Updated 15 June 2023

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Railway Network Statement 2023

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Finnish Transport Infrastructure Agency
Helsinki 2021

Updated 15 June 2023

Photo on the cover: Markku Nummelin

Online publication pdf (www.vayla.fi)
ISSN 2490-0745
ISBN 978-952-317-909-7

The contents of this document are not fully accessible.

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Version history

Date	Version	Change
15 October 2021	Version for comments	Version for comments
10 December 2021	Publication version	Publication version
25 April 2022	Version for comments	Foreword and text. Appendices: 2B, 2E, 2H, 2K, 2M, 4A, 5C, 5D, 5J, 7A, 7B, 7C, 7D, 7E
23 June 2022	Publication version	Foreword and text, sections 2.3.5 and 2.4.6, Appendices 2E, 2F, 2K, 2M, 6B
17 October 2022	Version for comments	Foreword and text. Appendices 2B, 2E, 2F, 2G, 2K, 2L, 2M, 5G, 7A, 7D, 7E
09 December 2022	Publication version	Foreword and text, appendices 2M, 5G, 5H, 7C
02 May 2023	Version for comments	Foreword and text and appendices 2B, 2C, 2E, 2F, 2G, 2K, 2M, 5F, 5K, 7B, 7C, 7D, 7E, 7F, 7J
15 June 2023	Publication version	Appendices 7D, 7E

Foreword

In compliance with the Rail Transport Act (1302/2018 (in Finnish)) and in its capacity as the manager of the state-owned railway network, the Finnish Transport Infrastructure Agency is publishing the Network Statement of Finland's state-owned railway network (hereafter the 'Network Statement') for the timetable period 2023. The Network Statement describes the state-owned railway network, access conditions, the infrastructure capacity allocation process, the services supplied to railway undertakings and their pricing as well as the principles for determining the infrastructure charge. The Network Statement is published for each timetable period for applicants requesting infrastructure capacity. This Network Statement covers the timetable period 11 December 2022 – 9 December 2023.

The Network Statement 2023 has been prepared on the basis of the previous Network Statement taking into account the feedback received from users and the Network Statements of other European Infrastructure Managers. The Network Statement 2023 is published as a PDF publication. The Finnish Transport Infrastructure Agency updates the Network Statement as necessary and keeps capacity managers and known applicants for infrastructure capacity in the Finnish railway network up to date on the document. RINF data and the Finnish Transport Infrastructure Agency's register information have been used to create a map service giving information about the characteristic features of the Finnish railway network.

The 2023 Network Statement follows the general European content structure. The Network Statement comprises the following chapters:

1 General
2 Rail network
3 Access conditions
4 Capacity allocation
5 Services and charges
6 Use of the railway network
7 Service facilities

The Finnish Transport Infrastructure Agency is responsible for preparing the Network Statement. A large number of experts working in different sectors of the Finnish Transport Infrastructure Agency and outside the agency have been involved in the drafting process.

Helsinki, 10 December 2021

Finnish Transport Infrastructure Agency

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ANNEXES

Definitions, signals and abbreviations

ENNE is a railway traffic prediction and optimisation system.

Fintraffic Railway Ltd. is a subsidiary of the traffic control company Fintraffic, which provides railway traffic control and management services. Fintraffic's services include railway traffic control, traffic planning, capacity management, catenary system operating centre activities and passenger information services related to rail passenger traffic.

JKV is a class B system 'ATP-VR/RHK - Junankulunvalvonta (JKV)' under Appendix B to the technical specification for interoperability relating to the control-command and signalling subsystem of the trans-European conventional rail system of 28 March 2006.

JETI is a system for advance information on train traffic, in which the advance notifications of and information on changes affecting traffic are drafted, shared and maintained. Advance plans for track work carried out in the railway network and other advance plans are prepared and approved in this system. JETI is also used to reserve capacity on railway yards and main lines for storage of rolling stock, trials or other special needs.

Ad hoc infrastructure capacity means infrastructure capacity requested for temporary, short-term and varying train paths. Example: trains operating on individual days; machinery and trains with deviating routes or stopping behaviour.

KUPLA is an application for transmitting essential information to the train driver.

LIIKE is the system used for infrastructure capacity management in Finland.

Traffic Planning coordinates the state-owned railway network's track work in accordance with the FTIA's principles and guidelines for railway traffic. Traffic Planning plans track possessions as efficiently as possible and provides information and holds dialogue on these with stakeholders. Traffic Planning processes and approves the advance plans for track work, traffic safety plans and voltage cut-offs as well as maintains situation awareness on the traffic impacts of track work. In addition, during office hours Traffic Planning processes capacity requests for temporary storage at operating points. The service is provided by Fintraffic Railway Ltd.

Traffic control protects and secures operations and track work. Traffic control grants permits for track work and operations and gives notifications to them.

Traffic control company refers to Fintraffic Ltd. Most of the tasks of the traffic control company referred to in this Network Statement are performed by Fintraffic Railway Ltd, a subsidiary of the Group.

Museum train traffic means small-scale train traffic in the railway network by non-profit museum train associations. Museum trains mean rolling stock registered as museum trains in the Finnish Transport and Communications Agency Traficom's rolling stock register.

Through **OSS** (One Stop Shop), customers can manage all matters concerning international railway traffic, such as access to the railway network, requests for

international infrastructure capacity or reporting on operations. Each RNE member state has its own OSS. In Finland, the OSS also functions as a point of contact in matters concerning domestic railway operations. The email address of the point of contact is oss@ftia.fi.

Service applicant means a public or private association or operator, such as an infrastructure capacity applicant, a railway operator, a competent authority referred to in part IV, chapter 1, section 5 of the Act on Transport Services (320/2017), an educational institution providing education and training services, another service facility operator, or another party requiring services that is submitting an application to the service facility operator for rail traffic support and maintenance services provided by the service facility operator in question for its own use or for the use of another railway operator or for the use of another educational institution and to which the Commission Implementing Regulation (EU) 2017/2177 on access to service facilities and rail-related services applies.

Infrastructure management means the construction, maintenance and development of tracks, structures, equipment and systems connected with them, as well as the immovable property needed for infrastructure management.

RAILI is an integrated railway communication service, which can be accessed with VIRVE phones and smart phones containing the RAPLI application.

RAPLI is an application through which the RAILI service can be accessed with login information on smartphones in the general network.

Track work is work carried out in the railway network that requires the interruption of railway operations. In class 1 traffic control areas, track work requires a track work permit granted by traffic control. Railway operations are interrupted at the track work site for the duration of the validity of the track work permit. In class 2 traffic control areas, the track work permit is not granted by traffic control. Instead the track work manager is responsible for the track work and for ensuring that the work can be carried out without interruptions. The requirements for a track work permit are described in safety instructions for infrastructure management (TURO).

Under the Rail Transport Act, **infrastructure capacity** means the chance to use the railway network and to prepare timetables for train paths in the railway network. It can also be defined as the train traffic capacity on a train path during a certain period depending on the characteristic features of the railway network.

An applicant for infrastructure capacity means a railway operator, a competent authority referred to in Part IV, chapter 1, section 4 of the Act on Transport Services(320/2017) and shippers, forwarders, integrated transport operators and a railway sector training institute that wish to obtain infrastructure capacity for reasons related to the provision of a public service or for commercial reasons.

The **Rail Traffic Management Centre is** a national rail traffic control and management service that is part of the traffic control company. The service is provided by Fintraffic Railway Ltd.

Railway Information Extranet contains information for traffic control, supervisors, maintenance providers, constructors and operators that they need in infrastructure management and transport operations. Registration is required to access the site (in Finnish).

Railway network means the state-owned railway network managed by the Finnish Transport Infrastructure Agency.

Infrastructure manager means the Finnish Transport Infrastructure Agency or a railway infrastructure manager of a private siding coming under the Rail Transport Act.

RATO means the technical instructions for railway tracks, comprising the basic information on the design, inspection and maintenance of the tracks and track equipment. RATO is based on the regulations issued by the Finnish Transport and Communications Agency. RATO is published by the Finnish Transport Infrastructure Agency (The list is in Finnish).

