ETC-HE Report 2022/19

Environmental Noise Directive Reporting guidelines

DF3 Noise limit value

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HISTORY OF CHANGES

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July 2024	Issue first version

Contents

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The ETC task manager is Núria Blanes (UAB). The EEA task managers are Eulàlia Peris and Darja Lihteneger.

Contributions from Maria José Ramos and Miquel Sáinz de la Maza (UAB).

Stefania Morrone (Epsilon Italia) provided input to the UML development.

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 DF3 Noise limit values 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

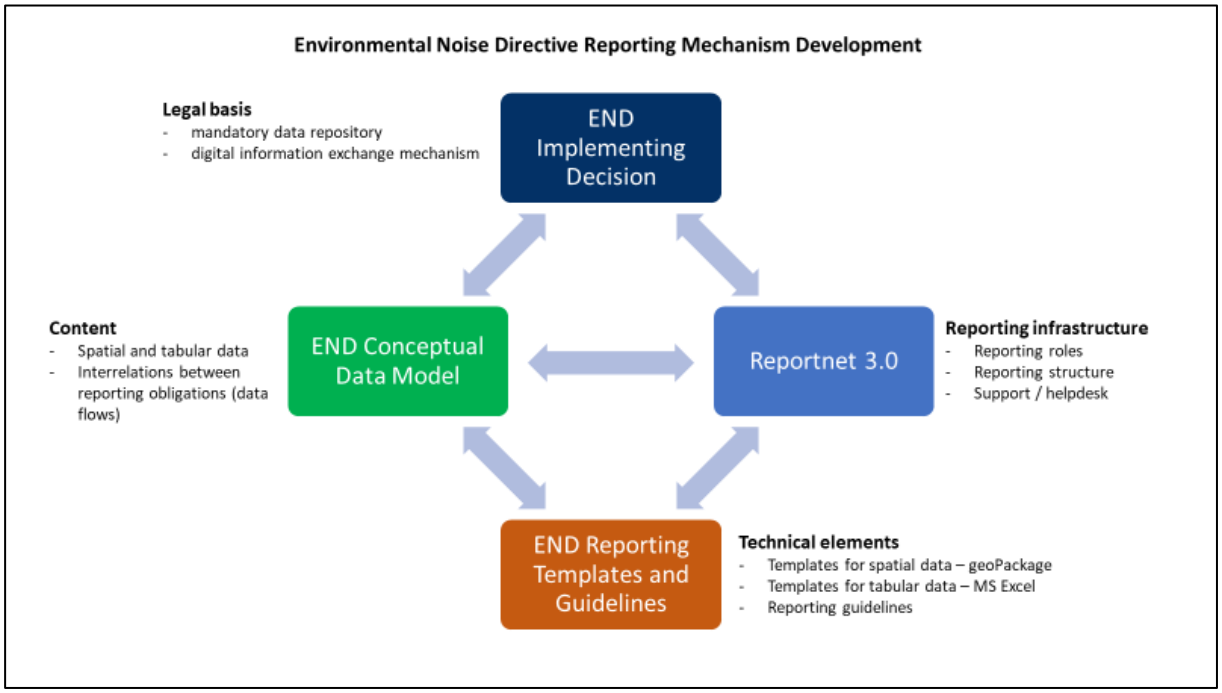
Reporting noise data under the Environmental Noise Directive (END) will occur in Reportnet 3 from 2022. The END reporting is defined in the Directive 2002/49/EC and the reporting requirements are further defined in the *Commission Implementing Decision (EU) 2021/1967 of 11 November 2021 on Setting up 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 regulation[2] 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.

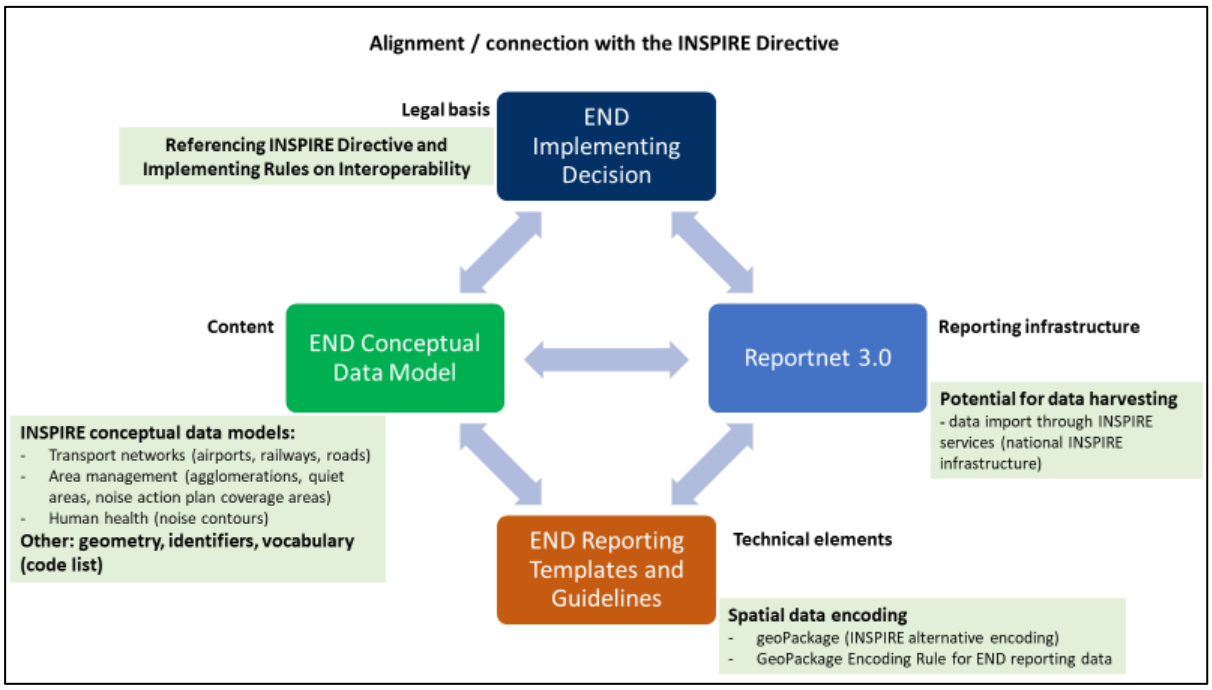
Based on the legal basis, explained in the section above (1.2), the END conceptual data model has been developed on the basis of the INSPIRE conceptual data models for spatial data themes by combining specific END reporting requirements and INSPIRE requirements.

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 GeoPackage[3]. Development of the INSPIRE Good Practice for GeoPackage is supported by the INSPIRE ad-hoc Working Group on GeoPackage[4] which joins interests of geospatial communities for GeoPackage implementation, and considers the END reported data in GeoPackage as one of the implementation examples.

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.

([3]) https://www.geopackage.org/
([4]) https://github.com/INSPIRE-MIF/gp-geopackage-encodings

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



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 Noise limit value (DF3) we considered the following:

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

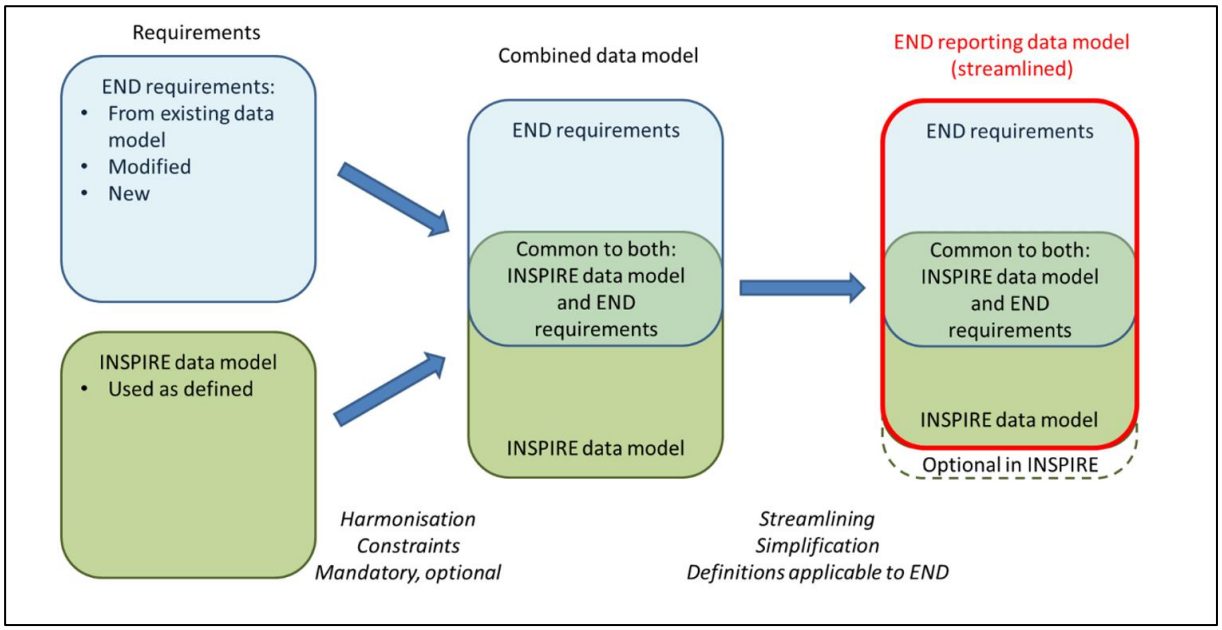
The streamlined data model combines and optimises all the input form the END and INSPIRE into one data model.

