

Environmental Noise Directive

Reporting guidelines

DF7_10 Noise action plan: Agglomeration



Version 2, June 2024

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HISTORY OF CHANGES

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December 2022	Issue first version
June 2024	Added section 3.3 Reportnet 3 dataset schema and data types (limitation on number of characters for field type Text and URL); updated section 4.3.1 with information on INSPIRE Good Practice for GeoPackage; updated section 5 and section 6 data schemas to update with new specifications, added section 8.5 (short information) and details in Annex 3 WorkflowLog table used as feedback from importing geospatial file; updated section 8.6 Validations.

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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 DF7_10 Noise action plan in relation to agglomerations:

- 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

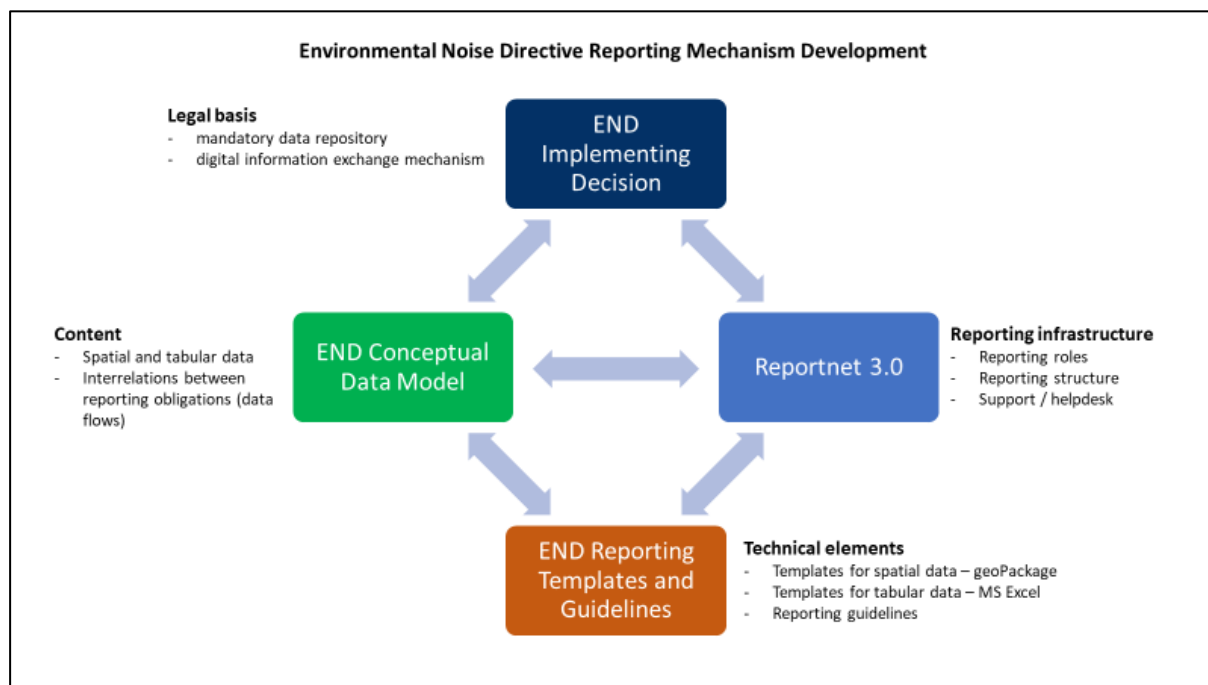
Reporting noise data under the Environmental Noise Directive (END) will occur in Reportnet 3 from 2022. The END reporting is defined in the Directive 2002/49/EC and the reporting requirements are further defined in the *Commission Implementing Decision (EU) 2021/1967 of 11 November 2021 on Setting up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

⁽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>

use of data that is INSPIRE compliant will be mandatory for the reporting of data under the END. In 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.

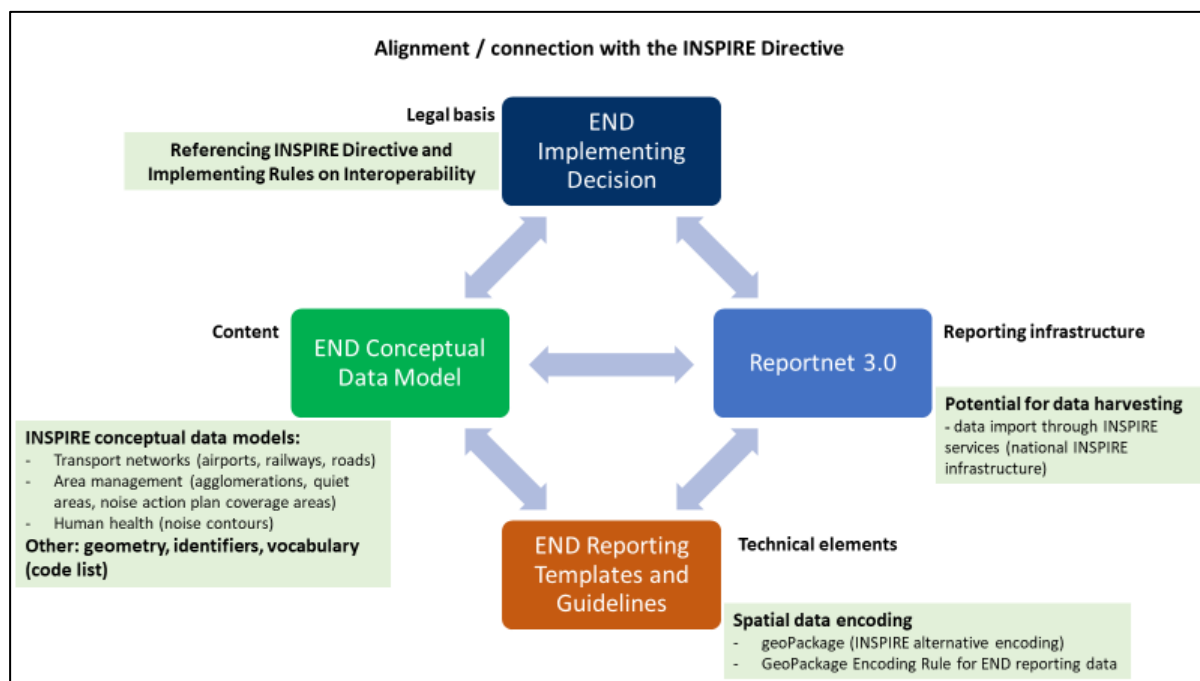
Further on, the END conceptual data model has been used to develop the encoding guidelines for the END spatial data in the GeoPackage file format. The encoding guidelines are based on the INSPIRE work on simplification and alternative encodings following the OGC standard on GeoPackage³. Development of 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 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 action plan (DF7_10): Agglomeration we considered the following:

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

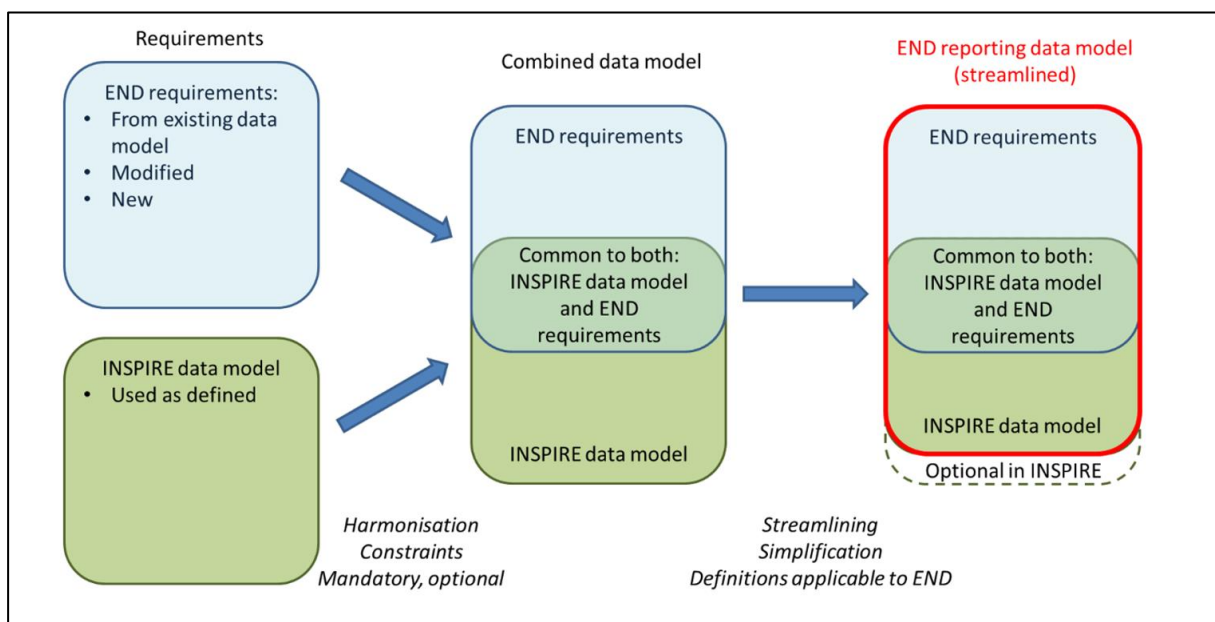
The streamlined data model combines and optimises all the input from the END and INSPIRE into one data model.

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 spatial file format GeoPackage and in MS excel format.
- 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 DF7_10 for agglomeration is section 16.

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



3 Understanding the basic principles of Reportnet 3 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 table of dataflows. The table has columns for Name, Description, Legal instrument, Obligation, and Obligation id. A specific dataflow is highlighted in a purple box: 'Noise action plan (DF7_10): Agglomeration'. This dataflow is associated with the role 'CUSTODIAN', has a creation date of '2022-12-15', a delivery date of '2024-01-18', and a status of 'OPEN'. The description mentions it's a noise action plan developed to manage noise issues and effects, including noise reduction if necessary, in those areas where strategic noise maps have been developed. The legal instrument is 'Environmental noise directive' and the obligation is 'Action plan summaries (DF 7 and DF 10)'.

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.

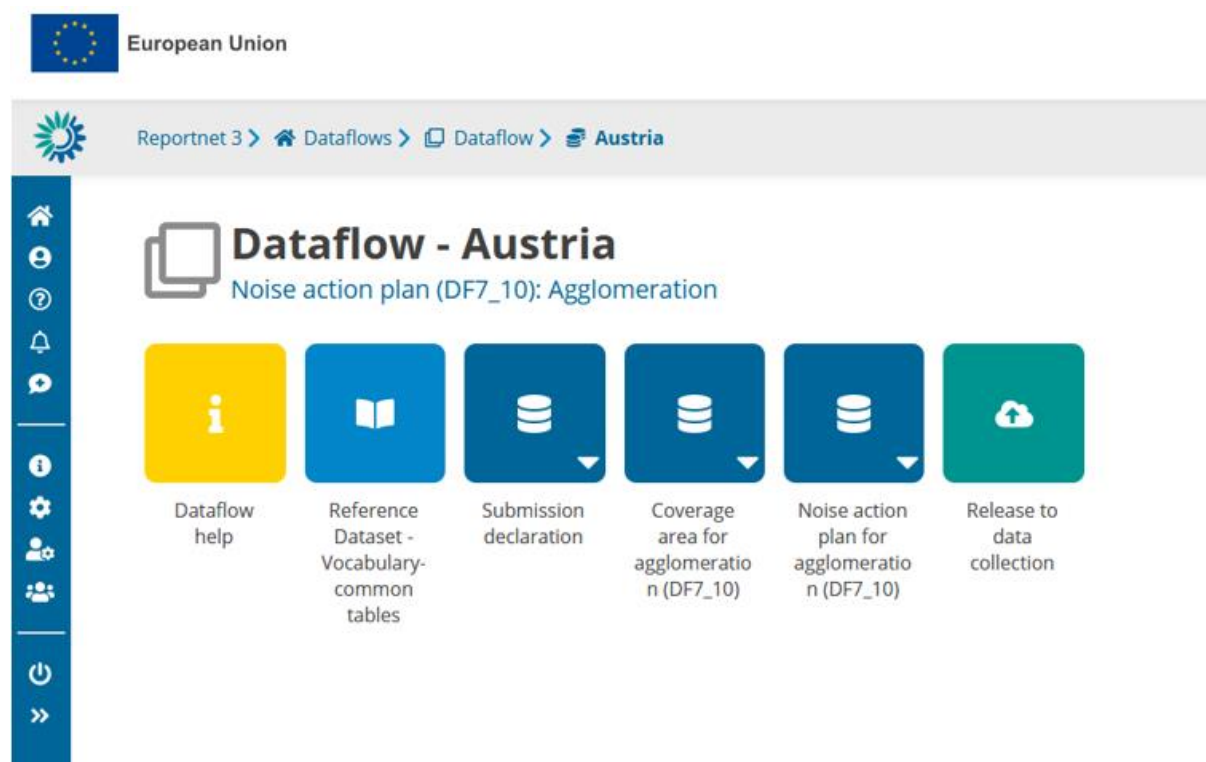
- Reference Dataset Vocabulary – common tables include a set of applicable code lists used in the reporting data flow. The code lists can be seen in the Eionet Data Dictionary Vocabulary (<https://dd.eionet.europa.eu/vocabularies>) in the following folders: noise, inspire and common.
- A set of reporting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

Figure 3.2 shows more specifically the reporting window of the dataflow *Noise action plan (DF7_10): Agglomeration*.

Figure 3.2. Reportnet – Reporter view: general dataflow structure for the END Noise action plan (DF7_10): Agglomeration reporting



The dataflow is organised by dataset schemas. The reporting data flow *Noise action plan (DF7_10): Agglomeration* includes the following dataset schemas:

- The dataset schema “Coverage area for agglomeration (DF7_10)”, used to report area that has been evaluated by the competent authority in order to take decisions on reducing the negative health effects of noise and for which the action plan applies. For urban areas it is expected to be the boundary area of an agglomeration, a district in an agglomeration, or a LAU unit.
- The dataset schema “Noise action plan for agglomeration (DF7_10)”, used to report the action plan information, based on strategic noise mapping results, developed to manage, prevent and reduce environmental noise in agglomerations, in particular in areas where exposure levels can induce harmful effects on human health.

- The dataset schema “Submission declaration”, used to provide information on noise action plans for agglomerations submitted before deadline 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 Noise action plan (DF7_10): Agglomeration

Validations	notation	label	definition	uri
	noise	noise	Sound which is unwanted, either because of its effects on humans, its effect on fatigue or malfunction of physical equipment, or its interference with the perception or detection of other sounds.	http://inspire.ec.europa.eu/code/inspire:EnvironmentalDomain/noise

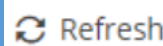
Finally, the *Dataflow Help* contains the links to all supporting materials, including guidelines and the Geopackage and MS Excel templates for preparation of reported data, all the information on quality controls and validation rules, as well as the description of the different tables and attributes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

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

Description	URL	Public	Actions
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	https://eur-lex.europa.eu/eli/dec/2021/1967/oj	✓	✓ ✗
Digital information exchange mechanism according to Directive 2002/49/EC supporting documents	https://www.eionet.europa.eu/reportnet/docs/noise	✓	✓ ✗
Reporting guidelines	https://www.eionet.europa.eu/reportnet/docs/noise/guidelines	✓	✓ ✗
Reporting templates	https://www.eionet.europa.eu/reportnet/docs/noise/templates	✓	✓ ✗

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.

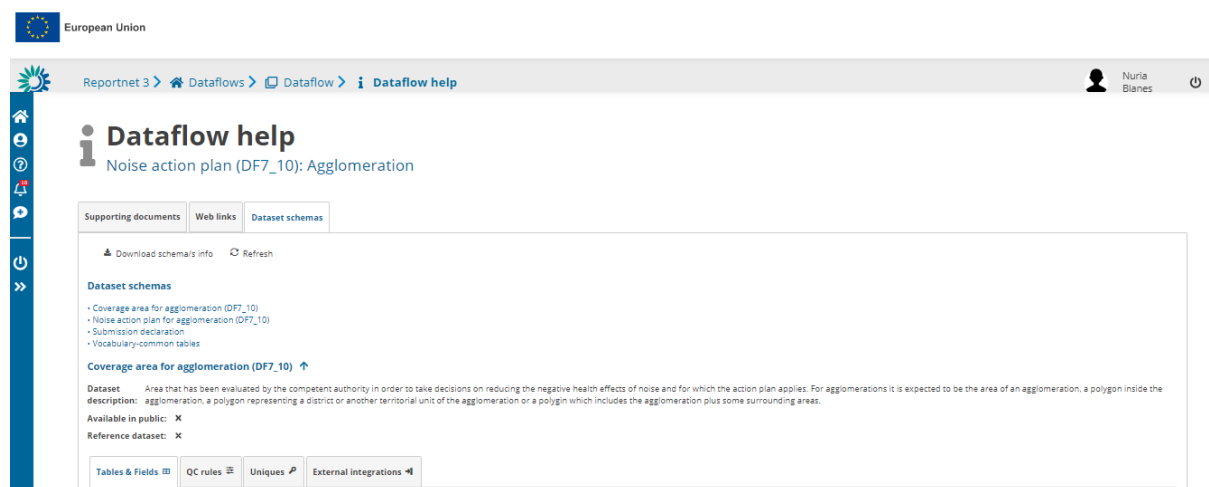
The applicable validations and error types into the dataset schema of *Noise action plan (DF7_10): Agglomeration* dataflow are outlined in Table 3.1.

Table 3.1. Applicable validation levels in the schema of Noise action plan (DF7_10): Agglomeration dataflow

	Noise action plan (DF7_10): Agglomeration
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 action plan (DF7_10): Agglomeration 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 action plan (DF7_10) : Agglomeration 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 DF7_10 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) and the competent authorities (DF2) being submitted, checking the following:

- Existence and coherence of the unique codes provided per agglomerations.
- Existence and coherence of the noise sources inside agglomerations declared in DF1_5 and the corresponding noise sources declared in action plan submission.
- Existence and coherence of the unique codes provided for the competent authorities for agglomerations with associated roles to action plans (“actionPlanDevelopment”, “actionPlanCollection” and “actionPlanApproval”).

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

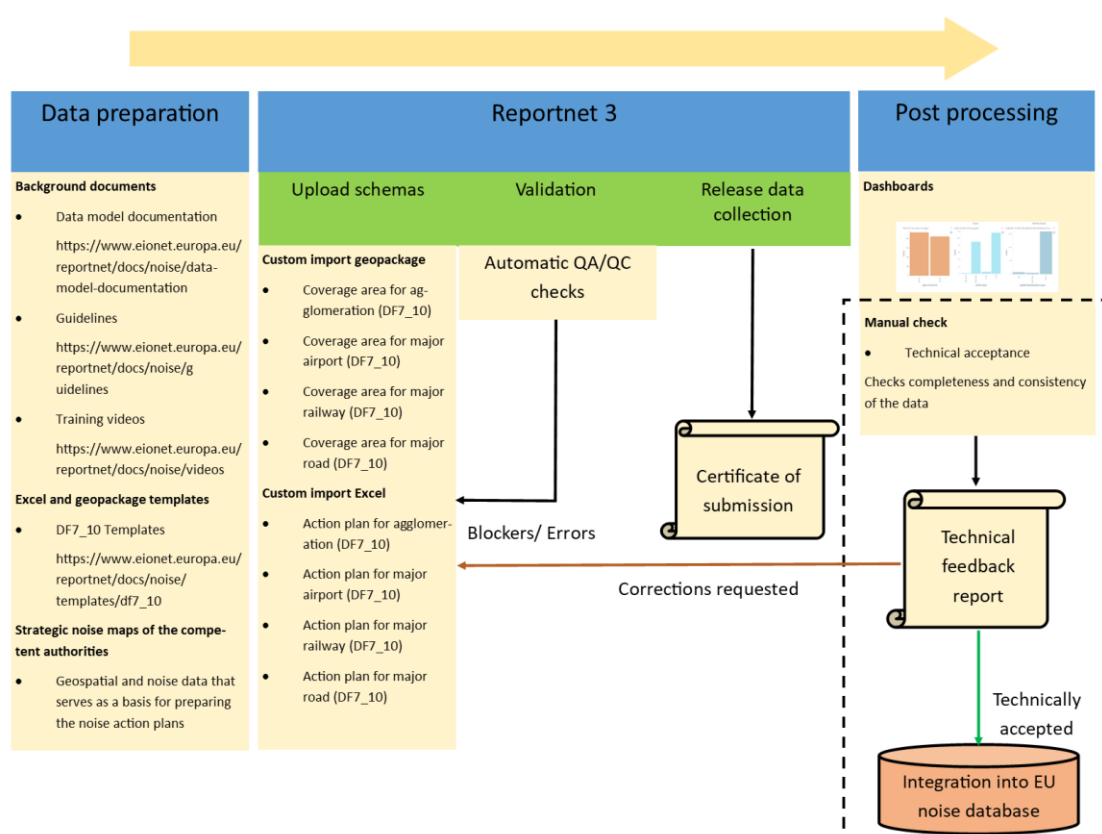


A BLOCKER in the dataflow will prevent the reporter to officially submit any data in Reportnet 3.

3.2 Technical acceptance of the data delivery

To ensure high quality of the noise data submitted under the END, specific quality checks will be performed after the countries submit the data in Reportnet 3. This dataflow has been configured as “manual acceptance” and its status will appear as “Pending” until the delivery has been technically accepted by the EEA-ETC/HE team. The final deliveries will be reviewed to identify any errors that could compromise the quality of the data. The countries will receive feedback document stating if the delivery is technically accepted or if a correction is requested. If a correction is requested the reporter will have to resubmit the data until it is technically accepted. Only deliveries that are technically accepted will be integrated into the EU noise database. Figure 3.8 presents an overview of the process.

Figure 3.8. Overview of the submission process of Noise action plan (DF7_10): Agglomeration



The quality controls performed after the submission will check coherence, completeness and consistency of the data. Completeness checks ensure that all relevant noise information as described in the END are included. The consistency checks ensure that the reported data comply with logical rules of data structure, attribution and relationships. Coherence checks assess positional accuracy of the spatial data as well as whether the reported data are in line with other dataflows and are credible.

Table 3.2 shows an overview of the main quality controls in Technical acceptance to be performed after the submission of the dataflow.