Railway operator means railway undertakings, railway maintenance undertakings, infrastructure managers operating in the railway network and museum train traffic operators. Other companies and associations operating in the railway network for whom railway operations are not part of their core activities, are also railway operators.

Railway operations mean the services operated by a railway undertaking, operations related to railway maintenance, operations by a museum train traffic operator, a company or other association for whom railway operations are not part of their core activity, or the operations of an infrastructure manager in the railway network.

The **Railway Instructions** ('Rautatieohjeet' in Finnish) contain the regulations and instructions issued by the Finnish Transport Infrastructure Agency that are currently in effect. For an up-to-date list of the instructions, visit the agency's website (the list is in Finnish).

Railway undertaking means a company or other association, either public or under private law, whose main activity is to operate rail passenger or freight services. The company must have an appropriate licence issued in the European Economic Area and it is obliged to provide traction services. Undertakings providing only traction services are also considered as railway undertakings.

RINF or the Register of Infrastructure means the centralised EU-wide register of the Member States' railway infrastructure. In practice, RINF is made up of national registers (NREs). The Finnish Railway Register is abbreviated as NRE-FI. RINF is made up of collected data, which can basically be divided into data on the following topics: a) railway network; b) detailed railway network; c) railway line; d) line section; e) operational point; f) running track; and g) siding.

RNE (RailNetEurope) is a non-profit organisation of European railway infrastructure managers and bodies allocating infrastructure capacity. Its purpose is to promote international traffic in the European railway infrastructure. The Finnish Transport Infrastructure Agency rejoined the organisation in 2021.

RUMA or the mobile platform for track work contractors is an application for determining the location of a track work site, for describing the work, and for describing the restrictions remaining in effect after the work is completed.

SAAGA is the new information system for managing railway yard track capacity and line capacity. It will replace the capacity management functions of the LIIKE system as the SAAGA system expands nationally.

A line section with section block is a line divided into block sections. The traffic control system ensures that a train can safely enter a block section. Only one train may occupy a block section at a time. The system of block sections allows successive trains to move between traffic operating points.

Capacity for regular train services means infrastructure capacity requested for regular, long-term and identical train services. Example: services required all year round from Monday to Saturday or on each Tuesday and Thursday for three months.

TUTKA is the Finnish Transport Infrastructure Agency's information system for safety-related anomalies and risk management. Railway operators and the Finnish Transport Infrastructure Agency's service providers use this system to report safety-related anomalies to the Finnish Transport Infrastructure Agency.

TURO means safety instructions for infrastructure management. The Finnish Transport Infrastructure Agency publishes the instructions on its website (see the Railway Instructions).

VIRVE is a network based on TETRA technology supplying radio communication services for elevated security, safety and preparedness levels and for joint use by the authorities and operators using critical infrastructure that have been granted permission to use the network.

Private siding means a track not managed by the Finnish Transport Infrastructure Agency.

1 General

1.1 Introduction

The Finnish Transport Infrastructure Agency is a central government agency operating in the administrative branch of the Ministry of Transport and Communications. It is responsible for maintaining and developing the service level of the transport infrastructure administered by the State of Finland. The agency promotes the smooth functioning of the Finnish transport system, traffic safety, balanced regional development and sustainable development. The Finnish Transport Infrastructure Agency acts as the infrastructure manager for the state-owned railway network in Finland.

Provisions on the publication of the Network Statement are laid down in section 131 of the Rail Transport Act and in the Directive 2012/34/EU of the European Parliament and of the Council establishing a single European railway area. The Network Statement is published for each timetable period.

1.2 Purpose of the Network Statement

The Network Statement is published for applicants of infrastructure capacity. The Network Statement describes the access conditions, the state-owned railway network and its characteristic features, capacity allocation, services supplied to railway operators, and the charging principles concerning access to the railway network.

Applicants may request infrastructure capacity for domestic freight transport, for international transport within the European Economic Area, and for transit traffic between Finland and Russia.

1.3 Legal framework

1.3.1 Current legislation

As laid down in section 131 of the Rail Transport Act, the infrastructure manager must publish the provisions of the Rail Transport Act, as well the provisions and regulations issued under the act and other provisions that concern:

1. the right of access to the railway network
2. the principles of determining the infrastructure charges
3. requesting for infrastructure capacity and the related deadlines
4. the requirements for and authorisation of railway rolling stock
5. other matters concerning the management of railway operations and prerequisites for starting railway operations.

The infrastructure manager publishes the details on the characteristic features and extent of the railway network in the Network Statement for each timetable period. The information can be found in chapter 2 of this Network Statement. The following decisions issued by the infrastructure manager under the Rail Transport Act are also published in the Network Statement:

1. specialised infrastructure capacity (section 2.4.1)
2. order of priority applied to congested train paths (section 4.6)
3. threshold quota for the minimum use of infrastructure capacity on each train path (section 4.8.3).

1.3.2 Legal status

The Network Statement is a legally binding document in so far as it contains regulations on matters laid down in section 131 of the Rail Transport Act. Railway operators also pledge to comply with the Network Statement when signing network access agreements.

The information published in the Network Statement does not affect the instructions issued by the infrastructure manager or the regulations issued by the Finnish Transport and Communications Agency. The information on the third parties given in the Network Statement may also change during the timetable period. The Finnish Transport Infrastructure Agency reserves the right to transfer or change maintenance and development projects and charges pertaining to the railway network as a result of political decisions.

1.3.3 Appeal procedure

The appeals procedure concerning the infrastructure manager's decisions is described on the website of the Finnish Rail Regulatory Body. A claim for rectification must be submitted to the following Finnish Transport and Communications Agency address within 30 days of receipt of the infrastructure manager's decision: Rail Regulatory Body, PO Box 467, 00101 Helsinki, Finland or by email to kirjaamo@traficom.fi.

A claim for rectification may be submitted to the Rail Regulatory Body if the infrastructure manager's decision concerns the following matters laid down in the Rail Transport Act:

1) congested train path or part of it or order of priority (section 120)
2) allocation of infrastructure capacity (section 122)
3) allocation of ad hoc infrastructure capacity (section 123)
4) cancellation or withdrawal of infrastructure capacity (section 125)
5) infrastructure charge (section 139)
6) reductions and increases in the basic infrastructure charge (section 140)
7) additional charges (section 141).

1.4 Structure of the Network Statement

This Network Statement follows the common structure set for network statements by RailNetEurope (RNE). The purpose is to ensure that applicants requesting infrastructure capacity can find the same information in the same place in all network statements.

The Network Statement consists of seven chapters as well as appendices.

- Chapter 1 presents the Network Statement and the railway operators
- Chapter 2 describes the functional and technical characteristics of the railway network
- Chapter 3 describes the conditions for accessing the railway network
- Chapter 4 describes the process of allocating infrastructure capacity
- Chapter 5 describes the charges for using the railway network and the infrastructure services
- Chapter 6 describes the operations and traffic management in the state-owned railway network
- Chapter 7 describes the services provided for the users of the railway network.

The Network Statement contains appendices that provide more details of the characteristics of the railway network and other issues related to railway operations, as well as a separate map service describing the characteristic features of the railway network (in Finnish).

1.5 Validity, updating and publication of the Network Statement

1.5.1 Validity

The Network Statement is valid for one timetable period and it is published no later than four months before the expiry of the deadline for submitting capacity requests (12 months before the change of the timetable period). This Network Statement covers the timetable period 2023: 11 December 2022 - 9 December 2021. The Network Statement 2024 will be published no later than 9 December 2022.

1.5.2 Updates

Any changes to information in chapter 1.3 will be published on the website of the Finnish Transport Infrastructure Agency. Every effort is made to keep the Network Statement up to date. The most important changes of the year are introduced on two preliminary adjustment dates: at the beginning of December and June. The Finnish Transport Infrastructure Agency will consult the parties involved before introducing updates on these adjustment dates. There may be updates on the Network Statement and the appendices to it after the publication. The updates are published on the website of the Finnish Transport Infrastructure Agency.