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 DF3 is section 12.

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.

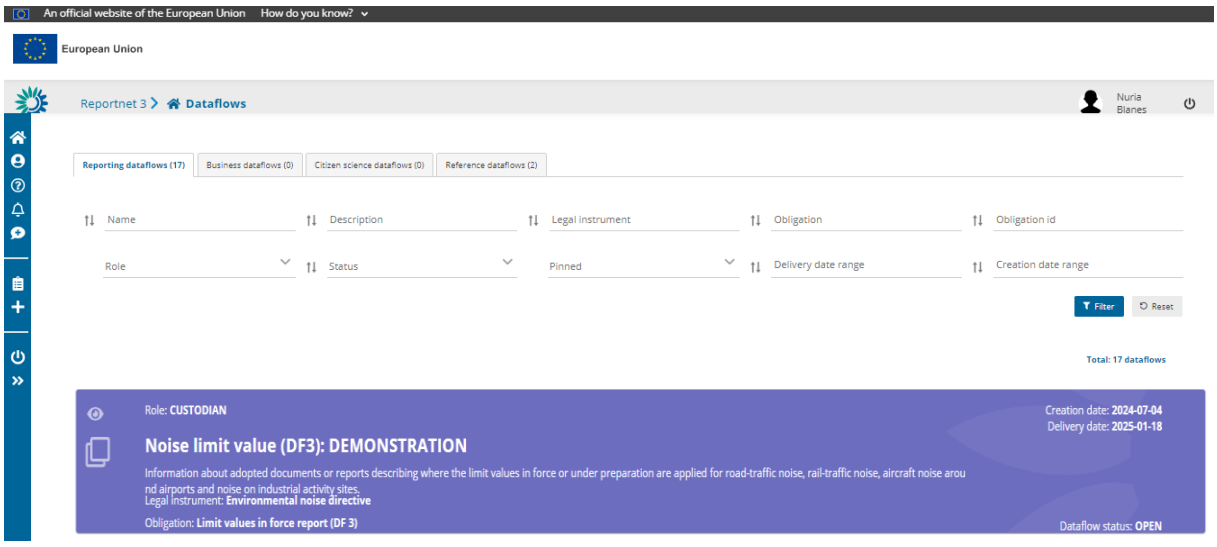
A key element of the new reporting system, Reportnet 3 is being developed by the European Environment Agency. Reportnet 3 (https://reportnet.europa.eu/) is the next generation platform for reporting environmental data to the EEA and also hosts several reporting tasks for the European Commission. Reportnet 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 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.

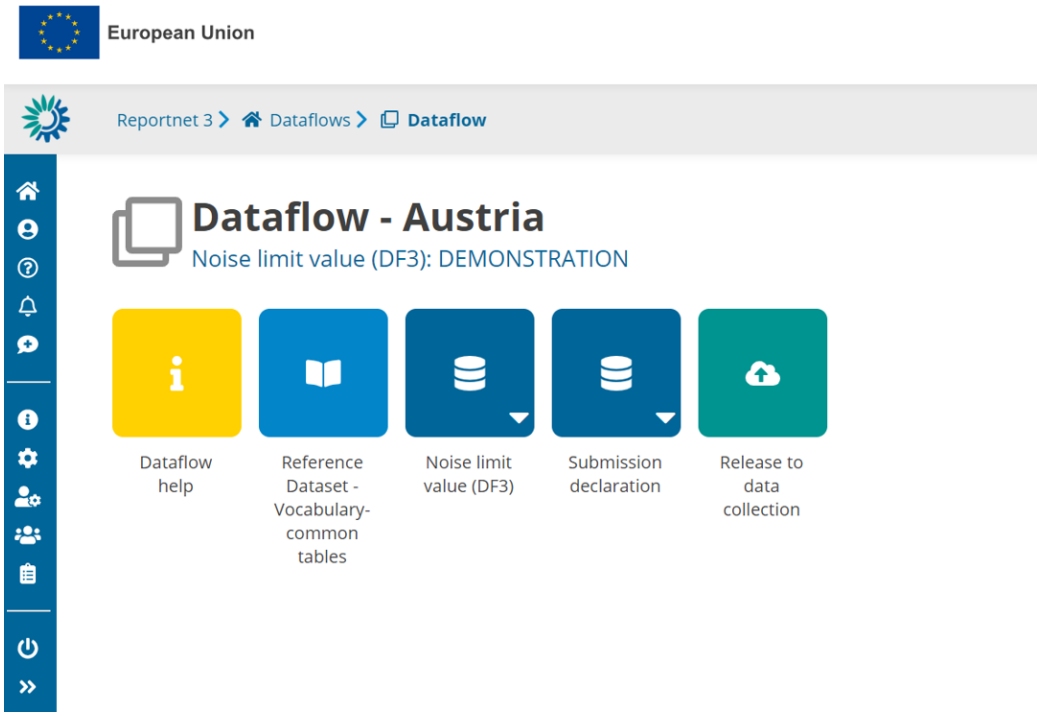
- Reference Dataset Vocabulary – common tables include a set of applicable code lists used in the reporting data flow. The code lists can be seen in the Eionet Data Dictionary Vocabulary (https://dd.eionet.europa.eu/vocabularies) in the following folders: noise, inspire and common.
- A set of reporting 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 *Noise limit value (DF3)*.

Figure 3.2. Reportnet – Reporter view: general dataflow structure for the END Noise limit value (DF3) reporting

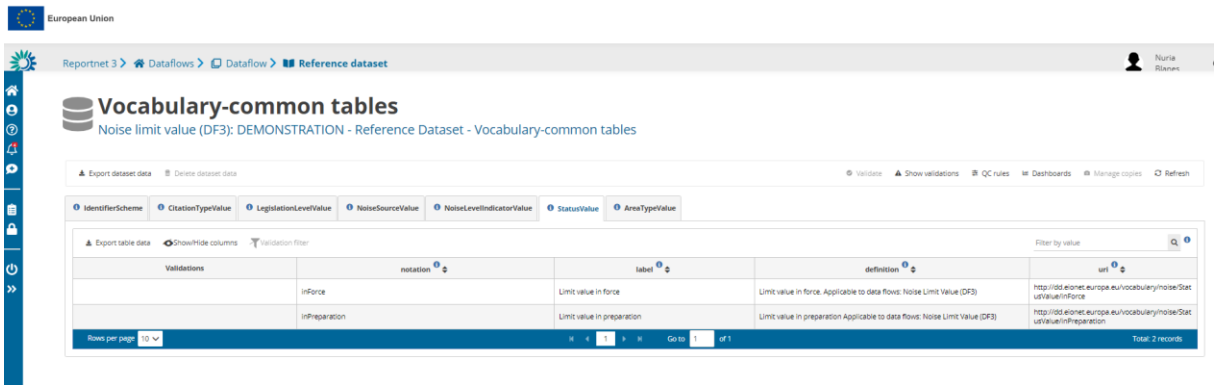


The dataflow is organised by dataset schemas. The reporting data flow *Noise limit value (DF3)* includes the following dataset schemas:

- The dataset schema “Noise limit value (DF3)”, used to report information about adopted documents or reports describing where the limit values in force or under preparation are applied for road-traffic noise, rail-traffic noise, aircraft noise around airports and noise on industrial activity sites. The noise limit values of interest are those applied in residential areas or other sensitive areas including schools and hospitals.
- The dataset schema “Submission declaration”, used to provide information on noise limit values submitted or information on the changes from previous submissions and the reasons for submitting updated data after the deadline;

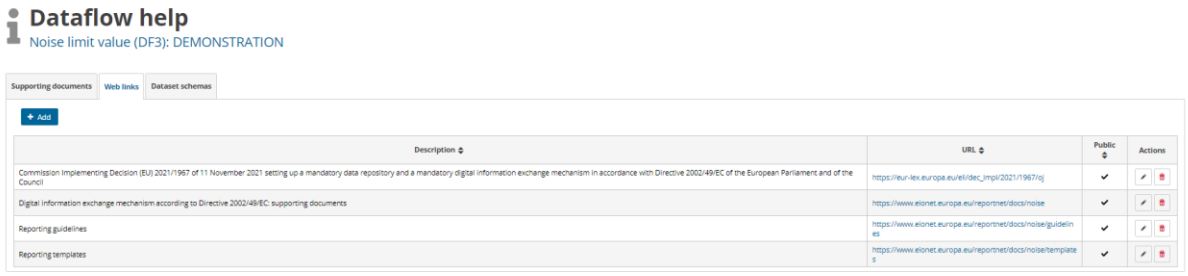
- There is another data schema “Reference dataset - Vocabulary – Common tables”. This is a read-only schema and contains the different code lists that are applicable to this dataflow as well as tables that are used for data validation (see Figure 3.3).

