be performed.

In this context, a user is assumed to be a representative of an EU Member State or other reporting country who is submitting relevant country-level noise data to Reportnet 3.

These reporting guidelines are intended to support reporting countries in providing high quality noise reports in an efficient manner following the new Implementing Decision on *Setting up a mandatory data repository and a mandatory digital information exchange mechanism according to Directive 2002/49/EC*.

Specifically, this document is focused on the reporting of DF2 Competent Authorities and covers :

- The legal basis of the END requirements addressed in the Implementing Decision on Setting up a mandatory data repository and a mandatory digital information exchange mechanism according to Directive 2002/49/EC
- The technical requirements for the data submission
- The structure of Reportnet 3 in relation to this dataflow
- The practicalities involved in reporting and submitting data using Reportnet 3.

These reporting guidelines are intended to be a stand-alone document that contains all necessary information for reporting. However, other documents and video recordings may offer additional detail on certain aspects and are available in the webpage : <https://www.eionet.europa.eu/reportnet/docs/noise>.

1.2 The legal basis

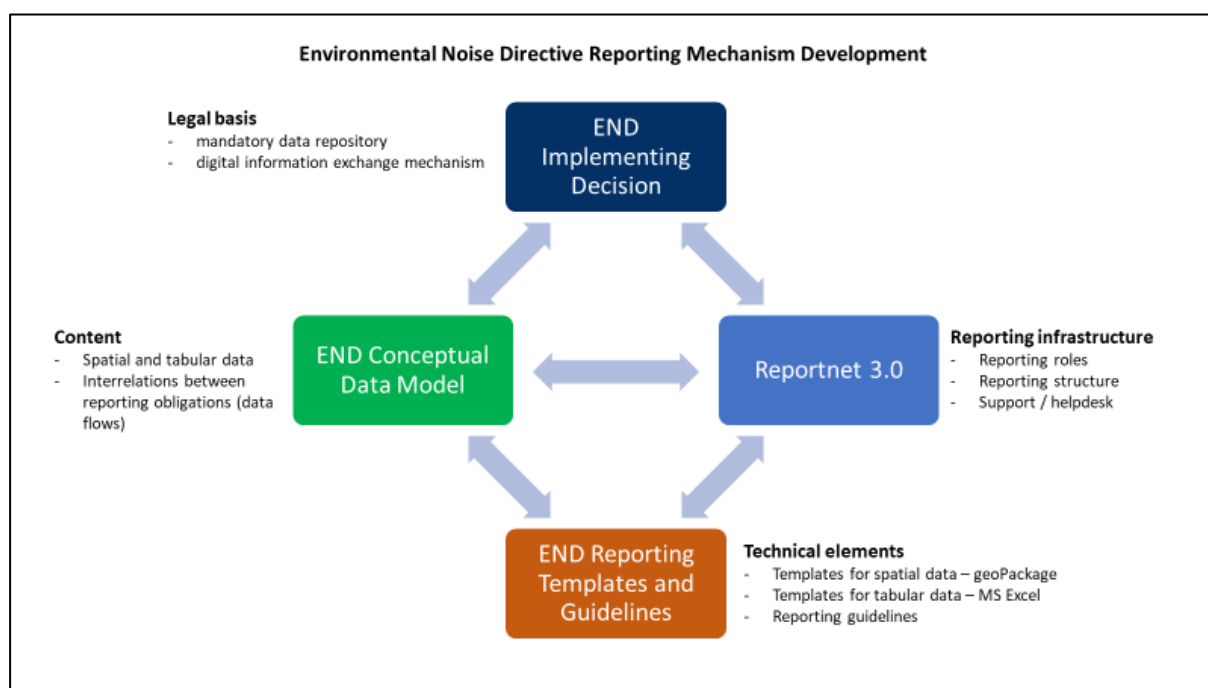
Reporting noise data under the Environmental Noise Directive (END) will occur in Reportnet 3 from 2022. The END reporting is defined in the Directive 2002/49/EC and the reporting requirements are further defined in the *Commission Implementing Decision (EU) 2021/1967 of 11 November 2021 on Setting up a mandatory data repository and a mandatory digital information exchange mechanism according to Directive 2002/49/EC*¹. The current reporting obligations of the Environmental Noise Directive have been adapted to also fulfil the new INSPIRE Directive which is based on the harmonisation and sharing of spatial data and infrastructures based on the 2019 regulation² which amends different articles of the END. Firstly, the regulation obliges countries to produce *noise maps and action plans according to the Inspire Directive* and secondly, it obliges the EC and the EEA to develop a *mandatory digital information exchange mechanism* that countries have to use to report and share the data under the END directive. Therefore, the use of the Reportnet 3 platform and the use of data that is INSPIRE compliant will be mandatory for the reporting of data under the END. In

⁽¹⁾ Commission Implementing Decision (EU) 2021/1967 of 11 November 2021 setting up a mandatory data repository and a mandatory digital information exchange mechanism in accordance with Directive 2002/49/EC of the European Parliament and of the Council (Text with EEA relevance) C/2021/7948 ELI: http://data.europa.eu/eli/dec_impl/2021/1967/oj

⁽²⁾ Regulation (EU) 2019/1010 of the European Parliament and of the Council of 5 June 2019 on the alignment of reporting obligations in the field of legislation related to the environment, and amending Regulations (EC) No 166/2006 and (EU) No 995/2010 of the European Parliament and of the Council, Directives 2002/49/EC, 2004/35/EC, 2007/2/EC, 2009/147/EC and 2010/63/EU of the European Parliament and of the Council, Council Regulations (EC) No 338/97 and (EC) No 2173/2005, and Council Directive 86/278/EEC (Text with EEA relevance). ELI: <http://data.europa.eu/eli/reg/2019/1010/oj>

order to support countries in their reporting obligations, we developed new templates and a new Reporting system that fulfils both the END and the INSPIRE requirements.

Figure 1.1. Overview on new noise reporting mechanism



1.3 Alignment with the INSPIRE Directive

The alignment between the Environmental Noise Directive and the INSPIRE Directive has been included throughout the development process of establishing the mandatory digital information exchange mechanism.

Based on the legal basis, explained in the section above (1.2), the END conceptual data model has been developed on the basis of the INSPIRE conceptual data models for spatial data themes by combining specific END reporting requirements and INSPIRE requirements.

Further on, the END conceptual data model has been used to develop the encoding guidelines for the END spatial data in the GeoPackage file format. The encoding guidelines are based on the INSPIRE work on simplification and alternative encodings following the OGC standard on GeoPackage³. Development of the INSPIRE Good Practice for GeoPackage is supported by the INSPIRE ad-hoc Working Group on GeoPackage⁴ which joins interests of geospatial communities for GeoPackage implementation, and considers the END reported data in GeoPackage as one of the implementation examples.

The INSPIRE Maintenance and Implementation Expert Group (MIG) endorsed the INSPIRE Good Practice on GeoPackage in November 2022. Documentation is available in the INSPIRE Good Practice Library⁵.

Further on, the EEA developed a validation proof demonstrating compliance of END GeoPackage templates⁶ and datasets provided in those templates with the INSPIRE requirements, validated with

⁽³⁾ <https://www.geopackage.org/>

⁽⁴⁾ <https://github.com/INSPIRE-MIF/gp-geopackage-encodings>

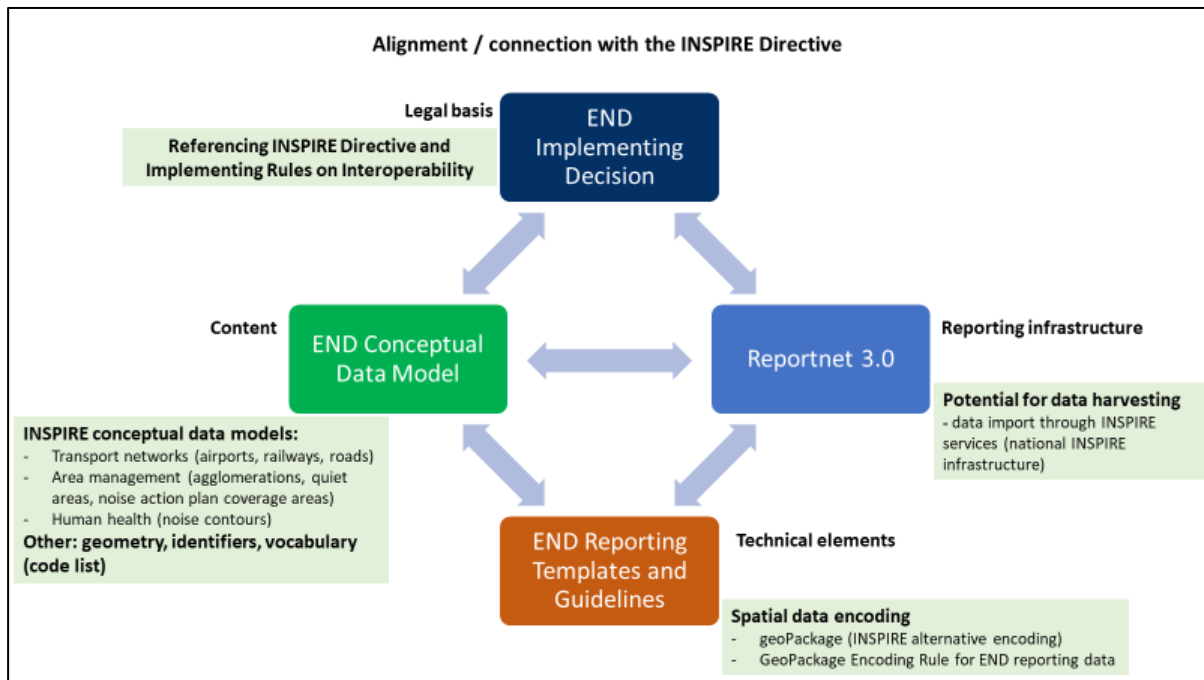
⁽⁵⁾ https://knowledge-base.inspire.ec.europa.eu/evolution/good-practice-library_en

⁽⁶⁾ <https://www.eionet.europa.eu/reportnet/docs/noise/templates>

the INSPIRE Reference Validator⁷. The validation documentation is published on the Eionet Noise portal – INSPIRE Validation⁸.

The flexibility of the reporting infrastructure Reportnet 3 allows providing reported data into infrastructure in different ways, from importing files, programmatically by configuring the Reportnet 3 API, or in the future by harvesting INSPIRE services for spatial data.

Figure 1.2. Overview on the integration of INSPIRE Directive into noise reporting obligations



⁽⁷⁾ <https://inspire.ec.europa.eu/validator/home/index.html>

⁽⁸⁾ <https://www.eionet.europa.eu/reportnet/docs/noise/inspire-validation>

2 Understanding the new END data model

The structure and details of the data model are described in the *Data model documentation* and can be accessed at <https://www.eionet.europa.eu/reportnet/docs/noise/data-model-documentation>.

In order to develop the data model for Competent Authority (DF2) we considered the following:

- the END requirements; and
- the INSPIRE elements fit for use in the END reporting scope.

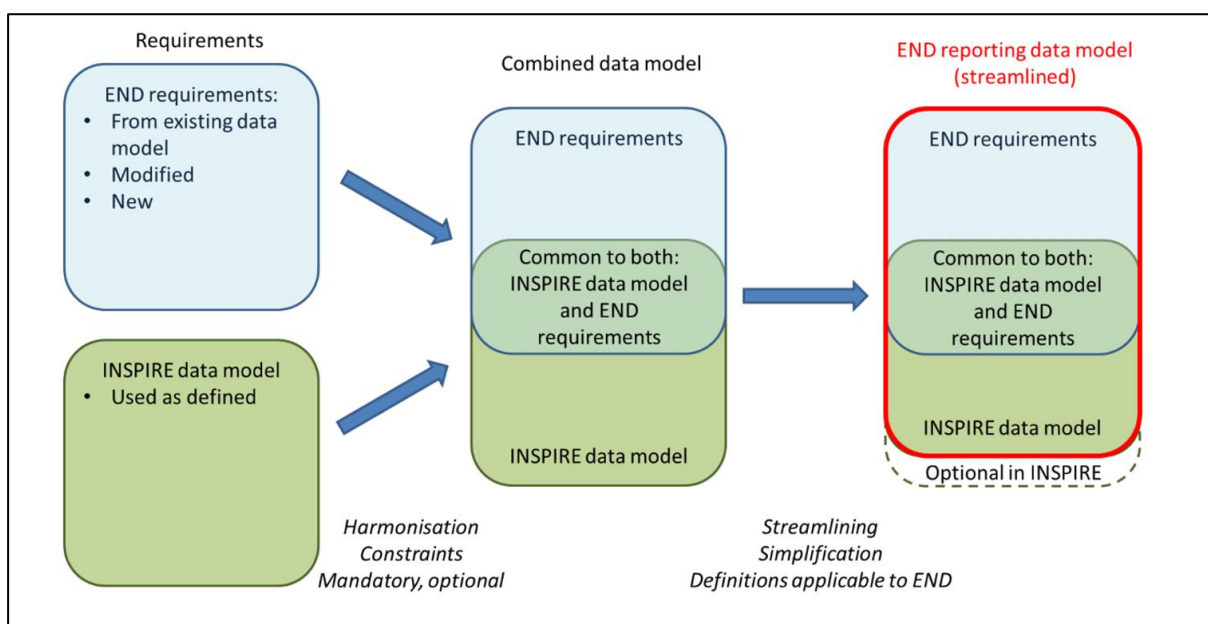
The streamlined data model combines and optimises all the input from the END and INSPIRE into one data model.

The data model described in the data model documentation is used for several interrelated purposes:

- It is used for presenting the content of the noise data that needs to be reported.
- It is used to develop the encoding templates in MS Excel
- It is used to design the schemas in Reportnet 3.0 that will be used for data reporting.

The relevant section of the document for the reporting of dataflow DF2 is section 7.