This Network Statement contains references to the instructions issued by the infrastructure manager, which will also be updated during the timetable period as necessary. If there are any discrepancies between the instructions and the Network Statement, the valid instructions take precedence over the Network Statement.

1.5.3 Publication

The Network Statement is prepared in Finnish and published in Finnish and English. If there are any discrepancies between the language versions, the Network Statement published in Finnish takes precedence over other versions. The language versions of the Network Statement can be viewed and downloaded free of charge on the website of the Finnish Transport Infrastructure Agency: https://vayla.fi/en/service-providers/commercial-railway-transport/network-statement

1.6 Railway sector operators and contact information

The ownership/steering relationships between the Finnish railway sector operators are detailed on the website Finnish railway market -> Railway sector operators.

Finnish Transport Infrastructure Agency

The Finnish Transport Infrastructure Agency is responsible for maintaining and developing the state-owned transport infrastructure, and it acts as the manager of the state-owned railway network. The Finnish Transport Infrastructure Agency and Traffic control company Fintraffic Group have concluded a service agreement on the provision of traffic management and control services. The Finnish Transport Infrastructure Agency also purchases construction and maintenance work related to the infrastructure as well as regional property management services from private sector service providers.

PO Box 33 (Visiting address: Opastinsilta 12 A)
FI-00521 Helsinki
Email: kirjaamo(at)ftia.fi
Internet: www.vayla.fi

You can contact OSS in all matters concerning this Network Statement, market entry and railway traffic (oss(at)ftia.fi). For other contact information, see the Finnish Transport Infrastructure Agency website at www.ftia.fi.

You can give feedback on matters falling within the purview of the Finnish Transport Infrastructure Agency and Fintraffic Railway Ltd. via Traffic Customer Service.

Ministry of Transport and Communications

The Ministry of Transport and Communications prepares the legislation and the budget of its administrative branch in cooperation with the agencies in the administrative branch. The Finnish Transport Infrastructure Agency, the Finnish Transport and Communications Agency, and the Finnish Meteorological Institute are the agencies in the ministry's administrative branch. Traffic control company Fintraffic Ltd. is part of the ownership steering of the Ministry of Transport and Communications.

PO Box 31 (Visiting address: Eteläesplanadi 4)
FI-00023 Government

Email: kirjaamo(at)lvm.fi
Internet: www.lvm.fi

Transport and Communications Agency (Traficom)

The Finnish Transport and Communications Agency Traficom is a central government agency that operates in the administrative branch of the Ministry of Transport and Communications. It is responsible for the regulatory duties and permit matters in the field of transport and communications.

PO Box 320 (Opastinsilta 12 A)
FI-00101 Helsinki
Email: kirjaamo(at)traficom.fi
Internet: www.traficom.fi

Finnish Rail Regulatory Body

Railway regulatory bodies monitor, supervise and promote the smooth functioning of, and equilibrium and non-discrimination within, the rail market.

PO Box 467 (Opastinsilta 12 A)
FI-00101 Helsinki
Email: kirjaamo(at)traficom.fi and railregulator(at)traficom.fi
Internet: www.saantelyelin.fi

Rail transport purchasers

At the time of the publication of the Network Statement, there were two bodies purchasing rail transport services in Finland: Ministry of Transport and Communications and Helsinki Regional Transport (HSL). The HSL is a joint municipal authority acting as the competent authority referred to in the Regulation (EC) 1370/2007 of the European Parliament and of the Council, and in the Act on Transport Services. HSL is responsible for planning and providing public transport services in the Helsinki region and for drawing up the regional transport system plan.

PO Box 100 (Opastinsilta 6 A)
FI-00077 Helsinki
Email: hsl(at)hsl.fi (registry)
Internet: www.hsl.fi

Finnish Competition and Consumer Authority

The task of the Finnish Competition and Consumer Authority is to implement competition and consumer policy, ensure the proper functioning of the markets, enforce competition legislation and EU competition rules, and protect the financial and legal position of the consumers. The supervisory duties of the Consumer Ombudsman are also the responsibility of the agency.

PO Box 5 (Visiting address: Siltasaarenkatu 12 A)
FI-00531 Helsinki
Email: kirjaamo(at)kkv.fi
Internet: www.kkv.fi

Traffic control company Fintraffic Ltd

Fintraffic Railway Ltd. is responsible for the management and traffic control of railway traffic in accordance with the service agreement between the group and the Finnish Transport Infrastructure Agency. The agreement covers such railway traffic sectors as the control service, passenger information service, infrastructure capacity management service, catenary system use service, monitoring service for the railway network's technical systems, monitoring service for the railway network's safety systems, and the development and life cycle management of the railway network systems.

Palkkatilanportti 1
FI-00240 Helsinki
Email: viestinta(at)fintraffic.fi
Website: www.fintraffic.fi

MaaS (Mobility as a Service) operators

Under the Act on Transport Services, providers of road and rail passenger transport services, providers of brokering and dispatch services, or actors managing a ticket or payment system on behalf of the above parties must give mobility service providers and providers of integrated mobility services access to the sales interface of their ticket and payment systems, through which passengers may without restrictions: 1) purchase a ticket product at a basic price, which, at a minimum, entitles the passenger to a single trip; the travel right based on this ticket must be easily verifiable using generally applied technology; or 2) reserve a single trip or a transportation, the exact price of which is unknown when the service begins or which for some other reason will be paid by mutual agreement after the service has been provided.

Railway undertakings

At the time of the publication of the Network Statement, there were four railway undertakings operating in Finland: VR, Fenniarail, Operail Finland and Aurora Rail. The railway undertakings are responsible for the planning, marketing and sales of their services, for their operations and for real-time traffic control. In matters concerning licences, safety certificates and registration of rolling stock in Finland, a new railway undertaking can contact the Finnish Transport and Communications Agency Traficom and in matters concerning the use of the railway network, the Finnish Transport Infrastructure Agency.

Stock companies

The Metropolitan Area Rolling Stock Ltd owns the rolling stock required for passenger services in the Helsinki region (HSL region).

Infrastructure managers of private sidings

The links to the network statements published by the infrastructure managers of private sidings (in Finnish). can be found on the website of the Finnish Transport Infrastructure Agency. The private sidings are connected with the state-owned railway network in such areas as ports and in the vicinity of industrial facilities.

Station area development company Senate Station Properties Ltd

The company works together with cities and other municipalities to find the best way to ensure that each of the station areas managed by the company can make a maximum contribution to sustainable urban development in its area. The company primarily develops the station areas by means of land use planning so that the areas can be extensively used for residential building construction and business operations and as transport hubs. For more information on the development of station areas, go to www.asemanseutu.fi (in Finnish).

One Stop Shop (OSS)

Each member state has an RNE OSS contact point or contact person. Customers can select an OSS contact point or contact person with whom they can manage all matters concerning international rail traffic, such as network access, international path requests and operations as well as all matters concerning operations on the planned route (including cross-border services).

You can also contact the Finnish OSS for matters concerning domestic railway traffic. The email address for the OSS point is oss(at)ftia.fi.

For the addresses of the OSS contact persons of infrastructure managers, visit the website of RailNetEurope at www.rne.eu.

1.7 International cooperation between infrastructure managers

1.7.1 Rail freight corridors in Finland

Finland's railway network is not connected with the European-wide Rail Freight Corridors - network.

1.7.2 RailNetEurope

RailNetEurope (RNE) is a non-profit organisation of European railway infrastructure managers and bodies allocating infrastructure capacity. Its purpose is to promote international traffic in the European railway infrastructure.

Finland joined the RNE on 01 January 2021.

For links to the network statements published by the infrastructure managers of the other member states, see the website of RailNetEurope (RNE).

RNE IT Tools are not currently used in Finland.

