

## Digiroad Data Publication 2/2019

The Digiroad Publication 2/2019 includes road link geometry obtained from the National Land Survey Topographic Database in April 4<sup>th</sup> 2019.

- **The road address network data:** parallels the situation in the Road Register data as it was in January 2019.
- **Concerning data objects of the road network:** the data parallels the situation as it was in the end of October 2018, excluding lane data.
- **Street network data objects:** included based on the situation in April 2019.
- **Digiroad description of data objects** has been added a specifications for the Digiroad WMS and WFS interface.
- **New asset added to Digiroad, Traffic signs**

### Traffic signs

New asset is added to Digiroad, traffic signs. Traffic signs are point-like asset. The data is fetched on state roads from Tierekisteri. In street network and private roads data is maintained by municipalities. Traffic signs are categorized by traffic sign type, and the more detailed description can be found on Digiroad description of data objects 2/2019.

The data is not yet comprehensive for the whole country and there may be some errors and wrong signs. In this data extract the additional panels are listed as their own objects. In the future extracts additional panels are going to be added to their main traffic signs. Digiroad team is working to improve the quality and coverage of the data for the future extracts.

### Published data objects

The Digiroad publication 2/2019 includes the following data objects:

- Road link
- Manoeuvre
- Public transport stop
- Traffic light
- Pedestrian crossing
- Directional traffic sign
- Railway level crossing
- Barrier
- Speed limit
- Maximum allowed -restrictions
- Lit road
- Paved road
- Traffic volume
- Road affected by thawing
- Width
- Vehicle specific restriction

- Vehicle with hazardous load (VAK)
- Bus lane
- E-road number
- Exit number
- Speed limit during winter
- Forest road turnaround point (pilot phase)
- Service
  - Customs
  - Frontier crossing
  - Rest area
  - Airport
  - Ferry terminal
  - Taxi stand
  - Bus station
  - Railway station
  - Parking area
  - Car shipping terminal
  - Coach or lorry parking
  - Parking building

## Data Structure

The datasets are delivered in zip-files including:

1. All data, excluding public transport bus stops, are divided according to the extraction areas in Esri shape files.
2. Public transport bus stops, covering the whole area of Finland in a single Esri shape file.
3. Data in GeoPackage format.

The coordinate system is ETRS-TM35FIN (EPSG: 3067).

All the directions of digitizing in the road links have been unified according to the cardinal directions. The starting point of a road link is always the southern end point of the link. However, the starting point of a link in the fully East-West direction is the western endpoint. Due to the unification of the directions of digitizing, the first house number on the right and left side may be larger than the final house number on the right and left side.

Furthermore, changes in speed limits and maximum allowed restrictions are available via TN-ITS API. More information on TN-ITS is available at the [Digiroad website](#).

This publication does not include separate quality reports.

## Road Link Data

The geometry is obtained from the National Land Survey of Finland with a time stamp of April 4<sup>th</sup> 2019.

The link ID (LINK\_ID) by the Finnish Transport Agency will be used as a unique road link ID. The MML-ID will continue to be published as part of the attribute data of the road links but will not be used for connecting the road link and data object.

The Road link is the linear reference for dynamic segmentation. Reference chains are no longer used.

The road links include the following attribute data:

- Functional class
- Direction of traffic flow
- Road link type
- Administrative class
- Bridge, Underpass or Tunnel
- Location and elevation precision
- Start/End M value
- Road name in Finnish
- Road name in Swedish
- Road name in Sami
- First and last house number on right and left
- Municipal number
- Road number and a number of the part of a road (based on road address network by FTA)
- Road classification from the Topographic database (slightly different from Digiroad's own classification in which some of the Topographic database classes have been combined).
- Carriageway number (based on road address network by FTA)
- Start and end distance from the beginning of the road part (based on road address network by FTA)
- Link ID
- MML-ID
- Last modified timestamp
- Direction of digitization in relation to the data provided by the National Land Survey
- Link status
- Data source

Tracks (by the National Land Survey) is included in the new geometry. The functional class of the track and the road link type are both marked as "track" (= "polku" in Finnish).

## Digiroad R and K

The differences between various data types are described in the *Description of Data Objects* document chapter 3.5. *Description of Data Objects* document is attached in the data publication.

## Next publication

The estimated timetable for the next Digiroad publication is in the summer of 2019.

## Questions? We are happy to help!

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