Figure 2.1. Streamlined data model of END and the INSPIRE requirements



3 Understanding the basic principles of Reportnet 3.0 from a reporter point of view

The Regulation (EU) 2019/1010 on the alignment of reporting obligations in the field of legislation related to the environment and the implementing decision on setting up a mandatory data repository and a mandatory digital information exchange mechanism according to Directive 2002/49/EC, specifies that a digital information exchange mechanism should be used for reporting on all dimensions of the Environmental Noise Directive (END) by Member States.

A key element of the new reporting system, Reportnet 3 is being developed by the European Environment Agency. Reportnet 3 (<https://reportnet.europa.eu/>) is the next generation platform for reporting environmental data to the EEA and also hosts several reporting tasks for the European Commission. Reportnet 3 acts as a central hub for e-Reporting activities, aiming at simplifying and streamlining the data flow steps across all environmental domains. The system acts as a one-stop-shop for all involved stakeholders.

Important links

- Reportnet 3 reporters' manual :
https://www.eionet.europa.eu/reportnet/docs/prod/reporter_howto_reportnet3.0
- Training videos:
<https://www.eionet.europa.eu/reportnet/docs/noise/videos>

Once the reporter is successfully logged-in in Reportnet 3, the dataflows assigned to the reporter will show up as illustrated in Figure 3.1. In Reportnet 3, the reporter is able to see the list of dataflows along with information related to the role, the delivery date, the dataflow name, the dataflow description, the associated obligation and instrument, the status of the reporting obligation.

Figure 3.1. Dataflows overview: main page and list of dataflows assigned to the reporter

The screenshot displays the Reportnet 3 interface. At the top, there's a header with the European Union logo and the text 'Reportnet 3 > Dataflows'. Below this, a sidebar on the left contains navigation icons. The main content area shows a list of dataflows with columns: Name, Description, Legal instrument, Obligation, and Obligation id. A detailed view of a dataflow is shown below the list, including the role (CUSTODIAN), dataflow name (Competent authority (DF2)), description, legal instrument (Environmental noise directive), obligation (Competent bodies (DF 2)), creation date (2022-10-25), delivery date (2022-10-30), and dataflow status (OPEN).

The Noise Directive reporting data flows will typically include several types of dataset schemas:

- Dataflow help includes additional support information, such as templates, UML diagrams, reporting guidelines and reporting videos, as well as the definition of the complete data schema, attributes and quality controls implemented in the dataflow.

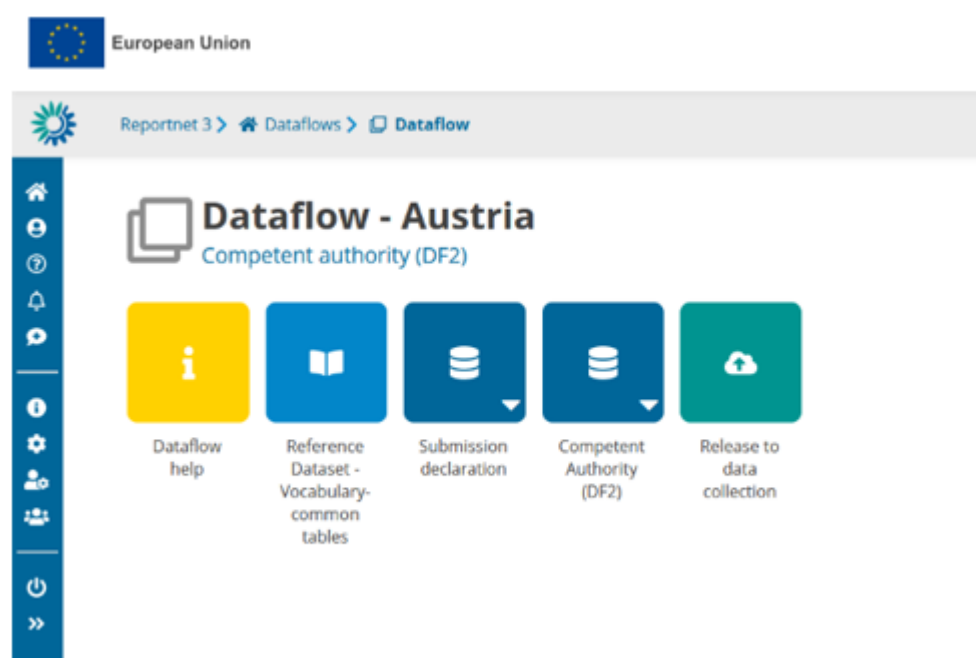
- Reference Dataset Vocabulary – common tables include a set of applicable code lists used in the reporting data flow. The code lists can be seen in the Eionet Data Dictionary Vocabulary (<https://dd.eionet.europa.eu/vocabularies>) in the following folders: noise, inspire and common.
- A set of reporting dataset schemas.

More information will be encountered in Reportnet guidelines (https://www.eionet.europa.eu/reportnet/docs/prod/reporter_howto_reportnet3).

In order to exemplify how to submit data, Austria has been taken as an example throughout this reporting guidelines.

Error! Reference source not found. shows more specifically the reporting window of the dataflow *Competent Authority (DF2)*.

Figure 3.2. Reportnet – Reporter view: general dataflow structure for the END Competent Authority (DF2) reporting



The dataflow is organised by dataset schemas. The reporting data flow *Competent Authority (DF2)* includes the following dataset schemas:

- The dataset schema “Competent Authority (DF2)”, used to report the designated competent authorities and bodies responsible for implementing the Directive 2002/49/EC;
- The dataset schema “Submission declaration”, used to provide information on competent authorities submitted or information on the changes from previous submissions and the reasons for submitting updated data after the deadline; and
- There is another data schema “Reference dataset - Vocabulary – Common tables”. This is a read-only schema and contains the different code lists that are applicable to this dataflow as well as tables that are used for data validation (see Figure 3.3).

Figure 3.3. Reference dataset - Vocabulary – Common tables for Competent Authority (DF2)

Reportnet 3 > Dataflows > Dataflow > Reference dataset

Vocabulary-common tables
Competent authority (DF2) - Reference Dataset - Vocabulary-common tables

Export dataset data Delete dataset data Validate Show validations QC rules Dashboards Manage copies Refresh

NoiseSourceValue IdentifierScheme CompetentAuthorityRoleValue SpecialisedZoneTypeCode LevelValue ICAOCodes

Export table data Show/Hide columns Validation filter Filter by value

Validations	notation	label	definition	url
	agglomerationAir	Aircraft noise inside agglomeration	Related to air traffic inside the boundary of the agglomeration, including major airports and other airports. Applicable to data flows: Agglomeration Source (DF1_S1), Competent Authority (DF2), Noise Limit Value (DF3), Strategic Noise Map- Noise Exposure (DF4_S1), Noise Action Plan Agglomeration (DF7_10), Quiet Area (DF7_10)	http://dd.eionet.europa.eu/vocabulary/noise/NoiseSourceValue/agglomerationAir
	agglomerationIndustry	Industrial noise inside agglomeration	Related to industrial sites inside the boundary of the agglomeration. Applicable to data flows: Agglomeration Source (DF1_S1), Competent Authority (DF2), Noise Limit Value (DF3), Strategic Noise Map- Noise Exposure (DF4_S1), Noise Action Plan Agglomeration (DF7_10), Quiet Area (DF7_10)	http://dd.eionet.europa.eu/vocabulary/noise/NoiseSourceValue/agglomerationIndustry

Finally, the *Dataflow Help* contains relevant help documents, including the MS Excel template for preparation of reported data, the links to all supporting materials, all the information on quality controls and validation rules, as well as the description of the different tables and attributes applicable to this dataflow (see Figure 3.4).

Figure 3.4. Dataflow help page: supporting documents tab, web links tab and dataset schemas tab

Reportnet 3 > Dataflows > Dataflow > Dataflow help

Dataflow help
Competent authority (DF2)

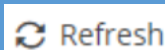
Supporting documents Web links Dataset schemas

Upload

Title	Description	Category	Language	Public	Upload date	Size	File	Actions
Competent Authority (DF2) Oct 2022.xlsm	Competent authority (DF2) template	xlsm	English	✓	2022-10-26	29.26 KB		

If the system doesn't react click refresh/reload page

If problems with Reportnet 3 persist please contact helpdesk@reportnet.europa.eu



3.1 Validation

The following level error types have been implemented in Reportnet 3:

- **BLOCKER:** Blocker messages indicate that the detected error will prevent data submission (data release is not possible).
- **ERROR:** Error messages indicate issues that clearly need corrective action by the data reporter.
- **WARNING:** Warning messages indicate issues that may be an error. Data reporters are expected to double-check relevant records.

- INFO: Informative message. Neutral or statistical feedback about the delivery, e.g. number of species reported.

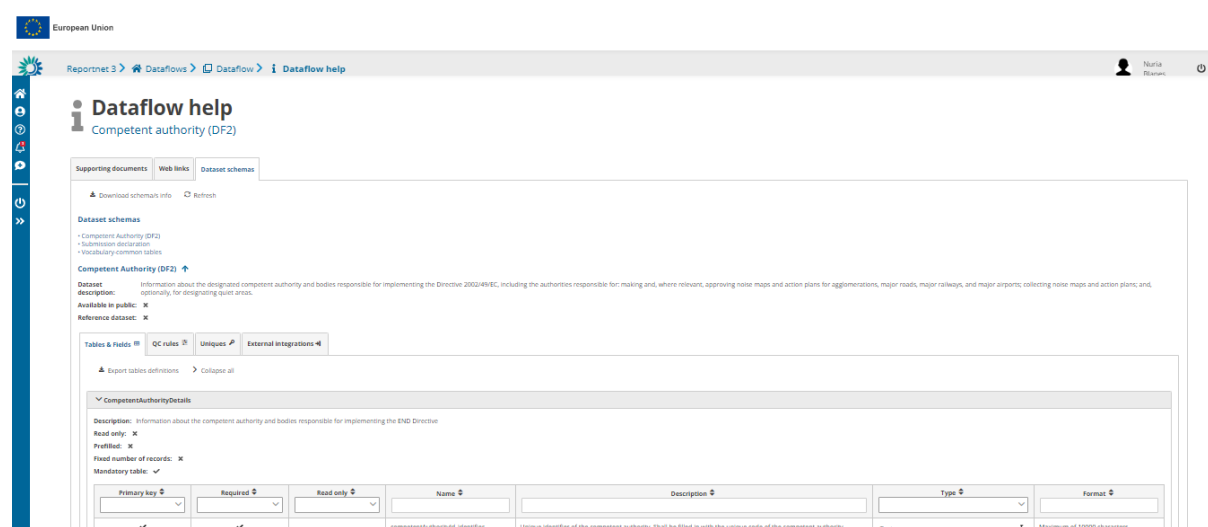
The applicable validations and error types into the dataset schema of *Competent Authority (DF2)* dataflow are outlined in Table 3.1.

Table 3.1. Applicable validation levels in the schema of Competent Authority (DF2) dataflow

	Competent Authority (DF2)
Applicable validation level	Blocker Error Warning

The validations (quality control - QC) are documented in the Reportnet 3 Data Flow Help schema.

Figure 3.5. Dataflow help – Details of the data schemas and applied validations



Additionally, a copy of validations applicable to the Competent Authority (DF2) dataflow is published in the Noise Eionet Portal for public consideration. Please note that the original information is always in the Reportnet 3 platform.

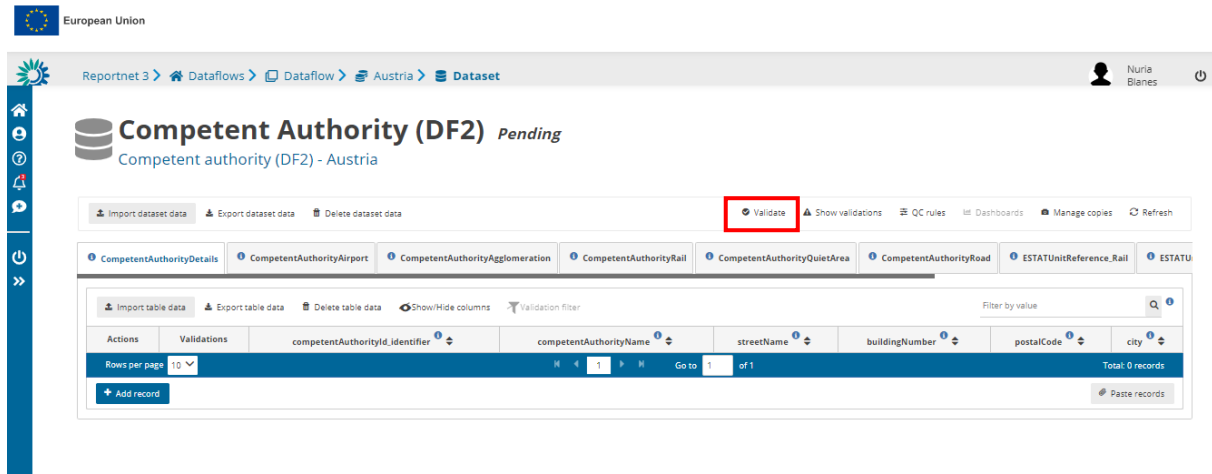
The detailed validations applicable to the Competent Authority (DF2) dataflow can be consulted in: <https://www.eionet.europa.eu/reportnet/docs/noise/validation-rules/>

They consist primarily in two different sets of validations: the first one relates solely to DF2 data submitted and coherence with data being reported (e.g. same entities between the different tables) and the second set refers to the validation of entities reported against the noise sources (DF1_5) being submitted, checking the following:

- Existence and coherence of the unique codes provided per agglomerations, major airports, major roads and major railways
- Existence and coherence of the noise sources inside agglomerations declared in DF2 competent authorities and the applicable noise sources provided in DF1_5.
- Existence of the territorial administrative units (comparing with the reference dataset of LAU or NUTS codes)

Validations need to be run for each data schema. In each schema, data can be validated by clicking on "Validate" (Figure 3.6).

