

Ministry of Transport and Communications Data Catalogue

The logo for the Ministry of Transport and Communications (LVM) consists of the letters 'LVM' in a bold, white, sans-serif font. The letter 'V' is stylized with two small triangles pointing upwards from its base.

MINISTRY OF TRANSPORT
AND COMMUNICATIONS



Suomi
Finland
100

DATA	DESCRIPTION OF DATA	R=interface K=query T=file	Data type: 1=geographical 2=dynamic status 3=register 4=other
FINNISH METEOROLOGICAL INSTITUTE			
Wave observations and other observations from buoys http://ilmatieteenlaitos.fi/avoin-data-aaltohavainnot	Height of significant wave direction and sea water temperature.	R	1
Sea level observations http://ilmatieteenlaitos.fi/avoin-data-meriveden-korkeushavainnot	Sea level.	R	1
Weather observations http://ilmatieteenlaitos.fi/saahavainnot	Temperature, humidity, wind, atmospheric pressure, rain etc.	R	1
Solar radiation observations http://ilmatieteenlaitos.fi/havaintosuureet#auringonsateily	Sunshine hours, UV radiation, shortwave and longwave radiation.	R	1
Weather observation daily and monthly values http://ilmatieteenlaitos.fi/avoin-data-saahavaintojen-vrk-ja-kk-arvot	Daily and monthly average temperatures and rainfall and temperature extreme values by weather station. In addition monthly average temperatures and rainfall in grid format.	R	1
Climatic reference values of weather observations http://ilmatieteenlaitos.fi/avoin-data-ilmastolliset-vertailukaudet	Temperature, humidity, atmospheric pressure, rainfall and snow depth 1971–2000 and 1981–2010.	R	1
Lightning observations http://ilmatieteenlaitos.fi/avoin-data-salamahavainnot	Lightning observations in Finland.	R	1
Weather radar images http://ilmatieteenlaitos.fi/avoin-data-saatutkat	Rainfall intensity, radar reflectivity factor, radial wind speed and rainfall 1,12 and 24 h.	R	1
Weather forecast data RCR HIRLAM http://ilmatieteenlaitos.fi/avoin-data-saannustedata-hirlam	Weather forecast model point estimates and grid fields. Weather forecast model isobaric surface data as a grid field.	R	1
Sea level forecast http://ilmatieteenlaitos.fi/avoin-data-meriveden-korkeusennuste	Sea level forecast model point estimate is made for measurement stations or mareographs.	R	1
Wave forecast data WAM http://ilmatieteenlaitos.fi/avoin-data-aaltoennustedata-wam	Wave forecast model grid fields.	R	1
Sea hydrographic and currents forecast data HBM http://ilmatieteenlaitos.fi/avoin-data-meriveden-virtausennuste	Sea hydrographic and currents model grid fields.	R	1
Climate change scenarios http://ilmasto-opas.fi/fi/ilmastonmuutos/suomen-muuttuva-ilmasto/-/artikkeli/74b-167fc-384b-44ae-84aa-c585e-c218b41/ennustettu-ilmastonmuutos-suomessa.html	Average temperature and rainfall change estimates for six greenhouse gas emission scenarios as an average of 19 climate models.	R	1
Aviation weather observations METAR http://ilmatieteenlaitos.fi/avoin-data-metar-sanomat	Aviation weather observations from airports.	R	1