1.7.3 Other international cooperation.

European Rail Infrastructure Managers (EIM) is a Brussels-based association representing the interests of the European railway infrastructure managers. The EIM is a lobbying organisation acknowledged in an EU Regulation and should be consulted by EU institutions. Through EIM, the Finnish Transport Infrastructure Agency can play a role in the preparation of the European railway legislation, both at the political and technical level. The Finnish Transport Infrastructure

Agency can influence the contents of the Fourth Railway Package, the technical specifications for interoperability and the common safety methods through both EIM and national channels.

PRIME (Platform for Rail Infrastructure Managers in Europe) is a joint platform between the Commission and infrastructure managers where the Commission and infrastructure managers proactively discuss the Commission's future legislative proposals. At the meetings, the parties also discuss the effectiveness of the current legislation.

2 Rail network

2.1 Introduction

The state-owned railway network managed by the Finnish Transport Infrastructure Agency is described in the Network Statement. The Finnish Transport Infrastructure Agency's infrastructure management comprises the planning, construction and maintenance of tracks and their structures and equipment as well as of the immovable property needed for infrastructure management.

Under the Commission Implementing Regulation (EU) 2019/777, the infrastructure manager must publish the up-to-date details of the infrastructure in a single web-based application. The state-owned railway network is described in the map service of the Network Statement , in the open data sets (in Finnish), in the Railway Information Extranet and in Appendices 2A–2M.

2.2 Extent of the railway network

2.2.1 Limits

The Network Statement describes Finland's state-owned railway network. The infrastructure available to railway operators is presented in this chapter. The description is identical with the descriptions found in railway infrastructure registers.

2.2.2 Connected railway networks

The railway networks of Finland and Sweden are connected in Tornio. The management of traffic on the line section Tornio–Haparanda is described in the Jt rules issued by the Finnish Transport Infrastructure Agency. The infrastructure manager in Sweden is the Swedish Transport Administration.

The railway networks of Finland and Russia are connected in Vainikkala, Imatrankoski, Niirala and Vartius. Provisions on the direct international railway traffic between Finland and Russia are laid out in the railway traffic agreement between the two countries. Railway traffic between Finland and Russia is not international traffic within the European Economic Area.

Under the Commission Decision of 20 February 2015, private sidings at ports with international trade and private sidings owned by VR are part of the Finnish local railway infrastructure of strategic importance, as referred to in Article 2(4) of the Railway Market Directive.

Pursuant to rail market regulation, ports became service facilities as a result of an amendment to the Rail Transport Act in February 2021.

Services provided by infrastructure managers and service facility operators are described in chapter 7.

2.3 Network description

The railway network infrastructure is detailed in the map service of the Network Statement, in open data sets, in the Railway Information Extranet and in the appendices to the Network Statement. Basic information on line sections is given in Appendix 2A.

2.3.1 Geographical description

Track typologies

In 2020, the state-owned railway network in Finland measured 5,918 km, of which 5,645 were in transport use. Of the tracks 5,226 km were single-tracks and 692 km had two or more adjacent tracks.

The double-track line sections are as follows:

- Leppävaara–Kirkkonummi
- Huopalahti–Havukoski
- Kytömaa–Ainola
- Purola–Riihimäki asema
- Sammalisto–Sääksjärvi
- Kouvola–Juurikorpi
- Pohjois-Louko–Seinäjoki asema–(Lapua)
- Kytömaa–Hakosilta
- Riihimäki asema–Luumäki
- Joutseno–Imatra tavara
- Tampere tavara–Lielahti
- Tampere Järvensivu–Orivesi
- Kokkola–Ylivieska

The three-track line sections are as follows:

- Riihimäki asema–Sammalisto
- Sääksjärvi–Tampere tavara

The four-track line sections are as follows:

- Ainola–Purola
- Helsinki asema–Leppävaara
- Helsinki asema–Kytömaa

2.3.2 Track gauges

The nominal track gauge in the railway network is 1,524 mm. The speed-dependent limit values for the track gauge are indicated in Traficom's document Rautatiejärjestelmän infrastruktuuriosajärjestelmä (Trafi/18116/03.04.02.00/2012).

2.3.3 Railway traffic points

The traffic operating points in the state-owned railway network are shown in Appendix 2B and in the map service. Track diagrams can be found in the Railway Information Extranet.

2.3.4 Loading gauge and structure gauge

The FIN1 loading gauge (KU, Appendix 2C) and the structure gauge (ATU, Appendix 2D) described in Annex F to the standard EN15273 are used throughout the railway network. On private sidings, there may be both loading and structure gauge limitations, and railway operators must clarify these matters separately before transport operations.

For more information on the structure gauge and the vehicle gauge (LKU), see part 2 'Radan geometria' and part 21 ' Liikkuva kalusto' of the Finnish Transport Infrastructure Agency's publication 'Ratatekniset ohjeet (RATO). For more information on the track work gauge, see TURO (safety instructions for infrastructure management) (in Finnish).

2.3.5 Weight limits

Axle loads

The axle load 225 kN is permitted in most parts of railway network. The maximum permitted axle loads on individual line sections and the maximum permitted speeds on different axle loads are shown in the map service of the Network Statement. The axle loads and restrictions applying to overweight loads and the wagons built in accordance with OSJD/GOST standards are described in Appendices 2E and 2F.

Metre load

The permitted rolling stock metre load throughout the state-owned railway network is 80 kN/m.

2.3.6 Gradient

On the main lines, the maximum dominant gradient is 20 mm/m. There are higher gradients in a number of places. On secondary lines, the maximum gradient is 22.5 mm/m. The maximum gradient on line sections measured over a distance of 1,200 metres is described in Appendix 2A.

The gradient between the traffic operating points Leinelä and Kivistö on the Ring Rail Line is 40 mm/m.

Line gradients on sidings at traffic operating points are shown in the track diagrams of the Railway Information Extranet.

2.3.7 Speed

The maximum speed for passenger trains is 220 km/h and for freight trains 120 km/h. The maximum speed on tracks without ATP is 80 km/h. The speeds permitted for passenger and freight trains in the railway network are shown in the map service of the Network Statement. The maximum permitted speeds for different rolling stock categories are given in Appendix 2G. The maximum permitted speeds in turnouts and standard diamond crossings on different superstructure categories are given in Appendix 2H. The maintenance provider may limit maximum permitted axle loads and speeds in accordance with the track condition.

2.3.8 Maximum train lengths

The maximum train length permitted on a line section must be such that trains can also use sidings at the traffic operating points on the line section. However, the train does not need to fit on the sidings of all traffic operating points, if other train schedules and incident management permit its operation. Trains with a length of 1,100 metres are allowed on the line section Vainikkala–Kotka/Hamina. The maximum useful length of the sidings at individual traffic operating points is shown in Appendix 2B and in the map service. The useful lengths of all interlocked tracks at traffic operating points are shown in the track diagrams (see Railway Information Extranet).

2.3.9 Power supply

The nominal voltage on electrified line sections is 25 kV/50 Hz AC. On all electrified line sections, power is taken from the contact line above the track so that one or both of the running rails and the return conductors form the return circuit. Neutral sections are located between the feeding sections of the contact line feeder stations, and rolling stock cannot collect current from the neutral sections. The main switch of the electric locomotive or electric train unit must be opened at the neutral sections. The electric traction units of the trains may not stop at neutral sections.

The maximum current supply capacity of the overhead line for electrically hauled stock is between 350 and 800 A. The available current depends on the number and location of the rolling stock using electric power simultaneously in the power supply area.

The fixed electrification installations are described in part 5 'Sähköistetty rata' of the publication 'Ratatekniset ohjeet' (RATO) (see the Railway Instructions).

The electrical equipment of the electric locomotives and train units is described in the regulation 'Rautateiden liikkuva kalusto' issued by Traficom (TRAFICOM/224601/03.04.02.00/2021). The regulation can be found in the Finlex service (in Finnish) and in part 21 'Liikkuva kalusto' of the instructions 'Ratatekniset ohjeet (RATO) issued by the Finnish Transport Infrastructure Agency (see the Railway Instructions).