Figure 3.6. Validation of the data being loaded



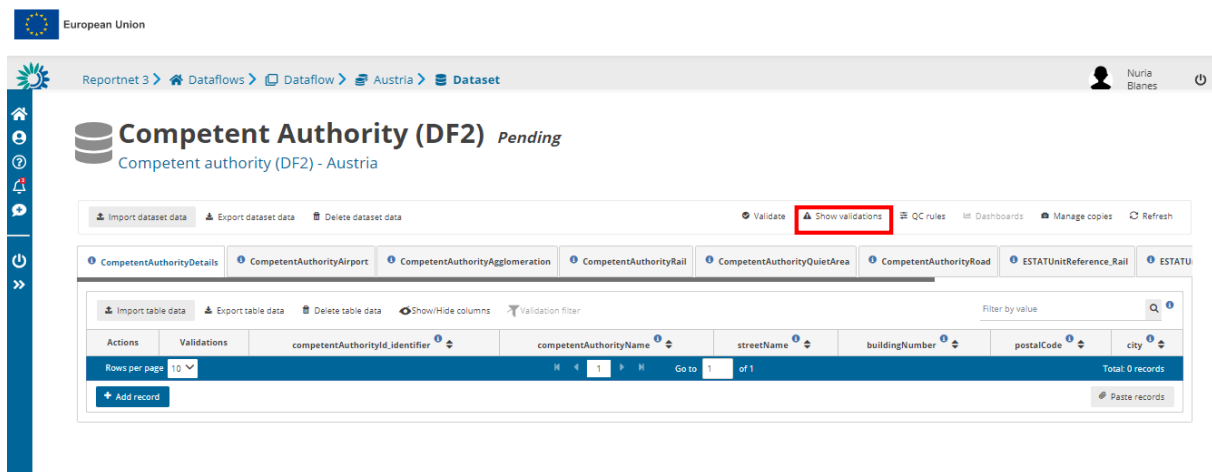
Once the validation has been performed, a notification will pop up on the top-right hand of the screen. After clicking “Refresh”, errors, if any, will be displayed at four types:

- Field error
- Record error
- Table error
- Dataset error

The column “Validations” shows for each record which level of errors at field and record level can be found.

Finally, the button “Show validations” in the dataset menu (Figure 3.7) shows the list of all errors in the dataset, displayed in a summary table grouped by a particular error type (more information can be found in https://www.eionet.europa.eu/reportnet/docs/prod/reporter_howto_reportnet3.0).

Figure 3.7. Show validations function in the dataset menu



A BLOCKER in the dataflow will prevent the reporter to officially submit any data in Reportnet 3.

3.2 Reportnet 3 dataset schema and data types

The Reportnet 3 design of dataset schemas includes several Text data types, such as Text, Multiline text (allows paragraph and line feed characters) and URL (correct URL format is expected). The maximum number of characters is set to 10000 characters in the Reportnet 3 as a default value. However, the maximum number of characters is further on limited to ensure correct data transfer to other IT systems, as follows:

- 4000 characters for data types Text and Multiline text;
- 2100 characters for data type URL.

Text data types (Text, Multiline text) can have maximum of 4000 characters.
Data type URL can have maximum of 2100 characters.

Figure 3.8. Reportnet 3 dataset schema – data types

	Number - Integer
	Number - Decimal
	Date
	Datetime
	Text
	Multiline text
	Email
	URL
	Phone
	Point
	Multiple points
	Line
	Multiple lines
	Polygon
	Multiple polygons
	Single select
	Multiple select
	Link
	External link
	Attachment

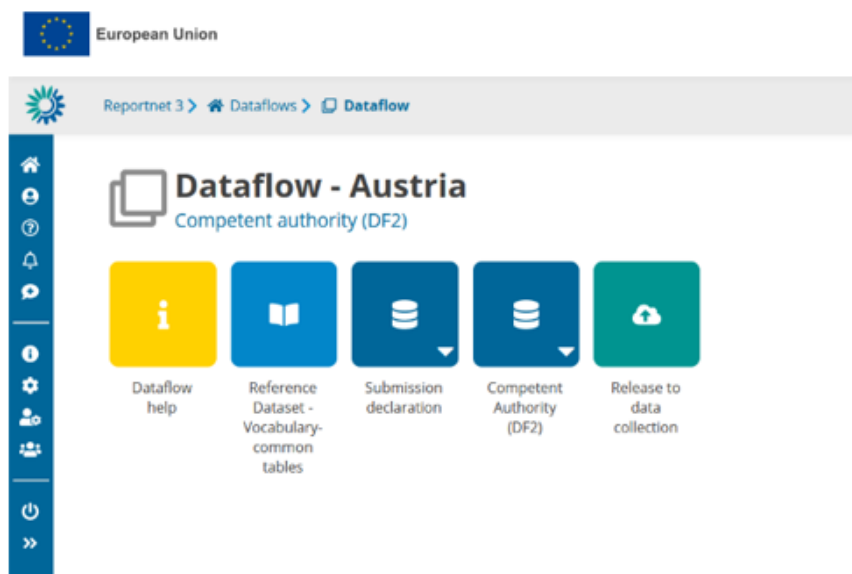
Note : Reportnet 3 data types are evolving with user and data requirements.

4 Key concepts in relation to *Competent Authority (DF2)*

4.1 Reporting data schema structure for DF2

The data schemas developed in Reportnet 3 are based on the specific UML diagrams illustrated in the *END Data model documentation* (<https://www.eionet.europa.eu/reportnet/docs/noise/data-model-documentation>). The MS Excel templates follow the same schemas and principles as the UML diagrams.

Figure 4.1. Dataset schemas for Competent Authority (DF2) delivery in Reportnet 3



4.2 Identifiers

4.2.1 Thematic identifiers

The concept of thematic identifiers is re-used in the END reporting scope from the INSPIRE data specifications. Thematic identifiers may have been established to meet data exchange requirements within thematic domains, e.g. different reporting obligations at International, European or national levels, and/or internal data maintenance requirements. A property that is considered a thematic identifier will use data type **ThematicIdentifier** which is composed of two mandatory parts:

- **identifier**: Unique identifier used to identify the spatial object within the specified identification scheme;
- **identifierScheme**: Identifier defining the scheme used to assign the identifier.

This concept of thematic identifiers and data type **ThematicIdentifier** are re-used across the complete END data model to uniquely identify spatial objects and all other objects – entities, e.g.: major road segments, major railway segments, agglomerations, competent authorities, quiet areas, reports of limit values, noise control programmes and noise action plans. The internationally defined ICAO code for airports is also used as a thematic identifier.

The guidelines "Proposal on how to build the unique thematic identifiers for the new END data model" provides detailed information and coding system to create thematic identifiers. (See more information in: https://www.eionet.europa.eu/reportnet/docs/noise/guidelines/codes_formation_doc.pdf/view).

4.2.2 Providing thematic identifiers in the END reported data

Identifier scheme EUENDCode

The unique identifier scheme with the name **EUENDCode** is defined for the END reporting scope. It is published in the Eionet Data Dictionary as <http://dd.eionet.europa.eu/vocabulary/inspire/IdentifierScheme/EUENDCode>.

It is used across the END reporting data flows and reporting data as the default value and it is stored (pre-filled) in the table DatasetDefaultProperties. This table is included in the pre-defined data templates in GeoPackage (spatial data), MS Excel templates and in the Reportnet 3 data schemas.

To make data preparation easier, the table DatasetDefaultProperties is pre-filled with all applicable default values in the reporting data flow, therefore it doesn't require any changes.

4.2.3 Re-using object identifiers defined in data flows DF1_5 and DF7_10 for data flow DF2

Data flow DF2 re-uses object identifiers of agglomerations, major airports, major roads and major railways that have been defined in the data flow DF1_5, and identifiers of quiet areas that have been defined in the data flow DF7_10.

The only value required to be provided for each object is "identifier".

Identifier will be provided in a specific field defined in each data flow and Reportnet 3 data schema. For example, in the END data flow DF2, in the data schema Competent Authority (DF2), the competent authority data will include object identifiers in the following way:

- The field agglomerationIdIdentifier will be used for identifier of an agglomeration (defined in DF1_5);
- The field roadIdIdentifier will be used for identifier of a road segment (defined in DF1_5);
- The field railIdIdentifier will be used for identifier of a railway segment (defined in DF1_5);
- The field ICAOCode will be used for identifier of an airport (ICAO code to be provided, defined in DF1_5);
- The field quietAreaIdIdentifier will be used for identifier of a quiet area when quiet areas are established (defined in DF7_10).

4.2.4 INSPIRE identifiers

The conceptual data model of competent authorities (DF2) does not include spatial objects, therefore it does not include external unique object identifiers of spatial objects (INSPIRE identifiers).

4.3 From conceptual data model (UML) to MS Excel templates

The template for non-spatial data in file format MS Excel has been developed from the conceptual data model in UML ([from UML streamlined view](#)). It is aligned with the Reportnet 3 data schema (names, types, cardinality, use of code lists) to facilitate reporting in the Reportnet 3 infrastructure. This section provides generic information of the MS Excel template structure and the next chapters provide details of the Reportnet 3 data schemas.

The MS Excel template includes the following tables :

- Table for providing general information about the competent authority, such as name and address:
 - CompetentAuthorityDetails
- Tables for providing information about responsibilities of the competent authority or its organisational units with regard to developing, approving or collecting noise maps and action plans related to noise sources or quiet areas:

- CompetentAuthorityAgglomeration is related to noise in agglomerations
- CompetentAuthorityAirport is related to noise from major airports
- CompetentAuthorityRail is related to noise from major railways
- CompetentAuthorityRoad is related to noise from major roads
- CompetentAuthorityQuietArea is related to designation of quiet areas (both inside agglomerations and in open country)
- Tables with information about the reference dataset of NUTS and LAU classification:
 - ESTATUnitReference_Rail
 - ESTATUnitReference_Road
- Common and pre-defined tables:
 - DatasetDefaultProperties
 - CodelistProperties.

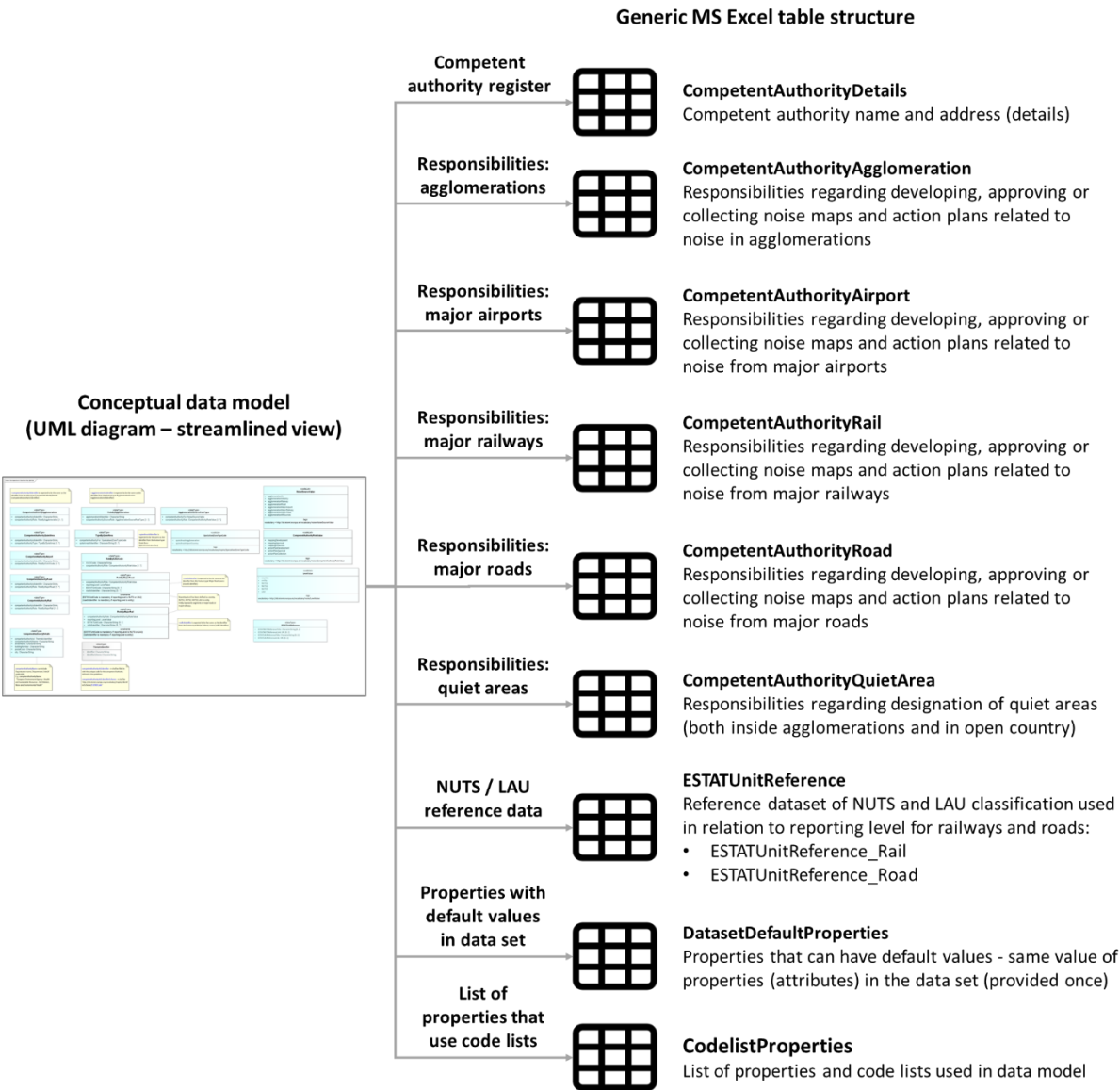
Properties that can have default values – same values in the complete dataset are provided in the table **DatasetDefaultProperties**. This table can include properties with default values, or a default void reason or another default value for voidable properties. The origin of voidable properties is the INSPIRE conceptual data models for spatial data. All expected properties and default values are already pre-defined and pre-filled in each MS Excel template.