Table 3.2. Overview of main checks in Technical acceptance per Noise action plan (DF7_10): Agglomeration

Agglomerations	<ul style="list-style-type: none"> - Missing agglomerations - Missing noise sources in agglomerations - Missing competent authorities responsible for mandatory roles in relation to action plans - Spatial checks: if noise action plan coverage area is covering the agglomeration polygon declared in DF1_5 or the strategic noise maps submitted in DF4_8.
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3.3 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 3.9. 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

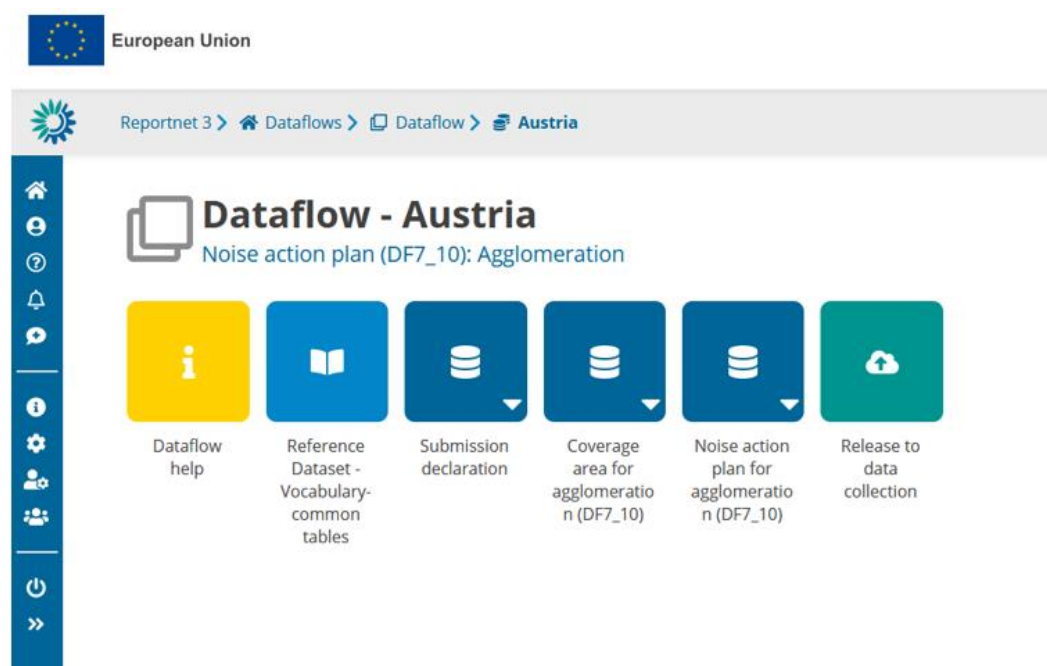
Note : Reportnet 3 data types are evolving with user and data requirements.

4 Key concepts in relation to Noise action plan (DF7_10): Agglomeration

4.1 Reporting data schema structure for DF7_10: Agglomeration

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 GeoPackage and MS Excel templates follow the same schemas and principles as the UML diagrams.

Figure 4.1. Dataset schemas for Noise action plan (DF7_10): Agglomeration 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 DF2 for data flow DF7_10

Data flow DF7_10 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 competent authorities that have been defined in the data flow DF2.

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 DF7_10 agglomerations, the reporting of noise action plan information will include object identifiers in the following way:

- The field `agglomerationIdIdentifier` in the data schema Noise action plan for agglomeration (DF7_10) will be used for identifier of an agglomeration (defined in DF1_5);
- The field `competentAuthorityIdIdentifier` in the data schema Noise action plan for agglomeration (DF7_10) will be used for identifier of a competent authority (defined in DF2)

4.2.4 INSPIRE identifiers

Spatial objects in the END reporting scope that are designed on the basis of the INSPIRE data specifications include the external unique object identifiers defined as the INSPIRE data type Identifier, which is composed of the three attributes:

- **localId**: A local identifier, assigned by the data provider, unique within the namespace;
- **namespace**: Namespace uniquely identifying the data source of the spatial object;
- **versionId**: The identifier of the particular version of the spatial object, voidable - optional.

For the END reporting scope, the INSPIRE identifiers are provided in the Reportnet 3 data schema and in the recommended data templates with three separate fields (attributes) corresponding to the type Identifier: `localId`, `namespace` and `versionId`.

Data providers who will prepare the END reporting geospatial data can apply own rules for creating external unique object identifiers according to the INSPIRE specifications. Additional information and recommendations are provided in "Creating INSPIRE external unique object identifiers in the scope of the END reporting data".

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

4.3.1 General recommendations for spatial datasets

For the END reporting scope, the following recommendations are provided for spatial data sets of noise action plan (DF7_10) : agglomeration:

- Use of coordinate reference system ETRS89-extended / Lambert azimuthal equal-area LAEA (EPSG:3035) (one of the coordinate reference systems defined in the INSPIRE specifications that facilitates creation of the pan-European spatial data sets);
- Use of coordinate reference system World Geodetic System 1984 (EPSG: 4326) for territories outside of the continental Europe geographical scope. The WGS84 is linked to the ITRS that is in line with the INSPIRE specifications on the datum of the International Terrestrial Reference System (ITRS) or other geodetic coordinate reference systems compliant with ITRS in areas that are outside the geographical scope of ETRS89;
- Spatial data sets should be provided accordingly to the pre-defined templates in the file format GeoPackage. INSPIRE Good Practice for GeoPackage was endorsed by the INSPIRE MIG and MIG-T expert groups in November 2022, <https://github.com/INSPIRE-MIF/gp-geopackage-encodings>, accepting GeoPackage as INSPIRE alternative encoding to GML;
- The predefined templates in GeoPackage include geometry (i.e. (multi)polygon) and coordinate reference system information;
- The predefined templates in GeoPackage ensure the highest compatibility with the Reportnet 3 data schemas, therefore those templates shall not be modified.

4.3.2 From conceptual data model (UML) to templates in GeoPackage

The templates for spatial data in file format GeoPackage have been developed from the conceptual data models in UML ([from UML streamlined view](#)) by using a set of model transformation rules created for the END reporting scope on the basis of outcomes of the development of INSPIRE alternative encodings. More information is available in the document "[GeoPackage Encoding Rule for Environmental Noise Directive Reporting Data](#)".

The GeoPackage templates are aligned with the Reportnet 3 data schemas (names, types, cardinality, use of code lists) to facilitate reporting in the Reportnet 3 infrastructure. This section provides generic information of the GeoPackage template structure and the next chapters provide details of the Reportnet 3 data schemas.

The GeoPackage templates contain the area that has been evaluated by the competent authority in order to take decisions on reducing the negative health effects of noise and for which the action plan applies. For agglomerations it is expected to be the area of an agglomeration, a polygon inside the agglomeration, a polygon representing a district or another territorial unit of the agglomeration or a polygon which includes the agglomeration plus some surrounding areas.

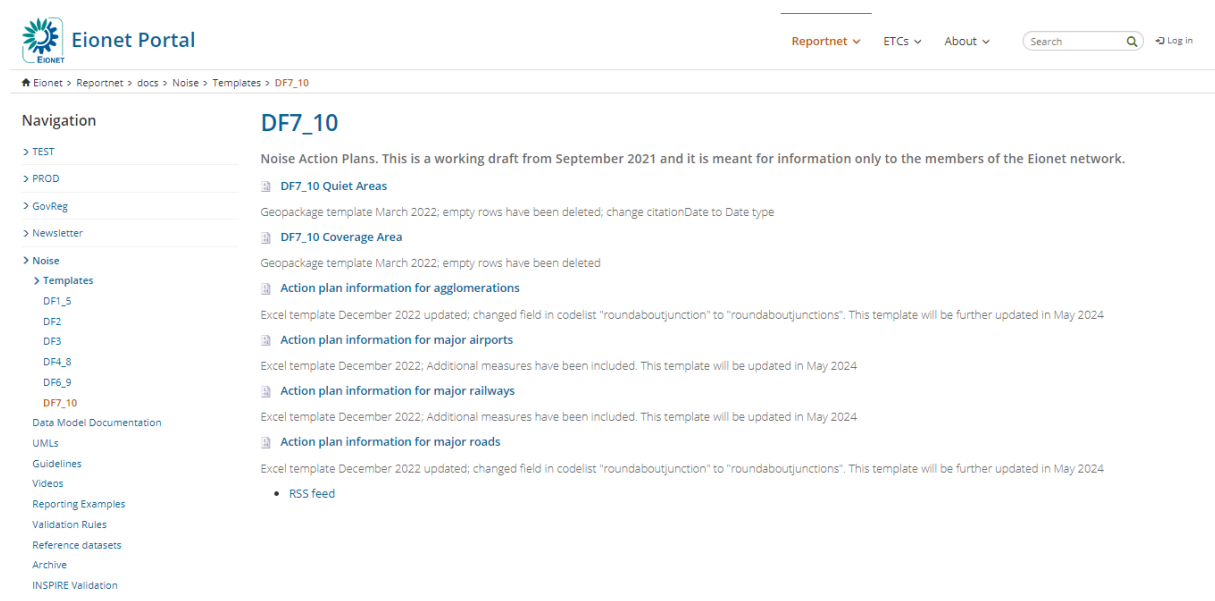
The conceptual data models (presented in the UML diagrams) for dataflow DF7_10 are transformed into the following typical tables in the GeoPackage templates:

- Primary (or core) table;
- Voidables;
- DatasetDefaultProperties;
- CodelistProperties.

- The pre-filled tables DatasetDefaultProperties and CodelistProperties don't need modifications;
- For noise action plan coverage area:
 - If the recommended and pre-filled void reasons or other values for voidable properties are applicable, the voidable properties in the NoiseActionPlanCoverageAreaVoidables table can remain empty;
 - The main table for reporting data is therefore the primary table NoiseActionPlanCoverageArea.

The GeoPackage templates that have been created to support data reporting can be downloaded from <https://www.eionet.europa.eu/reportnet/docs/noise>.

Figure 4.3. Screenshot of the Eionet Portal page where the GeoPackage and MS Excel templates are available for download



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

4.3.3 From conceptual data model (UML) to templates in MS Excel

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 :

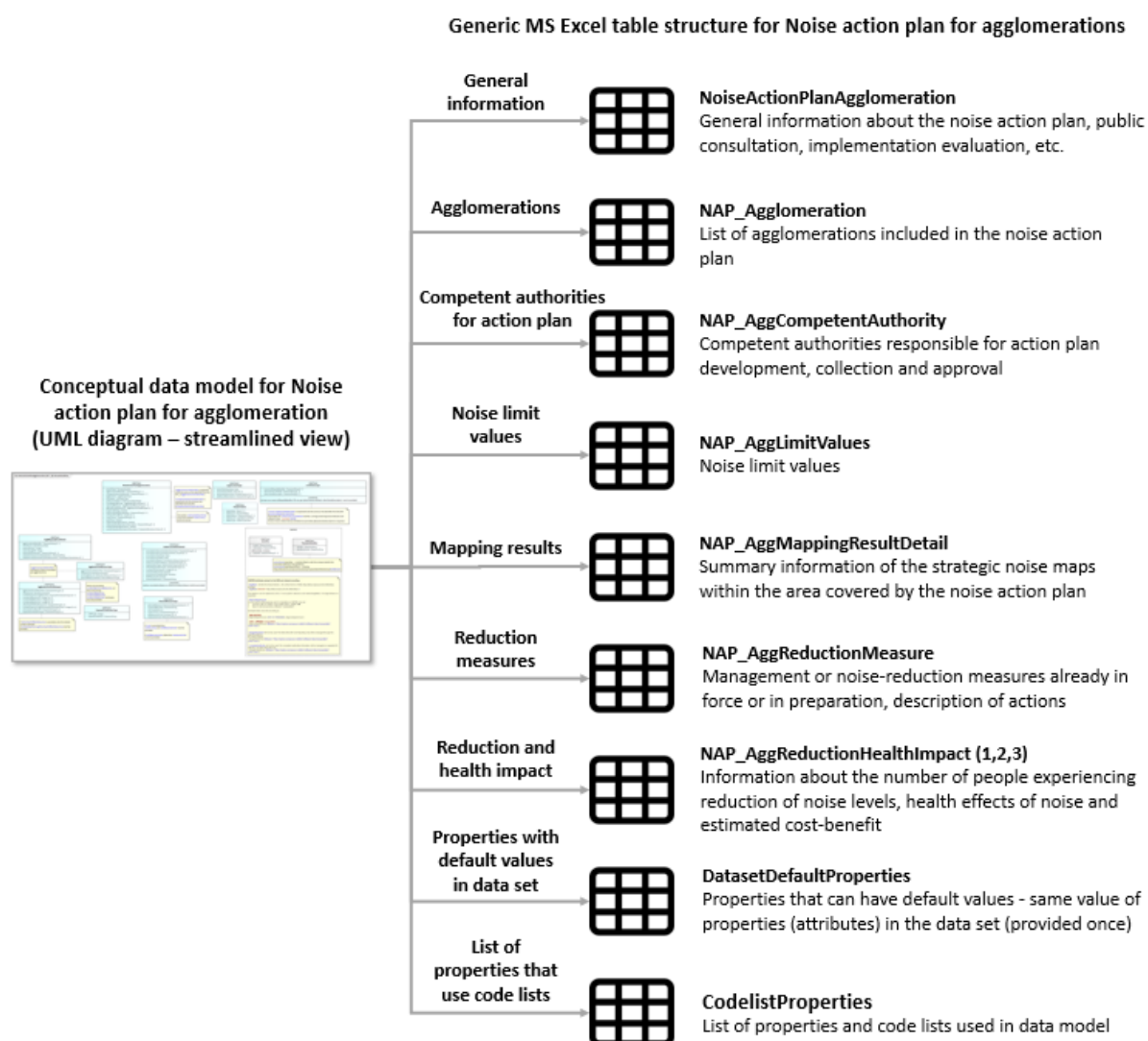
- Table for providing the summary information related to the action plan's reporting for agglomeration for the different noise sources mapped inside agglomerations, as determined by the Environmental Noise Directive:
 - NoiseActionPlanAgglomeration

- Tables for providing the information about agglomerations covered in the noise action plan, as well as the competent authorities or its organisational units responsible of developing, approving or collecting action plans for the different agglomerations:
 - NAP_Agglomeration
 - NAP_AggCompetentAuthority
- Table for providing information about the noise limit details applied in the action plan:
 - NAP_AggLimitValues
- Table for providing the summary of information from the strategic noise maps within the area covered by the noise action plans
 - NAP_AggMappingResultDetail
- Table for providing information on the management or noise-reduction measures already in force or planned to be implemented in the next five years:
 - NAP_AggReductionMeasures
- Tables for providing information about the estimates in terms of the reduction of people affected including the reduction of people suffering health effects of noise.
 - NAP_AggReductionHealthImpact_1
 - NAP_AggReductionHealthImpact_2
 - NAP_AggReductionHealthImpact_3
- Common and pre-defined tables (see section 4.3.2 for further explanation):
 - DatasetDefaultProperties
 - CodelistProperties.

The following diagram in

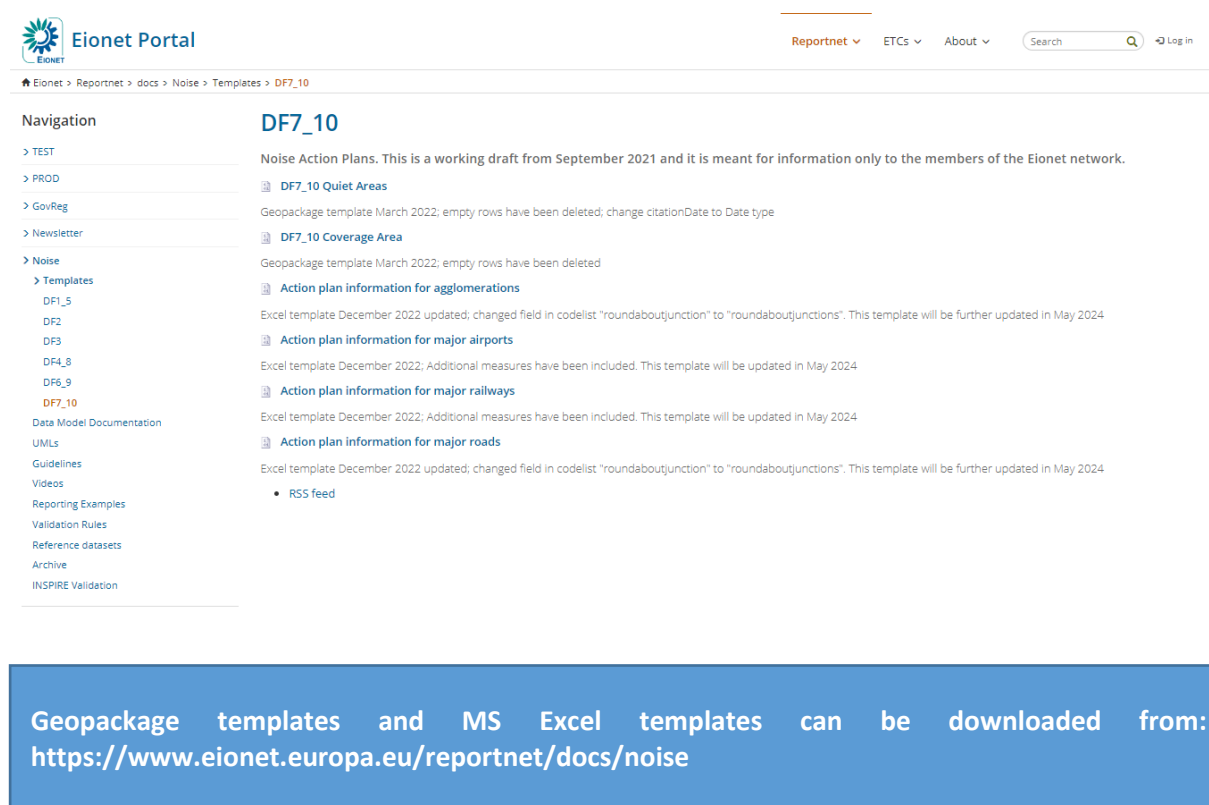
Figure 4.4 summarizes the MS Excel template structure.

Figure 4.4 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>.

Figure 4.5. Screenshot of the Eionet Portal page where the GeoPackage and MS Excel templates are available for download



5 Data schema: Coverage area for agglomeration (DF7_10)

5.1 Description

Area that has been evaluated by the competent authority in order to take decisions on reducing the negative health effects of noise and for which the action plan applies. For urban areas it is expected to be the boundary area of an agglomeration, a district in an agglomeration, or a LAU unit.

The Coverage area for agglomeration (DF7_10) data schema includes four thematic tables and two additional tables supporting the alternative data harvesting process

- NoiseActionPlanCoverageArea: primary content including spatial data
- NoiseActionPlanCoverageAreaVoidables: table includes attributes defined as « voidable in the INSPIRE context »
- 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).
- HarvestSource: URLs from which to harvest the geospatial features needed for the reporting.
- WorkflowLog: log messages from the harvesting process (i.e. harvested resources, errors occurring during harvesting).

5.2 Table NoiseActionPlanCoverageArea

The table *NoiseActionPlanCoverageArea* provides the polygon that represents the area evaluated by the competent authority to take decisions on reducing and preventing negative health impacts of noise and for which the action plan applies. It is linked to a noise action plan.

Table 5.1. NoiseActionPlanCoverageArea table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	id	Number - Integer	
M	actionPlanIdIdentifier	Link	
M	inspireId_localId	Text	
M	inspireId_namespace	Text	
O	inspireId_versionId	Text	
M	geometry	Multiple polygons	
M	sourceIdentifier	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 id

Requirement	Mandatory
Description	Unique identifier automatically created in GeoPackage file (primary key in the SQLite database). It is mandatory.
Reportnet 3 type	Number - Integer
Format	Maximum of 20 characters
Information	This attribute is primarily required by the OGC GeoPackage standard. It must be unique within a GeoPackage file.
Example	1

5.2.2 Field actionPlanIdIdentifier

Requirement	Mandatory
Description	Unique identifier of the action plan for which the coverage area applies. Shall be filled in with the unique code of the action plan. It is expected to be the same as the identifier from the table NoiseActionPlanAgglomeration (field: actionPlanId_identifier) from the data schema Noise action plan for agglomeration (DF7_10).
Reportnet 3 type	Link
Format	Only one value is allowed
Information	Need to re-use the unique identifier of the action plan.
Example	AP_AG_AT_00_1
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

5.2.3 Spatial object identifier inspireId

Following the underlying INSPIRE conceptual data model, each action plan coverage area includes also the external unique object identifier published by the responsible body. The field inspireId is based on the complex data type (Identifier) which is represented in the table by three interrelated fields: inspireId_localId, inspireId_namespace and inspireId_versionId. The external unique object identifier is provided by the mandatory values in the fields inspireId_localId and inspireId_namespace. The field inspireId_versionId is optionally used when different versions of the same spatial object are provided in the data set.

Additional information and recommendations on creating INSPIRE external unique object identifiers are provided in “Creating INSPIRE external unique object identifiers in the scope of the END reporting data”.

