DIGIROAD RELEASE 4/2017

There are no changes in the data content of the publication compared to the previous publication.

From now on, all data objects are updated directly from Road register database. Therefore, attribute data concerning roads have now been updated to the November 2017 situation in Road register. In addition, service point data on rest and parking areas now include information as it was in the Road register in October 2017.

Published Data Objects

The Digiroad Release 4/2017 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
- Service
    - Customs
    - Frontier crossing
    - Rest area
    - Airport
    - Ferry terminal
    - Taxi stand
    - Railway station
    - Parking area
    - Car shipping terminal
    - Coach or lorry parking
    - Parking building
    - Bus station
- forest road turnaround point (pilot phase)

Changes in the Data Structure

The structure of DR_LINKKI shapefile has slightly changed.
Starting from release 2/2017, the DR_LINKKI file includes road classification data obtained from the National Land Survey's Topographic Database (MTK_TIE_LK).

Starting from release 1/2017, road link geometry **has included road address data maintained by the Finnish Transport Agency** (earlier exported from data by the

National Land Survey). Start distance (start measure from the beginning of the road part) and end distance (end measure from the beginning of the road part) of each road link from the beginning of the road part in the road address have been added to the address data, as well as data on carriageway (ajorata)– both previously unpublished. The information in brackets is the name of these columns in the DR_LINKKI file. This information has not yet been updated after the first upload because the maintenance tool for road addresses is still under development. The new, updated situation will be available in the beginning of 2018.

Starting from release 1/2017, the DR_LINKKI file has included **geometry of links that are currently planned or under construction** – in case the info is available in the data by the National Land Survey. Link status can be seen in the field LINK_TILA (0=in use, 1 = under construction, 3 = planned). In addition to this, the DR_LINKKI file can also include other information, in case the Finnish Transport Agency or municipalities have provided such data. This complementary geometry has been defined with the field geom_lahde (1 = MML, 2 = other, not specified).

All the directions of digitisation in the road links have been unified according to the cardinal directions. The starting point of a road link is always the southern endpoint 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 digitisation, the first house number on the right and left side may be larger than the final house number on the right and left side.

The datasets are delivered in zip-files that include:

- 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

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

Part of the data objects is currently published through WMS and WFS interfaces (beta). In addition to that changes in speed limits and maximum allowed -restrictions are available via TN-ITS API.

There are no separate quality reports attached to this Release.

Road Link Data

The geometry and address data are obtained from the National Land Survey of Finland with a time stamp of November 17th 2017.

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 will 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".

Planned roads and roads under construction are included in the publication.

The data on the road number and the road part number are included in the publication. The data is based on the road address network provided by the Finnish Transport Agency.

Digiroad R

Digiroad R has changed so that now instead of segment table now each point segment and linear segment are found from their own data object –shape file which means that each time extraction is made, the geometry will be generated to each data object.

Digiroad K

Digiroad K has changed so that now the road link geometry is not disconnected by the point segments. Only linear segments are disconnected. All the point segments and linear segments are published now as data object shape files instead of segment shape files.

Road register attribute data is updated directly to Digiroad

The data objects published in Digiroad receive the latest information on roads from Road register where ELY centres maintain the data. The data is updated so that it is similar to the situation in Road register at the point of time when the data is exported from Digiroad. In this publication the data is based on the Road register situation in early November 2017, so the update cycle does not yet match.

Next Release

The next Digiroad release will be available in the beginning of 2018. The road link geometry will then be updated to the early 2018 situation.

Contact Digiroad Operator

Digiroad Operator has combined the email support for administrators and users.
Support is be provided at info@digiroad.fi
Support is available also by phone +358 40 507 2301 (9 a.m. to 4 p.m. EET).