CodelistProperties table includes the list of properties that use values from agreed vocabularies – code lists. This table is already pre-filled in each MS Excel template and helps finding the correct values for the properties from the related code lists. The code lists defined for the END reporting scope are published in two registers:

- [INSPIRE code list registry](#) for INSPIRE code lists (re-using INSPIRE code lists), and
- [Eionet Data Dictionary – Vocabularies](#) for other code lists used in the END reporting scope.

The following diagram in Figure 4.2 summarizes the MS Excel template structure.

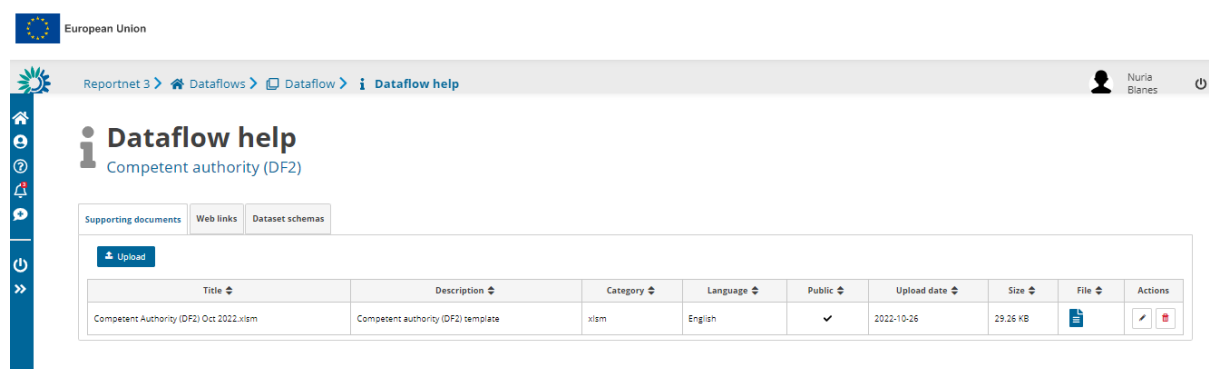
Figure 4.2 Transformation from conceptual data model (UML) to MS Excel spreadsheet



The MS Excel template that has been created to support data reporting can be found in the Dataflow Help page in Reportnet 3 and on the Eionet Noise portal – Templates⁹.

(⁹) <https://www.eionet.europa.eu/reportnet/docs/noise/templates>

Figure 4.3. Screenshot of the Dataflow help page where the MS Excel template is available for download



MS Excel template can be downloaded from:
<https://www.eionet.europa.eu/reportnet/docs/noise>

4.4 Reference datasets of statistical (NUTS) and administrative units (LAU)

Reporting of competent authorities for major roads and major railways can be provided on the level of the territorial units, i.e. statistical units following the NUTS classification (Nomenclature of territorial units for statistics) established in the EU, other statistical classifications (non-EU) or local administrative units (LAU). Establishing the common basis of NUTS / LAU units will serve two main purposes:

- Harmonised provision of information across the complete noise UML data model, and
- Validation of the reported data in the reporting process.

For the common reference datasets of NUTS / LAU units, it is recommended to use the Eurostat European geospatial datasets of NUTS and LAU units that are published in the Geographic Information System of the Commission (GISCO)¹⁰ together with the correspondence table between LAU and NUTS units and codes¹¹. Those datasets are compiled from the contributions of the national mapping agencies and statistical offices and are provided as seamless pan-European datasets¹².

The NUTS classification and local administrative units (LAU) are created in a hierarchical structure, dividing up the national territory into the three NUTS levels (NUTS 1, NUTS 2 and NUTS 3). The NUTS 3 units are further composed of a set of local administrative units.

The general rule for selection of NUTS / LAU reference geospatial datasets:

The version of the NUTS and LAU geospatial datasets used for the END reporting purpose should be the version of the European geospatial datasets of NUTS and LAU units published by Eurostat and available for DF4_8 in each reporting cycle. The selected NUTS / LAU geospatial datasets will be used in the whole END reporting cycle including the reporting of competent authorities.

Recommendation for the END reporting cycle 2020 – 2025:

¹⁰ <https://ec.europa.eu/eurostat/web/gisco>

¹¹ <https://ec.europa.eu/eurostat/web/nuts/local-administrative-units>

¹² The GISCO database includes the country codes according to the EC Publications Office Interinstitutional Style Guide which applies 2-character ISO country codes (ISO 3166 alpha-2) for EU and non-EU countries, with the exception of country code abbreviation EL (instead of GB) for Greece, <https://publications.europa.eu/code/en/en-370100.htm>.

For the reporting of competent authorities in 2020-2025 reporting cycle it is recommended to use the following Eurostat NUTS and LAU geospatial datasets, or national equivalents in a higher scale:

- Eurostat NUTS 2021, <https://gisco-services.ec.europa.eu/distribution/v2/nuts/nuts-2021-metadata.pdf>
- Eurostat LAU 2020, <https://gisco-services.ec.europa.eu/distribution/v2/lau/lau-2020-metadata.pdf>

NUTS / LAU reference datasets and validation in the END reporting cycle 2020 – 2025:

The validation process will use as the reference datasets the Eurostat geospatial datasets of NUTS 2021 and LAU 2020 in the scale of 1:100 000 with additional information from the Correspondence table LAU – NUTS 2021.

The version of the Eurostat NUTS 2021 and LAU 2020 geospatial datasets can be consulted on the Eurostat website. The public datasets in small scale (one million or smaller) can be downloaded from the GISCO Administrative and Statistical Units web site, or through the GISCO Application Programming Interface (API), as following:

- NUTS: <https://ec.europa.eu/eurostat/web/gisco/geodata/reference-data/administrative-units-statistical-units/nuts>
- LAU: <https://ec.europa.eu/eurostat/web/gisco/geodata/reference-data/administrative-units-statistical-units/lau>
- GISCO Data Distribution API: <https://gisco-services.ec.europa.eu/distribution/v2/>
- Correspondence table LAU – NUTS 2021, <https://ec.europa.eu/eurostat/web/nuts/local-administrative-units>

The EEA Spatial Data infrastructure (EEA-SDI) also includes the GISCO database and the geospatial datasets of NUTS 2021 and LAU 2020 in the scale of 1:100 000. The EEA-SDI can be consulted at:

- <https://sdi.eea.europa.eu/>
- NUTS 2021, https://sdi.eea.europa.eu/catalogue/EEA_Reference_Catalogue/eng/catalog.search#/metadata/e4316fd1-db00-428b-8034-61d56c2fe2ca
- LAU 2020, https://sdi.eea.europa.eu/catalogue/EEA_Reference_Catalogue/eng/catalog.search#/metadata/fd30a070-48b7-49e9-a6b6-c37d4f1e15f9

Information related to the table ESTATUnitReference_Rail and ESTATUnitReference_Road

The END conceptual data model and the END reporting mechanism require information about the NUTS / LAU reference datasets to define the appropriate administrative level at which the competent authority is responsible for implementing the noise directive. To provide this information, the pre-defined MS Excel templates and the Reportnet 3 dataset schemas include two tables ESTATUnitReference_Rail and ESTATUnitReference_Road.

If the recommended Eurostat NUTS 2021 and LAU 2020 geospatial datasets are used in the competent authorities dataflow, the following default information can be included in both tables:

ESTATNUTSReferenceTitle	Eurostat, GISCO, Nomenclature of Territorial Units for Statistics (NUTS) 2021 - Statistical Units
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ESTATNUTSReferenceLink	https://gisco-services.ec.europa.eu/distribution/v2/nuts/nuts-2021-metadata.pdf
ESTATLAUReferenceTitle	Eurostat, GISCO Local Administrative Units, 2020 - Administrative Units
ESTATLAUReferenceLink	https://gisco-services.ec.europa.eu/distribution/v2/lau/lau-2020-metadata.pdf

If other NUTS and LAU geospatial datasets are used, a dataset title and URL for additional information or access to a dataset must be provided in the corresponding table.

5 Data schema: Competent Authority (DF2)

5.1 Description

Information about the designated competent authority and bodies responsible for implementing the Directive 2002/49/EC, including the authorities responsible for: making and, where relevant, approving noise maps and action plans for agglomerations, major roads, major railways, and major airports; collecting noise maps and action plans; and, optionally, for designating quiet areas.

The Competent Authority data schema includes 10 tables:

- CompetentAuthorityDetails
- CompetentAuthorityAirport
- CompetentAuthorityAgglomeration
- CompetentAuthorityRail
- CompetentAuthorityRoad
- CompetentAuthorityQuietArea
- ESTATUnitReference_Rail
- ESTATUnitReference_Road
- DatasetDefaultProperties: Information about the default values of objects in a data set or a table (read only schema, and already filled in in Reportnet 3)
- CodelistProperties: list of applicable code lists in that data schema (read only schema, and already filled in in Reportnet 3).

5.2 Table CompetentAuthorityDetails

The table *CompetentAuthorityDetails* provides information about the competent authority and bodies responsible for implementing the END Directive.

Table 5.1.C competentAuthorityDetails table overview

Mandatory /optional/ conditional	Name	Reportnet Type 3	Code list
M	competentAuthorityId_identifier	Text	
M	competentAuthorityName	Multiline text	
M	streetName	Multiline text	
O	buildingNumber	Text	
M	postalCode	Text	
M	city	Multiline text	

The following section includes detailed information of each field, i.e. description, type, format, use of code lists (where applicable), additional information of expected data or guidelines to prepare data, and data samples.

5.2.1 Field competentAuthorityId_identifier

Requirement	Mandatory
Description	Unique identifier of the competent authority. Shall be filled in with the unique code of the competent authority
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	The value of this field will be reused across the different tables in this schema
Example	CA_CZ_00_10
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.2.2 Field competentAuthorityName

Requirement	Mandatory
Description	Full name of the competent authority responsible for implementing the END Directive, that can include the Organisation name, Department and Unit (if applicable)
Reportnet 3 type	Multiline text
Format	Maximum of 10000 characters
Example	European Environment Agency, Air Pollution, Environment and Health Group
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.2.3 Field streetName

Requirement	Mandatory
Description	Street name as part of the competent authority's official address
Reportnet 3 type	Multiline text
Format	Maximum of 10000 characters
Example	Kongens Nytorv
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.2.4 Field buildingNumber

Requirement	Optional
Description	Number of the building as part of the competent authority's official address
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Example	6
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.2.5 Field postalCode

Requirement	Mandatory
Description	Postal code of the city where the competent authority is located. It is part of the competent authority's official address
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Example	1050
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.2.6 Field city

Requirement	Mandatory
Description	Name of the city where the competent authority is located. It is part of the competent authority's official address
Reportnet 3 type	Multiline text
Format	Maximum of 10000 characters
Example	Copenhagen
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.3 Table CompetentAuthorityAirport

The table *CompetentAuthorityAirport* provides information about responsibilities of the competent authority or its organisational units with regard to developing, approving or collecting noise maps and action plans related to noise from major airports. Responsibilities of competent authority or its organisational units shall be provided for each major airport.

Table 5.2. CompetentAuthorityAirport table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	competentAuthorityIdIdentifier	Link	
M	ICAOCode	Text	
M	competentAuthorityRole	Link	https://dd.eionet.europa.eu/vocabulary/noise/CompetentAuthorityRoleValue

The following section includes detailed information of each field, i.e. description, type, format, use of code lists (where applicable), additional information of expected data or guidelines to prepare data, and data samples.

5.3.1 Field *competentAuthorityIdIdentifier*

Requirement	Mandatory
Description	Unique identifier of the competent authority. Shall be filled in with the unique code of the competent authority. It is expected to be the same as the identifier from the table <i>CompetentAuthorityDetails</i> (field: <i>competentAuthorityId_identifier</i>).
Reportnet 3 type	Link
Format	Only one value is allowed
Information	Need to re-use the unique identifier of the competent authority.
Example	CA_CZ_00_10

5.3.2 Field *ICAOCode*

Requirement	Mandatory
Description	Unique international code of airport defined by the International Civil Aviation Organization.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	ICAOCode will be re-used across the complete END data model to uniquely identify spatial objects and all other objects – entities. Each ICAO code provided in this dataflow should be provided in Noise Sources (DF1_5) dataflow (see section 4.2.3). The submission of DF2 will be blocked if the ICAO code is not included in DF1_5 Major airports.
Example	LOWW
Reporting constraints	Responsibilities of competent authority or its organisational units shall be provided for each major airport
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.3.3 Field *competentAuthorityRole*

Requirement	Mandatory
Description	Role of the competent authority for major airport
Reportnet 3 type	Link
Format	Multiple values are allowed Value separated list with the separation character “;” (semicolon)
Code list	Code list URL: https://dd.eionet.europa.eu/vocabulary/noise/CompetentAuthorityRoleValue Applicable code list values: - mappingDevelopment - mappingApproval (only if applicable) - mappingCollection - actionPlanDevelopment - actionPlanApproval (only if applicable) - actionPlanCollection
Information	At least one of the code values related to strategic noise mapping (“mappingDevelopment”, “mappingCollection”, “mappingApproval”) and one of the code values related to action planning (“actionPlanDevelopment”, “actionPlanCollection”, “actionPlanApproval”) need to be provided per each ICAOCode. It is also possible to provide two or more competent authorities for the same role and for the same ICAOCode. For instance one authority is competent for the management of air traffic routes and another authority for land use planning.
Example	mappingDevelopment; actionPlanDevelopment; actionPlanCollection

5.4 Table CompetentAuthorityAgglomeration

The table *CompetentAuthorityAgglomeration* provides information about responsibilities of the competent authority or its organisational units with regard to developing, approving or collecting noise maps and action plans related to noise in agglomerations. Responsibilities of competent authority or its organisational units shall be provided for each agglomeration.