Figure 3.3. Reference dataset - Vocabulary – Common tables for Noise limit value (DF3)



Finally, the *Dataflow Help* contains the links to all supporting materials, including guidelines and the MS Excel template for preparation of reported data, 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



If the system doesn’t react click refresh/reload page Refresh
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.

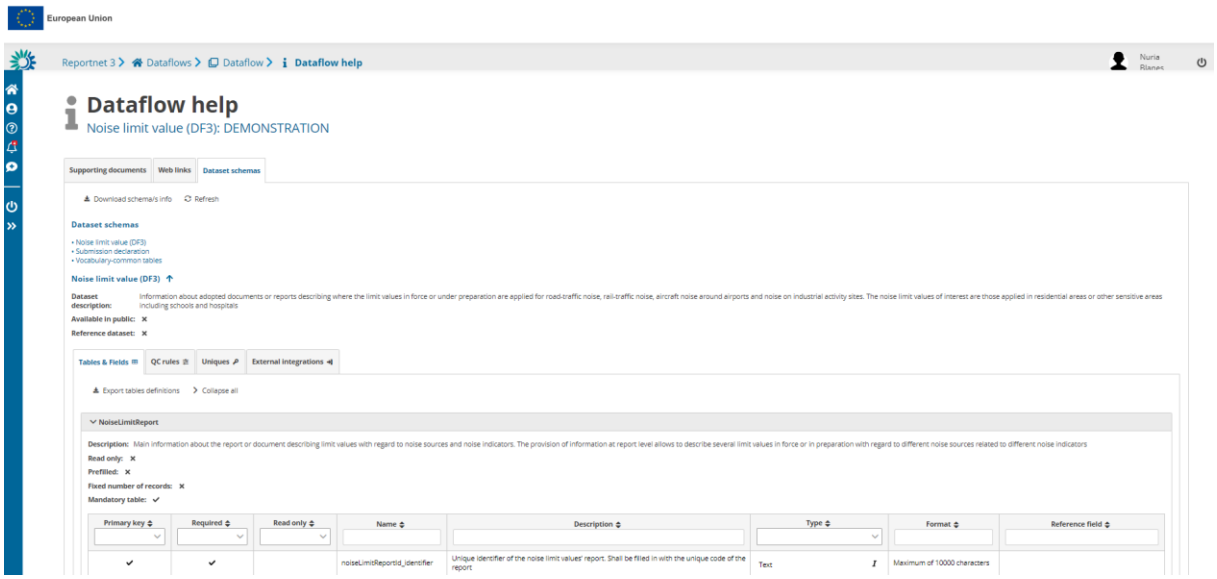
The applicable validations and error types into the dataset schema of *Noise limit value (DF3)* dataflow are outlined in Table 3.1.

Table 3.1. Applicable validation levels in the schema of Noise limit value (DF3) dataflow

	Noise limit value (DF3)
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

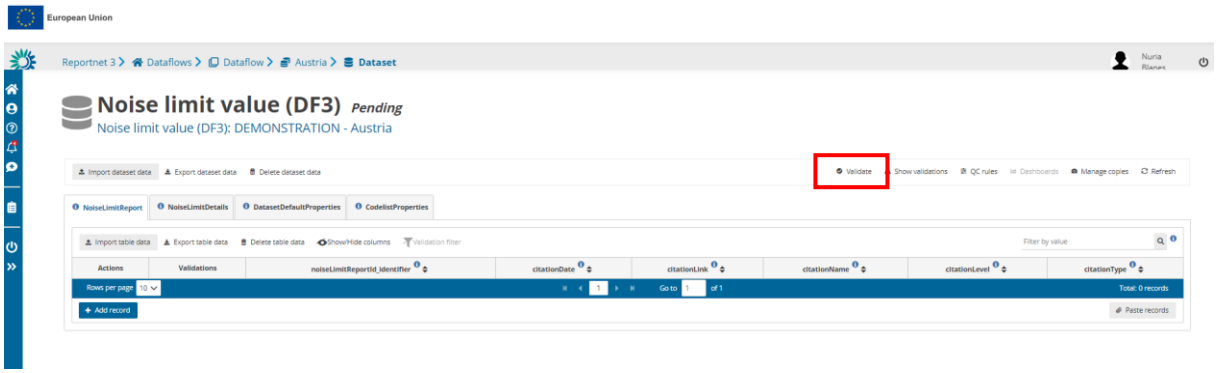


Additionally, a copy of validations applicable to the Noise limit value (DF3) dataflow is published in the Noise Eionet Portal for public consideration. Please note that the original information is always in the Reportnet 3 platform.

The detailed validations applicable to the Noise limit value (DF3) dataflow can be consulted in: https://www.eionet.europa.eu/reportnet/docs/noise/validation-rules/

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



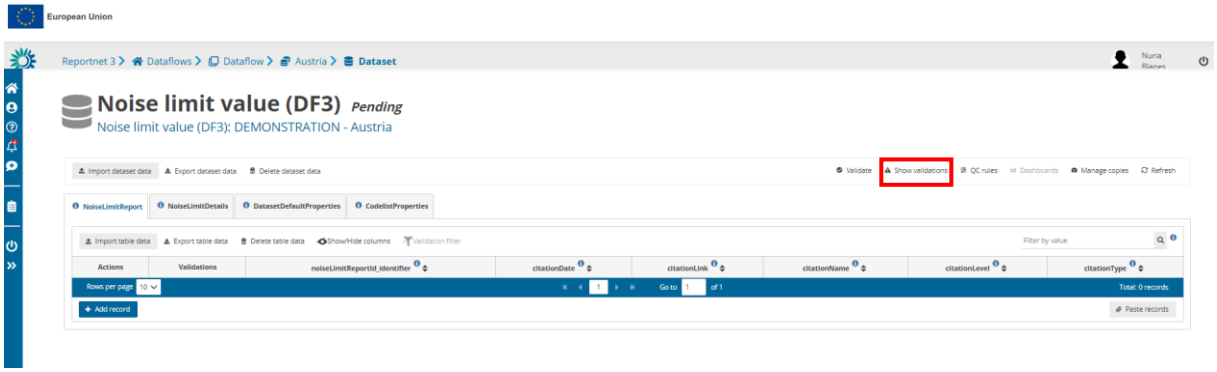
Once the validation has been performed, a notification will pop up on the top-right hand of the screen. After clicking "Refresh", errors, if any, will be displayed at four types:

- Field error
- Record error
- Table error

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.