Field inspireId_localId

Requirement	Mandatory
Description	Part of inspireId - external object identifier of the spatial object, defined in the INSPIRE Implementing Rules on Interoperability. It could be combined with the unique identifier of the noise action plan which defines the area (actionPlanIdIdentifier). If a Member State have already in place rules for INSPIRE identifiers, these rules could be used.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	See more information in “Creating INSPIRE external unique object identifiers in the scope of the END reporting data”. Example below is composed by actionPlanIdIdentifier and a feature id.
Example	AP_AG_AT_00_1_1
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

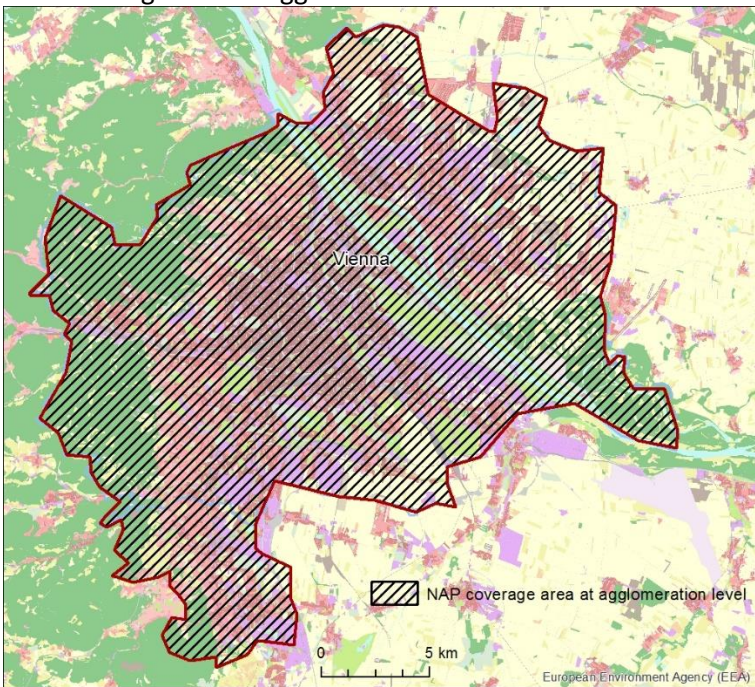
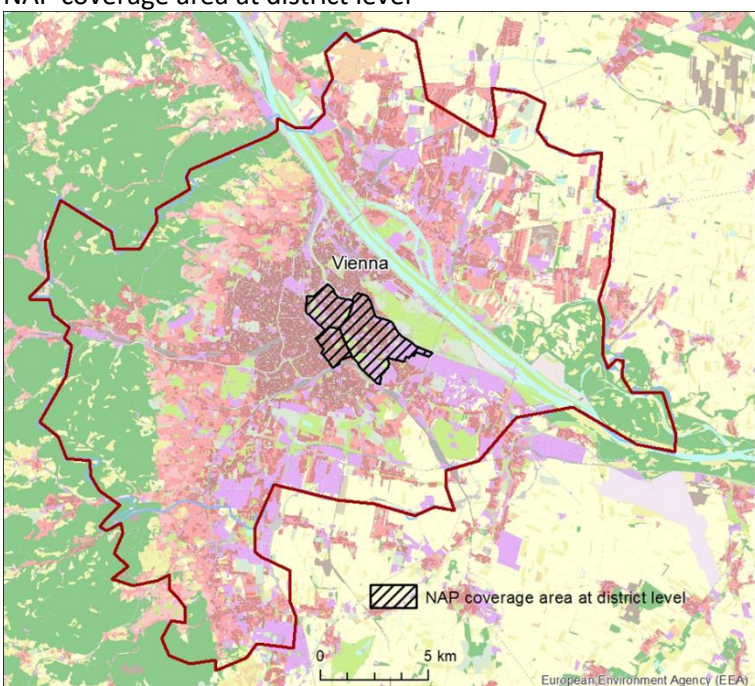
Field inspireId_namespace

Requirement	Mandatory
Description	Part of inspireId - external object identifier of the spatial object, defined in the INSPIRE Implementing Rules on Interoperability. The attribute namespace uniquely identifies the data source or data set of the spatial object.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	See more information in “Creating INSPIRE external unique object identifiers in the scope of the END reporting data”
Example	end_actionplan_agglomeration
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

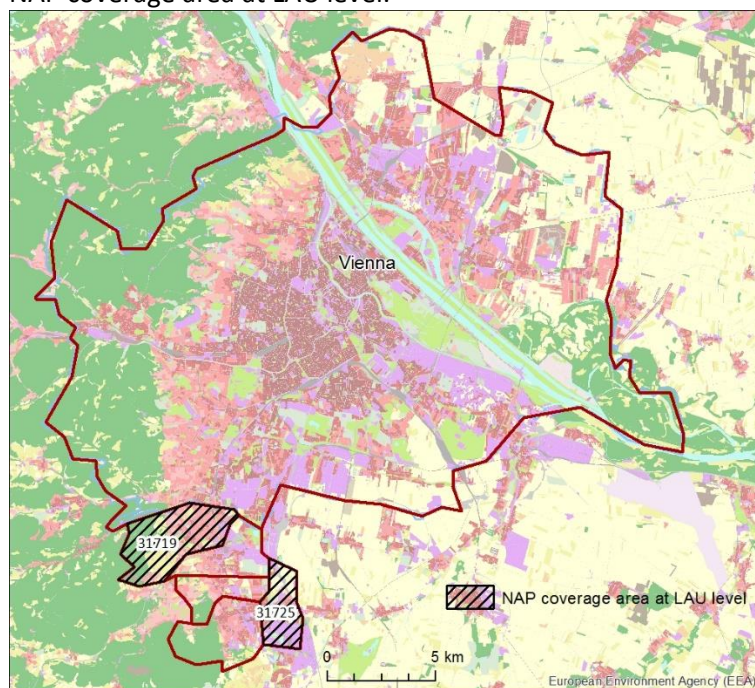
Field inspireId_versionId

Requirement	Optional
Description	The attribute versionId identifies a particular version of a spatial object, defined in the INSPIRE Implementing Rules on Interoperability. This attribute can be used together with life-cycle information to distinguish between the different versions of a spatial object.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	See more information in “Creating INSPIRE external unique object identifiers in the scope of the END reporting data”. It is proposed to omit spatial object versions (no value – empty field).
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

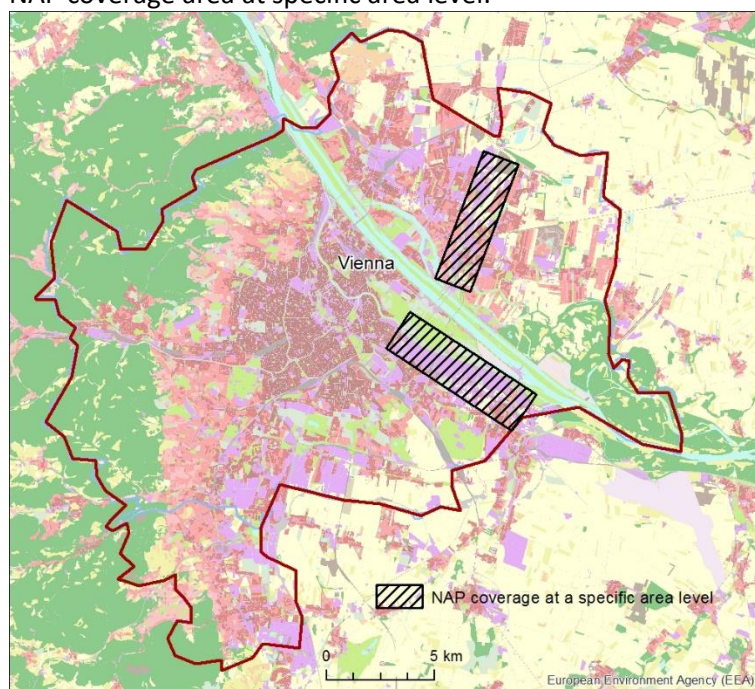
5.2.4 Field geometry

Requirement	Mandatory
Description	Spatial extent of the area that has been evaluated by the competent authority in order to take decisions on reducing the negative health effects of noise and for which the action plan applies. It is according to the definition in the INSPIRE Implementing Rules on Interoperability. Geometry of the noise action plan coverage area shall be presented as area, by using polygon or multipolygon geometry type.
Reportnet 3 type	Multiple polygons
Information	Geometry type of polygon or multipolygon is allowed.
Example (polygon and mutipolygon geometry)	<p>NAP coverage area at agglomeration level :</p>  <p>NAP coverage area at district level</p> 

NAP coverage area at LAU level:



NAP coverage area at specific area level:



5.2.5 Field sourceIdentifier

Requirement	Mandatory
Description	This field is filled automatically. It indicates the source of the reporting data. It is composed of the source name and time stamp. It can be a name of the directly imported file, or the URL of an external source, from which the data was harvested, as recorded in the HarvestSource table. The field also supports the integrity between the primary table with spatial data and the voidables table.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	The data source will be provided in the form of a time stamp (DateTime format) and the source name (imported file or service URL). It is provided by the import or harvest process and must not be modified.
Example	2025-05-10T10:10:46Z AgglomerationActionPlanCoverage.gpkg
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

5.3 Table NoiseActionPlanCoverageAreaVoidables

This table includes attributes that are defined as voidable in the data model. Only the attributes defined in the INSPIRE specifications are voidable. This table is used in case a value is assigned to a voidable attribute for an individual spatial object which is already provided in the primary (core) table NoiseActionPlanCoverageArea. Otherwise, the default values of these attributes (defined in the DatasetDefaultProperties table) are used and therefore this table can be left empty.

It is recommended to use DatasetDefaultProperties as default values applicable to the complete dataset. By doing this, NoiseActionPlanCoverageAreaVoidables can be left empty.

In case a value for a voidable property for each special object is provided, the following constraints apply to individual voidable property:

- 1) DateTime data type requires ISO DateTime format with UTC information. The required format is YYYY-MM-DDThh:mm:ssZ. It is applicable to the fields designationPeriod_beginPosition, designationPeriod_endPosition, beginLifespanVersion;
- 2) If designationPeriod_beginPosition is provided and designationPeriod_endPosition is not known it can be left empty (it is assumed it is not known);
- 3) If information about the competent authority is provided it shall be provided with at least the following information:
 - One of the fields competentAuthority_indivName (individual name), competentAuthority_orgName (organisation name) or competentAuthority_posName (position name) must be provided;
 - Field competentAuthority_role must be provided with the value “authority” from the designated code list;
- 4) If a legal instrument is provided in legalBasis, it must be provided in both fields legalBasis_link and legalBasis_level;

- 5) If any value for a voidable property of a spatial object is provided, a correct linking between both tables NoiseActionPlanCoverageArea and NoiseActionPlanCoverageAreaVoidables must be provided: the field NoiseActionPlanCoverageArea_id in the table NoiseActionPlanCoverageAreaVoidables must include the corresponding id of the spatial object from the table NoiseActionPlanCoverageArea, see example below.

NoiseActionPlanCoverageArea		NoiseActionPlanCoverageAreaVoidables	
id	... other fields ...	NoiseActionPlanCoverageArea_id	... other fields ...
10		10	

Detailed information about requirements of voidable properties in the INSPIRE application schema can be also found in the [INSPIRE Data Specification on Area Management/Restriction/Regulation Zones and Reporting Units – Technical Guidelines](#) and in the [Implementing Rules on Interoperability of spatial data sets and services](#).

Table 5.2. NoiseActionPlanCoverageAreaVoidables table overview

Mandatory /optional	Name	Reportnet 3 Type	Code list
M	id	Number - Integer	
O	designationPeriod_beginPosition	DateTime	
O	designationPeriod_endPosition	DateTime	
O	competentAuthority_contact	Text	
O	competentAuthority_indivName	Text	
O	competentAuthority_orgName	Text	
O	competentAuthority_posName	Text	
O	competentAuthority_role	Link	http://inspire.ec.europa.eu/codelist/RelatedPartyRoleValue
O	legalBasis_link	URL	
O	legalBasis_level	Link	http://inspire.ec.europa.eu/codelist/LegislationLevelValue
O	beginLifespanVersion	DateTime	
M	NoiseActionPlanCoverageArea_id	Number - Integer	
M	sourceIdentifier	Text	

Detailed information about voidable properties in the Inspire application schemas are provided in the data model documentation (<https://www.eionet.europa.eu/reportnet/docs/noise/data-model-documentation>).

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
NoiseActionPlanCoverageArea	zoneType	href	http://inspire.ec.europa.eu/codelist/ZoneTypeCode/noiseRestrictionZone
NoiseActionPlanCoverageArea	environmentalDomain	href	http://inspire.ec.europa.eu/codelist/EnvironmentalDomain/noise
NoiseActionPlanCoverageArea	competentAuthority	nilReason	http://inspire.ec.europa.eu/codelist/VoidReasonValue/Unpopulated
NoiseActionPlanCoverageArea	beginLifespanVersion	nilReason	http://inspire.ec.europa.eu/codelist/VoidReasonValue/Unpopulated
NoiseActionPlanCoverageArea	specialisedZoneType	href	http://dd.eionet.europa.eu/vocabulary/inspire/SpecialisedZoneTypeCode/noiseActionPlanArea
NoiseActionPlanCoverageArea	designationPeriod	nilReason	http://inspire.ec.europa.eu/codelist/VoidReasonValue/Unpopulated
NoiseActionPlanCoverageArea	legalBasis_link	href	http://data.europa.eu/eli/dir/2002/49/oj
NoiseActionPlanCoverageArea	legalBasis_level	href	http://inspire.ec.europa.eu/codelist/LegislationLevelValue/european

5.5 Table CodelistProperties

This table includes a list of the code lists that have to be used for reporting data on the DF7_10 Noise Action Plan 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
NoiseActionPlanCoverageArea	specialisedZoneType	http://dd.eionet.europa.eu/vocabulary/inspire/SpecialisedZoneTypeCode
NoiseActionPlanCoverageArea	environmentalDomain	http://inspire.ec.europa.eu/codelist/EnvironmentalDomain
NoiseActionPlanCoverageArea	zoneType	http://inspire.ec.europa.eu/codelist/ZoneTypeCode
NoiseActionPlanCoverageArea	competentAuthority_role	http://inspire.ec.europa.eu/codelist/RelatedPartyRoleValue
NoiseActionPlanCoverageArea	legalBasis_level	http://inspire.ec.europa.eu/codelist/LegislationLevelValue

5.6 Tables supporting data harvesting through INSPIRE download services

The dataset schema includes two additional tables for the alternative reporting method by providing INSPIRE download services and trigger a data harvesting process. The tables HarvestSource and WorkflowLog are described together with the harvesting process in section 8.4 and in Annex 5.

Regardless of the import process, file import or download service harvesting, the expected file format is GeoPackage provided on the pre-defined template.

5.7 GeoPackage format

5.7.1 Support to data transformation into GeoPackage

GeoPackage template

The GeoPackage template NoiseActionPlan-CoverageArea.gpkg that has been created to support data reporting can be found in the:

- Dataflow Help page in Reportnet 3 (see 4.3), and
- <https://www.eionet.europa.eu/reportnet/docs/noise>.

Sample data

Sample data containing information as an example of reporting best practices is available at: https://www.eionet.europa.eu/reportnet/docs/noise/reporting-examples/coverage-area-df7_10. It is important to notice that the sample data is simulated data.

Demonstration of data transformation with the ETL tool HALE Studio

A demonstration video on how to create the new GeoPackage file has been issued, using HALE Studio tool, which is accessible in: <https://www.eionet.europa.eu/reportnet/docs/noise/videos>.

The data transformation project (HALE Studio) details with test data (note: using simulated data for feasibility of data transformation, not exact data for noise reporting) can also be found in the repository https://github.com/wetransform-os/geopackage-end/tree/main/DF7_10/NoiseActionPlans. It shows possibilities to create a mapping between a source schema and target GeoPackage schema and transform source data into the Geopackage file format.

5.7.2 Use of GeoPackage file format in the Reportnet 3

The GeoPackage template for Noise action plan (DF7_10) coverage area includes the same tables as the ones that are included in Reportnet 3, see example below. The data import process in the Reportnet 3 transfers data from the GeoPackage file into the correlated tables into the Reportnet 3 data schema *Coverage area for agglomeration (DF7_10)*.

GeoPackage template NoiseActionPlan-CoverageArea.gpkg – list of tables	Reportnet 3 data schema <i>Coverage area for agglomeration (DF7_10)</i>– list of tables
NoiseActionPlanCoverageArea	NoiseActionPlanCoverageArea
NoiseActionPlanCoverageAreaVoidables	NoiseActionPlanCoverageAreaVoidables
DatasetDefaultProperties (pre-filled)	DatasetDefaultProperties (pre-filled, read-only)
CodelistProperties (pre-filled)	CodelistProperties (pre-filled, read-only)

6 Data schema: Noise action plan for agglomeration (DF7_10)

6.1 Description

Plan, based on strategic noise mapping results, developed to manage, prevent and reduce environmental noise in agglomerations, in particular in areas where exposure levels can induce harmful effects on human health.

The Noise action plan for agglomeration (DF7_10) data schema includes 11 tables:

- NoiseActionPlanAgglomeration: contains the summary information related to the action plan's reporting for agglomerations for the different noise sources that are mapped inside agglomerations, as determined by the Environmental Noise Directive.
- NAP_Aggglomeration: contains information on the agglomeration or agglomerations covered by the action plan
- NAP_AggCompetentAuthority: contains the list of unique identifiers of the competent authority responsible for action plan development, collection and approval.
- NAP_AggLimitValues: contains information about the noise limit values applied in the action plan.
- NAP_AggMappingResultDetail: contains the summary information of the strategic noise maps within the area covered by the noise action plan.
- NAP_AggReductionMeasure: contains the management or noise-reduction measures already in force or in preparation as well as the description of any actions within the area covered by the action plan to be taken in the next five years.
- NAP_AggReductionHealthImpact_1: contains information about the number of people experiencing a reduction in terms noise levels due to the implementation of the noise action plan and the methodology used to estimate the number of people experiencing reduction.
- NAP_AggReductionHealthImpact_2: contains information about the estimates in terms of reduction of people suffering health effects of noise.
- NAP_AggReductionHealthImpact_3: contains information about the estimated cost-benefit of the measures described in the action plan.
- 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).

6.2 Table NoiseActionPlanAgglomeration

The table *NoiseActionPlanAgglomeration* provides the summary information related to the action plan's reporting for agglomerations for the different noise sources that are mapped inside agglomerations, as determined by the Environmental Noise Directive.

Table 6.1. NoiseActionPlanAgglomeration table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	actionPlanId_identifier	Text	
M	legalContext_actionPlanStartDate	Date	
O	legalContext_actionPlanEndDate	Date	
O	legalContext_actionPlanDocument_citationDate	Date	
O	legalContext_actionPlanDocument_citationLink	URL	
O	legalContext_actionPlanDocument_citationName	Text	
O	legalContext_actionPlanDocument_citationLevel	Link	http://inspire.ec.europa.eu/codelist/LegislationLevelValue
O	legalContext_actionPlanDocument_citationType	Link	https://dd.eionet.europa.eu/vocabulary/inspire/CitationTypeValue
O	legalContext_additionalDescription	Multiline text	
O	publicConsultation_consultationDocumentationSummary	Multiline text	
O	publicConsultation_consultationDocumentationOnline	Text	
M	publicConsultation_consultationStartDate	Date	
M	publicConsultation_consultationEndDate	Date	
C	publicConsultation_consultationMeans	Link	https://dd.eionet.europa.eu/vocabulary/noise/ConsultationMeansValue
C	publicConsultation_otherConsultationMeans	Text	
O	publicConsultation_stakeholdersType	Link	https://dd.eionet.europa.eu/vocabulary/noise/StakeholdersTypeValue
O	publicConsultation_otherStakeholdersType	Text	
O	publicConsultation_numberOfParticipants	Number – Integer	

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	publicConsultation_commentsReceived	Single select	
M	publicConsultation_commentsIncludedInNAP	Single select	
M	publicConsultation_NAPReviewed	Single select	
M	publicConsultation_reviewExplanation	Multiline text	
M	longTermStrategy	Single select	
O	longTermStrategyExplanation	Multiline text	
C	estimatedOverallCost	Number – Decimal	
C	costCurrency	Text	
M	quietAreas	Single Select	
M	implementationMechanism	Single Select	
O	implementationMechanismDescription	Multiline text	
M	resultsEvaluationMechanism	Single select	
O	resultsEvaluationMechanismDescription	Link	https://dd.eionet.europa.eu/vocabulary/noise/EvaluationMechanismValue

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 *actionPlanId_identifier*

Requirement	Mandatory
Description	Unique identifier assigned to each noise action plan. 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	AP_AG_AT_00_1
Reporting constraints	actionPlanId_identifier will be re-used to link the tables in this dataset schema and it is used in the data schema Coverage area. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.2.2 Field *legalContext_actionPlanStartDate*

Requirement	Mandatory
Description	Indicates the legal context details of the noise action plan following END demands: Date when the noise action plan is adopted
Reportnet 3 type	Date
Format	YYYY-MM-DD
Example	2025-01-18

6.2.3 Field *legalContext_actionPlanEndDate*

Requirement	Optional
Description	Indicates the legal context details of the noise action plan following END demands: Date when the noise action plan is expected to be implemented
Reportnet 3 type	Date
Format	YYYY-MM-DD
Example	2030-01-18

6.2.4 Field *legalContext_actionPlanDocument_citationDate*

Requirement	Optional
Description	Information about the complete action plan document: Date when the action plan was issued
Reportnet 3 type	Date
Format	YYYY-MM-DD
Example	2024-07-18

6.2.5 Field *legalContext_actionPlanDocument_citationLink*

Requirement	Optional
Description	Information about the complete action plan document: Link to the website where the action plan is available.
Reportnet 3 type	URL
Format	Maximum of 10000 characters
Information	Provision of the link to the website where the action plan is available.
Example	https://www.laerminfo.at/
Reporting constraints	Limit of 2100 characters due to database export constraints. Please see section 3.3.