Table 5.3. CompetentAuthorityAgglomeration table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	competentAuthorityIdIdentifier	Link	
M	agglomerationIdIdentifier	Text	
M	competentAuthoritySource	Link	https://dd.eionet.europa.eu/vocabulary/noise/NoiseSourceValue/
M	competentAuthorityRole	Link	https://dd.eionet.europa.eu/vocabulary/noise/CompetentAuthorityRoleValue

The following section includes detailed information of each field, i.e. description, type, format, use of code lists (where applicable), additional information of expected data or guidelines to prepare data, and data samples.

5.4.1 Field competentAuthorityIdIdentifier

Requirement	Mandatory
Description	Unique identifier of the competent authority. Shall be filled in with the unique code of the competent authority. It is expected to be the same as the identifier from the table CompetentAuthorityDetails (field: competentAuthorityId_identifier).
Reportnet 3 type	Link
Format	Only one value is allowed
Information	Need to re-use the unique identifier of the competent authority.
Example	CA_DE_BW_10

5.4.2 Field *agglomerationIdIdentifier*

Requirement	Mandatory
Description	Unique identifier assigned to each agglomeration. It is expected to be the same as the identifier from the feature type <i>AgglomerationSource</i> (<i>agglomerationId_identifier</i>) from END dataflow DF1_5 for Agglomerations.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	The value of this field re-uses the identifier of the agglomerations defined in DF1_5 (see more information in section 4.2.3).
Example	AG_DE_BW_3
Reporting constraints	Agglomeration identifier will be re-used across the complete END data model to uniquely identify spatial objects and all other objects – entities. Each unique identifier provided in this dataflow should be provided in Noise Sources (DF1_5) dataflow. The submission of DF2 will be blocked if the agglomeration identifier is not included in DF1_5 agglomerations
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.4.3 Field competentAuthoritySource

Requirement	Mandatory
Description	Noise source for which the competent authority is responsible inside agglomeration
Reportnet 3 type	Link
Format	Only one value is allowed
Code list	Code list URL: https://dd.eionet.europa.eu/vocabulary/noise/NoiseSourceValue/ Applicable code list values: - Conditional: ○ agglomerationAir (if applicable) ○ agglomerationIndustry (if applicable) ○ agglomerationRoad (if applicable) ○ agglomerationRailway (if applicable) ○ OR ○ agglomerationAllSources - Optional: ○ agglomerationMajorAirport ○ agglomerationMajorRoad ○ agglomerationMajorRailway
Information	Cities need to provide the competent authorities responsible for the END implementation for the different noise sources existing inside each agglomeration. For instance cities that have roads and airports but no railways neither industry are expected to select “agglomerationRoad”, “agglomerationAir” assuming that the competent authority covers all roads and all airports inside the city. If there is a specific competent authority for the major sources inside the city, then “agglomerationMajorRoad” and “agglomerationMajorAirport” need to be also selected to indicate the distinct competent authority. The same approach applies to “agglomerationRailway” and “agglomerationMajorRailway” in agglomerations. It is also possible to provide two or more competent authorities for the same noise source type. For instance one local authority is competent for tramways and another authority for railways (both are “agglomerationRailway”). “agglomerationAllSources” can also be selected if one competent authority is responsible for the END implementation in the agglomeration. It will be assumed that all applicable sources declared in DF1_5 for that agglomeration are covered by the declared competent authority.
Example	agglomerationRoad
Reporting constraints	Competent authorities to the different noise sources reported here will be compared with the “applicableSource” reported in Agglomeration Source (DF1_5) schema of the Noise Sources (DF1_5) dataflow. All noise sources declared in DF1_5 “applicableSource” must be provided in competent authorities for agglomerations. By selecting the code list value “agglomerationAllSources”, it is going to be assumed that the competent authority is responsible for the implementation of the END for all the noise sources declared in DF1_5 “applicableSource”.

5.4.4 Field competentAuthorityRole

Requirement	Mandatory
Description	Role of the competent authority with regard to the selected noise source inside agglomeration
Reportnet 3 type	Link
Format	Multiple values are allowed Value separated list with the separation character “;” (semicolon)
Code list	Code list URL: https://dd.eionet.europa.eu/vocabulary/noise/CompetentAuthorityRoleValue Applicable code list values: - mappingDevelopment - mappingApproval (only if applicable) - mappingCollection - actionPlanDevelopment - actionPlanApproval (only if applicable) - actionPlanCollection
Information	At least one of the code values related to strategic noise mapping (“mappingDevelopment”, “mappingCollection”, “mappingApproval”) and one of the code values related to action planning (“actionPlanDevelopment”, “actionPlanCollection”, “actionPlanApproval”) need to be provided per each “agglomerationIdIdentifier” and “competentAuthoritySource”.
Example	mappingDevelopment; actionPlanDevelopment; actionPlanCollection

Example of a reporting table :

competentAuthorityIdIdentifier	agglomerationIdIdentifier	competentAuthoritySource	competentAuthorityRole
CA_AT_00_01	AG_AT_00_1	agglomerationAir	mappingCollection; actionPlanCollection
CA_AT_00_04	AG_AT_00_1	agglomerationAir	mappingDevelopment; actionPlanDevelopment
CA_AT_00_01	AG_AT_00_1	agglomerationIndustry	mappingCollection; actionPlanCollection
CA_AT_00_05	AG_AT_00_1	agglomerationIndustry	mappingDevelopment; actionPlanDevelopment
CA_AT_00_06	AG_AT_00_1	agglomerationIndustry	mappingDevelopment; actionPlanDevelopment
CA_AT_00_01	AG_AT_00_1	agglomerationMajorAirport	mappingCollection; actionPlanCollection
CA_AT_00_04	AG_AT_00_1	agglomerationMajorAirport	mappingDevelopment; actionPlanDevelopment
CA_AT_00_01	AG_AT_00_1	agglomerationMajorRailway	mappingCollection; actionPlanCollection
CA_AT_00_03	AG_AT_00_1	agglomerationMajorRailway	mappingDevelopment; actionPlanDevelopment
CA_AT_00_01	AG_AT_00_1	agglomerationMajorRoad	mappingCollection; actionPlanCollection
CA_AT_00_02	AG_AT_00_1	agglomerationMajorRoad	mappingDevelopment; actionPlanDevelopment
CA_AT_00_09	AG_AT_00_1	agglomerationMajorRoad	mappingDevelopment; actionPlanDevelopment
CA_AT_00_15	AG_AT_00_1	agglomerationMajorRoad	mappingDevelopment; actionPlanDevelopment

CA_AT_00_01	AG_AT_00_1	agglomerationRailway	mappingCollection; actionPlanCollection
CA_AT_00_03	AG_AT_00_1	agglomerationRailway	mappingDevelopment; mappingApproval; actionPlanDevelopment; actionPlanApproval
CA_AT_00_15	AG_AT_00_1	agglomerationRailway	mappingDevelopment; actionPlanDevelopment
CA_AT_00_01	AG_AT_00_1	agglomerationRoad	mappingCollection; actionPlanCollection
CA_AT_00_02	AG_AT_00_1	agglomerationRoad	mappingDevelopment; actionPlanDevelopment
CA_AT_00_09	AG_AT_00_1	agglomerationRoad	mappingDevelopment; actionPlanDevelopment
CA_AT_00_15	AG_AT_00_1	agglomerationRoad	mappingDevelopment; actionPlanDevelopment

5.5 Table CompetentAuthorityRail

The table *CompetentAuthorityRail* provides information about responsibilities of the competent authority or its organisational units with regard to developing, approving or collecting noise maps and action plans related to noise from major railways. Responsibilities of competent authority or its organisational units shall be provided for one of the following reporting levels: country, NUTS, LAU, entity (corresponding in this case to major railway segments).

Table 5.4. CompetentAuthorityRail table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	competentAuthorityIdIdentifier	Link	
M	competentAuthorityRole	Link	https://dd.eionet.europa.eu/vocabulary/noise/CompetentAuthorityRoleValue
M	reportingLevel	Link	https://dd.eionet.europa.eu/vocabulary/noise/LevelValue
C	ESTATUnitCode	Text	
C	railIdIdentifier	Text	

The following section includes detailed information of each field, i.e. description, type, format, use of code lists (where applicable), additional information of expected data or guidelines to prepare data, and data samples.

5.5.1 Field *competentAuthorityIdIdentifier*

Requirement	Mandatory
Description	Unique identifier of the competent authority. Shall be filled in with the unique code of the competent authority. It is expected to be the same as the identifier from the table CompetentAuthorityDetails (field: competentAuthorityId_identifier).
Reportnet 3 type	Link
Format	Only one value is allowed
Information	Need to re-use the unique identifier of the competent authority.
Example	CA_AT_00_7

5.5.2 Field *competentAuthorityRole*

Requirement	Mandatory
Description	Role of the competent authority for major railway
Reportnet 3 type	Link
Format	Only one value is allowed
Code list	Code list URL: https://dd.eionet.europa.eu/vocabulary/noise/CompetentAuthorityRoleValue Applicable code list values: - mappingDevelopment - mappingApproval (only if applicable) - mappingCollection - actionPlanDevelopment - actionPlanApproval (only if applicable) - actionPlanCollection
Information	At least one of the code values related to strategic noise mapping (“mappingDevelopment”, “mappingCollection”, “mappingApproval”) and one of the code values related to action planning (“actionPlanDevelopment”, “actionPlanCollection”, “actionPlanApproval”) need to be provided per each unique combination between “reportingLevel” and the corresponding “ESTATUnitCode” or “railIdIdentifier” . It is also possible to provide two or more competent authorities for the same role. For instance one regional authority is competent for regional railways and another authority for federal railways.
Example	actionPlanDevelopment

5.5.3 Field *reportingLevel*

Requirement	Mandatory
Description	Reporting level of the competent authorities for major railway. Country, NUTS 1, NUTS 2, NUTS 3, LAU or entity (representing segments of major railways) should be provided.
Reportnet 3 type	Link
Format	Only one value is allowed
Code list	Code list URL: https://dd.eionet.europa.eu/vocabulary/noise/ReportingLevelValue Applicable code list values: - entity - LAU - NUTS3 - NUTS2 - NUTS1 - country
Example	LAU

5.5.4 Field *ESTATUnitCode*

Requirement	Conditional
Description	Unique code corresponding to the reporting unit chosen (country, NUTS region or LAU), according to the Eurostat classification of territorial units. Shall be reported if country, NUTS or LAU are selected in reportingLevel attribute.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	LAU code to be reported when selecting LAU value in the attribute "reportingLevel". NUTS1, NUTS2, NUTS3 code to be reported when selecting NUTS1, NUTS2 or NUTS3 values respectively in the attribute "reportingLevel". 2 letter country code to be reported when selecting country value in the attribute "reportingLevel".
Example	50101
Reporting constraints	If NUTS or LAU are provided, the table ESTATUnitReference_Rail should be filled in.
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.5.5 Field *railIdIdentifier*

Requirement	Conditional
Description	Unique code corresponding to a railway segment. The unique code is expected to be the same as the identifier from the feature type MajorRailwaySource (railId_identifier) from END dataflow DF1_5 for Major Railways. Shall be reported if entity is selected in reportingLevel attribute.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	The railIdIdentifier is optional if the reportingLevel is country, LAU or NUTS region. The value of this field re-uses the identifier of the major railways defined in DF1_5 (see more information in section 4.2.3).
Example	RL_AT_00_1
Reporting constraints	Rail identifier will be re-used across the complete END data model to uniquely identify spatial objects and all other objects – entities. Each unique identifier provided in this dataflow should be provided in Noise Sources (DF1_5) dataflow. The submission of DF2 will be blocked if the rail identifier is not included in DF1_5 major railway when selecting reportingLevel as entity.
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.6 Table *CompetentAuthorityRoad*

The table *CompetentAuthorityRoad* provides information about responsibilities of the competent authority or its organisational units with regard to developing, approving or collecting noise maps and action plans related to noise from major roads. Responsibilities of competent authority or its

organisational units shall be provided for one of the following reporting levels: country, NUTS, LAU, entity (corresponding in this case to major roads segments).

Table 5.5. CompetentAuthorityRoad table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	competentAuthorityIdIdentifier	Link	
M	competentAuthorityRole	Link	https://dd.eionet.europa.eu/vocabulary/noise/CompetentAuthorityRoleValue
M	reportingLevel	Link	https://dd.eionet.europa.eu/vocabulary/noise/LevelValue
C	ESTATUnitCode	Text	
C	roadIdIdentifier	Text	

The following section includes detailed information of each field, i.e. description, type, format, use of code lists (where applicable), additional information of expected data or guidelines to prepare data, and data samples.

