



Väylävirasto
Trafikledsverket

Digiroad

Covering letter 3/2021

June 2021



Digiroad Data Publication 3/2021

The Digiroad Publication 3/2021 includes road link geometry obtained from the National Land Survey Topographic Database in June 9th 2021.

- **The road network** includes the Ring Road I Laajalahti construction project, which was partially put into service in spring 2021.
- **For the road network, the data type data** correspond to the situation in March 2021 for the following data types: mass, height and width restrictions, illuminated road, paved road, road width and guardrails.
- **For the street network**, the data types correspond to the situation in June 2021.
- **The restriction manouvre** has been supplemented with the Turn Restriction_Link table, which stores all road links attached to the turn restriction, so now the publication also includes turn restriction intermediate links. The new board has so far been added to the Digiroad R delivery format. A more detailed description of the new table has been added to the Description of Data Types.
- **The description of the data type** Metsäautotie turning point (pilot) has been removed from the description of data types. Of the digital road publications, the pilot data type has been omitted earlier, starting with publication 3/2019. The goal is that in the future, the translation site will be added to Digiroad as the actual data type.

Published data objects

The Digiroad publication 3/2021 includes the following data objects

- *Vehicle-specific restriction*
- *barrier structure*
- *European road number*
- *treatment class*
- *public transport lane*
- *public transport stop*
- *cirrhosis*
- *turn restriction*
- *Width*
- *traffic sign*
- *traffic volume*
- *traffic light*
- *subscription number*
- *speed limit*
- *information board*

- *parking ban*
- *paved road*
- *level crossing*
- *protective road*
- *Maximum allowed restrictions*
- *winter speed limit*
- *road link*
- *road work*
- *Transport of Dangerous Goods (VAK) restriction*
- *illuminated roads*
- *Service*
 - *Culvert*
 - *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:

- *All data, excluding public transport bus stops, are divided according to the extraction areas in Esri shape files.*
- *Public transport bus stops, covering the whole area of Finland in a single Esri shape file.*
- *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 June 9th 2021.

The link ID (LINK_ID) by the Finnish Transport Infrastructure 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.

The Road link is the linear reference for dynamic segmentation.

The road links include the following attribute data:

- *Data source* on road address network by FTIA)
- *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*
- *Carriageway number (based on road address network by FTIA)*
- *Start and end distance from the beginning of the road part (based on road address network by FTIA)*
- *Link ID*
- *MML-ID*
- *Last modified timestamp*
- *Direction of digitization in relation to the data provided by the National Land Survey*
- *Link status*

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.*

Next publication

The estimated timetable for the next Digiroad publication is in the September of 2021.

Questions? We are happy to help!

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