6.2.6 Field *legalContext_actionPlanDocument_citationName*

Requirement	Optional
Description	Information about the complete action plan document: Title of the action plan
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	Title of the action plan document
Example	Noise action plan for Vienna agglomeration (2025-2030)
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.2.7 Field *legalContext_actionPlanDocument_citationLevel*

Requirement	Optional
Description	Information about the complete action plan document: Legislative or administrative level at which the action plan 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: <ul style="list-style-type: none">- sub-national- national- international- european
Example	national
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.2.8 Field *legalContext_actionPlanDocument_citationType*

Requirement	Optional
Description	Information about the complete action plan document: Type of action plan.
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: <ul style="list-style-type: none"> - 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	documentCitation
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.2.9 Field *legalContext_additionalDescription*

Requirement	Optional
Description	Additional information about the legal framework of the noise action plan
Reportnet 3 type	Multiline text
Format	Maximum of 10000 characters
Example	There is a specific national legislation that competent authorities need to apply for noise action plans. Apart from the END requirements, competent authorities are obliged to present a mid-term report on the implementation of action plans.
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.2.10 Field *publicConsultation_consultationDocumentationSummary*

Requirement	Optional
Description	Describes the public consultation of the proposed noise action plan: Summary of the public consultation documentation.
Reportnet 3 type	Multiline text
Format	Maximum of 10000 characters
Information	It is expected to provide a summary of the results of the consultation.
Example	There was an online public consultation conducted during 3 months by the city council (period June – September 2024). Feedback is collected in view of NAP revision. A second consultation was held during November to collect feedback on quiet areas.
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.2.11 Field *publicConsultation_consultationDocumentationOnline*

Requirement	Optional
Description	Describes the public consultation of the proposed noise action plan: URL links to the public consultation documents.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	Provision of the links (URL) to the documents related to the public consultations being held; separated by “;” if more than one link is provided.
Example	https://www.laerminfo.at/ ; https://www.laerminfo.at/aktionsplaene/ap_2018.html
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.2.12 Field *publicConsultation_consultationStartDate*

Requirement	Mandatory
Description	Describes the public consultation of the proposed noise action plan: Start date of the public consultation period.
Reportnet 3 type	Date
Format	YYYY-MM-DD
Example	2024-06-01

6.2.13 Field *publicConsultation_consultationEndDate*

Requirement	Mandatory
Description	Describes the public consultation of the proposed noise action plan: End date of the public consultation period.
Reportnet 3 type	Date
Format	YYYY-MM-DD
Example	2024-12-15

6.2.14 Field *publicConsultation_consultationMeans*

Requirement	Conditional
Description	Describes the public consultation of the proposed noise action plan: Means used to consult the public and reach different stakeholders.
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/ConsultationMeansValue The following code list values apply: <ul style="list-style-type: none"> - advertisement - focusGroup - informationCampaign - meeting - publicEvent - survey - workshop
Example	publicEvent; meeting; survey
Reporting constraints	This attribute is conditional. consultationMeans or otherConsultationMeans need to be provided. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.2.15 Field *publicConsultation_otherConsultationMeans*

Requirement	Conditional
Description	Describes the public consultation of the proposed noise action plan: Indication of other types of consultation mechanisms not outlined in the code list ConsultationMeansValue.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Example	Interviews to NGOs.
Reporting constraints	This attribute is conditional. consultationMeans or otherConsultationMeans need to be provided. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.2.16 Field *publicConsultation_stakeholdersType*

Requirement	Optional
Description	Type of stakeholders participating in the public consultation
Reportnet 3 type	Link
Format	Multiple values are allowed Value separated list with the separation character “;” (semicolon)
Code list	Code list URL: http://dd.eionet.europa.eu/vocabulary/noise/StakeholdersTypeValue/ The following code list values apply: <ul style="list-style-type: none">- NGOs- citizens- governmentBodies- privateSector
Example	citizens; governmentBodies
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.2.17 Field *publicConsultation_otherStakeholdersType*

Requirement	Optional
Description	Indication of other types of stakeholders participating in the public consultation not outlined in the code list StakeholdersTypeValue
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Example	Hospital managers; school managers
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.2.18 Field *publicConsultation_numberOfParticipants*

Requirement	Optional
Description	Number of people that participated in the public consultation
Reportnet 3 type	Number - Integer
Format	Maximum of 20 characters
Example	173

6.2.19 Field *publicConsultation_commentsReceived*

Requirement	Mandatory
Description	Indicates if any comments were received during the public consultation process
Reportnet 3 type	Single select
Format	Yes No
Example	Yes

6.2.20 Field *publicConsultation_commentsIncludedInNAP*

Requirement	Mandatory
Description	Indicates if any comments received during the consultation process have been included in the noise action plan
Reportnet 3 type	Single select
Format	Yes No
Example	Yes

6.2.21 Field *publicConsultation_NAPReviewed*

Requirement	Mandatory
Description	Indicates if noise action plan has been revised after the public consultation process
Reportnet 3 type	Single select
Format	Yes No
Example	Yes

6.2.22 Field *publicConsultation_reviewExplanation*

Requirement	Mandatory
Description	Explanation of how a revision of the noise action plan has been conducted and how comments were taken into account after the public consultation process.
Reportnet 3 type	Multiline text
Format	Maximum of 10000 characters
Information	The explanation about how the revision of the noise action plan has been conducted is mandatory and needs to be provided independently of what is selected in “publicConsultation_NAPReviewed”. In case “No” is selected, it should be indicated why there was no revision of the action plan after the public consultation.
Example	One month after the public consultation, we set up a committee to evaluate the proposals done. The type of the noise barriers were reconsidered due to visibility and accessibility issues that were collected during the public consultation process.
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.2.23 Field *longTermStrategy*

Requirement	Mandatory
Description	Indicates if a long-term strategy to abate noise pollution is included in the NAP
Reportnet 3 type	Single select
Format	Yes No
Example	Yes

6.2.24 Field longTermStrategyExplanation

Requirement	Optional
Description	Explanation about the action plan long-term strategy.
Reportnet 3 type	Multiline text
Format	Maximum of 10000 characters
Example	Measures proposed will be applied in a time frame of 10 years. In the first five years only low noise asphalt will be applied and the promotion of other means of transport (public transport, bicycle, etc.) will be undertaken during 2 reporting cycles, introducing these measures in the mobility strategy of the city.
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.2.25 Field estimatedOverallCost

Requirement	Conditional
Description	Estimated overall cost of the action plan. If provided, costs must have related currency (and viceversa).
Reportnet 3 type	Number - Decimal
Format	Maximum of 40 characters
Example	17544372,57
Reporting constraints	If the field estimatedOverallCost is provided, then the field costCurrency should also be provided. And viceversa.

6.2.26 Field costCurrency

Requirement	Conditional
Description	Currency in which the cost is provided. If provided, costs must have related currency (and viceversa)
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Example	Euro
Reporting constraints	If the field estimatedOverallCost is provided, then the field costCurrency should also be provided. And viceversa. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.2.27 Field quietAreas

Requirement	Mandatory
Description	Indicates if the action plan includes any measures to protect quiet areas.
Reportnet 3 type	Single select
Format	Yes No
Example	Yes

6.2.28 Field implementationMechanism

Requirement	Mandatory
Description	Indicates if there are any provisions envisaged for evaluating the implementation of the noise action plan.
Reportnet 3 type	Single select
Format	Yes No
Example	Yes

6.2.29 Field implementationMechanismDescription

Requirement	Optional
Description	Description of the provisions envisaged for evaluating the implementation of the noise action plan.
Reportnet 3 type	Multiline text
Format	Maximum of 10000 characters
Example	A measurement campaign and a socio-acoustic survey will be conducted after the implementation of the measures, approximately in 2027. The results will be compared with the baseline situation from 2022.
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.2.30 Field resultsEvaluationMechanism

Requirement	Mandatory
Description	Indicates if there are any provisions envisaged for evaluating the results of the noise action plan.
Reportnet 3 type	Single select
Format	Yes No
Example	Yes

6.2.31 Field resultsEvaluationMechanismDescription

Requirement	Optional
Description	A description of how the results of the noise action plan will be evaluated.
Reportnet 3 type	Link
Format	Only one value is allowed
Code list	Code list URL: http://dd.eionet.europa.eu/vocabulary/noise/EvaluationMechanismValue/ The following code list values apply: <ul style="list-style-type: none">- calculation- measurement- survey_enquiry
Example	survey_enquiry
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.3 Table NAP_Agglomeration

The table *NAP_Agglomeration* provides the unique identifiers of the agglomerations covered in the noise action plan.

Table 6.2. NAP_Agglomeration table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	actionPlanId_identifier	Link	
M	agglomerationIdIdentifier	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.

6.3.1 Field *actionPlanId_identifier*

Requirement	Mandatory
Description	Unique identifier assigned to each noise action plan. 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 NoiseActionPlanAgglomeration by re-using the unique identifier assigned to each noise action plan. 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	AP_AG_AT_00_1
Reporting constraints	actionPlanId_identifier will be re-used to link the tables in this dataset schema and it is used in the data schema Coverage area. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.3.2 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 AgglomerationSource (agglomerationId_identifier) from END dataflow DF1_5 for Agglomerations.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	It is expected to be the same as the identifier from the feature type AgglomerationSource in DF1_5 (agglomerationId.identifier) (see more information in section 4.2.3).
Example	AG_AT_00_1
Reporting constraints	Agglomeration identifier is re-used across the complete END data model to uniquely identify spatial objects and all other objects – entities. Each unique identifier used in this dataflow should be already provided in the Noise Sources (DF1_5) dataflow. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.4 Table *NAP_AggCompetentAuthority*

The table *NAP_AggCompetentAuthority* provides the list of unique identifiers of the competent authority responsible for action plan development or collection or approval, per individual action plan.

Table 6.3. NAP_AggCompetentAuthority table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	actionPlanId_identifier	Link	
M	competentAuthorityIdIdentifier	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.

6.4.1 Field *actionPlanId_identifier*

Requirement	Mandatory
Description	Unique identifier assigned to each noise action plan. 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 NoiseActionPlanAgglomeration by re-using the unique identifier assigned to each noise action plan. 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	AP_AG_AT_00_1
Reporting constraints	actionPlanId_identifier will be re-used to link the tables in this dataset schema and it is used in the data schema Coverage area. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.4.2 Field *competentAuthorityIdentifier*

Requirement	Mandatory
Description	Unique identifier of the competent authority responsible for the action plan development, collection or approval.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	It is expected to be the same as the identifier from the data type <i>CompetentAuthorityDetails</i> (<i>competentAuthorityId.identifier</i>) of DF2 (see more information in section 4.2.3).
Example	CA_AT_00_10
Reporting constraints	Competent authority identifier will be re-used across the complete END data model to uniquely identify objects – entities. Each unique identifier used in this dataflow should be already provided in the Competent Authority (DF2) dataflow. The submission of DF7_10 will be blocked if the competent authority identifier is not included in DF2, and if the competent authority role is not related to noise action plans. It is expected the provision of one competent authority per each <i>actionPlanId_identifier</i> . Limit of 4000 characters due to database export constraints. Please see section 3.3...

6.5 Table *NAP_AggLimitValues*

The table *NAP_AggLimitValues* provides the information about the noise limit values applied in the action plan.

Table 6.4. *NAP_AggLimitValues* table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	<i>actionPlanId_identifier</i>	Link	
C	<i>limitValues_noiseLimitReportIdIdentifier</i>	Text	
C	<i>limitValues_otherCriteriaLimitDetail</i>	Text	
C	<i>limitValues_otherCriteriaDescription</i>	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.

6.5.1 Field *actionPlanId_identifier*

Requirement	Mandatory
Description	Unique identifier assigned to each noise action plan. 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 NoiseActionPlanAgglomeration by re-using the unique identifier assigned to each noise action plan. 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	AP_AG_AT_00_1
Reporting constraints	actionPlanId_identifier will be re-used to link the tables in this dataset schema and it is used in the data schema Coverage area. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.5.2 Field *limitValues_noiseLimitReportIdIdentifier*

Requirement	Conditional
Description	Unique identifiers of the noise limit values' report applicable to the noise action plan.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	Unique identifiers of the noise limit values' report applicable to the noise action plan. It is expected to be the same as the identifier of the limit value report provided in the dataflow Noise limit value (DF3).
Example	LR_AT_00_2
Reporting constraints	At least one of the following must be provided: <ul style="list-style-type: none"> - noiseLimitReportIdIdentifier OR - both attributes together (otherCriteriaLimitDetail and otherCriteriaDescription) Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.5.3 Field *limitValues_otherCriteriaLimitDetail*

Requirement	Conditional
Description	Indicates any noise limit values in place considered for the evaluation and implementation of noise management and reduction actions: Noise limit value (indicator and dB) used as criteria for the evaluation and implementation of noise management and reduction actions within the area covered by the action plan
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Example	Change in Lden must be less than 3 dB
Reporting constraints	At least one of the following must be provided: <ul style="list-style-type: none"> - noiseLimitReportIdIdentifier OR - both attributes together (otherCriteriaLimitDetail and otherCriteriaDescription) Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.5.4 Field *limitValues_otherCriteriaDescription*

Requirement	Conditional
Description	Indicates any noise limit values in place considered for the evaluation and implementation of noise management and reduction actions: Description of the other criteria used for the evaluation and implementation of noise management and reduction actions within the area covered by the action plan.
Reportnet 3 type	Multiline text
Format	Maximum of 10000 characters
Example	There are two limits depending on whether the infrastructure is existing or it is new. In an extension of an existing infrastructure, it is also considered that the increase in noise is below 3 dB Lden.
Reporting constraints	At least one of the following must be provided: <ul style="list-style-type: none"> - noiseLimitReportIdIdentifier OR - both attributes together (otherCriteriaLimitDetail and otherCriteriaDescription) Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.6 Table *NAP_AggMappingResultDetail*

The table *NAP_AggMappingResultDetail* provides the summary of information from the strategic noise maps within the area covered by the noise action plans, including the estimated number of people exposed to noise and the identification of problems and situations that need to be improved.

Table 6.5. *NAP_AggMappingResultDetail* table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	actionPlanId_identifier	Link	
O	agglomerationIdIdentifier	Text	

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	noiseSource	Link	https://dd.eionet.europa.eu/vocabulary/noise/NoiseSourceValue
M	exposedLden55	Number - Integer	
M	exposedLnight50	Number - Integer	
O	exposedToOtherIndicator	Text	
M	situationForImprovementExplanation	Multiline text	
O	situationForImprovementPrioritisation Criteria	Link	https://dd.eionet.europa.eu/vocabulary/noise/PrioritisationCriteriaValue

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.

6.6.1 Field *actionPlanId_identifier*

Requirement	Mandatory
Description	Unique identifier assigned to each noise action plan. 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 NoiseActionPlanAgglomeration by re-using the unique identifier assigned to each noise action plan. 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	AP_AG_AT_00_1
Reporting constraints	actionPlanId_identifier will be re-used to link the tables in this dataset schema and it is used in the data schema Coverage area. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.6.2 Field *agglomerationIdIdentifier*

Requirement	Optional
Description	Unique identifier assigned to each agglomeration.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	<p>It is expected to be the same as the agglomeration unique identifier provided in END dataflow DF1_5 for Agglomerations (agglomerationId_identifier).</p> <p>The value of this field re-uses the identifier of the agglomerations defined in DF1_5 (see more information in section 4.2.3).</p>
Example	AG_AT_00_1
Reporting constraints	<p>Agglomeration identifier will be re-used across the complete END data model to uniquely identify spatial objects and all other objects – entities.</p> <p>Each unique identifier used in this dataflow should be already provided in the Noise Sources (DF1_5) dataflow. The agglomeration identifiers not provided in DF1_5 will be highlighted as error in the quality check (still accepted in the submission).</p> <p>The agglomerationIdIdentifier refers to the list of agglomeration identifiers provided in the table NAP_Agglomeration.</p> <p>For a unique actionPlanId_identifier, the mapping summary should be provided either considering the whole action plan for the specific noise source inside agglomeration or by individual agglomeration identifier and noise source, but the combination of both types of reporting is not possible.</p> <p>Option 1: agglomerationIdIdentifier is empty but actionPlanId_identifier and noiseSource are provided: this means that the information related to the summary of strategic noise maps within the area covered by the noise action plan will refer to the complete action plan and specific noise source.</p> <p>Option 2: actionPlanId_identifier, agglomerationIdIdentifier and noisesource are provided: this means that the information related to the summary of strategic noise maps within the area covered by the noise action plans will refer to the agglomeration and specific noise source.</p> <p>The provision of the complete list of agglomeration identifiers will be evaluated during the technical acceptance process.</p> <p>Limit of 4000 characters due to database export constraints. Please see section 3.3.</p>

6.6.3 Field noiseSource

Requirement	Mandatory
Description	Noise source inside agglomeration addressed by the action plan
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: <ul style="list-style-type: none"> - agglomerationAir - agglomerationIndustry - agglomerationRoad - agglomerationRailway - agglomerationMajorAirport - agglomerationMajorRoad - agglomerationMajorRailway
Information	Agglomerations need to provide action plans for all the noise sources from which their inhabitants are exposed to. For instance cities that have roads and railways but no airports are expected to select “agglomerationRoad”, “agglomerationRailway”, “agglomerationMajorRoad”, “agglomerationMajorRailway” and provide the information expected in relation to each noise source inside the agglomeration. If no specific information is available for the major sources inside agglomeration (“agglomerationMajorAir”, “agglomerationMajorRailway” or “agglomerationMajorRoad”), when selecting “agglomerationAir”, “agglomerationRailway” and “agglomerationRoad” respectively, will be assumed that major and non major sources are included. This is because for instance agglomerationRoad should include all roads i.e. major roads and non-major roads.
Example	agglomerationRoad
Reporting constraints	Action plans addressing 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 noise action plan for agglomerations. The provision of the complete list of noise sources inside agglomerations will be evaluated during the technical acceptance process. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.6.4 Field exposedLden55

Requirement	Mandatory
Description	Number of people exposed to equal or more than 55 dB Lden in the area covered by the action plan.
Reportnet 3 type	Number - Integer
Format	Maximum of 20 characters
Information	Number of people. The number should indicate the total number of people to avoid any confusion on rounding issues. For example the number 135472 corresponds to one hundred thirty five thousand four hundred seventy two exposed people.
Example	5478

6.6.5 Field exposedLnight50

Requirement	Mandatory
Description	Number of people exposed to equal or more than 50 dB Lnight in the area covered by the action plan.
Reportnet 3 type	Number - Integer
Format	Maximum of 20 characters
Information	Number of people. The number should indicate the total number of people to avoid any confusion on rounding issues. For example the number 135472 corresponds to one hundred thirty five thousand four hundred seventy two exposed people.
Example	5478

6.6.6 Field exposedToOtherIndicator

Requirement	Optional
Description	Number of people exposed to another noise indicator than Lden and Lnight relevant for the noise action plan
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	Number of people. The number should indicate the total number of people to avoid any confusion on rounding issues. For example the number 135472 corresponds to one hundred thirty five thousand four hundred seventy two exposed people.
Example	60000 people exposed to Lday equal or more than 50 dB.
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.6.7 Field situationForImprovementExplanation

Requirement	Mandatory
Description	Description of the problems identified and situations that need to be improved.
Reportnet 3 type	Multiline text
Format	Maximum of 10000 characters
Information	Briefly describe all the problems identified and situations that need to be improved when implementing the action plan.
Example	From the strategic noise maps areas that are above 60 dB Lden were extensive along the major roads inside the city. These areas will be addressed in the noise action plan with additional measures.
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.6.8 Field situationForImprovementPrioritisationCriteria

Requirement	Optional
Description	Description of the prioritization criteria used for developing the noise action plan
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/PrioritisationCriteriaValue The following code list values apply: <ul style="list-style-type: none"> - cost-benefits - levelOfNoiseExposure - numberOfExposedPeople
Example	numberOfExposedPeople; cost-benefits
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.7 Table NAP_AggReductionMeasure

The table *NAP_AggReductionMeasure* provides the summary of the management or noise-reduction measures already in force or preparation as well as the description of any actions within the area covered by the action plan, which the competent authorities intend to take in the next five years.

This table includes the following types of information: action plan identifier, agglomeration identifier (optional), noise source, information about existing measures and information about the planned measures. In this particular table, the existing and planned measures are defined for each noise source type in agglomerations: airport, road, rail and industry.

It is recommended to describe existing and planned measures in agglomerations that have been declared in DF1_5 agglomerations.

Table 6.6. NAP_AggReductionMeasure table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	actionPlanId_identifier	Link	
O	agglomerationIdIdentifier	Text	
M	noiseSource	Link	https://dd.eionet.europa.eu/vocabulary/noise/NoiseSourceValue
C	existingMeasureAir	Link	http://dd.eionet.europa.eu/vocabulary/noise/AirportMeasureValue/
C	existingMeasureRailway	Link	http://dd.eionet.europa.eu/vocabulary/noise/RailMeasureValue/

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
C	existingMeasureRoad	Link	http://dd.eionet.europa.eu/vocabulary/noise/RoadMeasureValue/
C	existingMeasureIndustry	Link	https://dd.eionet.europa.eu/vocabulary/noise/IndustryMeasureValue
C	plannedMeasureDetail_plannedMeasureAir	Link	http://dd.eionet.europa.eu/vocabulary/noise/AirportMeasureValue/
C	plannedMeasureDetail_plannedMeasureRailway	Link	http://dd.eionet.europa.eu/vocabulary/noise/RailMeasureValue/
C	plannedMeasureDetail_plannedMeasureRoad	Link	http://dd.eionet.europa.eu/vocabulary/noise/RoadMeasureValue/
C	plannedMeasureDetail_plannedMeasureIndustry	Link	https://dd.eionet.europa.eu/vocabulary/noise/IndustryMeasureValue
M	plannedMeasureDetail_expectedBenefits	Multiline text	
O	plannedMeasureDetail_cost	Number - Decimal	
C	plannedMeasureDetail_costCurrency	Text	
C	plannedMeasureDetail_allMeasuresInCost	Single select	
C	plannedMeasureDetail_measuresInCostRoad	Link	http://dd.eionet.europa.eu/vocabulary/noise/RoadMeasureValue/
C	plannedMeasureDetail_measuresInCostRail	Link	http://dd.eionet.europa.eu/vocabulary/noise/RailMeasureValue/
C	plannedMeasureDetail_measuresInCostAir	Link	http://dd.eionet.europa.eu/vocabulary/noise/AirportMeasureValue/
C	plannedMeasureDetail_measuresInCostIndustry	Link	https://dd.eionet.europa.eu/vocabulary/noise/IndustryMeasureValue

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.

