

Summary

The existing NAP, established by The Danish Road Directorate for Delegated Regulation B, C and E will also be used for Delegated Regulation A. The Danish Road Directorate will be responsible for the technical platform, while The Danish Transport, Construction and Housing Authority will administrate and support data providers and data users for Multi Modal Travel Information Services.

The NAP has 5 basic services: Deliver data (from data provider to data consumer), Create metadata (by data provider), Discover data (the data user can search for data on the basis of metadata), Control access to data, and Manage and Monitor NAP (management functions used by the NAP manager). Data can either be made available via the data caching facility of the NAP, or via web-links.

To support the implementation of the Delegated Regulation (EU) 2017/1926 a detailed plan for further developments and improvement of the Danish NAP has been elaborated. The development is expected to be initiated shortly.

The Danish regulation for Public Transport Authorities have been amended, and obligations to deliver data have been included in the regulation.

Data on scheduled modes from public transport operators are already available via the Danish Journey Planner covering almost the complete network of trains, busses, metro and trams. The data is available in the GTFS format for now, as the implementation of a NeTeX export functionalities is still pending on the approval process for the funding.

In Denmark we have adopted the Nordic NeTeX profile developed in Norway, as a national profile.

Data for the spatial network in Denmark is already available in the INSPIRE format via The Agency for Data Supply and Efficiency. The data will be made available from the NAP via weblinks.

The planning process for the implementation of the Delegated Regulation (EU) 2017/1926 i.e. establishing an organizational, legislative and financial framework has been quite complex and therefore time consuming. The implementation has also proven to be more costly than expected, and this has resulted in a long administrative process to get the necessary funding in place.

The Danish National Access Point (NAP)

The existing NAP, established by The Danish Road Directorate for Delegated Regulation B, C and E will also be used for Delegated Regulation A. The Danish Road Directorate will be responsible for the technical platform, while The Danish Transport, Construction and Housing Authority will administrate and support data providers and data users for Multi Modal Travel Information Services.

The NAP is available at:

<https://nap.vd.dk/>

The language of the NAP is English.

Functionality of the NAP

The NAP has 5 basic services: Deliver data (from data provider to data consumer), Create metadata (by data provider), Discover data (the data user can search for data on the basis of metadata), Control access to data, and Manage and Monitor NAP (management functions used by the NAP manager). A data subscription service is also available.

Data can either be made available directly from the NAP or via web-links. Data is stored using a cloud service solution.

Metadata

The metadata services of the Danish NAP are based on the standard vocabulary DCAT-AP using an RDF-based Platform. Possible alignment and integration with the proposal for the Coordinated Metadata Catalogue have not yet been investigated.

Metadata is created and maintained by the data provider.

Discovery services

The NAP has a search functionality where data users can search for datasets based on metadata. The search functionality will be further improved

Planned improvements of the NAP

To support the implementation of the Delegated Regulation (EU) 2017/1926 a detailed plan for the further development of the Danish NAP has been elaborated by The Danish Road Directorate and The Danish Transport, Construction and Housing Authority in collaboration.

A series of user stories on delivery of MMTIS data have been established, covering delivery of MMTIS data, use of MMTIS data and the search functionality of the NAP. This work has led to a new design of the NAP solution with a series of mock-ups that illustrates the planned changes. The new design includes the following:

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- Introduction of "themes" on the NAP, which means that MMTIS data will have its own theme. This will make it easier to get an overview of the available MMTIS datasets and to target communication directly to MMTIS data providers and users.
- The search functionality will be improved, which is necessary as the number of datasets will be significantly increased.
- The workflow for uploading data will be improved and allow for different options to deliver data. Either as a file upload, a delivery via URL or as a link to a webpage. A functionality to validate NeTEx and INSPIRE data to the relevant XSD schemes will be added.
- The functionality to deliver metadata will be improved and allow for metadata to be partly generated from the datasets.
- The administration part of the NAP will be improved to support a situation where The Danish Transport, Construction and Housing Authority will be admin for MMTIS data, and The Danish Road Directorate will be admin for datasets relating to the other delegated acts.

The development plans have been approved, but the actual development has not been initiated yet. The development is expected to be initiated shortly and will take approximately 3 months.

The planning process for the implementation of the Delegated Regulation (EU) 2017/1926 i.e. establishing an organizational, legislative and financial framework has been quite complex and therefore time consuming. The implementation has also proven to be more costly than expected, and this has resulted in a long and still ongoing administrative process to get the necessary funding in place.

Amendment to the regulation of Public Transport Authorities

1 July 2019 a new amendment to the regulation of Public Transport Authorities entered into force. According to the new law Regional Public Transport Authorities, The Danish State Railways and The Metro shall make transport data available to third parties via The Danish Journey Planner. This data shall be made available free of charge. It also determines that the Minister of Transport, Building and Housing can establish detailed rules to specify which transport data are to be provided and which data standards to be used.

Accessibility of data

In Denmark we will be using a stepwise approach where new data feeds will be introduced on the NAP successively. The first phase of the implementation will cover static data for most scheduled modes, i.e. busses, trains, metro and trams, and spatial data. Static data for long distance coaches, maritime and aviation will be added at a later phase. Dynamic data will also be introduced at a later phase as it also

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needs to be coordinated with further technical development of the NAP. Dynamic data for public transport is already available from The Danish Journey Planner.

Data for the spatial network in Denmark is already available in the INSPIRE format via The Agency for Data Supply and Efficiency. The data will be made available from the NAP via weblinks.

Data on scheduled modes from public transport operators are already available via the Danish Journey Planner. The data is almost covering the complete network for public trains, busses, metro and trams, and is not limited to only cover The Comprehensive TEN-T network. The data is available in the GTFS format for now, as the implementation of a NeTEx export functionality is still pending on the approval process for the funding.

In Denmark we have adopted the Nordic NeTEx profile developed in Norway, as a national profile. A NeTEx export functionality will be implemented at The Danish Journey Planner, which will make all static data for scheduled modes from Public Transport Operators available in the NeTEx format.

Stakeholder engagement

As a first step The Danish Transport, Construction and Housing Authority has conducted a mapping of data and data providers relevant for the implementation of the Delegated Regulation (EU) 2017/1926.

Furthermore we have established a reference group for the implementation of the delegated regulation 2017/1926 with representatives from the Ministry of Transport, Building, and Housing (responsible for the overall transport policy in Denmark), the Danish Road Directorate (responsible for the implementation of the ITS-directive and for setting up a NAP for delegated regulation B and C) and the Danish Journey Planner (collects and disseminates public transport data in Denmark). The purpose of the reference group has been to discuss and determine the overall framework for the implementation of the delegated regulation.

The Danish Journey Planner is owned by the Regional Public Transport Authorities, The Danish State Railways and The Metro and the PTA's and PTO's has primarily been engaged through the Danish Journey Planner.

We are also in contact with The Agency for Data Supply and Efficiency who are responsible for implementing the INSPIRE directive and provides spatial data to the NAP.

We plan to send out a newsletter to key stakeholders in December with information on the implementation of the Delegated Regulation. We also plan to establish a wider reference group where data provid-

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ers and data users will be invited to participate in order to get feedback on the development of the NAP and exchange best practices on the use of the new data standards in a Danish context.