All new electric traction stock must be equipped with an energy measurement system complying with invoicing requirements and the standard EN 50463-1…5 (2017). Data transmission to the Finnish Transport Infrastructure Agency's measurement and balance management system must comply with part 4 in Standard EN 50463. Data can also be transmitted in a UTILTS message.

Electrified line sections are shown in the map service and in Appendix 2A.

2.3.10 Signalling systems

The signalling systems used in the state-owned railway network are described in Appendix 2A, in the map service and in part 6 ('Turvalaitteet') of the publication 'Ratatekniset ohjeet' (see the Railway Instructions). The manuals for safety installations can be found in the Railway Information Extranet.

2.3.11 Traffic control systems

As part of the partnership agreement between the Finnish Transport Infrastructure Agency and Traffic Management Finland, Traffic Management Finland makes data system services and interfaces available to railway operators free of charge. Traffic Management Finland supplies the data and instructions required to use the data system services. Railway operators are responsible for the competence of their own staff and must arrange or purchase the training required to ensure the competence.

The infrastructure capacity management system is a key data system for operating rail services in Finland as the train driver's data terminal application (KUPLA) and the passenger information system rely on the data in the LIIKE system. LIIKE will be replaced with the SAAGA system in the next few years.

The line sections equipped with Centralised Traffic Control are shown in the map service However, on sidings and loading and storage sidings, units may have to secure routes locally.

The regulation 'Määräys ohjaus-, hallinta- ja merkinanto-osajärjestelmästä'; (TRAFICOM/251470/03.04.) issued by Traficom (in Finnish) is applied in the state-owned railway network. 02.00/2019).

Predicting train traffic (ENNE system)

ENNE is a railway traffic prediction and optimisation system. With ENNE, the traffic situation over the entire network can be predicted, which gives more time for decision-making. It also makes transport operations more energy-efficient. ENNE will be put into operational use in stages, starting in 2021.

In order to produce more accurate train traffic predictions, improve the effectiveness of the multi-actor environment, achieve smoother flow of traffic and better handling of disruptions, and to boost energy efficiency, railway undertakings must submit the following updated information to the infrastructure manager and the traffic control company (Fintraffic Railway Ltd.). The data must be submitted in a manner agreed between the parties (preferably via interfaces). Unless otherwise agreed, the data will be made available for operational traffic control. However, the data can also be used as a basis for predictions of train services, which can be made available to passengers and in open interfaces.

- Predicted train preparation times for departure from the site of departure or for a transfer to the site of departure, when the transfer has been scheduled.

- Requests for track changes at traffic operating points that are relevant to railway undertakings - The SAAGA system will be used in particular in Helsinki and Ilmala
- Reservations and needs for storage sidings in railway yards: advance notifications submitted in the SAAGA or JETI system or other agreement with Finrail Railway Ltd's traffic planning.
- Rolling stock circulation with SAAGA
- Inter-train dependencies (rolling stock, staff, passengers changing trains), shunting operations between Helsinki and Ilmala and Ilmala and Helsinki as well as shunting operations at other stations (if their number differs from that given to the train). Shunting operations between Ilmala and Helsinki are requested as capacity; in other places the aim is also to include shunting operations in the capacity.
- Changes in inter-train dependencies in operational situations
- Temporary train-specific speed limits due to partial rolling stock malfunctions or replacements if new capacity cannot be requested or if traffic control is not aware of the malfunctions
- Changeover of freight train crews (when there is no other need to stop)
- Changes in commercial stops (additional stops or withdrawal of stops, including crew changeovers)
- Estimated repair times given by the train drivers when, after the ready-to-depart notification, the train is unable to proceed or the rolling stock breaks down on the line
- Travel time predictions produced by the driver's energy efficiency system or by the drivers if they are significantly longer than scheduled or targeted
- Rolling stock running qualities (tractive effort, rolling resistance, drag)
- More detailed rolling stock location data, if available (such as D-GPS or odometer etc.)

Advance Information System (JETI)

Information on anomalies is provided via the Advance Information System (JETI) (in Finnish), maintained by the traffic control company, and through notifications given by the traffic control. Real-time information on track work and train operations is maintained in JETI. Track work managers and train drivers must have knowledge of the advance notifications and contact details for traffic control that are valid for the duration of the work site/journey and in the working area/line sections of the journey.

Train drivers' data terminal application (KUPLA)

The infrastructure manager requires that the train drivers' terminal application (KUPLA) is used in all units operated in train traffic as well as in units used for shunting operations between traffic operating points.

The parties must separately agree on operator-specific interfaces and services and the charges payable for them. Connecting a railway operator's DAS system with the KUPLA system via an interface is an example of an operator-specific interface.

For more detailed descriptions of the technical requirements of the train drivers' terminal application (KUPLA)) and the principles for purchasing and using the application, visit the website of the traffic control company (in Finnish).

Railway contractors' mobile platform (RUMA)

In the infrastructure manager's class 1 traffic control area, the RUMA application must be used for track work performed with the permission of traffic control. RUMA is used to locate the track work managers, contact persons of track work teams and track construction/maintenance machines. RUMA is also used to submit track work notices as well as to report traffic restrictions and voltage cut offs. The data in the RUMA application can be integrated in the LIIKE system by adding a link to the RUMA application map in the planning graphics. The advance plans and yearly plans made in the JETI system are also presented in the RUMA application (in Finnish). The requirements for using the RUMA application in connection with track work are specified in the safety instructions for infrastructure management (TURO; in Finnish).

TUTKA

Railway operators and the infrastructure manager's service providers use the TUTKA system to report safety-related anomalies to the infrastructure manager. The TUTKA system is managed by the Finnish Transport Infrastructure Agency. Read more about the TUTKA system (The information is in Finnish).

2.3.12 Communication systems

Differential Global Navigation Satellite System (RAILI)

The RAILI service is only used for communications related to traffic safety.

The integrated railway communications system RAILI can be used on VIRVE phones and smart phones. For use on smart phones, the RAPLI application must be installed. The VIRVE network is used for communications between trains and traffic control. Railway operators wishing to install VIRVE phones in their rolling stock to which train traffic rules apply must submit an application for a **VIRVE licence** to Traficom. For more information on the system, see Appendix 2J (Use of the VIRVE network in train traffic).

Railway operators must obtain a **permit to use the RAILI service** from the Finnish Transport Infrastructure Agency and familiarise themselves with the permit conditions of the service (in Finnish) (see the Railway Instructions). In addition to the VIRVE network, other commercial networks can also be used in the communications between shunting foremen and traffic control and between track work managers and traffic control on the basis of the RAPLI application referred to above. For more information on traffic communications, visit the website of the Finnish Transport Infrastructure Agency (in Finnish).

Traficom issues regulations on such matters as traffic operations, track work and communications. All valid regulations can be found in the Finlex service (in Finnish).

The Finnish Transport Infrastructure Agency issues instructions supplementing regulations on traffic control, railway operations, track work, other work carried out on the tracks and communications. All valid instructions can be found on the website of the Finnish Transport Infrastructure Agency (see the Railway Instructions). For contact information for traffic control, see the Extranet site of the Finnish Transport Infrastructure Agency.

2.3.13 Train control systems

Automatic Train Protection (ATP) is a system that supervises compliance with speed restrictions and signalling.

Locomotives running on the State railway network must have an ATC locomotive device that conforms to the specifications of Finnish Class B (ATP-VT/RHK) or a combination of a European TCS locomotive device and telecommunications adapter module (ETCS+STM) that offers equivalent functionality. For information about the availability and terms of delivery of the on-board units meeting the requirements of the class B Finnish system (ATP-VR/RHK), contact Bombardier Transportation Finland Oy. For information about the availability and terms of delivery of the ETCS+STM combination, contact Bombardier Transportation Finland Oy or Hitachi Rail STS.