6.7.1 Field *actionPlanId_identifier*

Requirement	Mandatory
Description	Unique identifier assigned to each noise action plan. This attribute is provided according to the data type ThematicIdentifier.
Reportnet 3 type	Link
Format	Maximum of 10000 characters
Information	<p>It is a foreign key related to the table NoiseActionPlanAgglomeration by re-using the unique identifier assigned to each noise action plan.</p> <p>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”.</p> <p>It belongs to the common END identifier scheme named EUENDCode. The identifier scheme is provided as default value in the table DatasetDefaultProperties.</p>
Example	AP_AG_AT_00_1
Reporting constraints	<p>actionPlanId_identifier will be re-used to link the tables in this dataset schema and it is used in the data schema Coverage area.</p> <p>Limit of 4000 characters due to database export constraints. Please see section 3.3.</p>

6.7.2 Field *agglomerationIdIdentifier*

Requirement	Optional
Description	Unique identifier assigned to each agglomeration. It is expected to be the same as the identifier from the feature type AgglomerationSource (agglomerationId_identifier) from END dataflow DF1_5 for Agglomerations.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	It is expected to be the same as the agglomeration unique identifier provided in END dataflow DF1_5 for Agglomerations (agglomerationId_identifier). 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_AT_00_1
Reporting constraints	<p>Agglomeration identifier will be re-used across the complete END data model to uniquely identify spatial objects and all other objects – entities.</p> <p>Each unique identifier used in this dataflow should be already provided in the Noise Sources (DF1_5) dataflow. The agglomeration identifiers not provided in DF1_5 will be highlighted as error in the quality check (still accepted in the submission).</p> <p>The agglomerationIdIdentifier refers to the list of agglomeration identifiers provided in the table NAP_Agglomeration.</p> <p>For a unique actionPlanId_identifier, the information related to the summary of noise abatement measures in place or intended to take in the next five years can be provided either considering the whole action plan for the specific noise source inside agglomeration, by individual agglomeration identifier and noise source or the combination of both.</p> <p>Option 1: agglomerationIdIdentifier is empty but actionPlanId_identifier and noiseSource are provided: this means that the information related to the summary of noise abatement measures in place or intended to take in the next five years will refer to the complete action plan and specific noise source.</p> <p>Option 2: actionPlanId_identifier, agglomerationIdIdentifier and noiseSource are provided: this means that the information related to the summary of noise abatement measures in place or intended to take in the next five years will refer to the agglomeration and specific noise source.</p> <p>Option 3: A combination of Option 1 and Option 2 can be provided: this means that the information related to the summary of noise abatement measures in place or intended to take in the next five years will refer to the complete action plan and specific noise source, adding on top specific information for the agglomerations indicated.</p> <p>The provision of the complete list of agglomeration identifiers will be evaluated during the technical acceptance process.</p> <p>Limit of 4000 characters due to database export constraints. Please see section 3.3.</p>

6.7.3 Field noiseSource

Requirement	Mandatory
Description	Noise source inside agglomeration addressed by the action plan
Reportnet 3 type	Link
Format	Only one value is allowed
Code list	<p>Code list URL: https://dd.eionet.europa.eu/vocabulary/noise/NoiseSourceValue/</p> <p>Applicable code list values:</p> <ul style="list-style-type: none"> - agglomerationAir - agglomerationIndustry - agglomerationRoad - agglomerationRailway - agglomerationMajorAirport - agglomerationMajorRoad - agglomerationMajorRailway
Information	<p>Agglomerations need to provide action plans for all the noise sources from which their inhabitants are exposed to. For instance cities that have roads and railways but no airports are expected to select “agglomerationRoad”, “agglomerationRailway”, “agglomerationMajorRoad”, “agglomerationMajorRailway” and provide the information expected in relation to each noise source inside the agglomeration.</p> <p>If no specific information is available for the major sources inside agglomeration (“agglomerationMajorAir”, “agglomerationMajorRailway” or “agglomerationMajorRoad”), when selecting “agglomerationAir”, “agglomerationRailway” and “agglomerationRoad” respectively, will be assumed that major and non major sources are included. This is because for instance agglomerationRoad should include all roads i.e. major roads and non-major roads.</p>
Example	agglomerationRoad
Reporting constraints	<p>Action plans addressing 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 noise action plan for agglomerations.</p> <p>The provision of the complete list of noise sources inside agglomerations will be evaluated during the technical acceptance process.</p> <p>Limit of 4000 characters due to database export constraints. Please see section 3.3.</p>

6.7.4 Field existingMeasureAir

Requirement	Conditional
Description	Noise abatement measures already existing when adopting the noise action plan in relation to aircraft noise
Reportnet 3 type	Link
Format	Multiple values are allowed Value separated list with the separation character “;” (semicolon)
Code list	Code list URL: http://dd.eionet.europa.eu/vocabulary/noise/AirportMeasureValue/ Applicable code list values can be found in Annex 1.
Information	This attribute needs to be coherent with the noiseSource selected.
Example	curfewHours; noiseBarrier; complaintManagement
Reporting constraints	This attribute is conditional and related to the selected noiseSource. In this case it must be provided if agglomerationAir or agglomerationMajorAirport is selected as noiseSource. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.7.5 Field existingMeasureRailway

Requirement	Conditional
Description	Noise abatement measures already existing when adopting the noise action plan in relation to railway noise
Reportnet 3 type	Link
Format	Multiple values are allowed Value separated list with the separation character “;” (semicolon)
Code list	Code list URL: http://dd.eionet.europa.eu/vocabulary/noise/RailMeasureValue/ Applicable code list values can be found in Annex 2.
Information	This attribute needs to be coherent with the noiseSource selected.
Example	quietEngines; speedReduction; windowInsulation
Reporting constraints	This attribute is conditional and related to the selected noiseSource. In this case it must be provided if agglomerationRailway or agglomerationMajorRailway is selected as noiseSource. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.7.6 Field existingMeasureRoad

Requirement	Conditional
Description	Noise abatement measures already existing when adopting the noise action plan in relation to road noise
Reportnet 3 type	Link
Format	Multiple values are allowed Value separated list with the separation character “;” (semicolon)
Code list	Code list URL: http://dd.eionet.europa.eu/vocabulary/noise/RoadMeasureValue/ Applicable code list values can be found in Annex 3.
Information	This attribute need to be coherent with the noiseSource selected.
Example	roadSurface; cyclingWalkingIncrease; noiseBarrier
Reporting constraints	This attribute is conditional and related to the selected noiseSource. In this case it must be provided if agglomerationRoad or agglomerationMajorRoad is selected as noiseSource. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.7.7 Field existingMeasureIndustry

Requirement	Conditional
Description	Noise abatement measures already existing when adopting the noise action plan in relation to industrial noise
Reportnet 3 type	Link
Format	Multiple values are allowed Value separated list with the separation character “;” (semicolon)
Code list	Code list URL: http://dd.eionet.europa.eu/vocabulary/noise/IndustryMeasureValue/ Applicable code list values can be found in Annex 4.
Information	This attribute needs to be coherent with the noiseSource selected.
Example	operationTimeRestriction; bufferZones
Reporting constraints	This attribute is conditional and related to the selected noiseSource. In this case it must be provided if agglomerationIndustry is selected as noiseSource. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.7.8 Field *plannedMeasureDetail_plannedMeasureAir*

Requirement	Conditional
Description	Description of the noise abatement measures that will be implemented to reduce noise impacts in the area covered by the action plan: Actions which the competent authorities intend to take in the next five years to reduce noise impacts in the area covered by the action plan in relation to aircraft noise
Reportnet 3 type	Link
Format	Multiple values are allowed Value separated list with the separation character “;” (semicolon)
Code list	Code list URL: http://dd.eionet.europa.eu/vocabulary/noise/AirportMeasureValue/ Applicable code list values can be found in Annex 1.
Information	This attribute needs to be coherent with the noiseSource selected. This field is only related to planned measures.
Example	managementAirTrafficRoutes; windowInsulation; bufferZones; closureRunway
Reporting constraints	This attribute is conditional and related to the selected noiseSource. In this case it must be provided if agglomerationAir or agglomerationMajorAirport is selected as noiseSource. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.7.9 Field *plannedMeasureDetail_plannedMeasureRailway*

Requirement	Conditional
Description	Description of the noise abatement measures that will be implemented to reduce noise impacts in the area covered by the action plan: Actions which the competent authorities intend to take in the next five years to reduce noise impacts in the area covered by the action plan in relation to railway noise
Reportnet 3 type	Link
Format	Multiple values are allowed Value separated list with the separation character “;” (semicolon)
Code list	Code list URL: http://dd.eionet.europa.eu/vocabulary/noise/RailMeasureValue/ Applicable code list values can be found in Annex 2.
Information	This attribute needs to be coherent with the noiseSource selected. This field is only related to planned measures.
Example	reductionRailTracks; bufferZones; newTunnel; educationAwarenessActivities
Reporting constraints	This attribute is conditional and related to the selected noiseSource. In this case it must be provided if agglomerationRailway or agglomerationMajorRailway is selected as noiseSource. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.7.10 Field *plannedMeasureDetail_plannedMeasureRoad*

Requirement	Conditional
Description	Description of the noise abatement measures that will be implemented to reduce noise impacts in the area covered by the action plan: Actions which the competent authorities intend to take in the next five years to reduce noise impacts in the area covered by the action plan in relation to road noise
Reportnet 3 type	Link
Format	Multiple values are allowed Value separated list with the separation character “;” (semicolon)
Code list	Code list URL: http://dd.eionet.europa.eu/vocabulary/noise/RoadMeasureValue/ Applicable code list values can be found in Annex 3.
Information	This attribute needs to be coherent with the noiseSource selected. This field is only related to planned measures.
Example	speedReduction; roundaboutsJunctions; newBypassBridgesRoad; promotingPublicTransport; quietEngines
Reporting constraints	This attribute is conditional and related to the selected noiseSource. In this case it must be provided if agglomerationRoad or agglomerationMajorRoad is selected as noiseSource. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.7.11 Field *plannedMeasureDetail_plannedMeasureIndustry*

Requirement	Conditional
Description	Description of the noise abatement measures that will be implemented to reduce noise impacts in the area covered by the action plan: Actions which the competent authorities intend to take in the next five years to reduce noise impacts in the area covered by the action plan in relation to industrial noise
Reportnet 3 type	Link
Format	Multiple values are allowed Value separated list with the separation character “;” (semicolon)
Code list	Code list URL: http://dd.eionet.europa.eu/vocabulary/noise/IndustryMeasureValue/ Applicable code list values can be found in Annex 4.
Information	This attribute needs to be coherent with the noiseSource selected. This field is only related to planned measures.
Example	windowInsulation; complaintManagement
Reporting constraints	This attribute is conditional and related to the selected noiseSource. In this case it must be provided if agglomerationIndustry is selected as noiseSource. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.7.12 Field *plannedMeasureDetail_expectedBenefits*

Requirement	Mandatory
Description	Description of the noise abatement measures that will be implemented to reduce noise impacts in the area covered by the action plan: Explanation about the expected benefits of implementing the planned measures
Reportnet 3 type	Multiline text
Format	Maximum of 10000 characters
Information	This attribute needs to be coherent with the noiseSource selected. This field is only related to planned measures.
Example	A reduction of 20% in the number of people exposed to levels above 60 dB Lden is expected for rail traffic noise in all the agglomerations of the action plan with the planned measures.
Reporting constraints	If the code “noMeasure” is selected for the attribute plannedMeasureDetail, it needs to be specified that there will be no expected benefits because no measures will be implemented . Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.7.13 Field *plannedMeasureDetail_cost*

Requirement	Optional
Description	Description of the noise abatement measures that will be implemented to reduce noise impacts in the area covered by the action plan: Cost of the measures described
Reportnet 3 type	Number - Decimal
Format	Maximum of 40 characters
Information	This attribute needs to be coherent with the noiseSource selected. This field is only related to planned measures.
Example	700450,50

6.7.14 Field *plannedMeasureDetail_costCurrency*

Requirement	Conditional
Description	Description of the noise abatement measures that will be implemented to reduce noise impacts in the area covered by the action plan: Currency in which the cost is provided
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	This attribute needs to be coherent with the noiseSource selected. This field is only related to planned measures.
Example	Euro
Reporting constraints	This attribute is conditional. If the field plannedMeasureDetail_cost is provided, then the field plannedMeasureDetail_costCurrency should also be provided. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.7.15 Field *plannedMeasureDetail_allMeasuresInCost*

Requirement	Conditional
Description	Description of the noise abatement measures that will be implemented to reduce noise impacts in the area covered by the action plan: Indication of whether all measures are included in the cost calculation
Reportnet 3 type	Single select
Format	Applicable values: <ul style="list-style-type: none"> - Yes - No
Information	This attribute needs to be coherent with the noiseSource selected. This field is only related to planned measures.
Example	No
Reporting constraints	This attribute is conditional. If the field plannedMeasureDetail_cost is provided, then the field plannedMeasureDetail_allMeasuresInCost should also be provided.

6.7.16 Field *plannedMeasureDetail_measuresInCostRoad*

Requirement	Conditional
Description	Description of the noise abatement measures that will be implemented to reduce noise impacts in the area covered by the action plan: Name of the road noise abatement measures included in the cost calculation
Reportnet 3 type	Link
Format	Multiple values are allowed Value separated list with the separation character “;” (semicolon)
Code list	Code list URL: http://dd.eionet.europa.eu/vocabulary/noise/RoadMeasureValue/ Applicable code list values can be found in Annex 3.
Information	This attribute needs to be coherent with the noiseSource selected. This field is only related to planned measures.
Example	roadSurface; noiseBarrier; newBypassBridgesRoad
Reporting constraints	This attribute is conditional and related to the selected noiseSource. If the field plannedMeasureDetail_allMeasuresInCost is “No”, this field must be provided by selecting all applicable measures included in cost (when “agglomerationRoad” or “agglomerationMajorRoad” are selected as noiseSource). Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.7.17 Field *plannedMeasureDetail_measuresInCostRail*

Requirement	Conditional
Description	Description of the noise abatement measures that will be implemented to reduce noise impacts in the area covered by the action plan: Name of the railway noise abatement measures included in the cost calculation
Reportnet 3 type	Link
Format	Multiple values are allowed Value separated list with the separation character “;” (semicolon)
Code list	Code list URL: http://dd.eionet.europa.eu/vocabulary/noise/RailMeasureValue/ Applicable code list values can be found in Annex 2.
Information	This attribute needs to be coherent with the noiseSource selected. This field is only related to planned measures.
Example	quietEngines; newTunnel; windowInsulation
Reporting constraints	This attribute is conditional and related to the selected noiseSource. If the field plannedMeasureDetail_allMeasuresInCost is “No”, this field must be provided by selecting all applicable measures included in cost (when “agglomerationRailway” or “agglomerationMajorRailway” are selected as noiseSource). Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.7.18 Field *plannedMeasureDetail_measuresInCostAir*

Requirement	Conditional
Description	Description of the noise abatement measures that will be implemented to reduce noise impacts in the area covered by the action plan: Name of the aircraft noise abatement measures included in the cost calculation
Reportnet 3 type	Link
Format	Multiple values are allowed Value separated list with the separation character “;” (semicolon)
Code list	Code list URL: http://dd.eionet.europa.eu/vocabulary/noise/AirportMeasureValue/ Applicable code list values can be found in Annex 1.
Information	This attribute need to be coherent with the noiseSource selected. This field is only related to planned measures.
Example	windowInsulation
Reporting constraints	This attribute is conditional and related to the selected noiseSource. If the field plannedMeasureDetail_allMeasuresInCost is “No”, this field must be provided by selecting all applicable measures included in cost (when “agglomerationAir” or “agglomerationMajorAirport” are selected as noiseSource). Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.7.19 Field *plannedMeasureDetail_measuresInCostIndustry*

Requirement	Conditional
Description	Description of the noise abatement measures that will be implemented to reduce noise impacts in the area covered by the action plan: Name of the industrial noise abatement measures included in the cost calculation
Reportnet 3 type	Link
Format	Multiple values are allowed Value separated list with the separation character “;” (semicolon)
Code list	Code list URL: http://dd.eionet.europa.eu/vocabulary/noise/IndustryMeasureValue/ Applicable code list values can be found in Annex 4.
Information	This attribute needs to be coherent with the noiseSource selected. This field is only related to planned measures.
Example	noMeasure
Reporting constraints	This attribute is conditional and related to the selected noiseSource. If the field plannedMeasureDetail_allMeasuresInCost is “No”, this field must be provided by selecting all applicable measures included in cost (when “agglomerationIndustry” is selected as noiseSource). Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.8 Table *NAP_AggReductionHealthImpact_1*

The information concerning the health impact reduction that will be achieved with the implementation of the noise action plan is divided in the following tables:

- NAP_AggReductionHealthImpact_1: number of people experiencing a noise reduction
- NAP_AggReductionHealthImpact_2: estimates in terms of reduction of people suffering health effects of noise
- NAP_AggReductionHealthImpact_3: estimated cost-benefit of the measures described in the action plan

The table *NAP_AggReductionHealthImpact_1* provides information about the number of people experiencing a reduction in terms noise levels due to the implementation of the noise action plan and the methodology used to estimate the number of people experiencing reduction.

This table is conditional, and if no information is provided in the table NAP_AggReductionHealthImpact_2 in relation to numberHAReduction or numberHSDReduction or numberIHDReduction, then NAP_AggReductionHealthImpact_1 need to be provided.

Table 6.7. NAP_AggReductionHealthImpact_1 table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	actionPlanId_identifier	Link	
O	agglomerationIdIdentifier	Text	

Mandatory /optional/ conditional	Name	Reportnet Type	3 Code list
M	noiseSource	Link	https://dd.eionet.europa.eu/vocabulary/noise/NoiseSourceValue
M	nrOfPeople	Number Integer	-
M	explanationMethod	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.

6.8.1 Field *actionPlanId_identifier*

Requirement	Mandatory
Description	Unique identifier assigned to each noise action plan. This attribute is provided according to the data type ThematicIdentifier.
Reportnet 3 type	Link
Format	Maximum of 10000 characters
Information	<p>It is a foreign key related to the table NoiseActionPlanAgglomeration by re-using the unique identifier assigned to each noise action plan.</p> <p>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”.</p> <p>It belongs to the common END identifier scheme named EUENDCode. The identifier scheme is provided as default value in the table DatasetDefaultProperties.</p>
Example	AP_AG_AT_00_1
Reporting constraints	<p>actionPlanId_identifier will be re-used to link the tables in this dataset schema and it is used in the data schema Coverage area.</p> <p>Limit of 4000 characters due to database export constraints. Please see section 3.3.</p>

6.8.2 Field *agglomerationIdIdentifier*

Requirement	Optional
Description	Unique identifier assigned to each agglomeration. It is expected to be the same as the identifier from the feature type AgglomerationSource (agglomerationId_identifier) from END dataflow DF1_5 for Agglomerations.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	It is expected to be the same as the agglomeration unique identifier provided in END dataflow DF1_5 for Agglomerations (agglomerationId_identifier). 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_AT_00_1
Reporting constraints	<p>Agglomeration identifier will be re-used across the complete END data model to uniquely identify spatial objects and all other objects – entities.</p> <p>Each unique identifier used in this dataflow should be already provided in the Noise Sources (DF1_5) dataflow. The agglomeration identifiers not provided in DF1_5 will be highlighted as error in the quality check (still accepted in the submission).</p> <p>The agglomerationIdIdentifier refers to the list of agglomeration identifiers provided in the table NAP_Agglomeration.</p> <p>For a unique actionPlanId_identifier, the health impact reduction should be provided either considering the whole action plan for the specific noise source inside agglomeration or by individual agglomeration identifier and noise source, but the combination of both types of reporting is not possible.</p> <p>Option 1: agglomerationIdIdentifier is empty but actionPlanId_identifier and noiseSource are provided: this means that the information related to the health impact reduction will refer to the complete action plan and specific noise source.</p> <p>Option 2: actionPlanId_identifier, agglomerationIdIdentifier and noisesource are provided: this means that the information related to the health impact reduction will refer to the agglomeration and specific noise source.</p> <p>The provision of the complete list of agglomeration identifiers will be evaluated during the technical acceptance process.</p> <p>Limit of 4000 characters due to database export constraints. Please see section 3.3.</p>

6.8.3 Field noiseSource

Requirement	Mandatory
Description	Noise source inside agglomeration addressed by the action plan
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: <ul style="list-style-type: none"> - agglomerationAir - agglomerationIndustry - agglomerationRoad - agglomerationRailway - agglomerationMajorAirport - agglomerationMajorRoad - agglomerationMajorRailway
Information	Agglomerations need to provide action plans for all the noise sources from which their inhabitants are exposed to. For instance cities that have roads and railways but no airports are expected to select “agglomerationRoad”, “agglomerationRailway”, “agglomerationMajorRoad”, “agglomerationMajorRailway” and provide the information expected in relation to each noise source inside the agglomeration. If no specific information is available for the major sources inside agglomeration (“agglomerationMajorAir”, “agglomerationMajorRailway” or “agglomerationMajorRoad”), when selecting “agglomerationAir”, “agglomerationRailway” and “agglomerationRoad” respectively, will be assumed that major and non major sources are included. This is because for instance agglomerationRoad should include all roads i.e. major roads and non-major roads.
Example	agglomerationRoad
Reporting constraints	Action plans addressing 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 noise action plan for agglomerations. The provision of the complete list of noise sources inside agglomerations will be evaluated during the technical acceptance process. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.8.4 Field nrOfPeople

Requirement	Mandatory
Description	Estimated number of people experiencing noise reduction in the area covered by the action plan.
Reportnet 3 type	Number - Integer
Format	Maximum of 20 characters
Example	37500
Reporting constraints	This field needs to be provided if no information is provided in table NAP_AggReductionHealthImpact_2.

6.8.5 Field explanationMethod

Requirement	Mandatory
Description	Textual explanation of the methodology used to estimate the number of people experiencing reduction.
Reportnet 3 type	Multiline text
Format	Maximum of 10000 characters
Example	The reduction has been calculated in the following way: 7500 people from more than 75 dB Lden to the band 60-65 dB Lden 10000 people from the band 60-65 dB Lden to the band 55-60 dB 20000 people from the band 55-60 dB Lden to lower bands
Reporting constraints	This field needs to be provided if no information is provided in table NAP_AggReductionHealthImpact_2. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.9 Table NAP_AggReductionHealthImpact_2

The information concerning the health impact reduction that will be achieved with the implementation of the noise action plan is divided in the following tables:

- NAP_AggReductionHealthImpact_1: number of people experiencing a noise reduction
- NAP_AggReductionHealthImpact_2: estimates in terms of reduction of people suffering health effects of noise
- NAP_AggReductionHealthImpact_3: estimated cost-benefit of the measures described in the action plan

The table *NAP_AggReductionHealthImpact_2* provides information about the estimates in terms of reduction of people suffering health effects of noise.

This table is conditional, and if no information is provided in the table NAP_AggReductionHealthImpact_1 in relation to the number of people experiencing reduction, then at least one amongst numberHAReduction, numberHSDReduction or numberIHDReduction, need to be provided in NAP_AggReductionHealthImpact_2.