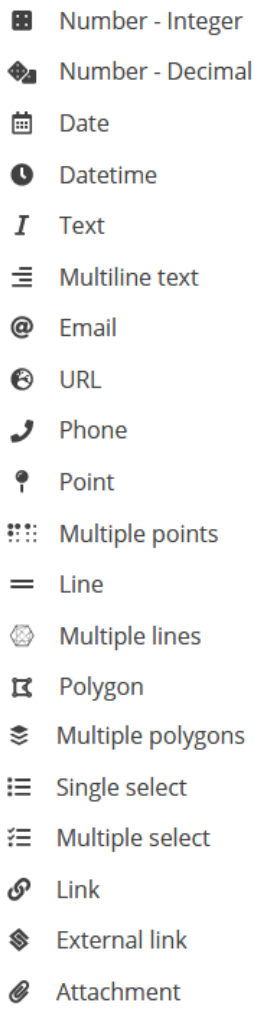
However, the maximum number of characters is further on limited to ensure correct data transfer to other IT systems, as follows:

- 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



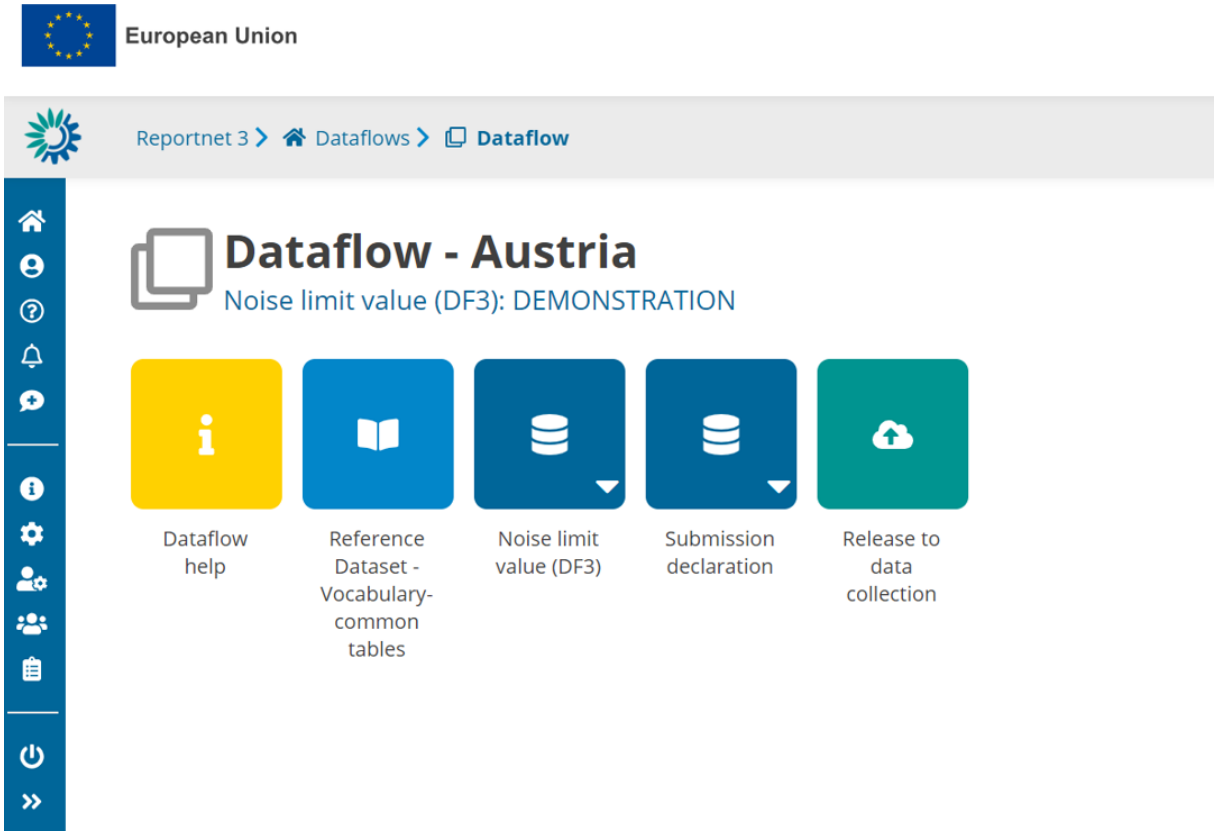
Note : Reportnet 3 data types are evolving with user and data requirements.

4 Key concepts in relation to *Noise limit value (DF3)*

4.1 Reporting data schema structure for DF3

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 Noise limit value (DF3) 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 INSPIRE identifiers

The conceptual data model of noise limit values (DF3) 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 to provide the main information about the report or document describing limit values with regard to noise sources and noise indicators. The provision of information at report level allows to describe several limit values in force or in preparation with regard to different noise sources related to different noise indicators:
  - NoiseLimitReport
- Table to provide the specification about the noise limit values in force or in preparation related to each noise source, indicator and type of area where the noise limit is applied, provided in the report or document describing limit values, if the limit value is defined in the noise limit report:
  - NoiseLimitDetails
- Common and pre-defined tables:
  - DatasetDefaultProperties
  - CodelistProperties.

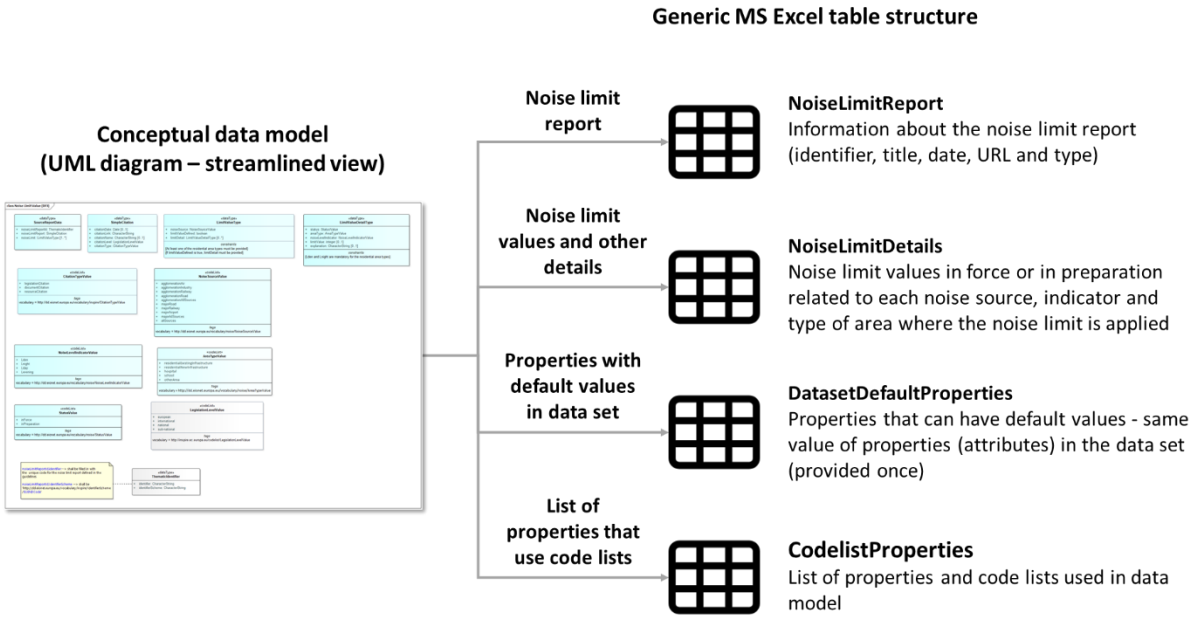
Properties than can have default values – same values in the complete dataset are provided in the table **DatasetDefaultProperties**. This table can include properties with default values, or a default void reason or another default value for voidable properties. The origin of voidable properties is 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.

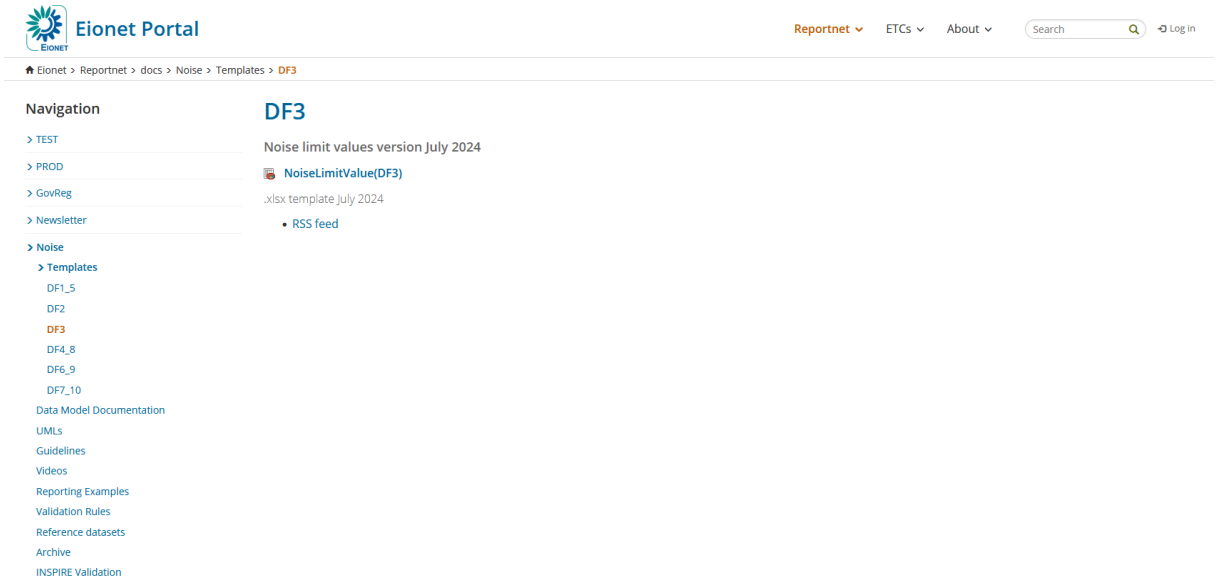
The following diagram in Figure 4.2 summarizes the MS Excel template structure.