The special permit referred to in section 41 of the Rail Transport Act is required for operations without an ATP on-board unit or similar equipment. Traficom may grant a special permit provided that the operations do not endanger the safety of the rail system. In cases concerning the use of an ATP on-board unit, a fixed-term special permit may be granted if the case involves a need for exceptional and temporary train services or if an ATP on-board unit or spare parts for the equipment are not available. No special permits are granted to train units or locomotives that are used in passenger or commercial freight traffic not directly connected with infrastructure management. No ATP on-board unit is required for rolling stock that is only used for shunting.

More information on ATP systems and operations and on instructions applying to museum train traffic are provided in the regulations issued by Traficom (in Finnish).

2.4 Traffic restrictions

2.4.1 Specialised rail capacity

Under section 118 of the Rail Transport Act and Article 49 of the Railway Market Directive, the infrastructure manager may designate a train path or a part of it as specialised infrastructure if there are sufficient alternative train paths for other traffic. Specialised infrastructure means a train path or a part of it on which priority is given to the traffic for which the infrastructure is intended.

The following train paths in Finland are designated as specialised infrastructure: Helsinki–Kerava (easternmost track and eastern middle track), Helsinki–Leppävaara (southernmost track and southern middle track) and Huopalahti–Havukoski (both tracks). These urban tracks are primarily reserved for Helsinki region commuter traffic. Passenger trains may not use the line section Kerava–Vuosaari and freight trains may not use the line section Havukoski–Huopalahti. Platform tracks 1–4 and 13–19 at the Helsinki Central Railway Station are also designated as specialised infrastructure and reserved for Helsinki region commuter traffic. Access to tracks 4 and 13–16 in particular requires coordination between applicants.

2.4.2 Restrictions relating to the environment

The regulations and instructions issued by the Finnish Transport and Communications Agency Traficom apply to the registration of rolling stock. The regulations set out general and special requirements for rolling stock concerning noise, vibration, electromagnetic interference, emissions, environmentally hazardous substances and the use of recycled construction materials. For more information about the regulations, visit the website of the Finnish Transport and Communications Agency Traficom (The information is in Finnish).

Speed restrictions prompted by vibration have been introduced in different parts of Finland. The restrictions mainly apply to heavy trains with a gross weight exceeding 3,000 tonnes. The vibration-related speed restrictions are presented in Appendix 2K.

2.4.3 Dangerous goods

Provisions, regulations and supervision

The following legislation and regulations apply to the domestic transport of dangerous goods: the Act on the Transport of Dangerous Goods (719/1994), which applies to all transport modes, the Government Decree on the Transport of Dangerous Goods by Rail (195/2002) and the regulation on the carriage of dangerous goods by rail issued by the Finnish Transport and Communications Agency Traficom (in Finnish).

The appendix to the regulation contains detailed provisions on such matters as the classification of dangerous goods, packaging, required documentation and equipment, excepted quantities, markings in the bill of lading and on the packages, as well as placarding and marking of vehicles/wagons.

Finland's national regulations on transport by rail are based on the international RID regulations.

The Finnish Transport and Communications Agency Traficom supervises the carriage of dangerous goods by rail and the related temporary storage. Dangerous goods arriving to and departing from Finland by rail and the related temporary storage are also supervised by the Finnish Customs and the Finnish Border Guard in their respective areas of responsibility. In these cases, too, Traficom is primarily responsible for supervising the operations.

Under the orders of the infrastructure manager, wagons loaded with dangerous goods may only be temporarily stored in railway yards designated by the Finnish Transport and Communications Agency Traficom as railway yards handling such goods (See Appendix 2B). In addition, under section 27 of the Government Decree on the Transport of Dangerous Goods by Rail (195/2002), the infrastructure manager and the transport operator may agree on a fixed location for temporary storage related to transport. The storage locations agreed on with the Finnish Transport Infrastructure Agency are listed in Appendix 7J.

Railway yards handling dangerous good are primarily used for the temporarily storing wagons loaded with dangerous goods. In case of congestion of dangerous goods transports, or if there are other needs for storing dangerous goods, other rolling stock must be moved elsewhere at the request of the infrastructure

manager. Transport undertakings must notify the traffic control, the Rail Traffic Management Centre and local rescue authorities of storing wagons loaded with dangerous goods and they are also responsible for handling the cargo and for ensuring that the wagons remain stationary. For more information about the notification obligation, see the rules 'Junaliikenteen ja vaihtotyön turvallisuussäännöt' (Jt) (see the Railway Instructions). All cleaning of the rolling stock, cleaning of leakages and other cleaning must be separately agreed on with the rescue authorities, the local environmental authorities and the infrastructure manager.

Legislation on the handling of dangerous goods is currently undergoing a reform.

Special agreements

RID special agreements signed by the countries involved in the transport operation may also be applied to the carriage of dangerous goods.

An RID special agreement signed by Finland may also be applied to domestic rail transports of dangerous goods. At present, there are no valid RID special agreements signed by Finland.

Safety advisor

Companies transporting or loading dangerous goods or whose operations otherwise impact the safe transport of these goods by road and/or by rail must appoint a safety advisor specifically trained for the task. The person appointed as the safety advisor must pass an examination, in which Traficom serves as the examiner.

Provisions on the safety advisor are laid down in the Government Decree on the Safety Adviser for the Transport of Dangerous Goods by Road and Rail (274/2002).

Conventions on international carriage of dangerous goods by rail

Up-to-date information about the conventions on international carriage of dangerous goods by rail can be found on the Traficom website.

VAK-ratapihat

In accordance with the 'Junaliikenteen ja vaihtotyön turvallisuussäännöt' (Jt rules), the Traficom has designated the following railway yards as national railway yards handling dangerous goods: Hamina, Joensuu (Joensuu Sulkulahti and Joensuu Peltola), Kokkola, Kotka (Kotka Mussalo and Kotolahti), Kouvola (Kouvola tavara and Kouvola lajittelu), Niirala, Oulu (Oulu tavara and Oulu Nokela), Riihimäki (Riihimäki tavara), Sköldvik, Tampere (Tampere Viinikka and Tampere tavara), Turku (Turku asema), Vainikkala and Ykspihlaja (Ykspihlaja tavara and Ykspihlaja väliratapiha).

Operators using these railway yards must be thoroughly familiar with the obligations laid down in the legislation on the carriage of dangerous goods by rail and the safety assessments carried out in the railway yards. Traficom inspects the railway yards designated to handle dangerous goods at least every three years. If necessary, the parties involved must participate in joint exercises in the area, the time and duration of which must be agreed on separately.

Steam locomotives may not be used in the Sköldvik railway yard. For more information about operations in railway yards handling dangerous goods, see the Jt rules (see the Railway Instructions).

2.4.4 Tunnel restrictions

The tunnel restrictions on the line sections Helsinki–Turku and Orivesi–Jyväskylä are described in Appendix 2K.

Only freight trains and track work machinery may use the tunnels of the Vuosaari line. Passenger transport and the use of steam locomotives is prohibited in the tunnels of the Vuosaari line.

Only passenger trains and track work machinery may use the tunnel of the Ring Rail Line. Passenger trains between the traffic operating points Leinelä and Kivistö may only be operated with electric traction units. Occasional diesel locomotive transfers are permitted. Steam locomotives may not use this line section.

2.4.5 Bridge restrictions

Bridge restrictions are described in Appendix 2K.

2.4.6 Other restrictions

The axle loads and restrictions applicable to the carriage of overweight loads and wagons built in accordance with OSJD/GOST standards are described in Appendices 2E and 2F.

The substations of the electrified line sections have a limited capacity to supply power to the contact line. The power supply will shut down automatically in overload situations, which will cause a temporary power failure in the contact line. The nominal power of each feeder station is available for electric train operations in the feeding section. If the maximum power taken by electric trains in the feeding section exceeds the normal demand, the protection built into the electrified railway network will minimise the damage caused by the overload.

In the Helsinki region commuter area, the maximum input power of the electric trains substantially exceeds the maximum power supply available on the line sections. Thus, to ensure the safety of the electrified railway network and to prevent malfunctions, the protection built into the feeder stations may cause feeder station switches to be momentarily disconnected. As a rule, the switches are disconnected because of excessive power demand by the electric rolling stock units running in the railway network.