Table 6.8. NAP_AggReductionHealthImpact_2 table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	actionPlanId_identifier	Link	
O	agglomerationIdIdentifier	Text	
M	noiseSource	Link	https://dd.eionet.europa.eu/vocabulary/noise/NoiseSourceValue
C	numberHAReduction	Number - Integer	
C	numberHSDReduction	Number - Integer	

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
C	numberIHDReduction	Number - Integer	
C	otherHealthEffectReduction	Multiline text	
C	numberExperiencingOtherHealthEffectReduction	Number - Integer	

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.

6.9.1 Field *actionPlanId_identifier*

Requirement	Mandatory
Description	Unique identifier assigned to each noise action plan. This attribute is provided according to the data type ThematicIdentifier.
Reportnet 3 type	Link
Format	Maximum of 10000 characters
Information	<p>It is a foreign key related to the table NoiseActionPlanAgglomeration by re-using the unique identifier assigned to each noise action plan.</p> <p>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”.</p> <p>It belongs to the common END identifier scheme named EUENDCode. The identifier scheme is provided as default value in the table DatasetDefaultProperties.</p>
Example	AP_AG_AT_00_1
Reporting constraints	<p>actionPlanId_identifier will be re-used to link the tables in this dataset schema and it is used in the data schema Coverage area.</p> <p>Limit of 4000 characters due to database export constraints. Please see section 3.3.</p>

6.9.2 Field *agglomerationIdIdentifier*

Requirement	Optional
Description	Unique identifier assigned to each agglomeration. It is expected to be the same as the identifier from the feature type AgglomerationSource (agglomerationId_identifier) from END dataflow DF1_5 for Agglomerations.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	It is expected to be the same as the agglomeration unique identifier provided in END dataflow DF1_5 for Agglomerations (agglomerationId_identifier). 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_AT_00_1
Reporting constraints	<p>Agglomeration identifier will be re-used across the complete END data model to uniquely identify spatial objects and all other objects – entities.</p> <p>Each unique identifier used in this dataflow should be already provided in the Noise Sources (DF1_5) dataflow. The agglomeration identifiers not provided in DF1_5 will be highlighted as error in the quality check (still accepted in the submission).</p> <p>The agglomerationIdIdentifier refers to the list of agglomeration identifiers provided in the table NAP_Agglomeration.</p> <p>For a unique actionPlanId_identifier, the health impact reduction should be provided either considering the whole action plan for the specific noise source inside agglomeration or by individual agglomeration identifier and noise source, but the combination of both types of reporting is not possible.</p> <p>Option 1: agglomerationIdIdentifier is empty but actionPlanId_identifier and noiseSource are provided: this means that the information related to the health impact reduction will refer to the complete action plan and specific noise source.</p> <p>Option 2: actionPlanId_identifier, agglomerationIdIdentifier and noisesource are provided: this means that the information related to the health impact reduction will refer to the agglomeration and specific noise source.</p> <p>The provision of the complete list of agglomeration identifiers will be evaluated during the technical acceptance process.</p> <p>The provision of the complete list of agglomeration identifiers will be evaluated during the technical acceptance process.</p> <p>Limit of 4000 characters due to database export constraints. Please see section 3.3.</p>

6.9.3 Field noiseSource

Requirement	Mandatory
Description	Noise source inside agglomeration addressed by the action plan
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: <ul style="list-style-type: none"> - agglomerationAir - agglomerationIndustry - agglomerationRoad - agglomerationRailway - agglomerationMajorAirport - agglomerationMajorRoad - agglomerationMajorRailway
Information	Agglomerations need to provide action plans for all the noise sources from which their inhabitants are exposed to. For instance cities that have roads and railways but no airports are expected to select “agglomerationRoad”, “agglomerationRailway”, “agglomerationMajorRoad”, “agglomerationMajorRailway” and provide the information expected in relation to each noise source inside the agglomeration. If no specific information is available for the major sources inside agglomeration (“agglomerationMajorAir”, “agglomerationMajorRailway” or “agglomerationMajorRoad”), when selecting “agglomerationAir”, “agglomerationRailway” and “agglomerationRoad” respectively, will be assumed that major and non major sources are included. This is because for instance agglomerationRoad should include all roads i.e. major roads and non-major roads.
Example	agglomerationRoad
Reporting constraints	Action plans addressing 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 noise action plan for agglomerations. The provision of the complete list of noise sources inside agglomerations will be evaluated during the technical acceptance process. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.9.4 Field numberHAReduction

Requirement	Conditional
Description	Estimated number of less people affected by high annoyance in the area covered by the action plan.
Reportnet 3 type	Number - Integer
Format	Maximum of 20 characters
Example	43590
Reporting constraints	At least one amongst numberHAReduction, numberHSDReduction or numberIHDReduction need to be provided, if no information is provided in table NAP_AggReductionHealthImpact_1.

6.9.5 Field numberHSDReduction

Requirement	Conditional
Description	Estimated number of less people affected by high sleep disturbance in the area covered by the action plan.
Reportnet 3 type	Number - Integer
Format	Maximum of 20 characters
Example	6700
Reporting constraints	At least one amongst numberHAReduction, numberHSDReduction or numberIHDReduction need to be provided, if no information is provided in table NAP_AggReductionHealthImpact_1.

6.9.6 Field numberIHDReduction

Requirement	Conditional
Description	For roads, estimated number of less cases of ischaemic heart disease in the area covered by the action plan. For railways and aircraft, estimated number of less people affected by an increased risk of ischaemic heart disease in the area covered by the action plan.
Reportnet 3 type	Number - Integer
Format	Maximum of 20 characters
Example	320
Reporting constraints	At least one amongst numberHAReduction, numberHSDReduction or numberIHDReduction need to be provided, if no information is provided in table NAP_AggReductionHealthImpact_1.

6.9.7 Field otherHealthEffectReduction

Requirement	Conditional
Description	Name of any other relevant health effect of noise that has been estimated in the action plan
Reportnet 3 type	Multiline text
Format	Maximum of 10000 characters
Example	Premature mortality due to ischaemic heart disease
Reporting constraints	If any information is provided in numberHAReduction, numberHSDReduction or numberIHDReduction, then the attributes otherHealthEffectReduction and numberExperiencingOtherHealthEffectReduction need to be provided if no information is provided in table NAP_AggReductionHealthImpact_1. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.9.8 Field numberExperiencingOtherHealthEffectReduction

Requirement	Conditional
Description	Estimated number of people experiencing a reduction in terms other relevant health effects in the area covered by the action plan
Reportnet 3 type	Number - Integer
Format	Maximum of 20 characters
Example	200
Reporting constraints	If any information is provided in numberHAReduction, numberHSDReduction or numberIHDReduction, then the attributes otherHealthEffectReduction and numberExperiencingOtherHealthEffectReduction need to be provided if no information is provided in table NAP_AggReductionHealthImpact_1.

6.10 Table NAP_AggReductionHealthImpact_3

The information concerning the health impact reduction that will be achieved with the implementation of the noise action plan is divided in the following tables:

- NAP_AggReductionHealthImpact_1: number of people experiencing a noise reduction
- NAP_AggReductionHealthImpact_2: estimates in terms of reduction of people suffering health effects of noise
- NAP_AggReductionHealthImpact_3: estimated cost-benefit of the measures described in the action plan

The table *NAP_AggReductionHealthImpact_3* provides information about the estimated cost-benefit of the measures described in the action plan and additional information on the measures that are included in the calculation of the health impacts or other relevant information about this calculation.

This table is optional. However, data can be provided in two ways :

- Option 1 : the data must match the data in table NAP_AggReductionHealthImpact_1 and/or data in table NAP_AggReductionHealthImpact_2. This means the same combination of actionPlanIdIdentifier, agglomerationIdIdentifier and noiseSource that are provided in the table NAP_AggReductionHealthImpact_1 and/or in the table NAP_AggReductionHealthImpact_2 must be used in the table NAP_AggReductionHealthImpact_3. An illustration is provided in Figure 6.1.
- Option 2 : data can be provided per noise action plan (actionPlanId_identifier).

Figure 6.1. Illustration of the alignment between tables NAP_AggReductionHealthImpact_1 and NAP_AggReductionHealthImpact_2 to provide data in NAP_AggReductionHealthImpact_3

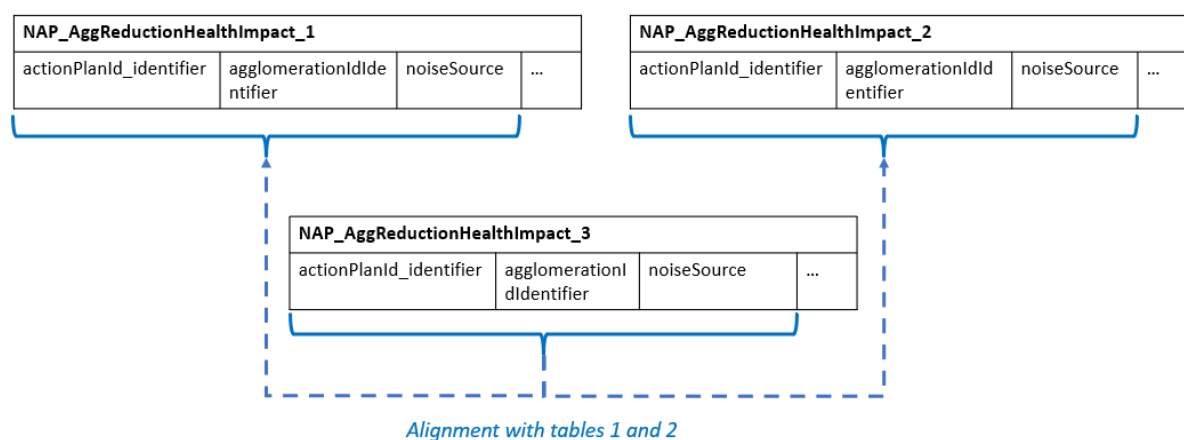


Table 6.9. NAP_AggReductionHealthImpact_3 table overview

Mandatory /optional/ conditional	Name	Reportnet 3 Type	Code list
M	actionPlanId_identifier	Link	
O	agglomerationIdIdentifier	Text	
M	noiseSource	Link	https://dd.eionet.europa.eu/vocabulary/noise/NoiseSourceValue
O	estimatedCostBenefit	Multiline text	
O	explanationHealthImpact	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.

6.10.1 Field *actionPlanId_identifier*

Requirement	Mandatory
Description	Unique identifier assigned to each noise action plan. This attribute is provided according to the data type ThematicIdentifier.
Reportnet 3 type	Link
Format	Maximum of 10000 characters
Information	<p>It is a foreign key related to the table NoiseActionPlanAgglomeration by re-using the unique identifier assigned to each noise action plan.</p> <p>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”.</p> <p>It belongs to the common END identifier scheme named EUENDCode. The identifier scheme is provided as default value in the table DatasetDefaultProperties.</p>
Example	AP_AG_AT_00_1
Reporting constraints	<p>actionPlanId_identifier will be re-used to link the tables in this dataset schema and it is used in the data schema Coverage area.</p> <p>Limit of 4000 characters due to database export constraints. Please see section 3.3.</p>

6.10.2 Field *agglomerationIdIdentifier*

Requirement	Optional
Description	Unique identifier assigned to each agglomeration. It is expected to be the same as the identifier from the feature type AgglomerationSource (agglomerationId_identifier) from END dataflow DF1_5 for Agglomerations.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Information	It is expected to be the same as the agglomeration unique identifier provided in END dataflow DF1_5 for Agglomerations (agglomerationId_identifier). 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_AT_00_1
Reporting constraints	<p>Agglomeration identifier will be re-used across the complete END data model to uniquely identify spatial objects and all other objects – entities.</p> <p>Each unique identifier used in this dataflow should be already provided in the Noise Sources (DF1_5) dataflow. The agglomeration identifiers not provided in DF1_5 will be highlighted as error in the quality check (still accepted in the submission).</p> <p>The agglomerationIdIdentifier refers to the list of agglomeration identifiers provided in the table NAP_Agglomeration.</p> <p>For a unique actionPlanId_identifier, the health impact reduction should be provided either considering the whole action plan for the specific noise source inside agglomeration or by individual agglomeration identifier and noise source, but the combination of both types of reporting is not possible.</p> <p>Option 1: agglomerationIdIdentifier is empty but actionPlanId_identifier and noiseSource are provided: this means that the information related to the health impact reduction will refer to the complete action plan and specific noise source.</p> <p>Option 2: actionPlanId_identifier, agglomerationIdIdentifier and noisesource are provided: this means that the information related to the health impact reduction will refer to the agglomeration and specific noise source.</p> <p>The provision of the complete list of agglomeration identifiers will be evaluated during the technical acceptance process.</p> <p>The provision of the complete list of agglomeration identifiers will be evaluated during the technical acceptance process.</p> <p>Limit of 4000 characters due to database export constraints. Please see section 3.3.</p>

6.10.3 Field noiseSource

Requirement	Mandatory
Description	Noise source inside agglomeration addressed by the action plan
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: <ul style="list-style-type: none"> - agglomerationAir - agglomerationIndustry - agglomerationRoad - agglomerationRailway - agglomerationMajorAirport - agglomerationMajorRoad - agglomerationMajorRailway
Information	Agglomerations need to provide action plans for all the noise sources from which their inhabitants are exposed to. For instance cities that have roads and railways but no airports are expected to select “agglomerationRoad”, “agglomerationRailway”, “agglomerationMajorRoad”, “agglomerationMajorRailway” and provide the information expected in relation to each noise source inside the agglomeration. If no specific information is available for the major sources inside agglomeration (“agglomerationMajorAir”, “agglomerationMajorRailway” or “agglomerationMajorRoad”), when selecting “agglomerationAir”, “agglomerationRailway” and “agglomerationRoad” respectively, will be assumed that major and non major sources are included. This is because for instance agglomerationRoad should include all roads i.e. major roads and non-major roads.
Example	agglomerationRoad
Reporting constraints	Action plans addressing 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 noise action plan for agglomerations. The provision of the complete list of noise sources inside agglomerations will be evaluated during the technical acceptance process. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.10.4 Field estimatedCostBenefit

Requirement	Optional
Description	Estimated cost-benefit of the measures described in the action plan
Reportnet 3 type	Multiline text
Format	Maximum of 10000 characters
Information	It refers to the measures applied to achieve the health reduction benefits.
Example	The benefits of reducing the noise levels for 37500 people are estimated to have an economic net benefit of 20000 Euro. This is calculated using 60,000 Euro per DALY and considering the total cost of the measures applied. Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.10.5 Field explanationHealthImpact

Requirement	Optional
Description	Additional information on the measures that are included in the calculation of the health reduction or other relevant information about the calculation methods for harmful effects.
Reportnet 3 type	Multiline text
Format	Maximum of 10000 characters
Information	It refers to the measures applied to achieve the health reduction estimates described in all three tables corresponding to health impacts.
Example	The health reduction estimations have been calculated applying the measures: noise barriers, quiet noise asphalt and reduction of traffic speed to 30 km in 400km of roads inside agglomerations.
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

6.11 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 6.10. DatasetDefaultProperties table overview

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

Table 6.11. Applicable values for the DatasetDefaultProperties

tableName	propertyName	attribute	defaultValue
NoiseActionPlanAgglomeration	actionPlanId_identifier Scheme	href	http://dd.eionet.europa.eu/vocabulary/inspire/IdentifierScheme/EUENDCode

6.12 Table CodelistProperties

This table includes a list of the code lists that have to be used for reporting data on the DF7_10 noise action plans for agglomerations 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 6.12. CodelistProperties table overview

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

Table 6.13. Applicable values for the CodelistProperties

tableName	propertyName	codelist
NoiseActionPlanAgglomeration	legalContext_actionPlanDocument_citationLevel	http://inspire.ec.europa.eu/codelist/LegislationLevelValue
NoiseActionPlanAgglomeration	legalContext_actionPlanDocument_citationType	https://dd.eionet.europa.eu/vocabulary/inspire/CitationTypeValue
NoiseActionPlanAgglomeration	publicConsultation_consultationMeans	https://dd.eionet.europa.eu/vocabulary/noise/ConsultationMeansValue
NoiseActionPlanAgglomeration	publicConsultation_stakeholdersType	https://dd.eionet.europa.eu/vocabulary/noise/StakeholdersTypeValue
NoiseActionPlanAgglomeration	resultsEvaluationMechanismDescription	https://dd.eionet.europa.eu/vocabulary/noise/EvaluationMechanismValue
NAP_AggMappingResultDetail	noiseSource	https://dd.eionet.europa.eu/vocabulary/noise/NoiseSourceValue
NAP_AggMappingResultDetail	situationForImprovementPrioritisationCriteria	https://dd.eionet.europa.eu/vocabulary/noise/PrioritisationCriteriaValue
NAP_AggReductionMeasure	noiseSource	https://dd.eionet.europa.eu/vocabulary/noise/NoiseSourceValue
NAP_AggReductionMeasure	existingMeasureAir	http://dd.eionet.europa.eu/vocabulary/noise/AirportMeasureValue/
NAP_AggReductionMeasure	existingMeasureRailway	http://dd.eionet.europa.eu/vocabulary/noise/RailMeasureValue/
NAP_AggReductionMeasure	existingMeasureRoad	http://dd.eionet.europa.eu/vocabulary/noise/RoadMeasureValue/
NAP_AggReductionMeasure	existingMeasureIndustry	https://dd.eionet.europa.eu/vocabulary/noise/IndustryMeasureValue

tableName	propertyName	odelist
NAP_AggReductionMeasure	plannedMeasureDetail_plannedMeasureAir	http://dd.eionet.europa.eu/vocabulary/noise/AirportMeasureValue/
NAP_AggReductionMeasure	plannedMeasureDetail_plannedMeasureRailway	http://dd.eionet.europa.eu/vocabulary/noise/RailMeasureValue/
NAP_AggReductionMeasure	plannedMeasureDetail_plannedMeasureRoad	http://dd.eionet.europa.eu/vocabulary/noise/RoadMeasureValue/
NAP_AggReductionMeasure	plannedMeasureDetail_plannedMeasureIndustry	https://dd.eionet.europa.eu/vocabulary/noise/IndustryMeasureValue
NAP_AggReductionMeasure	plannedMeasureDetail_measuresInCostRoad	http://dd.eionet.europa.eu/vocabulary/noise/RoadMeasureValue/
NAP_AggReductionMeasure	plannedMeasureDetail_measuresInCostRail	http://dd.eionet.europa.eu/vocabulary/noise/RailMeasureValue/
NAP_AggReductionMeasure	plannedMeasureDetail_measuresInCostAir	http://dd.eionet.europa.eu/vocabulary/noise/AirportMeasureValue/
NAP_AggReductionMeasure	plannedMeasureDetail_measuresInCostIndustry	https://dd.eionet.europa.eu/vocabulary/noise/IndustryMeasureValue
NAP_AggReductionHealthImpact_1	noiseSource	https://dd.eionet.europa.eu/vocabulary/noise/NoiseSourceValue
NAP_AggReductionHealthImpact_2	noiseSource	https://dd.eionet.europa.eu/vocabulary/noise/NoiseSourceValue
NAP_AggReductionHealthImpact_3	noiseSource	https://dd.eionet.europa.eu/vocabulary/noise/NoiseSourceValue

7 Data schema: Submission Declaration

7.1 Description

Information on noise action plans submitted before the deadline or information on the changes from previous submissions and the reasons for submitting updated data after the deadline.

According to Article 10, if the country wishes to modify the submission after the deadline, the country needs to explain the changes from the previous submission and the reasons for the update. The information of this schema is also used to understand completeness of the data provided.

The SubmissionDeclaration dataset schema only includes one table:

- SubmissionDeclaration

7.2 Table SubmissionDeclaration

The table *SubmissionDeclaration* includes a list of fields that describe the submission and resubmission status in relation to the noise action plans for agglomerations, and changes from previous submissions and the reasons for re-submitting data.

Table 7.1. 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.

7.2.1 Field processStatus

Requirement	Mandatory
Description	Type of submission
Reportnet 3 type	Single select
Format	Applicable values: <ul style="list-style-type: none"> - submissionBeforeDeadline - resubmission
Information	Value “submissionBeforeDeadline” needs to be selected if the reporting is done before the legal deadline of the dataflow. The value “resubmission” needs to be selected in the following cases: <ul style="list-style-type: none"> - The first submission is done after the deadline of the dataflow. - A resubmission of the data is done after the deadline, replacing the previous submission
Example	submissionBeforeDeadline

7.2.2 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 action plan identifier and to describe the changes made. Any first submissions after the legal deadline need to be indicated here. Please include the identifier of the noise action plan that is included or changed in the resubmission.
Example	A new action plan AP_AG_AT_00_13 has been added, covering several districts of Vienna. Modification in AP_AG_AT_00_7 on the number of people that would experience reduction, due to an update of the calculation.
Reporting constraints	It is mandatory when “resubmission” is selected in processStatus. Limit of 4000 characters due to database export constraints. Please see section 3.3.

7.2.3 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	Action plan with identifier AP_AG_AT_00_13 was not reported in time by the competent authority Recalculation on the number of people that would experience reduction of AP_AG_AT_00_7, which implies an update of the information previously submitted.
Reporting constraints	It is mandatory when “resubmission” is selected in processStatus. Limit of 4000 characters due to database export constraints. Please see section 3.3.