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 https://www.eionet.europa.eu/reportnet/docs/noise/templates .

Figure 4.3. Screenshot of the Eionet portal 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

5 Data schema: Noise limit value (DF3)

5.1 Description

Information about adopted documents or reports describing where the limit values in force or under preparation are applied for road-traffic noise, rail-traffic noise, aircraft noise around airports and noise on industrial activity sites. The noise limit values of interest are those applied in residential areas or other sensitive areas including schools and hospitals.

The Noise limit value data schema includes 4 tables:

- NoiseLimitReport
- NoiseLimitDetails
- 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 NoiseLimitReport

The table *NoiseLimitReport* provides the main information about the report or document describing limit values with regard to noise sources and noise indicators. The provision of information at report level allows to describe several limit values in force or in preparation with regard to different noise sources related to different noise indicators.

Table 5.1.NoiseLimitReport table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	noiseLimitReportId_identifier	Text	
O	citationDate	Date	
M	citationLink	URL	
O	citationName	Text	
M	citationLevel	Link	http://inspire.ec.europa.eu/codelist/LegislationLevelValue
M	citationType	Link	http://dd.eionet.europa.eu/vocabulary/inspire/CitationTypeValue

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 noiseLimitReportId_identifier

Requirement	Mandatory
Description	Unique identifier of the noise limit values' report. This attribute is provided according to the data type ThematicIdentifier.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	The value of this field follows the coding system to create thematic identifiers provided in the guidelines "Proposal on how to build the unique thematic identifiers for the new END data model". It belongs to the common END identifier scheme named EUENDCode. The identifier scheme is provided as default value in the table DatasetDefaultProperties.
Example	LR_AT_00_3
Reporting constraints	The value in noiseLimitReportId_identifier will be re-used to link the tables in this dataset schema. Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.2.2 citationDate

Requirement	Optional
Description	Date when the report was issued
Reportnet 3 type	Date
Format	YYYY-MM-DD
Example	2021-05-15

5.2.3 Field citationLink

Requirement	Mandatory
Description	Link to the website where the report is available
Reportnet 3 type	URL
Format	Maximum of 10000 characters
Example	https://www.laerminfo.at/
Reporting constraints	Limit of 2100 characters due to database export constraints. Please see section 3.2.

5.2.4 Field citationName

Requirement	Optional
Description	Title of the report
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Example	Austria - Noise Limit Report .
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.2.5 Field citationLevel

Requirement	Mandatory
Description	Legislative or administrative level at which the report has been adopted.
Reportnet 3 type	Link
Format	Only one value is allowed
Code list	Code list URL: http://inspire.ec.europa.eu/codelist/LegislationLevelValue The following code list values apply: - sub-national - national - international - european
Example	national
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.2.6 Field citationType

Requirement	Mandatory
Description	Type of report
Reportnet 3 type	Link
Format	Only one value is allowed
Code list	Code list URL: https://dd.eionet.europa.eu/vocabulary/inspire/CitationTypeValue The following code list values apply: - documentCitation - legislationCitation - resourceCitation
Information	Document citation corresponds to any documentation. Legislation citation can be used for citation of legal acts. Resource citation can be used for any other sources of information.
Example	legislationCitation
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.3 Table NoiseLimitDetails

The table *NoiseLimitDetails* provides the specifications about the noise limit values in force or in preparation related to each noise source, indicator and type of area where the noise limit is applied, provided in the report or document describing limit values, if the limit value is defined in the noise limit report .

Table 5.2.NoiseLimitReport table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	noiseLimitReportId_identifier	Link	
M	noiseSource	Link	http://dd.eionet.europa.eu/vocabulary/noise/NoiseSourceValue
M	limitValueDefined	Single select	
C	status	Link	http://dd.eionet.europa.eu/vocabulary/noise/StatusValue
C	areaType	Link	http://dd.eionet.europa.eu/vocabulary/noise/AreaTypeValue
C	noiseLevelIndicator	Link	http://dd.eionet.europa.eu/vocabulary/noise/NoiseLevelIndicatorValue
C	limitValue	Number – Integer	
O	explanation	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.

5.3.1 Field noiseLimitReportId_identifier

Requirement	Mandatory
Description	Unique identifier of the noise limit values' report. This attribute is provided according to the data type ThematicIdentifier.
Reportnet 3 type	Link
Format	Maximum of 10000 characters
Information	It is a foreign key related to the table NoiseLimitReport by re-using the unique identifier assigned to each noise limit report. The value of this field follows the coding system to create thematic identifiers provided in the guidelines "Proposal on how to build the unique thematic identifiers for the new END data model". It belongs to the common END identifier scheme named EUENDCode. The identifier scheme is provided as default value in the table DatasetDefaultProperties.
Example	LR_AT_00_3
Reporting constraints	The value in noiseLimitReportId_identifier will be re-used to link the tables in this dataset schema. The value must be the same as the value in the field noiseLimitReportId_identifier in the table NoiseLimitReport. Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.3.2 Field noiseSource

Requirement	Mandatory
Description	Indication of the noise source at which the noise limit is implemented
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: - agglomerationAir - agglomerationIndustry - agglomerationRoad - agglomerationRailway - agglomerationMajorAirport - agglomerationMajorRoad - agglomerationMajorRailway - agglomerationAllSources - majorRoad - majorRailway - majorAirport - majorAllSources - allSources
Information	"agglomerationAllSources" should be selected if no specific noise sources inside agglomeration are provided (i.e. agglomerationAir, agglomerationIndustry, agglomerationRoad, gglomerationRailway, agglomerationMajorAirport, agglomerationMajorRoad, agglomerationMajorRailway). It will be assumed that the limit value indicated applies to all the agglomeration sources that are declared in DF1_5. "majorAllSources" should be selected if no specific major noise sources are provided (i.e. majorRoad, majorRailway, majorAirport). It will be assumed that the limit value indicated applies to all the major sources declared in DF1_5. "allSources" should be selected if no specific noise sources are provided (i.e. agglomerationAir, agglomerationIndustry, agglomerationRoad, gglomerationRailway, agglomerationMajorAirport, agglomerationMajorRoad, agglomerationMajorRailway, agglomerationAllSources, majorRoad, majorRailway, majorAirport, majorAllSources). It will be assumed that the limit value indicated applies to all the sources inside and outside agglomeration declared in DF1_5.
Example	agglomerationRoad
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.3.3 Field limitValueDefined

Requirement	Mandatory
Description	Declaration on whether a limit value exists
Reportnet 3 type	Single select
Format	Yes No
Example	Yes

5.3.4 Field status

Requirement	Conditional
Description	Description of the status of the limit value: in force or in preparation
Reportnet 3 type	Link
Format	Only one value is allowed
Code list	Code list URL: http://dd.eionet.europa.eu/vocabulary/noise/StatusValue Applicable code list values: - inForce - inPreparation
Example	inForce
Reporting constraints	This field is conditional, and needs to be provided only if limitValueDefined is “Yes”. Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.3.5 Field areaType

Requirement	Conditional
Description	Type of area where the noise limit is applied
Reportnet 3 type	Link
Format	Only one value is allowed
Code list	Code list URL: http://dd.eionet.europa.eu/vocabulary/noise/AreaTypeValue Applicable code list values: - hospital - otherArea - residentialExistingInfrastructure - residentialNewInfrastructure - school
Example	residentialExistingInfrastructure
Reporting constraints	This field is conditional, and needs to be provided only if limitValueDefined is “Yes”. At least one residential area types shall be provided: residentialExistingInfrastructure and/or residentialNewInfrastructure per each noise source declared and individual noise limit report identifier. Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.3.6 Field noiseLevelIndicator

Requirement	Conditional
Description	Noise indicator used to establish the limit value
Reportnet 3 type	Link
Format	Only one value is allowed
Code list	Code list URL: http://dd.eionet.europa.eu/vocabulary/noise/NoiseLevelIndicatorValue Applicable code list values: - Lday - Lden - Levening - Lnight
Example	Lnight
Reporting constraints	This field is conditional, and needs to be provided only if limitValueDefined is "Yes". It is expected to provide Lden and Lnight information per each residential area type declared, noise source and individual noise limit report identifier. Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.3.7 Field limitValue

Requirement	Conditional
Description	Noise level value (in dB)
Reportnet 3 type	Number - Integer
Format	Maximum of 20 characters
Example	55
Reporting constraints	This field is conditional, and needs to be provided only if limitValueDefined is "Yes" and the declared status is "inForce". Only numbers from "0" to "100" can be provided. An error will be highlighted if other dB values are reported.