2.5 Availability of the infrastructure

The restrictions affecting traffic are described in Appendices 2K and 2L and in the JETI system. Track work, causing traffic restrictions is described in Appendix 2M.

Traffic control service hours at individual traffic operating points are listed in the LIIKE/SAAGA application.

Intensified maintenance helps to keep a number of line sections with low traffic levels in operable condition. The technical condition of a line section at the end of its life-cycle may, however, deteriorate rapidly and the maintenance provider may have to impose significant traffic restrictions on the line section. Applicants for infrastructure capacity must be prepared for traffic restrictions and even service breaks on the following line sections:

- Pesiökylä–Ämmänsaari
- Saarijärvi–Haapajärvi
- Mynttilä–Ristiina
- Niinisalo–Parkano
- (Lahti)–Loviisa, especially the section Orimattila, 150+407 – Lapinjärvi, 185+432
- (Raisio)–Naantali
- (Ihala)–Viheriäinen
- Seinäjoki-Kaskinen, operation permitted with an axle load of 200 kN
- Olli-Porvoo, museum traffic only

The following line sections are closed to traffic:

- Aittaluoto–Niinisalo
- Parkano–Haapamäki
- Pesiökylä–Taivalkoski
- Kolari–Äkäsjoki
- Niesa–Rautuvaara
- Kiukainen–Säkylä
- Isokylä–Kelloselkä
- Lautiosaari–Elijärvi
- Lohja–Lohjanjärvi
- Otava–Otavan satama
- Yläkoski–Iisvesi
- Rantasalmi–Savonlinna
- The enhanced maintenance of the Ahonkylä (approximately km 425+000) - Kaskinen (km 530+522) section of the (Seinäjoki)-Kaskinen railway line will be continued until the new loading facilities are completed/at most until the end of 2024.
- Joutjärvi–Mukkula (maintenance restricted starting 1 January 2023)
- Lieksa–Pankakoski (maintenance restricted starting 1 January 2023)
- Mänttä-Vilppula (maintenance restricted starting 1 January 2023)

The infrastructure manager will provide information on changes introduced during the timetable period by separate decisions, which will be listed on the website of the Finnish Transport Infrastructure Agency .

The impacts of track work on infrastructure capacity are described in chapter 4.3.

2.6 Infrastructure development

National Transport System Plan

The first 12-year National Transport System Plan, the Transport12 plan was adopted by Parliament on 1 July 2021. The plan was prepared under the guidance

of a parliamentary steering group and in extensive interaction with stakeholders. The current plan extends from 2021 to 2032 and the plan will be updated every four years for 12 years at a time. The plan was prepared in accordance with the General Government Fiscal Plan for 2021-2024 and budgetary decisions for 2021-2024. The central government expenditure presented in the plan is an estimate and its implementation will depend on future budgetary decisions.

The National Transport System Plan for 2021-2032 is a strategic plan for developing the transport system. It has been drawn up in accordance with section 15b of the Highways Act (503/2005). The National Transport System Plan contains a description of the current state of the transport system and changes in the operating environment, a vision for the development of the transport system until 2050, the objectives set for the plan and the strategic guidelines specifying these and the strategic guidelines for the attainment of the objectives set out in the programme containing measures by the state and municipalities. The plan also includes the state funding programme and a summary of the impact assessment.

Website of the national transport system plan (in Finnish).

Strategic situational picture for the transport network

A transport system analysis is maintained for the needs of the National Transport System Plan, one part of which is the strategic situational picture of the transport network. The strategic situational picture describes such things as, the state of transport networks and the most significant challenges at the national level. The situational picture is updated 1-2 times a year. Traficom and the Finnish Transport Infrastructure Agency are responsible for compiling the situational picture.

Strategic situational picture of the transport network on the Traficom website.

Transport network investment programme

According to the National Transport System Plan, the Finnish Transport Infrastructure Agency is responsible for preparing an investment programme for state-owned transport infrastructure for the next 6-8 years based on the objectives, criteria and funding levels of the transport infrastructure planning programme and National Transport System Plan, the needs identified in the transport network's strategic situational picture and the quality requirements laid down in infrastructure legislation. The investment programme covers both large development investments and smaller improvement projects implemented with funding for basic infrastructure management. This is a concrete formulation of the National Transport System Plan for the implementation and funding of the projects and will be used in the preparation of the budget proposals. The investment programme does not alter Parliament's competence in the preparation of the budget, and Parliament remains responsible for budgetary decisions. The investment programme is updated each year. The Finnish Transport Infrastructure Agency takes into account the most significant service level deficiencies in road and rail traffic and engages in open and transparent interaction with stakeholders in the preparation of the investment programme, such as municipalities and regions responsible for land use, and business operators.

The transport network investment programme for the period 2023–2030 was published in June 2022. The investment programme will be approved by the FTIA Management Team. The draft investment programme for 2024–2031 was circulated for comments in February 2023 and published in April 2023.

Investment programme of the Finnish Transport Infrastructure Agency

Transport infrastructure planning programme

The transport infrastructure planning programme contains information on the planning of railway infrastructure carried out in the Finnish Transport Infrastructure Agency. Programming of the projects ensures adequate and timely planning preparedness for transport infrastructure investments before decisions are made. As a rule, no decisions have yet been made on Budget funding for the infrastructure projects listed in the planning programme. The planning programme is prepared on an annual basis.

Planning programme of the Finnish Transport Infrastructure Agency

Service level of the arterial railways

The Ministry of Transport and Communications decree on arterial routes and their service levels entered into force on 1 January 2019. Under the decree, the infrastructure manager must maintain a sufficient service level on the arterial railways, taking into account the significance of each railway line for the transport system. Arterial railway routes are categorised as passenger and goods routes based on their primary traffic profile. The decree lays down requirements for speed limits and axle loads.

Decree on Arterial Routes and their Service Levels (in Finnish).

Reports on the railway network

The Finnish Transport Infrastructure Agency acts as an expert on matters concerning the railway network and examines the issue from different perspectives. To keep the overall picture up to date, the agency regularly produces reports on a wide range of different topics, which can be found in its publications. The entire railway network is examined from time to time in these reports. The most recent report on the network as a whole was the "Target development picture of the railway network to 2050." completed in 2021, which is the basis for the preparation of the Transport12 plan. The report has partly become obsolete.

Railway network development and improvement projects

The following development projects will be underway in the Finnish railway network in 2023:

- Capacity improvement on the line section Helsinki–Riihimäki (stages 1 and 2)
- Service level improvement of the line section Luumäki–Imatra 2017–2023
- Electrification of the line sections Iisalmi–Ylivieska, Hyvinkää–Hanko, and Tornio–Haparanda.
- Iisalmen kolmioraide
- Renovation and capacity improvement of the line sections Kouvola–Kotka–Hamina

- Removal of level crossings on the line section Pori–Tampere
- Joensuu railway yard improvement
- Espoo City Railway
- Start of the renovation of the line section Helsinki–Tampere
- Kuopio railway yard improvement
- Improvement of the line section Kontiomäki–Pesiökylä
- Oritkari triangle track
- Rail links to the Kemi bioproduct mill
- Electrification of the line section Laurila–Tornio–Haparanda
- Turku railway yard and Kupittaa–Turku double track
- Improvement of the line section Tampere–Jyväskylä
- Digirata project development and verification phase

Reduction of the maintenance backlog in 2023

- Railway network renovations (lines, turnouts, bridges and safety installations)
- Repairs of areas with ground frost damage and soft soils on the main railway network
- Improving safety at level crossings
- Oulu railway yard improvement
- Renovation of the line section Tampere–Jyväskylä
- Renovation and improving safety at level crossings on the line section Kontiomäki–Vuokatti
- Improvements at timber loading facilities

3 Access conditions

3.1 Introduction

Chapter 3 describes the conditions for accessing the railway network and for operating rail services. The licence, the railway operator's safety certificate, allocated infrastructure capacity and a network access agreement are the requirements for operating rail services. The rolling stock authorisation process and matters concerning the qualifications of traffic safety staff are also described in this chapter.