5.6.1 Field competentAuthorityIdIdentifier

Requirement	Mandatory
Description	Unique identifier of the competent authority. Shall be filled in with the unique code of the competent authority. It is expected to be the same as the identifier from the table CompetentAuthorityDetails (field: competentAuthorityId_identifier).
Reportnet 3 type	Link
Format	Only one value is allowed
Information	Need to re-use the unique identifier of the competent authority.
Example	CA_AT_00_7

5.6.2 Field *competentAuthorityRole*

Requirement	Mandatory
Description	Role of the competent authority for major roads
Reportnet 3 type	Link
Format	Only one value is allowed
Code list	Code list URL: https://dd.eionet.europa.eu/vocabulary/noise/CompetentAuthorityRoleValue Applicable code list values: - mappingDevelopment - mappingApproval (only if applicable) - mappingCollection - actionPlanDevelopment - actionPlanApproval (only if applicable) - actionPlanCollection
Information	At least one of the code values related to strategic noise mapping (“mappingDevelopment”, “mappingCollection”, “mappingApproval”) and one of the code values related to action planning (“actionPlanDevelopment”, “actionPlanCollection”, “actionPlanApproval”) need to be provided per each unique combination between “reportingLevel” and the corresponding “ESTATUnitCode” or “roadIdIdentifier” . It is also possible to provide two or more competent authorities for the same role. For instance one regional authority is competent for regional roads and another authority for motorways.
Example	actionPlanDevelopment

5.6.3 Field *reportingLevel*

Requirement	Mandatory
Description	Reporting level of the competent authorities for major road. Country, NUTS 1, NUTS 2, NUTS 3, LAU or entity (representing segments of major roads) should be provided.
Reportnet 3 type	Link
Format	Only one value is allowed
Code list	Code list URL: https://dd.eionet.europa.eu/vocabulary/noise/ReportingLevelValue Applicable code list values: - entity - LAU - NUTS3 - NUTS2 - NUTS1 - country
Example	LAU

5.6.4 Field *ESTATUnitCode*

Requirement	Conditional
Description	Unique code corresponding to the reporting unit chosen (country, NUTS region or LAU), according to the Eurostat classification of territorial units. Shall be reported if country, NUTS or LAU are selected in reportingLevel attribute.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	LAU code to be reported when selecting LAU value in the attribute "reportingLevel". NUTS1, NUTS2, NUTS3 code to be reported when selecting NUTS1, NUTS2 or NUTS3 values respectively in the attribute "reportingLevel". 2 letter country code to be reported when selecting country value in the attribute "reportingLevel".
Example	50101
Reporting constraints	If NUTS or LAU are provided, the table ESTATUnitReference_Road should be filled in.
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.6.5 Field *roadIdIdentifier*

Requirement	Conditional
Description	Unique code corresponding to a road segment. The unique code is expected to be the same as the identifier from the feature type MajorRoadSource (roadId_identifier) from END dataflow DF1_5 for Major Roads. Shall be reported if entity is selected in reportingLevel attribute.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	The roadIdIdentifier is optional if the reportingLevel is country, LAU or NUTS region. The value of this field re-uses the identifier of the major roads defined in DF1_5 (see more information in section 4.2.3).
Example	RD_AT_00_1
Reporting constraints	Road identifier will be re-used across the complete END data model to uniquely identify spatial objects and all other objects – entities. Each unique identifier provided in this dataflow should be provided in Noise Sources (DF1_5) dataflow. The submission of DF2 will be blocked if the road identifier is not included in DF1_5 major road when selecting reportingLevel as entity.
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.7 Table CompetentAuthorityQuietArea

The table *CompetentAuthorityQuietArea* provides information about the competent authority or its organisational units with regard to designation of quiet areas (both inside agglomerations and in open country). This table can be left empty if there are no quiet areas established.

Table 5.6. CompetentAuthorityQuietArea table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	competentAuthorityIdIdentifier	Link	
M	competentAuthorityType	Link	https://dd.eionet.europa.eu/vocabulary/inspire/SpecialisedZoneTypeCode
M	quietAreaIdIdentifier	Text	

The following section includes detailed information of each field, i.e. description, type, format, use of code lists (where applicable), additional information of expected data or guidelines to prepare data, and data samples.

5.7.1 Field competentAuthorityIdIdentifier

Requirement	Mandatory
Description	Unique identifier of the competent authority. Shall be filled in with the unique code of the competent authority. It is expected to be the same as the identifier from the table CompetentAuthorityDetails (field: competentAuthorityId_identifier).
Reportnet 3 type	Link
Format	Only one value is allowed
Information	Need to re-use the unique identifier of the competent authority.
Example	CA_AT_00_7

5.7.2 Field *competentAuthorityType*

Requirement	Mandatory
Description	Quiet area type for which the competent authority is responsible.
Reportnet 3 type	Link
Format	Multiple values are allowed
Code list	Code list URL: https://dd.eionet.europa.eu/vocabulary/inspire/SpecialisedZoneTypeCode Applicable code list values: - quietAreaInAgglomeration - quietAreaInOpenCountry
Information	This is an INSPIRE attribute. It uses a value from the extended INSPIRE code list SpecialisedZoneTypeCode. • If the quiet area is located in one or more agglomerations, the applicable value is “quietAreaInAgglomeration”. • If the quiet area is located in open country the applicable value is “quietAreaInOpenCountry”. • If the quiet area covers both, open country and externs in agglomerations, the applicable values are “quietAreaInAgglomeration” and “quietAreaInOpenCountry”. The values must be provided separated by “;”
Example	quietAreaInAgglomeration;quietAreaInOpenCountry

5.7.3 Field *quietAreaIdIdentifier*

Requirement	Mandatory
Description	Unique identifier of the quiet area. It is expected to be the same as the identifier from the feature type QuietArea (quietAreaId_identifier) of the data flow Noise action plan (DF7_10): Quiet area.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Example	QA_DK_00_1
Reporting constraints	Quiet area identifier will be re-used across the complete END data model to uniquely identify spatial objects and all other objects – entities. Each unique identifier provided in this dataflow should be provided in Noise action plan (DF7_10): Quiet area dataflow. Competent authorities for quiet areas shall be reported in DF2 when quiet areas are established and before submitting DF7_10.
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.8 Table *ESTATUnitReference_Rail*

The table *ESTATUnitReference_Rail* provides reference information concerning NUTS or LAU dataset if the reporting level of the competent authorities for major railways (reportingLevel) is provided through those EUROSTAT classification of territorial units.

Table 5.7. ESTATUnitReference table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
C	ESTATNUTSReferenceTitle	Text	
C	ESTATNUTSReferenceLink	URL	
C	ESTATLAUReferenceTitle	Text	
C	ESTATLAUReferenceLink	URL	

The following section includes detailed information of each field, i.e. description, type, format, use of code lists (where applicable), additional information of expected data or guidelines to prepare data, and data samples.

5.8.1 Field *ESTATNUTSReferenceTitle*

Requirement	Optional and conditional
Description	Version of the NUTS dataset used for the noise data reporting.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	Needs to be reported if competent authority is specified at NUTS level.
Example	NUTS 2021, Version date: 01/02/2020, Scale: 1:1M, Source: Eurostat
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.8.2 Field *ESTATNUTSReferenceLink*

Requirement	Optional and conditional
Description	Link to the NUTS dataset used for the noise data reporting.
Reportnet 3 type	URL
Format	Maximum of 10000 characters
Information	Needs to be reported if competent authority is specified at NUTS level.
Example	https://gisco-services.ec.europa.eu/distribution/v2/nuts/download/ref-nuts-2021-01m.shp.zip
Reporting constraints	Limit of 2100 characters due to database export constraints. Please see section 3.2.

5.8.3 Field *ESTATLAUReferenceTitle*

Requirement	Optional and conditional
Description	Version of the LAU dataset used for the noise data reporting.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	Needs to be reported if competent authority is specified at LAU level.
Example	EUROSTAT Local Administrative Units (LAU), 2020
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.8.4 Field *ESTATLAUReferenceLink*

Requirement	Optional and conditional
Description	Link to the LAU dataset used for the noise data reporting.
Reportnet 3 type	URL
Format	Maximum of 10000 characters
Information	Needs to be reported if competent authority is specified at LAU level.
Example	https://ec.europa.eu/eurostat/web/gisco/geodata/reference-data/administrative-units-statistical-units/lau
Reporting constraints	Limit of 2100 characters due to database export constraints. Please see section 3.2.

5.9 Table *ESTATUnitReference_Road*

The table *ESTATUnitReference_Road* provides reference information concerning NUTS or LAU dataset if the reporting level of the competent authorities for major roads (reportingLevel) is provided through those EUROSTAT classification of territorial units.

Table 5.8. *ESTATUnitReference* table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
C	ESTATNUTSReferenceTitle	Text	
C	ESTATNUTSReferenceLink	URL	
C	ESTATLAUReferenceTitle	Text	
C	ESTATLAUReferenceLink	URL	

The following section includes detailed information of each field, i.e. description, type, format, use of code lists (where applicable), additional information of expected data or guidelines to prepare data, and data samples.

5.9.1 Field *ESTATNUTSReferenceTitle*

Requirement	Optional and conditional
Description	Version of the NUTS dataset used for the noise data reporting.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	Needs to be reported if competent authority is specified at NUTS level.
Example	NUTS 2021, Version date: 01/02/2020, Scale: 1:1M, Source: Eurostat
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.9.2 Field *ESTATNUTSReferenceLink*

Requirement	Optional and conditional
Description	Link to the NUTS dataset used for the noise data reporting.
Reportnet 3 type	URL
Format	Maximum of 10000 characters
Information	Needs to be reported if competent authority is specified at NUTS level.
Example	https://gisco-services.ec.europa.eu/distribution/v2/nuts/download/ref-nuts-2021-01m.shp.zip
Reporting constraints	Limit of 2100 characters due to database export constraints. Please see section 3.2.

5.9.3 Field *ESTATLAUReferenceTitle*

Requirement	Optional and conditional
Description	Version of the LAU dataset used for the noise data reporting.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	Needs to be reported if competent authority is specified at LAU level.
Example	EUROSTAT Local Administrative Units (LAU), 2020
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.9.4 Field *ESTATLAUReferenceLink*

Requirement	Optional and conditional
Description	Link to the LAU dataset used for the noise data reporting.
Reportnet 3.0 type	URL
Format	Maximum of 10000 characters
Information	Needs to be reported if competent authority is specified at LAU level.
Example	https://ec.europa.eu/eurostat/web/gisco/geodata/reference-data/administrative-units-statistical-units/lau
Reporting constraints	Limit of 2100 characters due to database export constraints. Please see section 3.2.

5.10 Table *DatasetDefaultProperties*

This table includes all properties that can have a default value in a data set. Typically, it includes: default values or void reason for voidable attributes defined in the INSPIRE specifications, and default values of other attributes. The table is prefilled and read-only.

Table 5.9. DatasetDefaultProperties table overview

Mandatory /optional	Name	Reportnet 3 Type
M	tableName	Text
M	propertyName	Text
O	attribute	Text
M	defaultValue	Text

Table 5.10. Applicable values for the DatasetDefaultProperties

tableName	propertyName	attribute	defaultValue
CompetentAuthorityDetails	competentAuthorityId_identifierScheme		http://dd.eionet.europa.eu/vocabulary/inspire/IdentifierScheme/EUENDCode

5.11 Table CodelistProperties

This table includes a list of the code lists that have to be used for reporting data on the DF2 Competent Authorities data model. The complete code lists used in the END data model are also published in the Eionet Data Dictionary (<https://dd.eionet.europa.eu/vocabularies>) and are used in the Reportnet 3 data schemas.

The specific applicable code lists can also be found in the Vocabulary – common tables data schema of this dataflow.

The table is prefilled and read-only.

Table 5.11. CodelistProperties table overview

Mandatory /optional	Name	Reportnet 3 Type
M	tableName	Text
M	propertyName	Text
M	codelist	Text

Table 5.12. Applicable values for the CodelistProperties

tableName	propertyName	codelist
CompetentAuthorityAirport	competentAuthorityRole	http://dd.eionet.europa.eu/vocabulary/noise/CompetentAuthorityRoleValue
CompetentAuthorityAgglomeration	competentAuthoritySource	http://dd.eionet.europa.eu/vocabulary/noise/NoiseSourceValue
CompetentAuthorityAgglomeration	competentAuthorityRole	http://dd.eionet.europa.eu/vocabulary/noise/CompetentAuthorityRoleValue
CompetentAuthorityRoad	competentAuthorityRole	http://dd.eionet.europa.eu/vocabulary/noise/CompetentAuthorityRoleValue
CompetentAuthorityRoad	reportingLevel	http://dd.eionet.europa.eu/vocabulary/noise/LevelValue
CompetentAuthorityRail	competentAuthorityRole	http://dd.eionet.europa.eu/vocabulary/noise/CompetentAuthorityRoleValue
CompetentAuthorityRail	reportingLevel	http://dd.eionet.europa.eu/vocabulary/noise/LevelValue
CompetentAuthorityQuietArea	competentAuthorityType	http://dd.eionet.europa.eu/vocabulary/inspire/SpecialisedZoneTypeCode

6 Data schema: Submission Declaration

6.1 Description

Information on competent authorities submitted or information on the changes from previous submissions and the reasons for submitting updated data.

In the first round of data reported in Reportnet 3 i.e. round 4 for the reporting cycle 2020-2025, the information on competent authorities will have to be submitted before submitting the dataflow DF7_10 Action Plans. In future rounds, the data submitted in DF2 Competent Authorities will be copied to the new cycle and the reporters will only have to accept or revise the submission done in the previous reporting cycle (indicating submission in processStatus, as it will correspond to the new reporting cycle).

Competent authorities' information can be updated at any time (indicating resubmission in processStatus). However, as this dataflow will be used to cross-check data in DF7_10 it is important that it is updated to the latest information. In addition to this, DF2 needs to be coherent with other dataflows such as DF1_5.

Any updates on DF2 after the first submission in Reportnet 3 i.e. round 4 for the reporting cycle 2020-2025 will need to be explained in the submission declaration form.

This dataset schema can be used as a documentation of submitted changes over time (history of changes).

The SubmissionDeclaration dataset schema only includes one table:

- SubmissionDeclaration

6.2 Table SubmissionDeclaration

The table *SubmissionDeclaration* includes a list of fields that describe the submission and resubmission status of providing information on competent authorities and their responsibilities, and changes from previous submissions and the reasons for re-submitting data.

Table 6.1. SubmissionDeclaration table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	processStatus	Single select	
C	difference	Multiline text	
C	reason	Multiline text	
O	explanatoryFile	Attachment	
O	dateOfChange	Date	

The following section includes detailed information of each field, i.e. description, type, format, use of code lists (where applicable), additional information of expected data or guidelines to prepare data, and data samples.