5.3.8 Field explanation

Requirement	Optional
Description	Any kind of further explanation considered interesting besides the information contained in the noise limit value report
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Example	The limit values in Lden and Lnight were adapted from national levels using indicators LAeq,16 = 68 dB (day) and LAeq,8 =58 dB (night). When these limit values are exceeded actions are required to be implemented according to national legislation.
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.2.

5.4 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 5.3. DatasetDefaultProperties table overview

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

Table 5.4. Applicable values for the DatasetDefaultProperties

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

5.5 Table CodelistProperties

This table includes a list of the code lists that have to be used for reporting data on the DF3 Noise limit value 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 5.5. CodelistProperties table overview

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

Table 5.6. Applicable values for the CodelistProperties

tableName	propertyName	codelist
NoiseLimitReport	citationLevel	http://inspire.ec.europa.eu/codelist/LegislationLevelValue
NoiseLimitReport	citationType	http://dd.eionet.europa.eu/vocabulary/inspire/CitationTypeValue
NoiseLimitReport	noiseSource	http://dd.eionet.europa.eu/vocabulary/noise/NoiseSourceValue
NoiseLimitReport	noiseLevelIndicator	http://dd.eionet.europa.eu/vocabulary/noise/NoiseLevelIndicatorValue
NoiseLimitReport	status	http://dd.eionet.europa.eu/vocabulary/noise/StatusValue
NoiseLimitReport	areaType	http://dd.eionet.europa.eu/vocabulary/noise/AreaTypeValue

6 Data schema: Submission Declaration

6.1 Description

Information on noise limit values 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 noise limit values will have to be reported in the system.

Noise limit values' 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.

Any updates on DF3 after the first submission in Reportnet 3 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 noise limit values, 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	Text	
C	reason	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 noise limit report (e.g. noise limit report identifier or title) ,the noise limit values , and to describe the changes made.
Example	In Force Noise limit values Lden and Lnight in residential areas for the source: agglomerationRoad have been changed in report LR_AT_00_1.
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	Noise limit values for agglomerationRoad have been corrected due to an typo error in the previous submission.
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

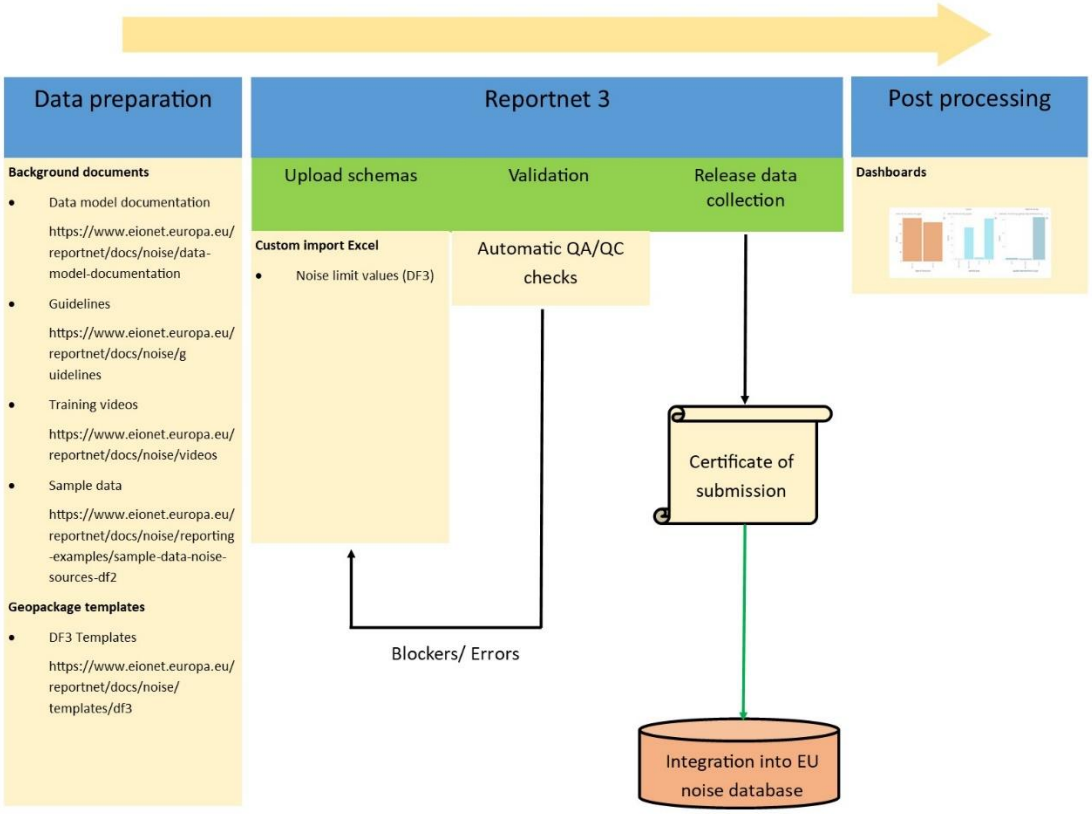
7 Reporting process

7.1 Reporting data in Reportnet 3: overall workflow

Figure 7.1 illustrates the different processes involved in the reporting of DF3 Noise limit value. 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 noise limit values information. 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. All the submissions will be integrated in the EU noise database.

Figure 7.1. Reporting workflow



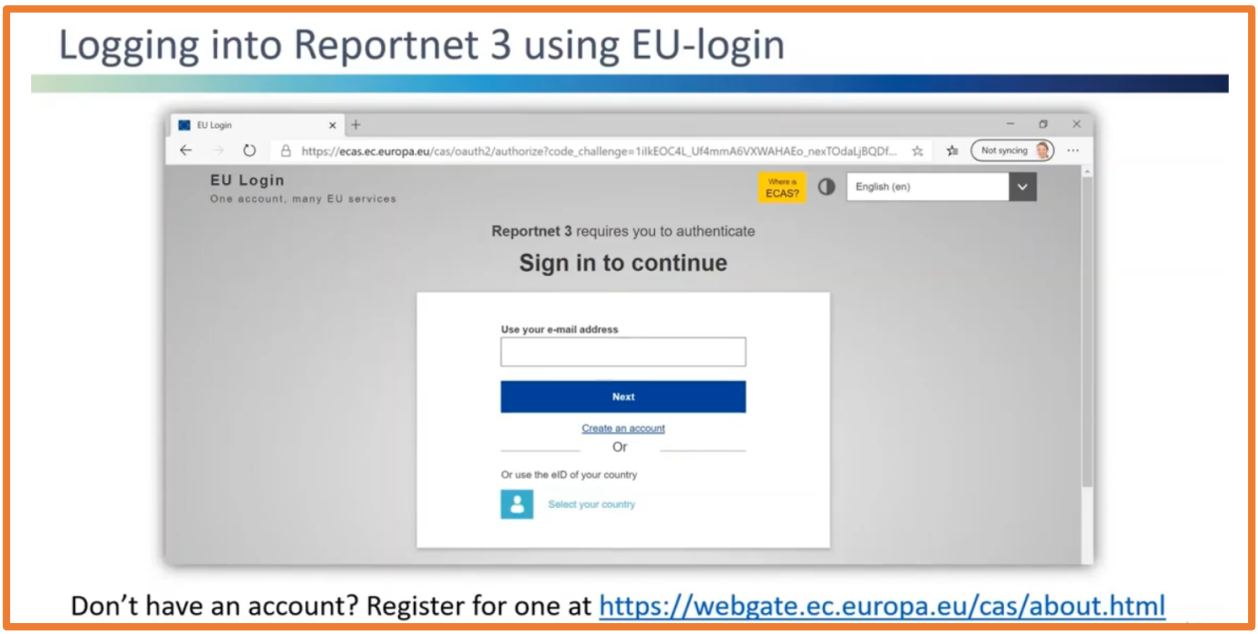
Further information on the reporting process of DF3

