Transport og samfunn
Transportutvikling
Transportdata
26. januar 2026

Statens vegvesen

Version 1.0

SERVICE DESCRIPTON TN-ITS

Norwegian Public Road Administration

Innhold

SERVICE DESCRIPTION TN-ITS

Service for a standardized feed of changes to road data

Version 1.0

Summary

This document specifies the TN-ITS (Transport Network – Intelligent Transport Systems) service that provides incremental updates of selected data from the Norwegian National Road Database (NVDB) according to the TNITS CEN TS 17268 specification.

Service functions

TN-ITS data from Statens vegvesen, the Norwegian Transport Administration (SVV), provides a standardised automatic and timely feed of road data between the SVV and potential users of such data. Data is provided as XML according to the TN-ITS XML schema1 thru an REST API service.

Channels

The service is a REST-based web service available through API of SVV.

Metadata describing the service is available at the Norwegian National Road Database "Nasjonal vegdatabank".

Update Frequency

One dataset (XML-file) per feature type (see Data content > Features) is produced per Workday if a change was registered to the national database for the specific road feature. One XML contains changes since last update of the file.

Technical information

This TN-ITS service description document is limited to describe information specific to TN-ITS.

It is a data basis from the Norwegian National Road Database (NVDB) that has been used to export datasets in TN-ITS format for European data exchange. The TN-ITS service uses the REST API. Follow the link for more technical information: API Documentation - NVDB TN-ITS & INSPIRE Export

Accessing the service

The service is open to public and requires no access.

Access to the service: NVDB TN-ITS Export API

Data content

Features

The road data information provided are:

- Speed limit, road name, road number and maximum height.

The table below lists the types of road data available in the service.

For a detailed description

For a detailed description of road data, see product specifications for data catalog in the national road data bank (NVDB) *Datakatalog for Statens vegvesen.* Product specifications for data catalog are only available in Norwegian.

Road data	Feature property value	Underlying product of NVDB
SpeedLimit	MaximumSpeedLimit	Feature type: Fartsgrense (105) Feature attribute: Fartsgrense • Høyeste tillatte hastighet på en vegstrekning.
RoadName	officialName	Feature type: Adresse (538) Feature attribute: Adressenavn • Navn på veglenke i matrikkelen
RoadNumber	OfficialNumber Value construction: ConditionOfFacility	Feature type: Vegsystem (915) Official number: Kommune + Vegkategori + Vegnummer ConditionOfFacility: Fase
MaximumHeight	MaximumHeight	Feature type: Høydebegrensning (591) Feature attribute: Skilta høyde

Location referencing

For each dataset to be useful, it is important to add a location description to each road data. The location can be a point or a linear location, such as a road segment. The location of the road data or attributes is defined by three separate methods.

- OpenLR
- Linear referencing
- The safety feature geometry

```
<locationReference>
    <GeometryLocationReference>
        <encodedGeometry>
            <gml:LineString srsDimension="2" srsName="EPSG:4326">
                <gml:posList>58.62087 8.88161 58.62091 8.88172 58.62104 8.88233 58.62123 8.88295</gml:posList>
            </gml:LineString>
        </encodedGeometry>
    </GeometryLocationReference>
</locationReference>
<locationReference>
    <OpenLRLocationReference>
        <binaryLocationReference>
            <BinaryLocationReference>
                <base64String>CwZQ2SmvmzPFBAGPAFYzNac=</base64String>
                <openLRBinaryVersion xlink:href="http://spec.tn-its.eu/codelists/OpenLRBinaryVersionCode#v2_4"/>
            </BinaryLocationReference>
        </binaryLocationReference>
    </OpenLRLocationReference>
</locationReference>
<locationReference>
    <OpenLRLocationReference>
        <binaryLocationReference>
            <BinaryLocationReference>
                <base64String>CwZRkymvwzPVBP5x/6ozRac=</base64String>
                <openLRBinaryVersion xlink:href="http://spec.tn-its.eu/codelists/OpenLRBinaryVersionCode#v2_4"/>
            </BinaryLocationReference>
        </binaryLocationReference>
    </OpenLRLocationReference>
</locationReference>
<locationReference>
    <LocationByExternalReference>
        <predefinedLocationReference xlink:href="nvdb.no:0-1@10149:MED:-:-"/>
    </LocationByExternalReference>
</locationReference>
```

Data updates

The service offers daily updates to road data. If there are no changes per road object type, no dataset is generated.

Dataset examples

For full detail about data, we refer to TN-ITS specification

Road feature identification

Road feature that has been subject to an update and delivered in a dataset:

<id>
  <RoadFeatureId>
  <providerId>nvdb.no</providerId>
  <id>1026115404</id>
  </RoadFeatureId>

</id>

XML element	Explanation
RoadFeatureId	The element contains two elements, providerID and ID, which in combination uniquely identifies a safety feature.
providerId	The element identifies the data provider.
id	Unique numerical identifier for a specific feature

Further reading and References

TN-ITS NVDB: NVDB TN-ITS Export API

TN-ITS portal: TN-ITS | Map Update Exchange

TN- ITS Statens vegvesen: NVDB TN-ITS Export API

NVDB data product specification (Norwegian only): Datakatalog for Statens vegvesen

Changes

Document version	Dato	Endringer
1.0	26.01.2026	Første versjon

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Tryggere, enklere og grønnere reisehverdag