7.2.4 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

7.2.5 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	2025-10-20

8 Reporting process

8.1 Reporting data in Reportnet 3: overall workflow

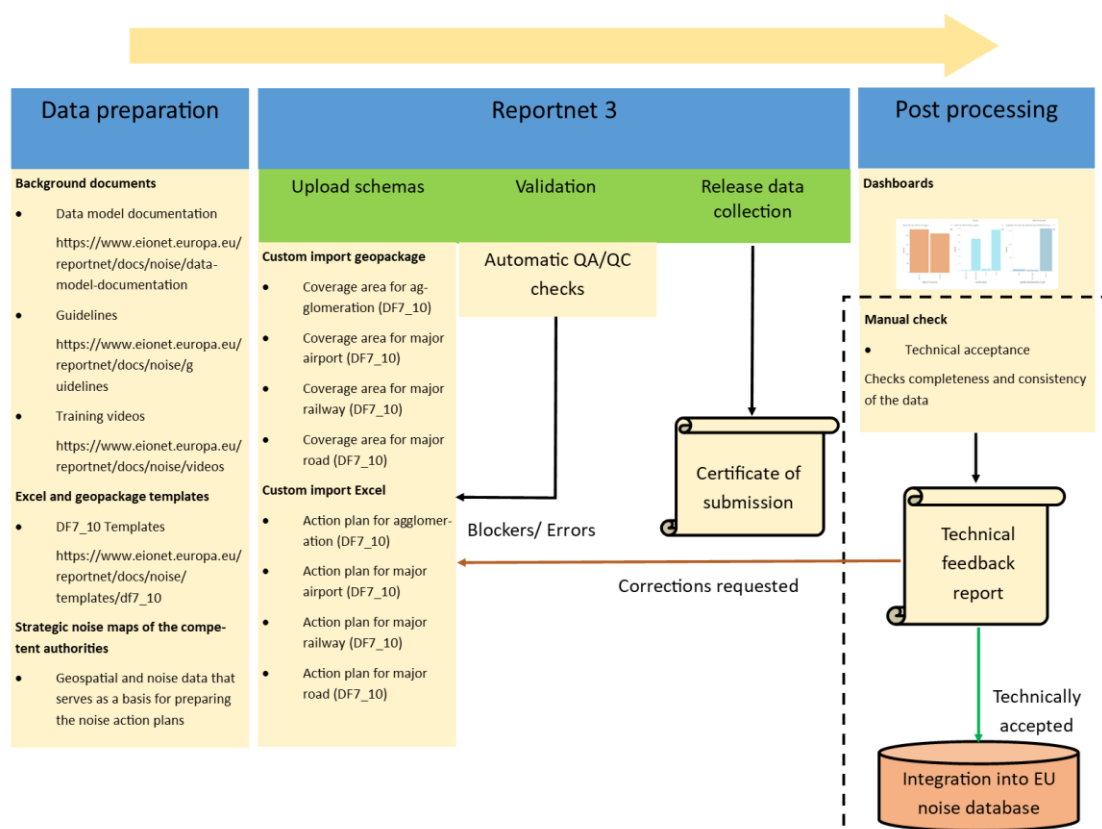
Figure 8.1 illustrates the different processes involved in the reporting of Noise action plans (DF7_10): Agglomeration. The direct link to access to all the available supporting material can be found here: <https://www.eionet.europa.eu/reportnet/docs/noise>.

The preparation of the data involves using predefined templates in GeoPackage with the spatial information of the area covered by the noise action plan but also, predefined templates in MS Excel to provide the information on the noise action plan developed to manage, prevent and reduce environmental noise in agglomerations, in particular in areas where exposure levels and induce harmful effects on human health.

The dataflow is organised with several data schemas, and a GeoPackage template and an MS Excel template are available per each noise source. Data sets for each data schema will need to be uploaded in the corresponding schema. In addition, to comply with Article 10, if the country wishes to modify a submission after the deadline, an explanation stating the changes from the previous submission and the reasons for the update needs to be provided. This information needs to be provided in "Submission declaration". 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 technically accepted submissions will be integrated in the EU noise database.

Figure 8.1. Reporting workflow



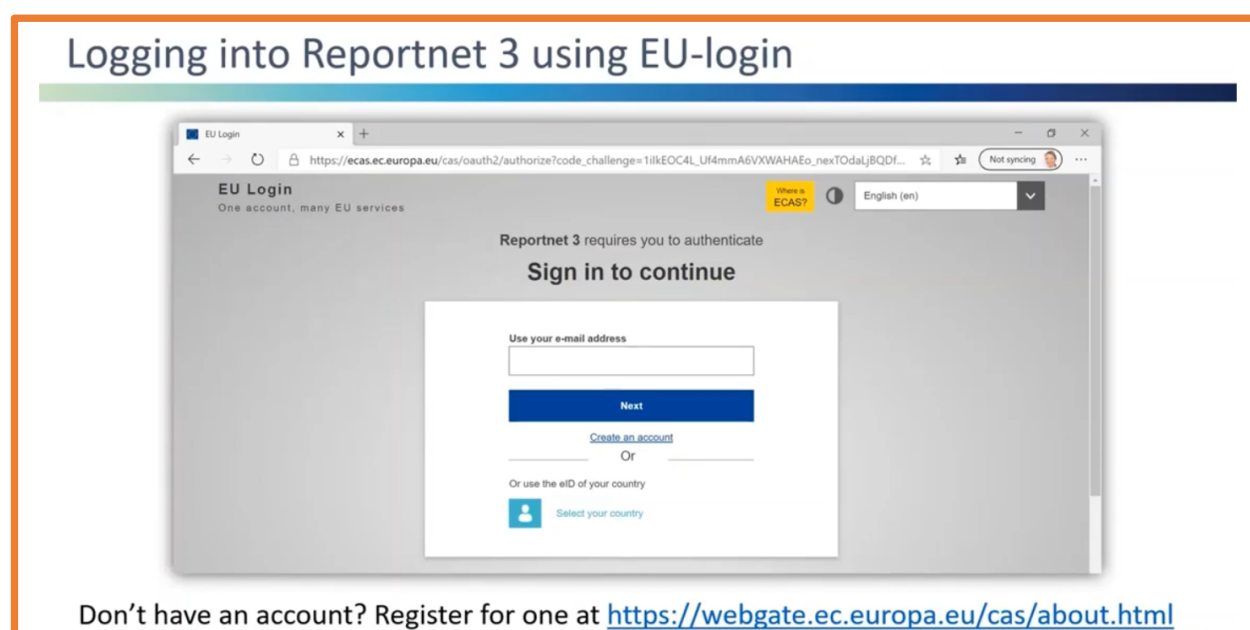
Further information on the reporting process of DF7_10

- 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>

8.2 User accounts and permissions

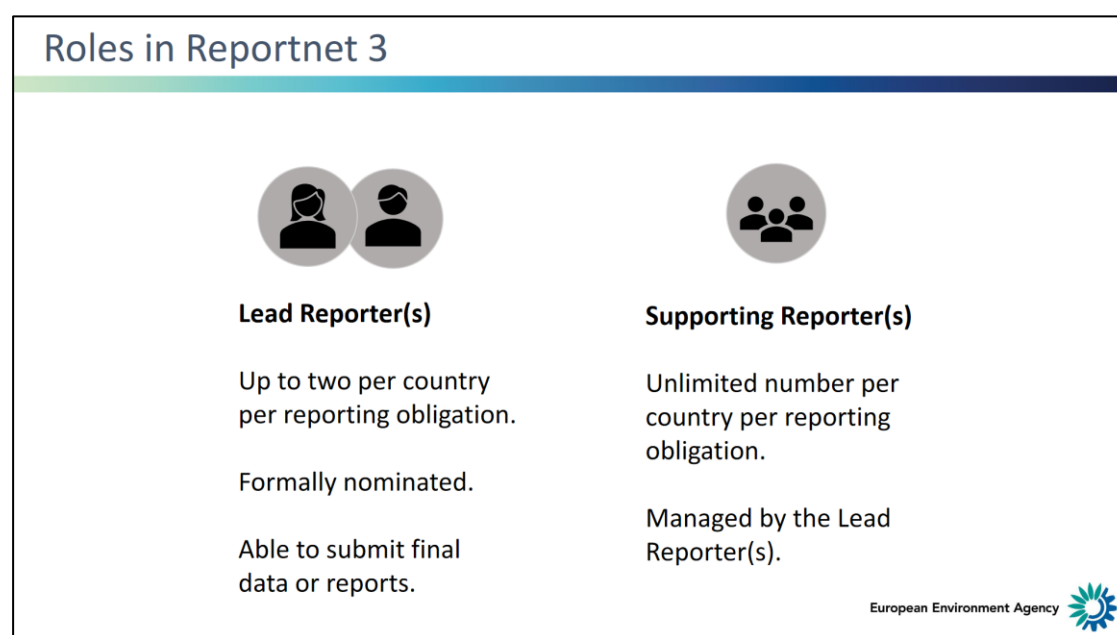
The official reporting will be done through the following URL: <https://reportnet.europa.eu/> . The log in will be done through the EU login portal and the reporter will have to use the EU login details. Therefore, reporters will not be managing an Eionet login account but they will use an EU login account 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 8.2. 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 8.3. Roles in Reportnet 3



8.3 Importing data from a file

To import the GeoPackage file or the MS Excel file, the custom imports (.gpkg, .xlsm, .xlsx) need to be selected as indicated in Figure 8.4 and in Figure 8.5, in the corresponding data schema. 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 8.6). 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 8.4. Import dataset data: Geopackage file

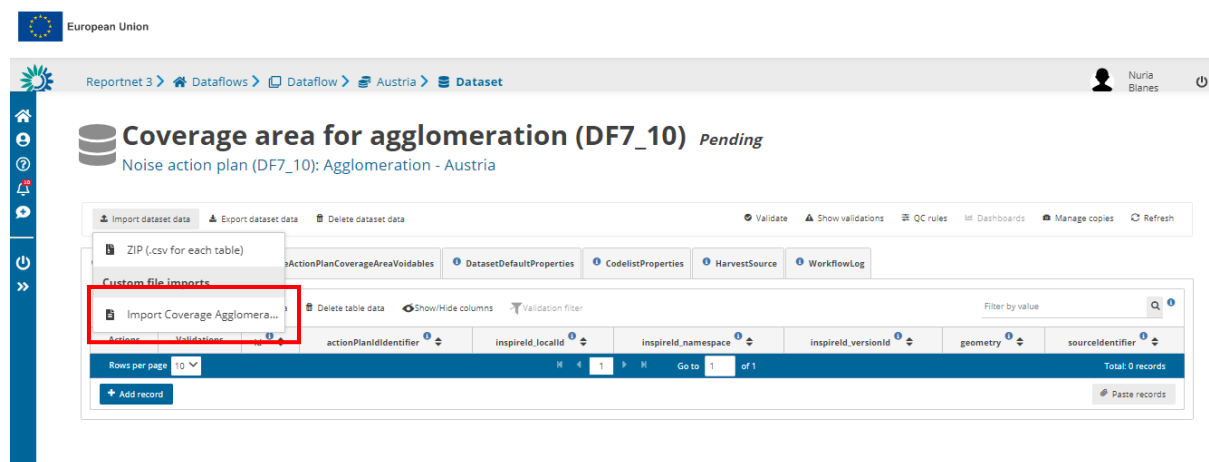


Figure 8.5. Import dataset data: MS Excel file

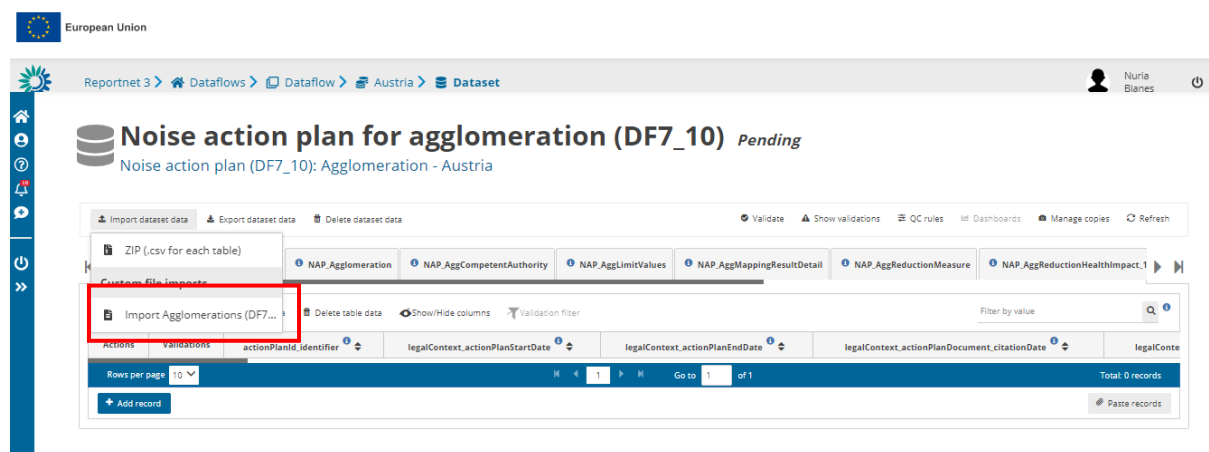
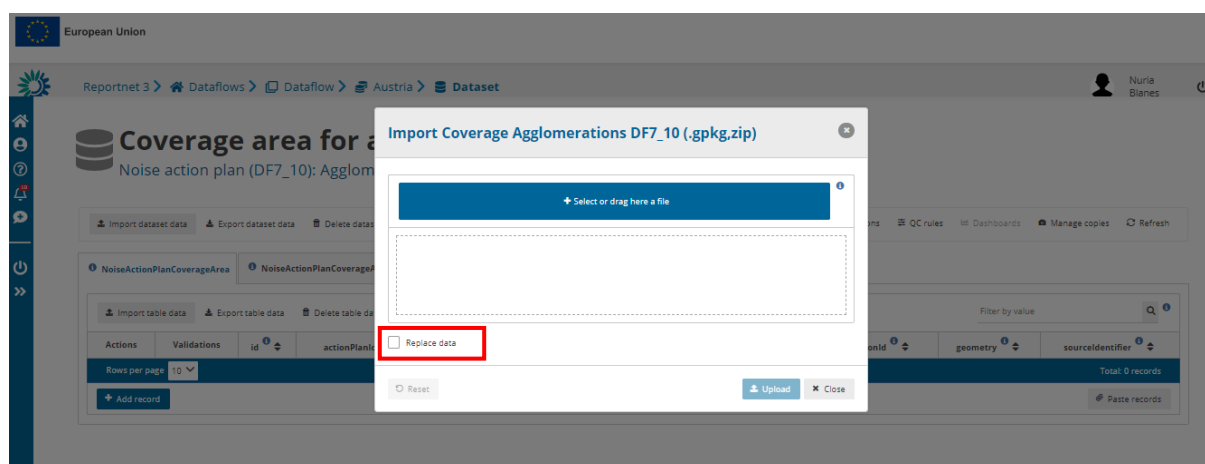


Figure 8.6. Replace data



8.4 Importing data from a service

Importing data from a service is currently under development. The following information will be applicable when this functionality will be implemented in Reportnet 3.

This functionality is applicable only in the dataset schema Coverage area for agglomeration, and provides import from a service for spatial data of coverage areas.

For importing data from a service, the dataset schema in the Reportnet 3 includes two tables: HarvestSource and WorkflowLog which are described in details in Annex 5.

A typical import from a service workflow will look as the following:

1. Manually enter the information about the download services to use in the HarvestSource table.

Figure 8.7. Example of the manual entry of the information in the HarvestSource table

Actions	Validations	serviceType ⓘ	serviceUri ⓘ	operation ⓘ
 		Direct file	https://projects.sadl.kuleuven.be/downloadfolder/eea_testdata/df1_5-1/Agglomeration_IR3_MT.gpkg	Append to table data
 		Direct file	https://projects.sadl.kuleuven.be/downloadfolder/eea_testdata/df1_5-1/AgglomerationSource_samples.gpkg	Do not import

Another option is to upload a pre-defined file with service information in csv format using function Import table data.

All three fields in the table HarvestSource must be provided as following:

- **serviceType:** can be Direct file only.
- **serviceUri:** contains the link to the service. If Direct file is selected, serviceUri must point to a downloadable GeoPackage file (zipped or unzipped). It is not allowed to point to an atom feed containing the information of a downloadable file.
- **operation:** tells Reportnet what to do with this service. The following options need to be selected:
 - **Append to table data:** This will add the downloaded data to the data already in the thematic tables in the noise source dataset schema, as following:
 - In the dataset schema Coverage area for agglomeration (DF7_10), the tables are: NoiseActionPlanCoverageArea and NoiseActionPlanCoverageAreaVoidables.

- **Delete all data before import:** This will delete the data in the tables in the schema before starting import. You cannot delete data from one service source only. If “Delete all data before import” is selected for one of the services, ALL data in all thematic tables in the corresponding dataset schema will be deleted before the process starts.
 - For example: in the dataset schema Coverage area for agglomeration (DF7_10), if “Delete all data before import” is selected for one of the services, ALL data in the tables NoiseActionPlanCoverageArea and NoiseActionPlanCoverageAreaVoidables will be deleted.
- **Do not import:** This will ignore this record when import is started. For example: if you have three services in the HarvestSource table, and you want to test one of them, you can set operation “Do not import” for the other two services.

Remark: Import from a file can only process one file for each import. Import from a service will import in one step ALL services in HarvestSource table that do not have operation set to “Do not import”.

2. If you want to start from empty tables and import all data again, there are several ways to do this. The first option could be to delete data in one table manually by using “Delete table data” (except in HarvestSource table). The second option could be “Delete dataset data” which will delete data from all tables in the dataset schema (except read-only tables). The third option is to ‘Delete all data before import’ as explained in step 1 from the harvesting operation. Please be aware that if you use option 2 and 3, HarvestSource data will also be deleted and you will need to include service information again.

If you use option 1, you should manually delete data in the following tables:

- In the dataset schema Coverage area for agglomeration (DF7_10), delete the tables NoiseActionPlanCoverageArea and NoiseActionPlanCoverageAreaVoidables

Be aware that this deletes all data in the table, also those previously imported from a file or from a service. It is not possible to delete records from one import only.

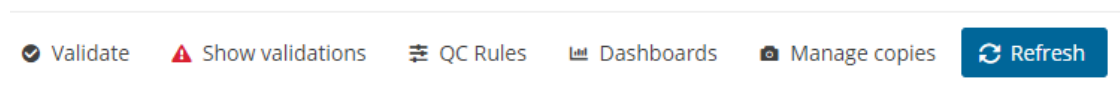
If you don’t need the logged feedback from previous service imports, you can also delete table data for WorkflowLog.

3. Click on the **Import dataset data** button on the top left of the menu, choose “Import from a service”.
4. **Do not check Replace data.** See step 2 if you want to start from empty tables and import all data again. “Replace data” will delete all data in all non-predefined tables, including the tables HarvestSource and WorkflowLog, therefore information about services will be deleted.
5. If the operation field of one of the services in the HarvestSource table is set to “Delete all data before import”, Reportnet 3 will first empty the thematic tables in the dataset schema (e.g. in the dataset schema Coverage area for agglomeration (DF7_10), the tables NoiseActionPlanCoverageArea and NoiseActionPlanCoverageAreaVoidables). After that it will connect to each service in HarvestSource and download the data provided by the service. Services with operation set to “Do not import” are not processed.
6. During the process, Reportnet 3 will enter feedback on the process in the WorkflowLog table. This can be information (logType=info, e.g. number of records downloaded from a service), warnings (logType=warning, e.g. if HarvestSource doesn’t contain any services to harvest) or errors

(logType=error, e.g. there is something wrong with a service or with the data provided by a service. The logMessage will contain the error received.

7. Notifications in the top right will inform you the import / load has started and when it has finished. Remember to press the “Refresh” button to properly display the data uploaded.

Figure 8.8. Refresh button to see the results of data load or validation



8. After import from a service, the validation must be activated by triggering the Validate button.
9. Once the validation is finished the “Refresh” button will be highlighted and after clicking it you will see the results of the validation. The validation can be run manually many times and it is triggered automatically when data flow is released to data collection.

A reporter can consult the WorkflowLog table for feedback information from processing the services, see step 6 in the workflow above. The WorkflowLog information should help a reporter to adjust service information and parameters.

8.5 Feedback from importing a geospatial file

The feedback from the process of importing a geospatial file is also provided in the table WorkflowLog. It includes the first information about the import process, compliance with the pre-defined GeoPackage template and a few compliance checks of spatial data with the requirements set in the Reportnet 3 dataset schema. More details on using the WorkflowLog table are described in Annex 3.

8.6 Validations

The data to be submitted can be assessed with the validation tools provided in Reportnet 3.0 as shown in Figure 8.9.

Figure 8.9. Show validations

The validations are run automatically when the data is uploaded and the reports can be consulted as shown in Figure 8.10.

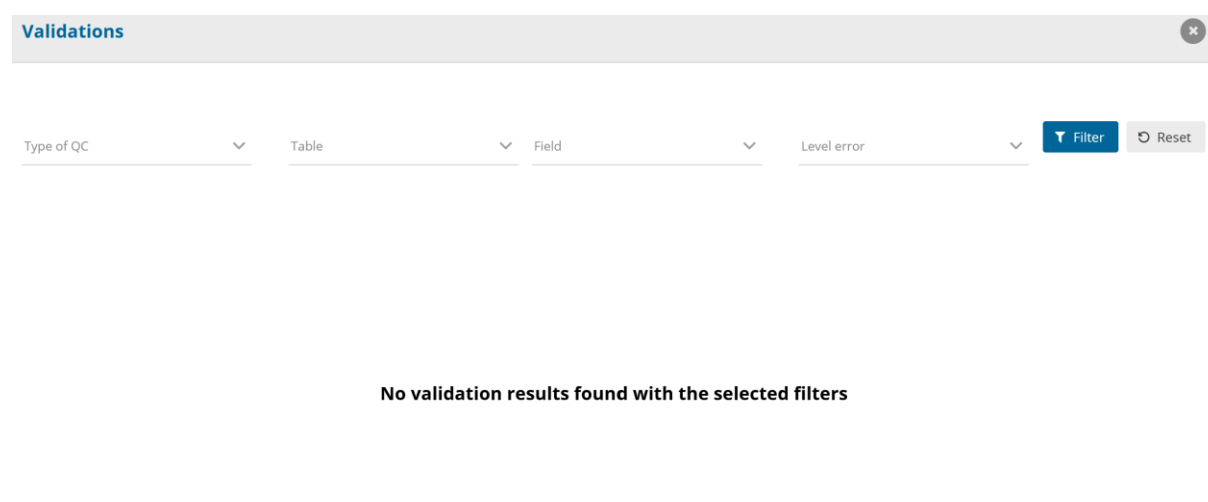
Figure 8.10. QC rules applied for validation

Table	Field	Code	Name	Description	Message	Expression	Type of QC	Level error
NoiseActionPlanCoverageArea	id	FC2	Field cardinality	Checks if the field is missing or empty	The value must not be missing or empty		FIELD	BLOCKER
NoiseActionPlanCoverageArea	id	FT3	Field type NUMBER - INTEGER	Checks if the field is a valid NUMBER - INTEGER	The value is not a valid whole number		FIELD	BLOCKER
NoiseActionPlanCoverageArea	inspireId_localId	FC8	Field cardinality	Checks if the field is missing or empty	The value must not be missing or empty		FIELD	BLOCKER
NoiseActionPlanCoverageArea	inspireId_namespace	FC9	Field cardinality	Checks if the field is missing or empty	The value must not be missing or empty		FIELD	BLOCKER
NoiseActionPlanCoverageAreaVoIdables	id	FC15	Field cardinality	Checks if the field is missing or empty	The value must not be missing or empty		FIELD	ERROR
NoiseActionPlanCoverageAreaVoIdables	id	FT16	Field type NUMBER - INTEGER	Checks if the field is a valid NUMBER - INTEGER	The value is not a valid whole number		FIELD	ERROR
NoiseActionPlanCoverageAreaVoIdables	competentAuthority_role	TC23	Field type LINK	Checks if the record based on criteria is valid LINK	The value is not a valid member of the referenced list.		FIELD	WARNING
NoiseActionPlanCoverageAreaVoIdables	legalBasis_level	TC25	Field type LINK	Checks if the record based on criteria is valid LINK	The value is not a valid member of the referenced list.		FIELD	WARNING

If there are no blockers, errors, warnings, or information messages in the data uploaded, the message shown in Figure 8.11 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 8.11. Successful validation message



The screenshot shows a web interface titled "Validations" with a close button (X) in the top right corner. Below the title bar, there are four filter dropdown menus: "Type of QC", "Table", "Field", and "Level error", each with a downward arrow icon. To the right of these filters are two buttons: a blue "Filter" button with a downward arrow icon and a grey "Reset" button with a circular arrow icon. The main content area of the interface displays the message "No validation results found with the selected filters" in a bold, black font.