- 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

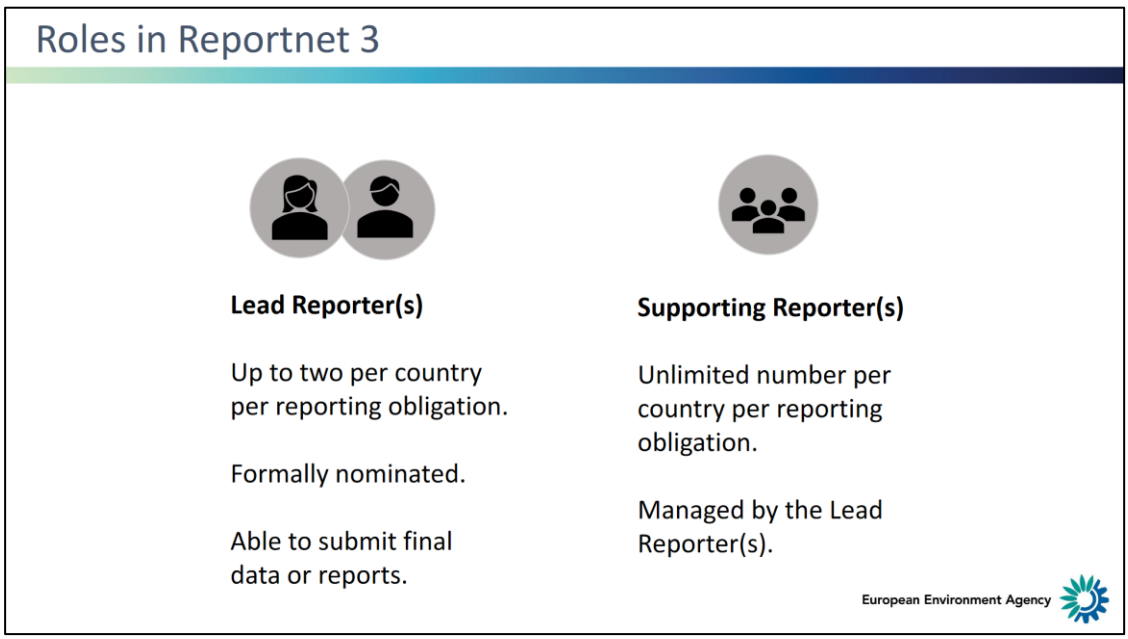
The official reporting will be done through the following URL: https://reportnet.europa.eu/ . The log in will be done through the EU login portal and the reporter will have to use the EU login details. Therefore, reporters will not be managing an Eionet login account but they will use an EU login account 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 (, .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

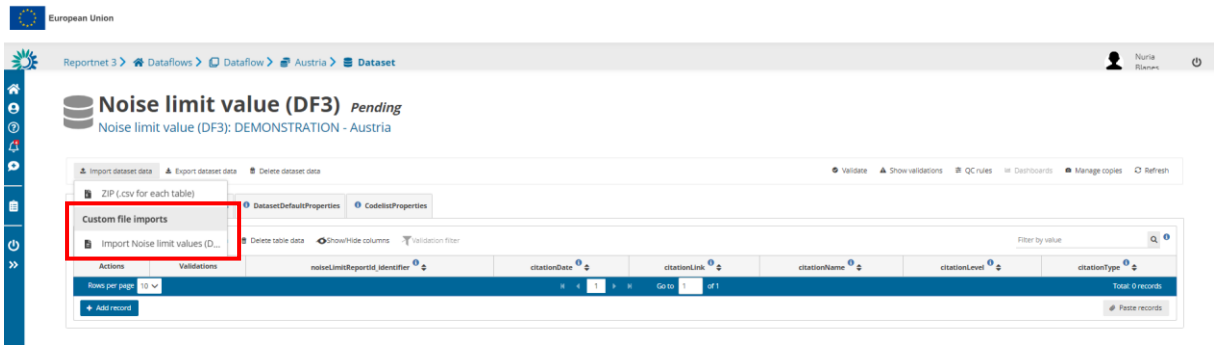
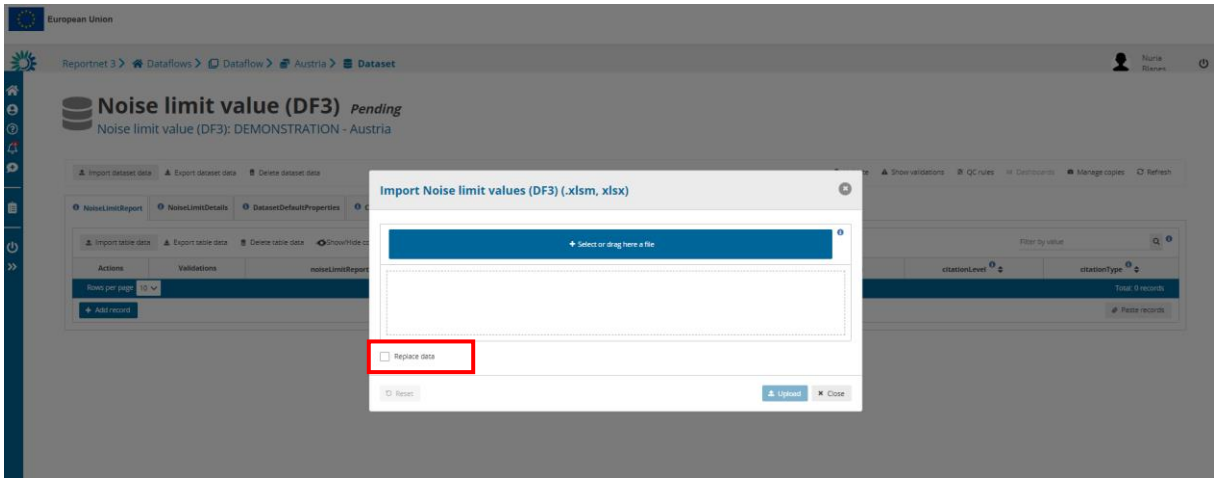


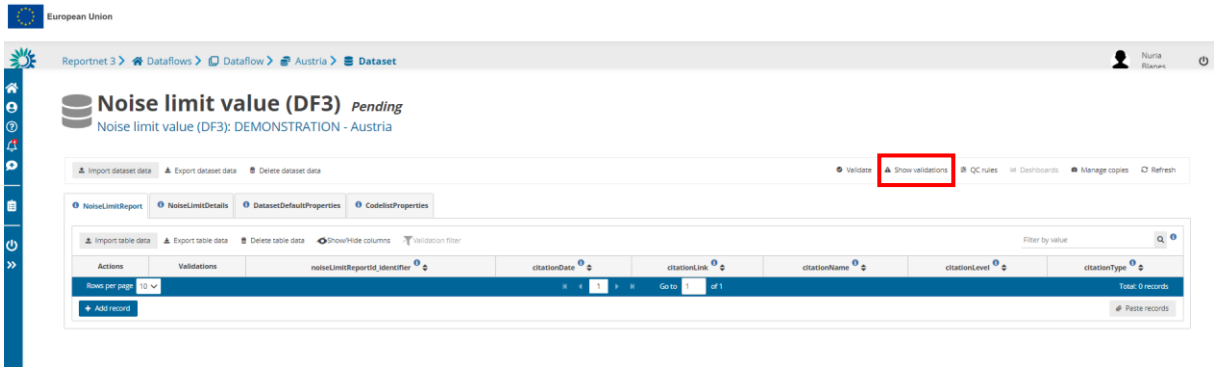
Figure 7.5. Replace data



7.4 Validations

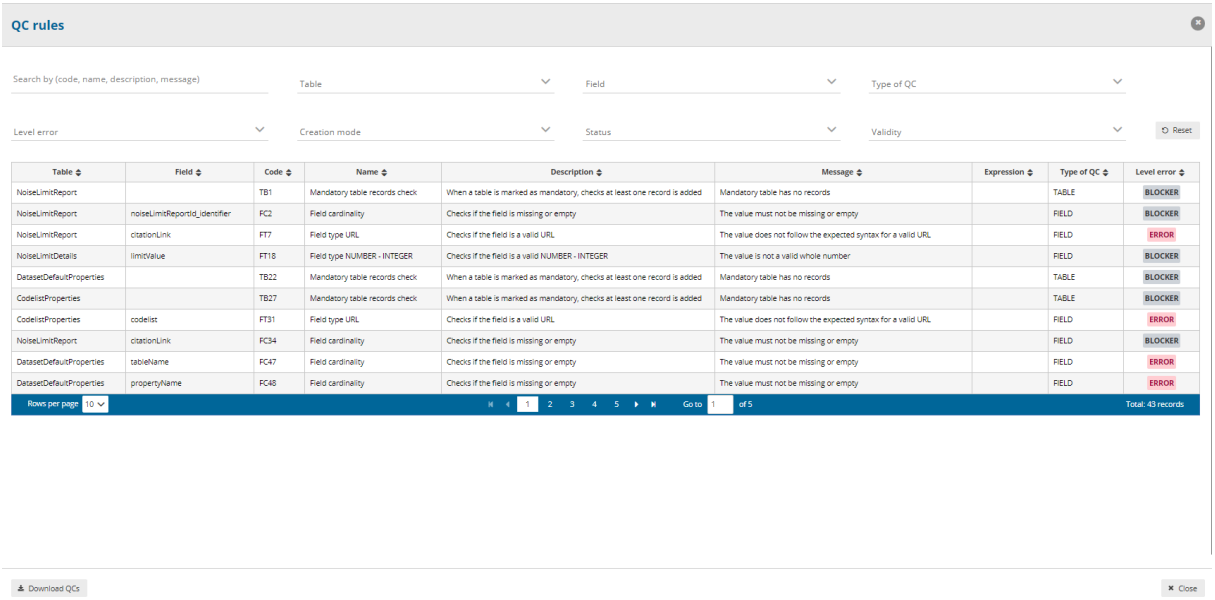
The data to be submitted can be assessed with the validation tools provided in Reportnet 3.0 as shown in Figure 7.6.