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Sea ice forecast model HELMI http://ilmatieteenlaitos.fi/avoin-data-merijaaennustedata	Ice concentration, movement and thickness in grid format.	R	1
Mast observations http://ilmatieteenlaitos.fi/avoin-data-mastohavainnot	Mast weather observations collect data on atmospheric surface layer vertical profiles. Three masts: Espoo, Kuopio, Rovaniemi.	R	1
Air quality observations http://ilmatieteenlaitos.fi/avoin-data-ilmanlaatuhavainnot	Air pollutions levels.	R	1
Finnish Wind Atlas http://www.tuuliatlas.fi/fi/index.html	The Finnish Wind Atlas (wind energy atlas) provides information on the annual and monthly changes in wind conditions in Finland. The information is based on computer modelling and represent the average wind conditions in an area.	R, K	1
FINNISH TRANSPORT AGENCY			
Traffic incident information www.digitraffic.fi	Traffic incident information includes accidents, special and dangerous goods transports, temporary weight limits, disruptions in ferry services, vehicle gauge restrictions and obstacles on the road and exceptional weather conditions. ITS Directive Priority Action 'c' (safety-related traffic information)	R	1
Weather cameras www.digitraffic.fi	Feed from approximately 1000 weather cameras on the road network (photos updated every 10–20 minutes).	R (metadata), K (actual photos)	4
Live road traffic flow and travel time data www.digitraffic.fi	At the moment only in Helsinki metropolitan area.	R	2
Up-to-date automatic traffic measurement spots (LAM-spots), speed and traffic flow www.digitraffic.fi	Approximately 450 road network LAM-spots.	R	2
Road weather station real-time measurement data www.digitraffic.fi	Approximately 500 road weather stations.	R	2
Road section weather forecasts www.digitraffic.fi	Weather forecast for main road network.	R	2
Real-time monitoring of rail traffic (by traffic operating point + real-time updates by line section) www.digitraffic.fi	Real-time monitoring of rail services and forecasts. One or all operated rail services may be monitored in real-time. In addition, services arriving or departing from a certain station can be monitored.	R	2
Planned and actual rail service timetables www.digitraffic.fi	Rail service timetable data in line with allocated rail capacity.	R	4
Train composition information www.digitraffic.fi	Passenger train composition information including coach types, locomotive types, train lengths, onboard services and maximum speed on each line section.	R	4

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State road network (Road register) http://www.liikennevirasto.fi/avoindata/tietoaineistot	The Road register serves the needs of transport infrastructure asset management for the road network. Currently 13 types of information included in the Road register providing information on the State road network are available. By the end of 2016 the rest of the information in the Road register is released for public use bringing the number of types of information available to approximately one hundred.	R, K	1
Rail network geographic information (Ratapurkki) http://www.liikennevirasto.fi/avoindata/tietoaineistot	Ratapurkki serves the needs of transport infrastructure asset management for the State rail network. Currently 3 types of information on the rail network have been released for public use. By the end of 2016 the rest of the information in Ratapurkki is released for public use bringing the number of types of information available to approximately 50.	R, K	1
Geographic information on waterways and maritime areas http://www.liikennevirasto.fi/avoindata/tietoaineistot	All data in the Finnish Transport Agency's Waterway register has been released for public use. In addition, parts of nautical chart data has been released for public use.	R, K	1
Digiroad www.digiroad.fi	Digiroad is a national information system managed by the Finnish Transport Agency that includes road and street network centreline geometry and information concerning traffic such as the status of the roads. All data has been released for public use.	R, K	1
Statistical data http://www.stat.fi/tup/statfin/index.html	Finnish Transport Agency's statistical data in StatFin service.	K	4
Public transport national timetable and route service/data http://developer.matka.fi/pages/en/home.php https://www.digitransit.fi/en/developers/	Timetables and routes on, for instance, commuter services in major cities, rail services operated by Finnish Railways (VR), long-distance coach services and domestic flights.	K, R	4
Location database http://www.liikennevirasto.fi/avoindata/tietoaineistot/tmc-paikannusnimisto	Traffic messages include useful and real-time data on road works, accidents, traffic jams and weather. TMC/ALERT-C data is needed to utilise the messages. Finnish Transport Agency maintains and distributes the data.	K, (R coming up)	4
Road traffic accidents 2005- https://www.avoindata.fi/data/fi/dataset/tieliikenneonnettomuudet	Road traffic accident statistics (accidents and involved parties).	T	1
Traffic forecasting model (EMME) http://aineistot.liikennevirasto.fi/emme	Finnish Transport Agency has developed methods to draw up national traffic forecast examinations using traffic models. The basis for the traffic forecast examinations are the traffic network descriptions and public transport lines and traffic flow matrixes used to describe current traffic used in the Emme traffic forecast software.	T	4