6.2.1 *Field processStatus*

Requirement	Mandatory
Description	Type of submission
Reportnet 3 type	Single select
Format	Applicable values: - submission - resubmission
Information	Value “submission” needs to be selected if the reporting is done the first time in the reporting cycle in Reportnet 3. The value “resubmission” needs to be selected for any further updates and resubmissions in the same reporting cycle.
Example	submission

6.2.2 *Field difference*

Requirement	Conditional
Description	Description of the differences from the previous submission.
Reportnet 3 type	Multiline text
Format	Maximum of 10000 characters
Information	Briefly describe all the differences that apply to the resubmission. It is important to indicate the competent authorities and entities and to describe the changes made.
Example	The new competent authority with identifier CA_AT_00_50 for agglomeration with identifier AG_AT_00_3 was assigned for action plan development for noise sources in agglomeration.
Reporting constraints	It is mandatory when “resubmission” is selected in processStatus. Limit of 4000 characters due to database export constraints. Please see section 3.2.

6.2.3 Field reason

Requirement	Conditional
Description	Description of the reasons for the data update.
Reportnet 3 type	Multiline text
Format	Maximum of 10000 characters
Information	Briefly describe the reasons for the data update.
Example	The new competent authority with identifier CA_AT_00_50 for agglomeration with identifier AG_AT_00_3 was assigned for action plan development for noise sources in agglomeration.
Reporting constraints	It is mandatory when “resubmission” is selected in processStatus. Limit of 4000 characters due to database export constraints. Please see section 3.2.

6.2.4 Field explanatoryFile

Requirement	Optional
Description	Placeholder to include an extra explanatory file with details of the submission or resubmission, if applicable.
Reportnet 3 type	Attachment
Format	Any file extension
Information	Recommended .doc, .pdf, .xls
Reporting constraints	Maximum size of the file is 100 MB

6.2.5 Field dateOfChange

Requirement	Optional
Description	Date when the change in the delivery is done
Reportnet 3 type	Date
Format	YYYY-MM-DD
Information	Date of submission or resubmission
Example	2022-10-20

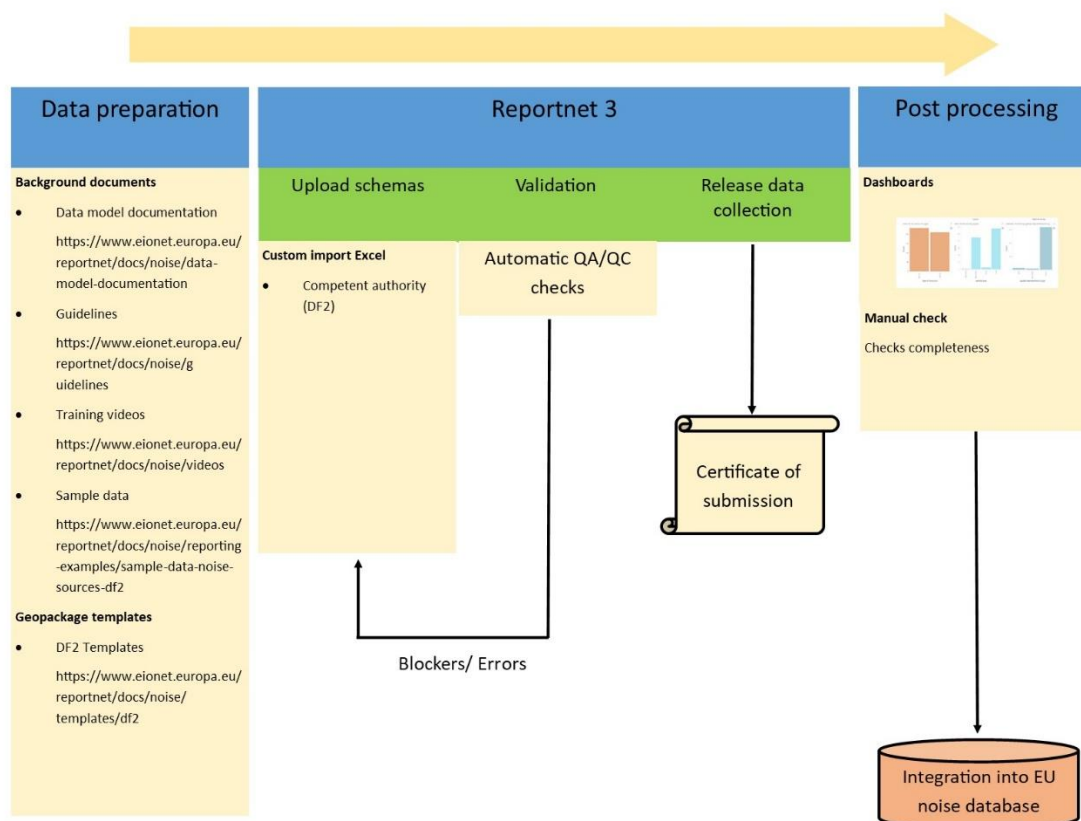
7 Reporting process

7.1 Reporting data in Reportnet 3: overall workflow

Figure 7.1 illustrates the different processes involved in the reporting of DF2 Competent Authorities. The direct link to access to the all the available supporting material can be found here: <https://www.eionet.europa.eu/reportnet/docs/noise>. The preparation of the data involves using predefined templates in MS Excel with the competent authorities information related to major roads, major railways, major airports, agglomerations and quiet areas. The dataflow is organised by one data schema with different tables to be filled in, and a MS Excel template is available for the data schema. One data schema will need to be reported, and once the data files have been uploaded, they can be assessed based on the quality assurance validations that are programmed inside Reportnet 3. The description of these quality checks can be downloaded from: <https://www.eionet.europa.eu/reportnet/docs/noise/validation-rules>.

Once the data is correct, without any blocking errors in the quality checks, the delivery can be completed by releasing the data collection. In case of blocking errors in the validation, the data cannot be released and the reporter will need to correct the content, replace the files and release the data collection again. After the data has been released, a confirmation receipt will be issued and will be available in the dataflow page. The data submitted will be available in Reportnet 3 and if there are other errors, you will receive a standard notification that a correction and a resubmission is needed. All the submissions will be integrated in the EU noise database.

Figure 7.1. Reporting workflow



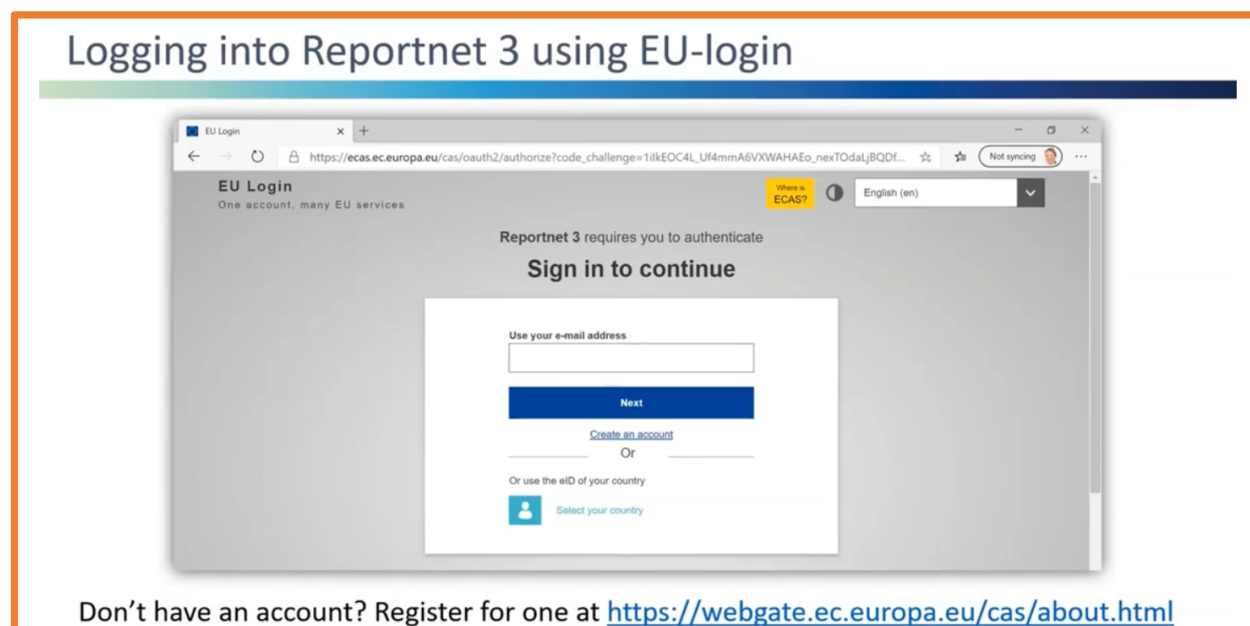
Further information on the reporting process of DF2

- Reportnet 3 reporters' manual : https://www.eionet.europa.eu/reportnet/docs/prod/reporter_howto_reportnet3.0
- Training video: <https://www.eionet.europa.eu/reportnet/docs/noise/videos>

7.2 User accounts and permissions

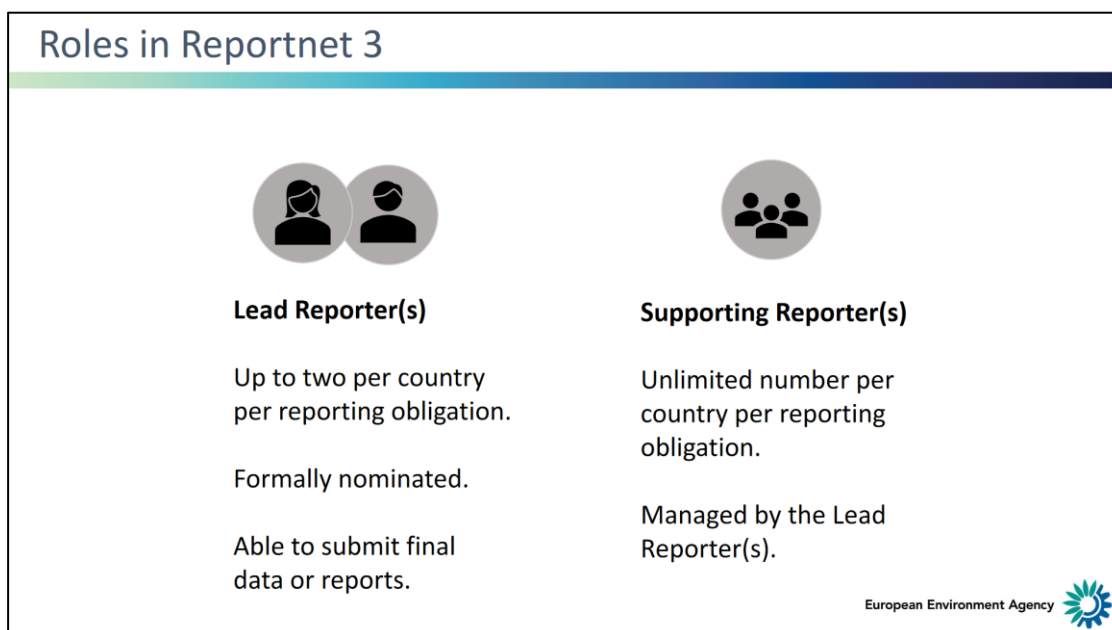
The official reporting will be done through the following URL: <https://reportnet.europa.eu/>. The log in will be done through the EU login portal and the reporter will have to use the EU login details. Therefore, reporters will not be managing an Eionet login account but they will use an EU login account which is separately maintained and that can be more easily updated. Creating an EU account can be done at <https://webgate.ec.europa.eu/cas/about.html>.

Figure 7.2. Log in into Reportnet 3.0 using EU-login



In Reportnet 3 there are two main roles for reporters, one is the lead reporter's role and the other is the supporting reporter's role. Prior, in Reportnet 2, all reporters were registered by the EEA and the lists were maintained by the agency. In the new reporting mechanism, the supporting reporters can prepare the data and can access the reporting platform. The number of supporting reporters is unlimited but those will be managed by the lead reporter. The lead reporter will be in charge to submit the final data and needs to be formally nominated.

Figure 7.3. Roles in Reportnet 3



7.3 Importing data

To import the MS Excel file, the custom imports (.xlsm, .xlsx) needs to be selected as indicated in Figure 7.4. The reporter will be asked to select a file and upload it. If the reporter is replacing the existing data, *Replace data* can be selected (see Figure 7.5).

The option **Replace data** will delete all previously imported data in all tables, which is particularly important if different reporters will import data for the same data schema.

