This Read me document has been updated 3rd September: info on street network data and GeoPackage format has been added.

Digiroad Data Publication 2/2018

The Digiroad Publication 2/2018 includes road link geometry obtained from the National Land Survey Topographic Database in mid-August 2018.

- The road address network data parallels the situation in the Road Register data as it was in the beginning of year 2018.
- Speed and weight limit data as well as public transport stop data concerning the road network parallels the situation in the Road Register data as it was in August 2018. Concerning other data objects of the road network the data parallels the situation as it was in the beginning of year 2018.
- The street network data objects are included based on the situation in August 2018.
- In the next data publication all data objects will be updated according to the current situation in the Road Register.

Two new values have been added to the Road link type data. These values indicate routes used by special transport such as arrangements concerning large ramp entities or detours for low bridges. New road link type values are:
14 = route for special transport without a locked barrier structure
15 = route for special transport with a locked barrier structure

It is not recommended to add these road links to the data used for regular routing since they are mainly suitable for routing abnormal transport, coordinated by the ELY centres.

Published data objects

The Digiroad publication 2/2018 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 (new).**

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 August 13th 2018.

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)
- 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
- Road classification from the Topographic database (slightly different from Digiroad's own classification in which some of the Topographic database classes have been combined).

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.

Road register attribute data is updated directly to Digiroad

The data objects published in Digiroad receive the latest information on roads from the Road Register where ELY centres maintain the data. The data is updated and modified so that it is similar to the situation in Road Register at the point of time when the data is exported from the Digiroad database.

Next publication

The estimated timetable for the next Digiroad publication is late October or early November. The road link geometry will be updated at the same time.

Questions? We are happy to help!

Digiroad Operator
info@digiroad.fi
Tel: +358 40 507 2301 (9 a.m. to 4 p.m. EET)
liikennevirasto.fi/digiroad