To ensure high quality of the noise data submitted under the END, specific manual quality checks will be performed after the countries submit the data in Reportnet 3. The countries will receive feedback document stating if the delivery is technically accepted or if a correction is requested.

8.7 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 8.12. 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 8.13. 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. After the submission, the reporter will receive a technical feedback report prepared by EEA and ETC/HE as shown in Figure 8.14.

Figure 8.12. Release data collection

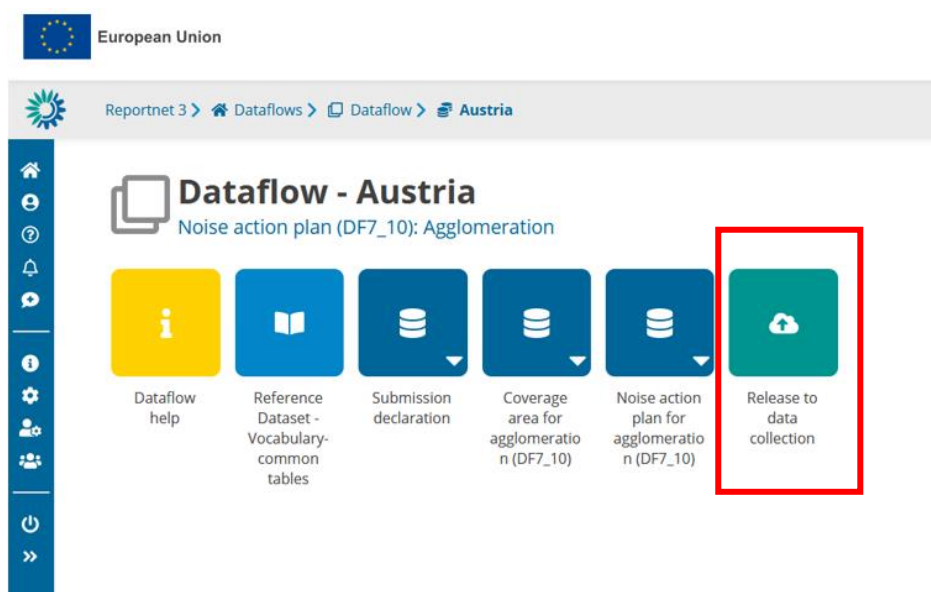


Figure 8.13. Confirmation receipt

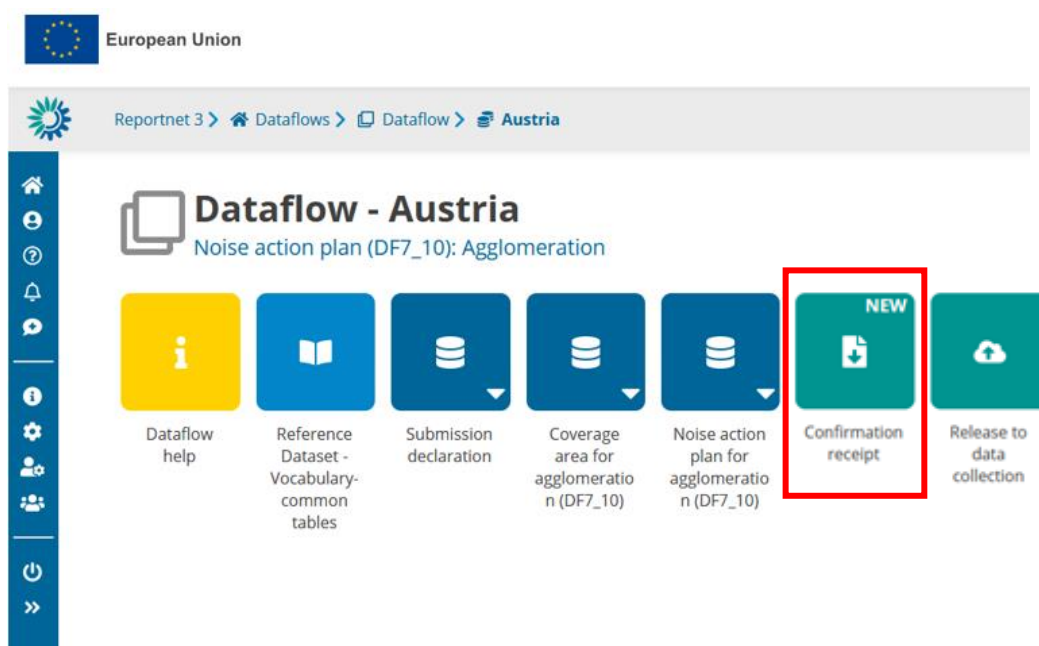


Figure 8.14. Technical acceptance



8.8 Resubmission

The reporter will be able to replace/update the submission until the deadline. According to Article 10 (see below), if the reporter wishes to modify the submission after the deadline, an official communication to the EEA and the EC will have to be provided stating the changes from the previous submission and the reasons for the update.

Article 10 – paragraph 2: ‘Member States shall ensure that the information from strategic noise maps and summaries of the action plans as referred to in Annex VI are sent to the Commission within six months of the dates laid down in Articles 7 and 8 respectively. For that purpose, Member States shall only report the information by electronic means to a mandatory data repository to be established by the Commission by means of implementing acts. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 13(2). **In the event that a Member State wants to update information, it shall describe the differences between the updated and original information and the reasons for the update when making the updated information available to the data repository.**’

Annex 1. Codelist AirportMeasureValue

- measureAtSource
 - changeInEmissionLevels
 - quietAirplanes
 - timeRestriction
 - curfewHours
 - respiteAndNoiseSharing
- managementOfAirTrafficOperations
 - managementAirTrafficRoutes
 - managementTakeoffLanding
 - managementRunwayGroundOperations
- measureAtPath
 - noiseBarrierMeasure
 - noiseBarrier
 - greenNoiseBarrier
 - buildingInsulationMeasure
 - windowInsulation
 - otherInsulation
- urbanPlanning
 - landUsePlanning
 - planningAndOrdinance
 - sensitiveAreaPlanning
 - bufferZones
- noiseQualityAreas
 - quietArea
 - greenArea
 - soundscape
- infrastructureChange
 - newInfrastructure
 - newRoute
 - newRunway
 - closedInfrastructure
 - closureRoute
 - closureRunway
 - closureAirport
- communityEngagement
 - communication
 - informationDissemination
 - complaintManagement
 - measuresForBehaviouralChange
 - educationAwarenessActivities
 - promotingOtherModes
- noMeasure

Annex 2. Codelist RailMeasureValue

measureAtSource
changeInEmissionLevels
railTrack
retrofittingWheels
lowNoiseBrakes
quietEngines
renewalFleet
timeRestriction
timeRestrictionFreight
timeRestrictionPassenger
speedReductionMeasure
speedReduction
trafficCalmedZones
otherTrafficManagementMeasure
reductionRailTracks
trackAccessCharges
bansReroutingFreight
bansReroutingPassengers
measureAtPath
noiseBarrierMeasure
noiseBarrier
greenNoiseBarrier
buildingInsulationMeasure
windowInsulation
otherInsulation
urbanPlanning
landUsePlanning
planningAndOrdinance
sensitiveAreasPlanning
bufferZones
noiseQualityArea
quietArea
greenArea
soundscape
infrastructureChange
newInfrastructure
newRoute
newBypassViaduct
newTunnel
closedInfrastructure
closureRailwayRoute
closureStation
communityEngagement
communication
informationDissemination
complaintManagement
measuresForBehaviouralChange
educationAwarenessActivities
promotingOtherModes
noMeasure

Annex 3. Codelist RoadMeasureValue

- measureAtSource
 - changeInEmissionLevels
 - roadSurface
 - lowNoiseTyres
 - quietEngines
 - exhaust
 - quietPublicTransport
 - timeRestriction
 - timeRestrictionHGV
 - timeRestrictionPassenger
 - speedReductionMeasure
 - speedReduction
 - roundaboutJunctions
 - physicalTrafficCalming
 - trafficCalmedZones
 - otherTrafficManagementMeasure
 - publicTransportIncrease
 - cyclingWalkingIncrease
 - smartMobility
 - reductionTrafficFlows
 - bansReroutingHGV
 - bansReroutingPassenger
 - parkingManagement
 - congestionCharges
- measureAtPath
 - noiseBarrierMeasure
 - noiseBarrier
 - greenNoiseBarrier
 - buildingInsulationMeasure
 - windowInsulation
 - otherInsulation
- urbanPlanning
 - landUsePlanning
 - planningAndOrdinance
 - sensitiveAreaPlanning
 - bufferZones
- noiseQualityArea
 - quietArea
 - greenArea
 - soundscape
- infrastructureChange
 - newInfrastructure
 - newBypassBridgeRoad
 - newTunnel
 - closedInfrastructure
 - closureRoads
- communityEngagement
 - communication
 - informationDissemination
 - complaintManagement
 - measuresForBehaviouralChange
 - promotingQuietMobility
 - promotingPublicTransport
 - promotingCarSharing
 - educationAwarenessActivities
- noMeasure

Annex 4. Codelist IndustryMeasureValue

measureAtSource
changeInEmissionLevels
quietOperations
timeRestriction
operationTimeRestriction
measureAtPath
noiseBarrierMeasure
noiseBarrier
greenNoiseBarrier
enclosure
buildingInsulationMeasure
windowInsulation
otherInsulation
urbanPlanning
landUsePlanning
planningAndOrdinance
sensitiveAreaPlanning
bufferZones
noiseQualityArea
quietArea
greenArea
soundscape
infrastructureChange
newInfrastructure
relocationIndustry
closedInfrastructure
closureIndustry
communityEngagement
communication
informationDissemination
complaintManagement
measuresForBehaviouralChange
educationAwarenessActivities
noMeasure

Annex 5. Tables supporting data harvesting through INSPIRE download services

Geospatial data can be also imported from an existing INSPIRE download service. This alternative method includes a harvesting process that is included in the reporting dataset schemas of noise action plans for agglomerations, major airports, major railways, major roads and quiet areas. The harvesting process is supported by the following two tables:

- **HarvestSource:** This table contains the URLs from which to harvest the geospatial features needed for the reporting. In the serviceType field, the reporter indicates if the given URL points directly to a file to download, or to a WFS 2.0 INSPIRE service. For direct file download, the URLs point directly to the dataset file to download (e.g. no Atom feed). For WFS, the URL must provide the full WFS GetFeature request. For END reporting, only 'Direct file' in gpkg format is supported.
- **WorkflowLog:** This table contains log messages from the harvesting process. Messages can contain information about the harvested resources (e.g. number of features) but also information about errors occurred during harvesting.

In the reporting data flow of Noise Action Plans (DF7_10), the supported file format is GeoPackage with the expected table structure defined in the [pre-defined GeoPackage templates](#). These thematic GeoPackage files could be provided through a download service (e.g. INSPIRE download service) that could be declared and used for harvesting in the reporting process.

Table HarvestSource

For this purpose, the table HarvestSource must include service(s) information. The table HarvestSource has the following structure:

HarvestSource table overview

Mandatory/ optional	Name	Reportnet 3 Type	Code list
M	serviceType	Single select	
M	serviceUrl	URL	
M	operation	Single select	

The following tables 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.

Field serviceType

Requirement	Mandatory
Description	The service type indicates whether the given service URL points to a direct file download or to a WFS service providing the INSPIRE features. For END reporting only 'Direct file' is supported.
Reportnet 3 type	Single select
Code list	Applicable code list values: - Direct file
Example	Direct file

Field serviceURL

Requirement	Mandatory
Description	In case of serviceType 'Direct file', serviceURL points directly to the dataset file to download. For END reporting, only GeoPackage (gpkg) is supported. A zip file containing the gpkg file is allowed.
Reportnet 3 type	URL
Code list	Maximum of 10000 characters
Example	https://projects.sadl.kuleuven.be/downloadfolder/eea_testdata/df4_8/MajorAirports-StrategicNoiseMaps-AT-LOWW-SpatialIndex.gpkg
Reporting constraints	Limit of 2100 characters due to database export constraints. Please see section 3.3.

Field operation

Requirement	Mandatory
Description	This field is used to indicate the type of operation – how to use the service: a) service will add data to the table, b) service will replace data in the table or c) service will not import data (Do not import) – service is omitted. Keep in mind that the thematic table(s) will be deleted in its entirety if one of the operations assigned to a service is "Delete all table data before import".
Reportnet 3 type	Single select
Code list	Applicable code list values: <ul style="list-style-type: none"> - Append to table data - Delete all table data before import - Do not import
Example	Append to table data

Table WorkflowLog

The table WorkflowLog has the following information:

WorkflowLog table overview

Mandatory/optional	Name	Reportnet 3 Type	Code list
O	logTime	DateTime	
O	logType	Text	
O	logMessage	Text	
O	harvestSource	Text	

Field logTime

Requirement	Optional
Description	The date and time the system added the log message to the table during or after processing services. The logTime is given in local time, therefore it can differ from the time used in the harvestSource field.
Reportnet 3 type	DateTime
Format	ISO DateTime format YYYY-MM-DDThh:mm:ss
Example	2022-06-10T15:11:26

Field logType

Requirement	Optional
Description	The type of log message. This gives an indication on the importance of the message. LogType can be Info, Warning and Error
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Example	Info
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

Field logMessage

Requirement	Optional
Description	The detailed log message. This can contain general information (e.g. number of features) but also details about an error that occurred.
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Example	At the beginning of the process, 2022-06-10T14:12:32Z, there are 4 records inside HarvestSource table
Reporting constraints	Limit of 4000 characters due to database export constraints. Please see section 3.3.

Field harvestSource

Requirement	Optional
Description	The harvest source (web service) where this log message refers to. harvestSource is a composition of the UTC time of the start of the process and the URL of the service. Be aware this is the utc time, which can differ from the local time given in the field logTime
Reportnet 3 type	Text
Format	Maximum of 10000 characters
Example	2022-06-10T14:12:32Z https://projects.sadl.kuleuven.be/downloadfolder/eea_testdata/df4_8/MajorAirports-StrategicNoiseMaps-AT-LOWW-SpatialIndex.gpkg
Reporting constraints	Limit of 2100 characters due to database export constraints. Please see section 3.3.

Annex 6. WorkflowLog table used as feedback from importing a geospatial file

The WorkflowLog table and feedback are useful to detect potential errors in imported GeoPackage file [Figure 1]. The files can be imported using the custom import option of the data schema in “import dataset data”. There are two types of files that can be imported. A GeoPackage file with the .gpkg extension or a GeoPackage file that has been zipped. After the import has completed, the information about the import process and basic validation will be provided in the WorkflowLog table, as following:

- Information about schema check comparing the input GeoPackage file with the pre-defined GeoPackage template, e.g. passed schema check, missing tables or fields.
- Information on spatial data – geometries, i.e. correct geometry type (as defined in the Reportnet 3 dataset schema), geometry field shall not be empty or null, and allowed coordinate reference systems must be used.

Figure 1 Using WorkflowLog table

NoiseActionPlanCoverageArea × **NoiseActionPlanCoverageAreaValidates** × **DatasetDefaultProperties** × **CodlistProperties** × **HarvestSource** × **WorkFlowLog** ×





Import definition | Create definition | Add unique constraints | Add row constraints

Table description


This table contains log messages from the harvesting process. Messages can contain information about the harvested resources (e.g., number of features) but also information about errors occurred during harvesting.

Read only table ☐
 Indexed ☒
 Fixed number of records ☐
 Mandatory table ☐

212/1060

import table data		import table data	Delete table data	Show/hide columns	Validation filter		Filter by value
Actions	Validations	logTime	logType	logMessage	harvestSource		
 		2024-05-20T11:11:22	INFO	(dataset schema check is successful). All tables and Views defined in the GerdParakejo template are present in the target dataset. No missing tables or fields.	7024-EU-2019R11242 Noisenum=33noiseReported_2022/04/01/noisy457551_20240520001/24NoiseActionPa n-noiseargave2002-02-01-0242		
 		2024-05-20T11:11:26	INFO	No Missing errors are detected in the schema check. All files are processed.	7024-EU-2019R11242 Noisenum=33noiseReported_2022/04/01/noisy457551_20240520001/24NoiseActionPa n-noiseargave2002-02-01-0242		

Rows per page: Go to: of 1

+ Add record total: 2 rows  Delete records

Specific information from this basic validation during the import process will be shown in the fields “logType” and “logMessage”. The field logType includes the error level (i.e. INFO, WARNING, ERROR, ERROR-BLOCK, ERROR-SCHEMA) and the field “logMessage” includes the validation result and explanation. For example: information INFO in the field “logType” indicates that dataset schema check was successful and data (tabular data and geometry) has been imported into the Reportnet3 tables.

The values in the field “logType” are also included in further validation process on complete data in the Reportnet 3 tables. The following types of errors in the field “logType” will cause a validation BLOCKER also preventing the release to data collection in the Reportnet 3 [Figure 2]:

- ERROR
- ERROR-BLOCK
- ERROR-SCHEMA

Figure 2. Validation - blocking errors in logType field in the table WorkflowLog

Download QCs								
Table	Field	Shortcode	Name	Description	Expression	Type of QC	Level error	Message
WorkflowLog	logType							
WorkflowLog	logType	END_IT1	Import test	Checks if the import process has detected errors		FIELD	BLOCKER	The import process has failed due to schema errors
WorkflowLog	logType	END_IT2	Import test	Checks if the import process has detected errors		FIELD	BLOCKER	One or more tables have not been found according to the expected template
WorkflowLog	logType	END_IT3	Import test	Checks if the import process has detected errors		FIELD	BLOCKER	The import process has detected error in the geometries

Table 1 presents an overview of the error types recorded in the WorkflowLog table. An INFO message means that there are no errors found in the imported dataset. A dataset name (file name) and path to the internal storage are displayed in the field “harvestSource”.

Table 1 Information about error types. File import errors are blue and geometry errors are yellow.

Information in logType	Information in logMessage	Explanation
INFO	Dataset schema check is successful. All tables and fields defined in the GeoPackage template are present in the input dataset. No missing tables or fields.	This message is given if the schema matches the GeoPackage template (additional tables or fields are allowed).
WARNING	Missing attributes: @Value(missing_attr) The import is blocked because the missing attributes can cause workflow errors.	Warning is always connected to ERROR messages for instance “Some fields are missing in existing tables. See details under WARNING logType.”
WARNING	Missing tables: @Value(missing_tables) The import is not blocked but there are missing tables that are not imported.	The import is not blocked because missing tables are just skipped, but all the other tables can be imported.
ERROR-BLOCK	The uploaded file has a wrong file extension, only .gpkg and .zip are supported.	The import was not successful. This error will appear if a file with the wrong file extension is imported.
ERROR-BLOCK	The uploaded zip file contains file(s) with a wrong file extension, only .gpkg is supported.	The import was not successful. This error will come up if a file with the wrong extension in zip is imported (only gpkg allowed).
ERROR-SCHEMA	Dataset schema check has failed. The input dataset does not comply with the GeoPackage template. Some tables are missing. See details under WARNING logType.	This error will come up if there is a mandatory table that is completely missing.

Information in logType	Information in logMessage	Explanation
ERROR	Empty geometry detected in @Value(feature_type_name) at id @Value(id)	This error comes up if there is no geometry (but attribute values are present). If there are also no attribute values, this is just an empty record that is ignored.
ERROR	Wrong CRS detected in @Value(feature_type_name) at id @Value(id)	This error comes up if the coordinate reference system (CRS) is not in the following: EPSG 4326, 4258, 3035. Only the first 10 records are logged this way. After that, the error below is shown.
ERROR	More than 10 features with wrong CRS detected in @Value(feature_type_name)	This error will come up if there are more than 10 records with the wrong CRS. It means that it stopped logging the subsequent errors.
ERROR	Wrong geometry @Value(type) detected in @Value(feature_type_name) at id @Value(id)	Wrong geometry type (only Multi(Polygon) allowed)
ERROR	More than 10 features with wrong geometry detected in @Value(feature_type_name), stopped logging these errors	Only first 10 features with errors are logged this way, after that a general message is provided.

Remember !

- ✓ Do not delete empty fields in the tables or empty tables from the GeoPackage templates. Keep all the tables and fields from the templates even if they are empty (otherwise this will cause errors).
- ✓ Consult WorkflowLog table after each imported dataset to verify if dataset has been imported successfully or errors have been detected in the dataset.
- ✓ Geometry errors must be corrected in the GeoPackage file itself.
- ✓ It is recommended correcting errors in tabular data in the GeoPackage file.

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