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.

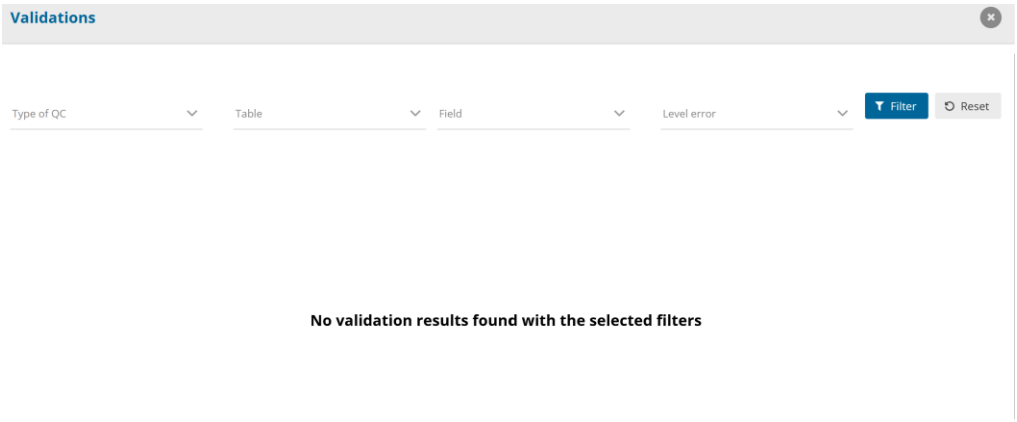
Figure 7.7. QC rules applied for validation



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

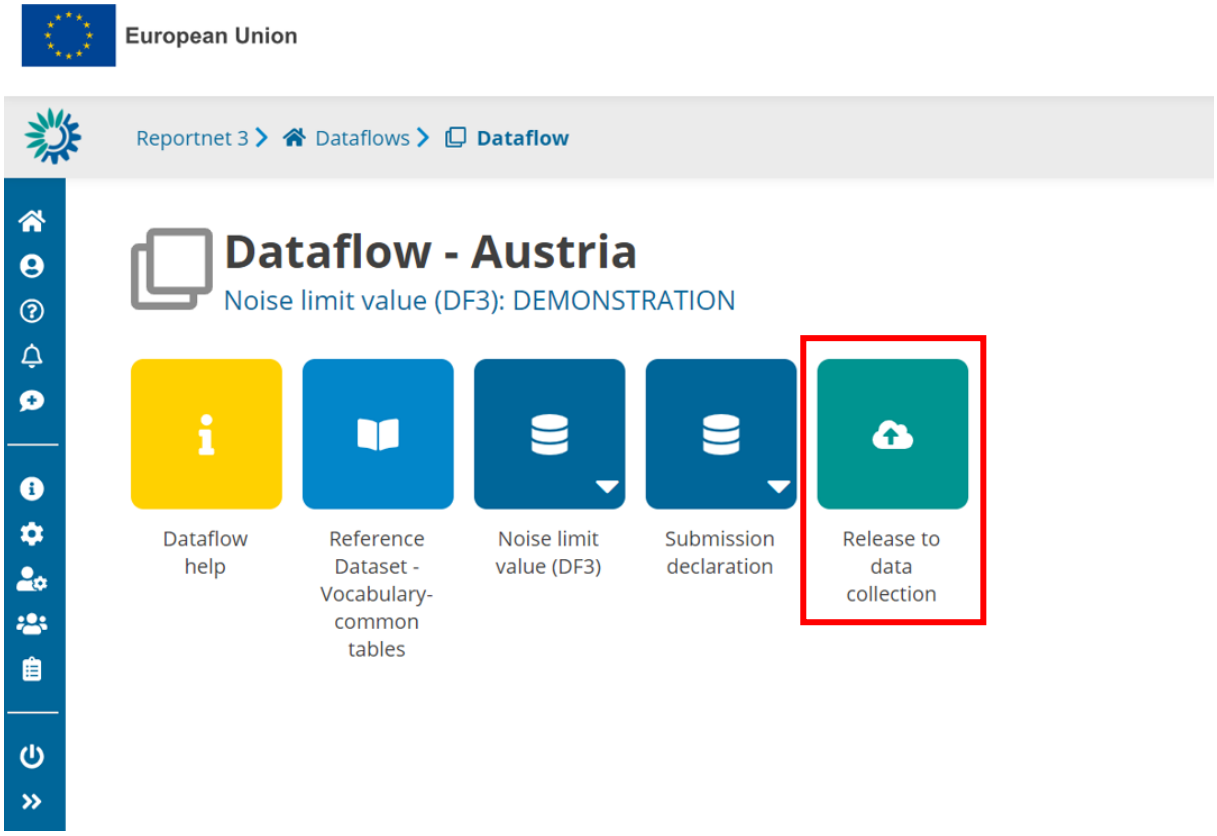
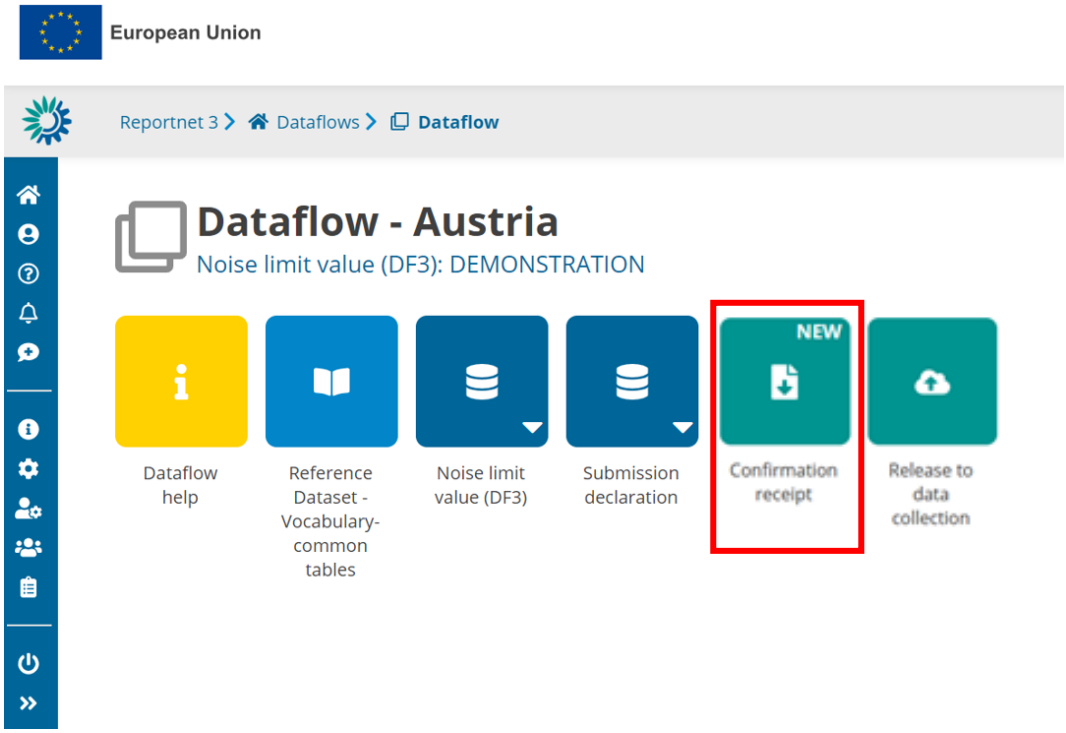


Figure 7.10. Confirmation receipt



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 DF3 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.

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