



Väylävirasto  
Trafikledsverket

Finnish Transport Infrastructure Agency  
Publications

# Digiroad

Covering letter  
5/2021  
October 2021



Picture: Digiroad  
E-publication (pdf) ([www.vayla.fi/digiroad](http://www.vayla.fi/digiroad))

vayla.fi/digiroad  
info@digiroad.fi  
Puh. +358 40 507 2301

---

## Table of contents

Published data objects .....	2
Data Structure.....	3
Road Link Data .....	3
Digiroad R ja Digiroad K.....	4
Next publication .....	4
Questions? We are happy to help! .....	4

## Digiroad Data Publication 5/2021

The Digiroad Publication 5/2021 includes road link geometry obtained from the National Land Survey Topographic Database in October 19th 2021.

- The road network includes the **national road 5 Mikkeli-Juva** construction project, which was put fully into service in October.
- For some objects in the **width** data type of the street and private road network, the value has been missing. The default width value has been added to these objects based on the road classification of the National Land Survey of Finland.
- For the **road network**, data type data in July 2021 for the following data types: mass, height and width restrictions, illuminated road, paved road, road width and pedestrian crossings.
- For the **street network**, the data types correspond to the situation in October 2021.

## Published data objects

The Digiroad publication 5/2021 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
  - Bus station
  - Railway station
  - Parking area

vayla.fi/digiroad

info@digiroad.fi

Puh. +358 40 507 2301

- Rest area
- Airport
- Ferry terminal
- Taxi stand
- 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 October 19th 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:

vayla.fi/digiroad  
 info@digiroad.fi  
 Puh. +358 40 507 2301

- Data source
- 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 FTIA)
- 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 ja Digiroad K

The differences between various data types are described in the Description of Data Objects document chapter 3.3. Description of Data Objects document is attached in the data publication.

## Next publication

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

## Questions? We are happy to help!

Digiroad Operator  
[info@digiroad.fi](mailto:info@digiroad.fi)  
 Tel: +358 40 507 2301 (9 a.m. to 4 p.m.)  
[vayla.fi/digiroad](http://vayla.fi/digiroad)

[vayla.fi/digiroad](http://vayla.fi/digiroad)  
[info@digiroad.fi](mailto:info@digiroad.fi)  
 Puh. +358 40 507 2301