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FINNISH TRANSPORT SAFETY AGENCY (TRAFI)			
Technical information on vehicles http://www.trafi.fi/tietopalvelut/avoin_data	Open data for vehicles includes registration, type-approval and technical information for vehicles in operation on the road from a vehicle register maintained by Trafi. The data to be released for public use does not include personal data and the vehicle cannot be identified on the basis of the data.	T	3
Technical information on vessels http://www.trafi.fi/tietopalvelut/avoin_data	The open data on vessels includes technical information for all vessels in the register maintained by Trafi and the municipality where the vessel is used. The data to be released for public use does not include personal data and the vessel cannot be identified on the basis of the data.	T	3
Technical information on maritime vessels http://www.trafi.fi/tietopalvelut/avoin_data	The open data for ships includes registration and tonnage certificate information registered in Finland from the Register of Ships maintained by Trafi. The data to be released for public use does not include personal data and the vessel cannot be identified on the basis of the data.	T	3
Road traffic repair shops requiring licensing http://www.trafi.fi/tieliikenne/korjaamot	Repair shops for tachographs, alcolocks, brakes, speed limitation devices, taximeters, emission measurement services for petrol and diesel cars	K	3
Remotely Piloted Aircraft System, RPAS search http://www.trafi.fi/ilmailu/miehittamaton_ilmailu/rpas-haku	RPAS operators (unmanned aviation), who have agreed to the publication of the information.	K	3
Car Comparison Service http://autovertaamo.trafi.fi/	With the service you can compare the technical properties, consumption and emissions, price and car and vehicle tax of passenger car models sold in Finland and check the consumption and emission data of your current car.	Online service	3

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FINNISH COMMUNICATIONS REGULATORY AUTHORITY			
Autoreporter https://www.viestintavirasto.fi/tilastot-jatutkimukset/tilastot/2014/avoindata.html	Public sharing in database format (json, csv) of information security incident observations submitted through Cert-Fi's Autoreporter service. Internet addresses concerning individual observations have been converted to city-specific with the help of the location database.	R	3
Domain register, www.domain.fi https://www.viestintavirasto.fi/tilastot-jatutkimukset/yleistatoimialatiedosta/avoindata.html ; https://odata.domain.fi/OpenDomainData.svc	Information on domains registered by legal persons and other information.	R, K	3
Radio stations in Finland https://www.viestintavirasto.fi/tilastot-jatutkimukset/yleistatoimialatiedosta/avoindata.html	Information on radio stations in Finland: name, location, technical information, licence information.	T, K, R (2017)	1,3
TV stations in Finland https://www.viestintavirasto.fi/tilastot-jatutkimukset/yleistatoimialatiedosta/avoindata.html	Information on TV stations in Finland: name, location, technical information, licence information.	T, K, R (2017)	1,3
Ships' Maritime Mobile Service Identity number https://www.viestintavirasto.fi/tilastot-jatutkimukset/yleistatoimialatiedosta/avoindata.html	MMSI-number, ship's name, ship's identification number).	T, K, R (2017)	3
Amateur radio call signs https://www.viestintavirasto.fi/tilastot-jatutkimukset/yleistatoimialatiedosta/avoindata.html	Call signs in use (call sign, validity information).	T, K, R (2017)	3
Public statistical data on the sector of the Finnish Communications Regulatory Authority https://www.viestintavirasto.fi/tilastot-jatutkimukset/yleistatoimialatiedosta/avoindata.html	National statistics compiled from raw data on development of the sector. Single statistics data in CSV format and compiled data in XLSX format.	T, R (2017)	4