Figure 7.4. Import dataset data

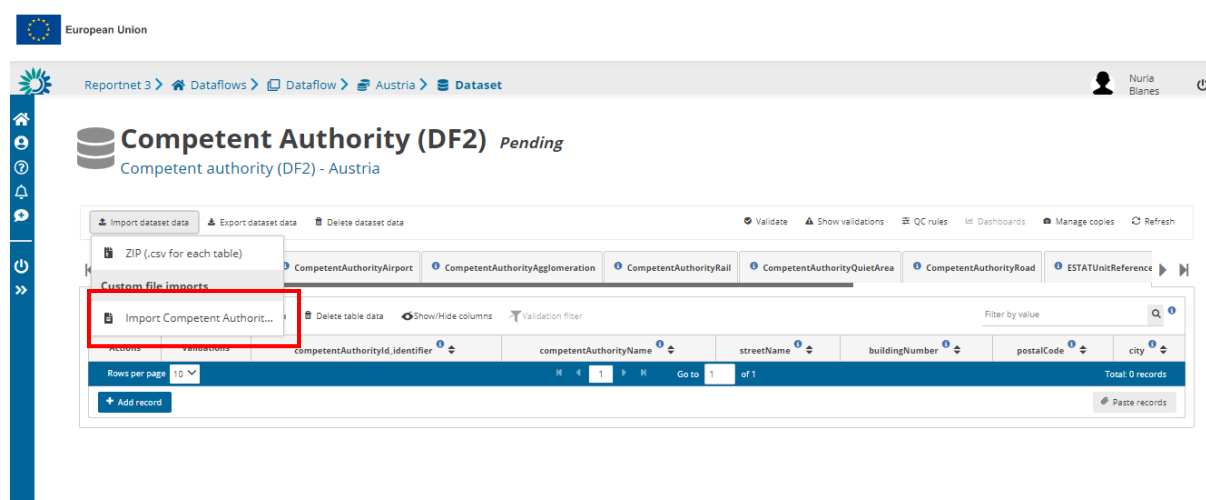
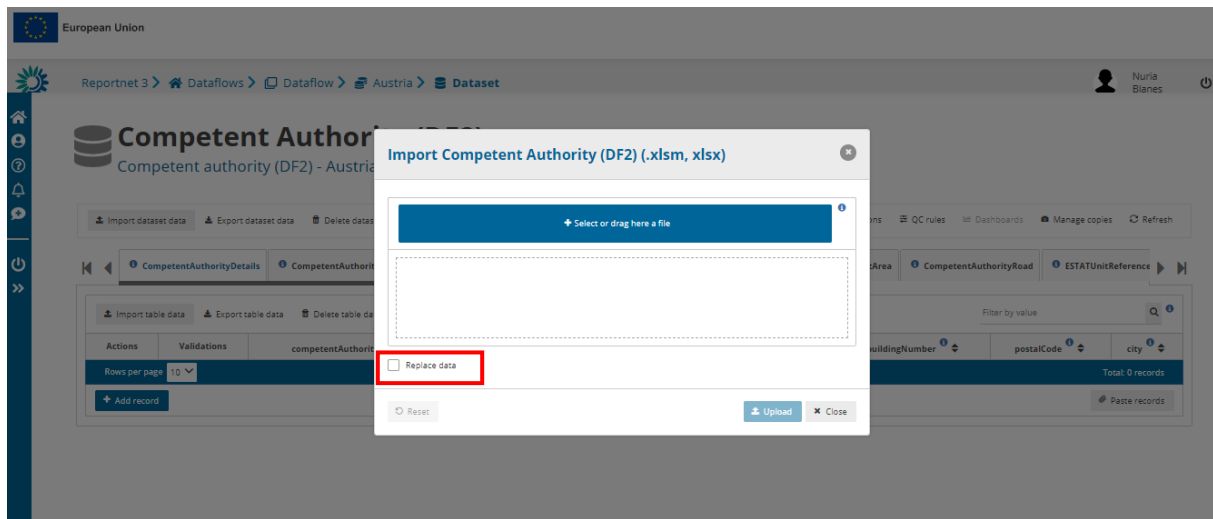


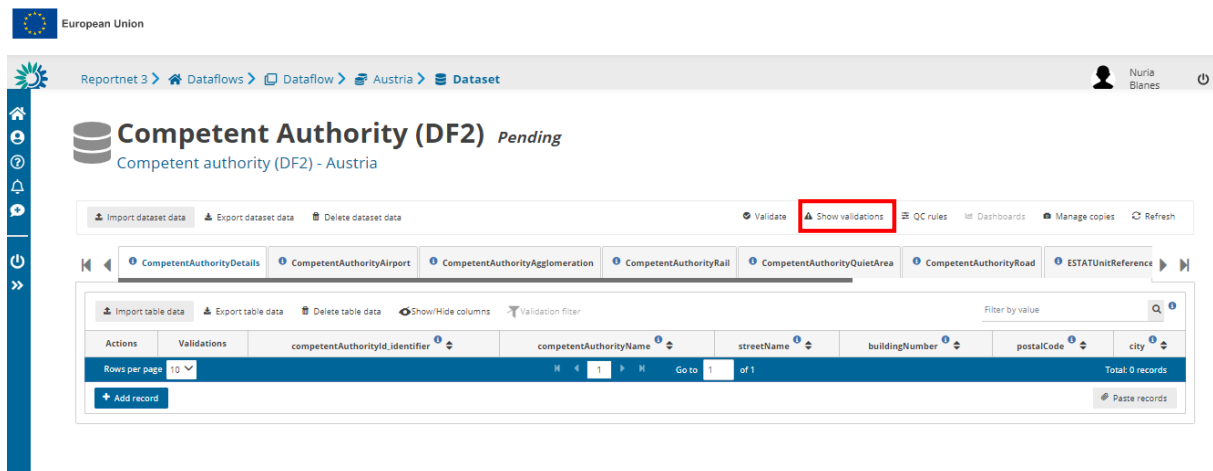
Figure 7.5. Replace data



7.4 Validations

The data to be submitted can be assessed with the validation tools provided in Reportnet 3.0 as shown in Figure 7.6.

Figure 7.6. Show validations



The validations are run automatically when the data is uploaded and the reports can be consulted as shown in Figure 7.7.

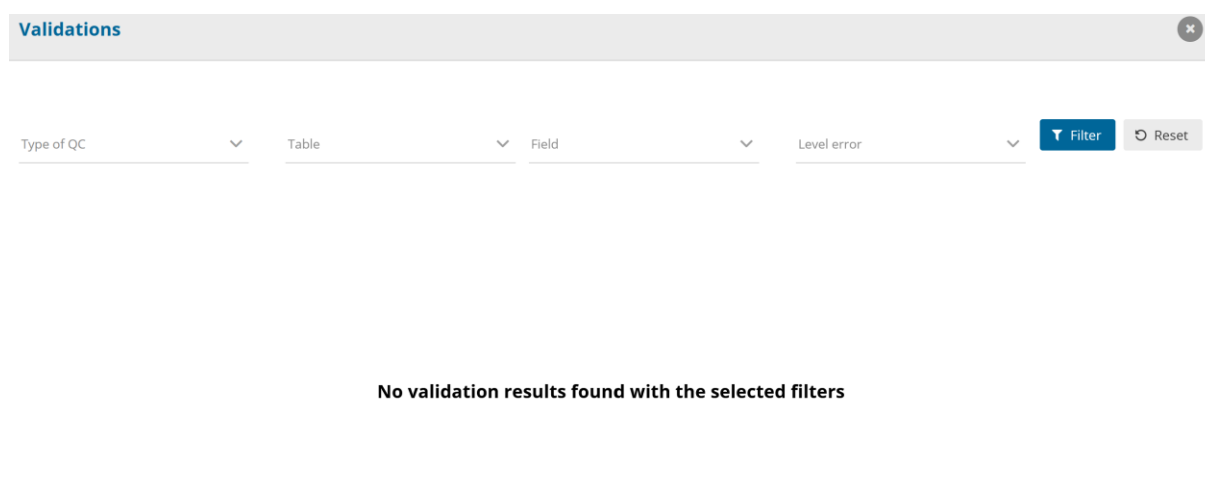
Figure 7.7. QC rules applied for validation

Table	Field	Code	Name	Description	Message	Expression	Type of QC	Level error
CompetentAuthorityDetails	competentAuthorityIdIdentifier	FC2	Field cardinality	Checks if the field is missing or empty	The value must not be missing or empty		FIELD	BLOCKER
CompetentAuthorityDetails	competentAuthorityName	FC52	Field cardinality	Checks if the field is missing or empty	The value must not be missing or empty		FIELD	BLOCKER
CompetentAuthorityDetails	streetName	FC33	Field cardinality	Checks if the field is missing or empty	The value must not be missing or empty		FIELD	BLOCKER
CompetentAuthorityDetails	postalCode	FC55	Field cardinality	Checks if the field is missing or empty	The value must not be missing or empty		FIELD	BLOCKER
CompetentAuthorityDetails	city	FC56	Field cardinality	Checks if the field is missing or empty	The value must not be missing or empty		FIELD	BLOCKER
CompetentAuthorityAirport	ICAOCode	FC57	Field cardinality	Checks if the field is missing or empty	The value must not be missing or empty		FIELD	BLOCKER
CompetentAuthorityAgglomeration	competentAuthoritySource	FC89	Field cardinality	Checks if the field is missing or empty	The value must not be missing or empty		FIELD	BLOCKER
CompetentAuthorityAirport	competentAuthorityRole	FC94	Field cardinality	Checks if the field is missing or empty	The value must not be missing or empty		FIELD	BLOCKER
CompetentAuthorityRoad	competentAuthorityRole	FC96	Field cardinality	Checks if the field is missing or empty	The value must not be missing or empty		FIELD	BLOCKER
CompetentAuthorityRoad	reportingLevel	FC98	Field cardinality	Checks if the field is missing or empty	The value must not be missing or empty		FIELD	BLOCKER

If there are no blockers, errors, warnings, or information messages in the data uploaded, the message shown in Figure 7.8 will be given. Errors identified as “blockers” will not allow the reporter to release the data collection. Obtaining blockers in the validation process means that the data delivered has missing or erroneous elements that may corrupt the integrity of the European noise database or undermine the consistency of the reported data.

All quality control rules are described in Dataflow Help - Dataset schemas / QC rules (see chapter 3.1).

Figure 7.8. Successful validation message



7.5 Official submission of the report

The reporter will be able to submit the data by clicking on "Release to data collection" as shown in Figure 7.9. If there are blockers in any dataset schema, the release will be stopped and the reporter will receive a message indicating that releasing the data is not possible due to errors in the dataset. The reporter can make copies of the data submitted. After the submission a new icon will appear with the confirmation receipt as shown in

Figure 7.10. The confirmation receipt is a pdf with a confirmation of the submission which indicates the data schemas that were submitted. If the reporter changes the data and resubmits a new copy to the data collection, then a new confirmation receipt will be available for download.

Figure 7.9. Release to data collection

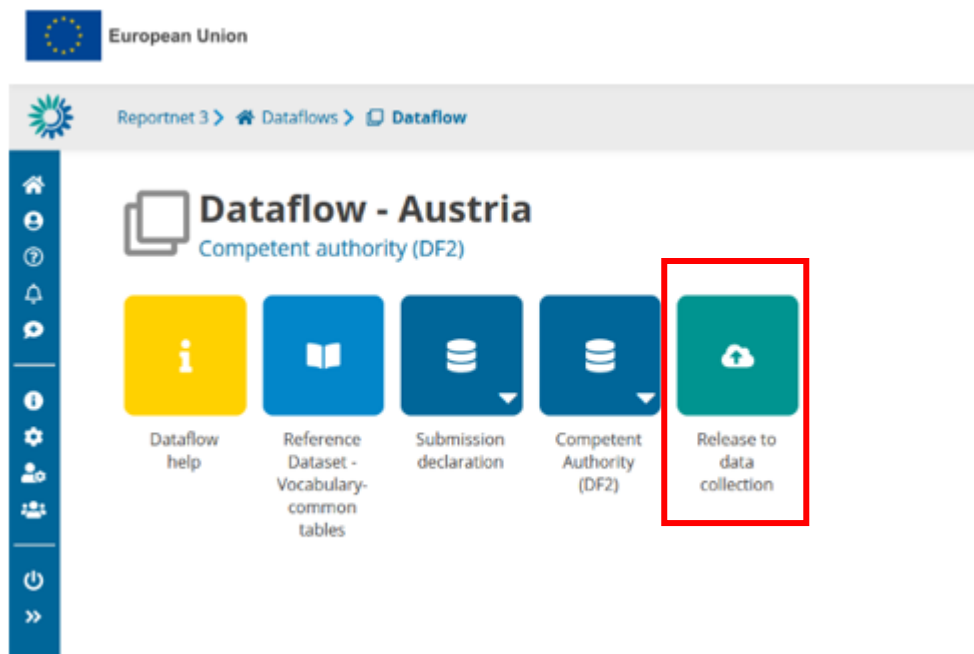
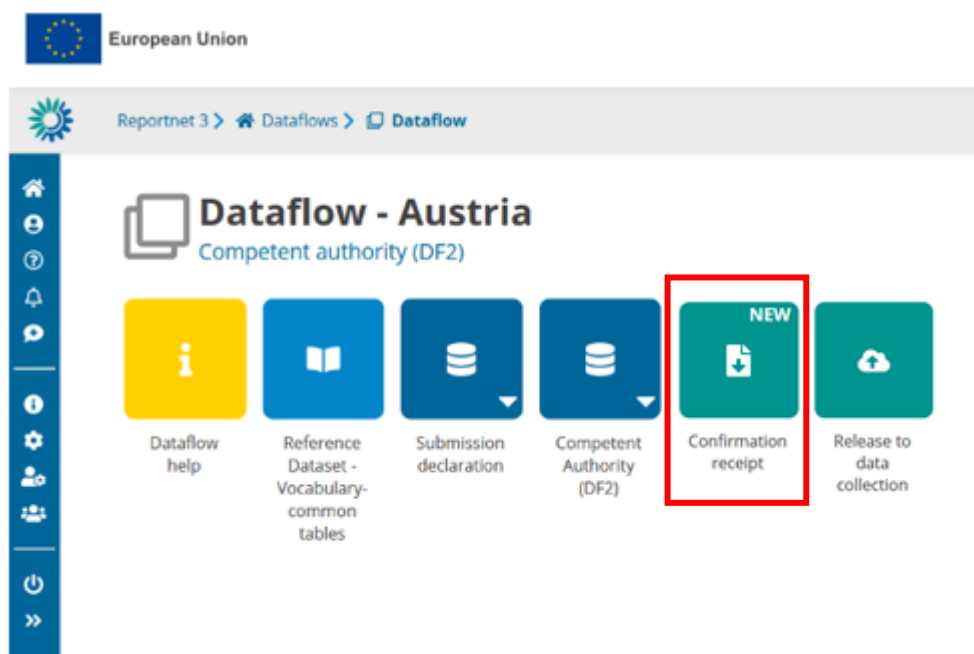


Figure 7.10. Confirmation receipt



7.6 Resubmission

The reporter will be able to replace/update the submission any time during the reporting cycle. This will be captured in the Submission Declaration schema. Any updates on DF2 after the first submission in Reportnet 3 for round 4 i.e. cycle 2020-2025, will need to be explained in the submission declaration form and will be considered as a resubmission.

European Topic Centre on
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