The stages of the market access are described at www.finnish railway market.fi -> Railway sector operators.

3.2 General access conditions

The conditions for accessing the railway network are described in section 113 of the Rail Transport Act and Article 10 of the Railway Market Directive. The state rail network must comply with Traficom's regulations and the Finnish Transport Infrastructure Agency's instructions. Information on currently valid regulations available on the Finlex website and on the Traficom website. The instructions issued by the Finnish Transport Infrastructure Agency are listed on the Finnish Transport Infrastructure Agency website (see the Railway Instructions).

The Government Decree on the Interoperability of the Rail System (284/2019) (in Finnish) contains provisions on the essential requirements for the rail system.

A railway undertaking may only operate in the state-owned railway network if it meets the following conditions:

1. The railway undertaking must have a licence granted by the Finnish Transport and Communications Agency Traficom and meeting the requirements laid down in the Act on Transport Services or a corresponding licence issued in the European Economic Area.
2. The railway operator must have a safety certificate referred to in the Rail Transport Act that has been issued or approved by the Finnish Transport and Communications Agency Traficom and that covers the train paths on which operations are planned.
3. Infrastructure capacity has been allocated to the railway operator for the planned traffic.
4. The railway undertaking has concluded a network access agreement with the Finnish Transport Infrastructure Agency.
5. All other conditions for operating rail services, laid down in and under the Rail Transport Act, are met.

Locomotives operating in the state-owned railway network must be equipped with a functioning ATP on-board unit. This requirement does not apply to units to which the Finnish Transport and Communications Agency Traficom has granted an exemption to operate without the equipment in question, or units to which the requirement of installing ATP equipment does not apply.

Museum train traffic

Except for the licence, all requirements applying to rail traffic described in this Network Statement also apply to museum train traffic. A museum train traffic operator must have a safety certificate issued by the Finnish Transport and Communications Agency Traficom. The certificate is issued on application for a maximum of five years at a time. The infrastructure manager requires that museum train traffic operators also conclude access agreements for each timetable period. Museum train traffic operators may only request ad hoc infrastructure capacity.

3.2.1 Requirements for applying for infrastructure capacity

Under section 4, paragraph 27 of the Rail Transport Act, infrastructure capacity can be requested by railway operators, competent authorities referred to in part IV, chapter 1, section 4 of the Act on Transport Services (320/2017), shippers, forwarders, integrated transport operators and railway sector training institutes that wish to obtain infrastructure capacity for reasons related to the provision of a public service or for commercial reasons.

In practice, data systems for infrastructure capacity management allow parties other than railway operators to request capacity for regular services. The party requesting infrastructure capacity must, no later than in connection with the publication of the annual capacity allocation decision for regular services, give the Finnish Transport Infrastructure Agency (kirjaamo(at)ftia.fi) the name of the operator using the allocated capacity and meeting the requirements for railway operations referred to in section 3.2 and hand over the capacity to the operator in the LIIKE system. Ad hoc infrastructure capacity may only be requested by railway operators.

Under section 125 of the Rail Transport Act, parties possessing infrastructure capacity that are not railway operators may hand over the infrastructure capacity granted to them to a railway operator for business operations. A party possessing infrastructure capacity may not otherwise hand over allocated infrastructure capacity to other parties and infrastructure capacity may not be traded.

3.2.2 Conditions for accessing railway infrastructure

A railway undertaking referred to in the Rail Transport Act may use the state-owned railway network for railway operations in domestic passenger and freight traffic and for international rail traffic between countries belonging to the European Economic Area.

These railway undertakings may access the railway network in accordance with the Rail Transport Act and the traffic operating points in the state-owned railway network for their services in accordance with the network access agreement. Other railway operators may also use the state-owned railway network, provided that an agreement on the operations has been concluded with the infrastructure manager.

3.2.3 Licence

Provisions on the granting of the licence are laid down in Article 25 of the Railway Market Directive and in chapter 6 of the Act on Transport Services.

A railway undertaking may only operate rail services if it has been granted a licence by the licensing authority. Traficom issues the licences for operating railway services to applicants established in Finland. Licences issued in another member state of the European Economic Area are also accepted and a copy of the licence must also be sent to Traficom.

3.2.4 Safety certificates

Under section 18 of the Rail Transport Act, only a railway operator holding a safety certificate for operating railway services may operate on the railway network. With the safety certificate, the railway operator demonstrates that it has a safety management system in place that complies with the requirements and is able to comply with the applicable safety regulations and rules.

If the applicant only intends to operate rail transport in Finland, they may apply for a safety certificate in accordance with section 19 of the Rail Transport Act from the Traficom or the EU Agency. If the applicant intends to operate rail services in the territory of two or more EEA States, they must apply for a safety certificate from an EU Agency. In this case, EU Agency refers to the European Union Agency for Railways (ERA).

A safety certificate will not be required for the movement of a vehicle for the purpose of transport of vehicles related to loading, repair or maintenance services and for which access to infrastructure or part of the infrastructure has been closed by the infrastructure manager or infrastructure managers and they have provided instructions on the procedures for movement in the closed area.

If a railway undertaking operates a railway service within the meaning of the Agreement between the Government of the Republic of Finland and the Government of the Russian Federation on direct international rail transport (Agreement 85/2016) only between the national border and the railway border station and on tracks located at the railway border station, and if a railway undertaking is registered in a country other than the EEA, it does not need a safety certificate.

The matters related to security certificates referred to above are described in more detail and explained in the instructions for applying for a safety certificate issued by Traficom.

Read more about applying for a safety certificate.

3.2.5 Obligation to have insurance cover

Under Article 22 of the Railway Market Directive and section 53, subsection 3 of the Act on Transport Services, the railway operator must have adequate insurance cover or make equivalent arrangements for situations in which damage is caused to third parties and the railway operator is liable for the damage under the law or an agreement. The nature and scope of the operations and the risks arising from the operations must be taken into account when the adequacy of the insurance cover or similar arrangements are assessed. The insurance cover

or equivalent arrangements must be valid for the whole duration of the operations. For more information on the matter, see the guidelines on liability insurance issued by the Finnish Transport and Communications Agency Traficom (in Finnish).

3.3 Network access agreements

3.3.1 Framework agreement

Provisions on framework agreements are laid down in Articles 38 and 42 of the Railway Market Directive, in Commission Implementing Regulation 2016/545/EU, and in section 116 of the Rail Transport Act.

The infrastructure manager may conclude a framework agreement on the use of the infrastructure capacity with the applicant for capacity. The purpose of the agreement is to specify the characteristics of the infrastructure capacity required by the applicant. However, the framework agreement does not entitle the applicant to obtain the infrastructure capacity set out in the agreement.

Railway undertakings need to apply for the infrastructure capacity specified in their framework agreement separately for each timetable period. The infrastructure manager also allocates the infrastructure capacity specified in the framework agreement in accordance with the procedure described in the Rail Transport Act. Correspondingly, the network access agreement is concluded for each timetable period separately regardless of the framework agreement. The framework agreement notwithstanding, the provisions of the Rail Transport Act can be applied to other applicants for infrastructure capacity.

The framework agreement is concluded for a maximum of five years. For special reasons, the infrastructure manager may, however, also conclude framework agreements for longer periods. Framework agreements concluded for more than five years must, however, be based on agreements, special investments or special business risks connected with the transport business of the party with which the agreement is concluded. They may also be based on large-scale long-term investments of the party with which the agreement is concluded and the contractual obligations arising from such activities.

The Finnish Transport Infrastructure Agency does not currently conclude framework agreements.

3.3.2 Other agreements

Provisions on the agreements between the infrastructure manager and applicants for infrastructure capacity are laid down in section 129 of the Rail Transport Act and Articles 28, 38(3) and 41(1) of the Railway Market Directive.

Rail network access agreement

Railway undertakings and museum train traffic operators must conclude an agreement with the infrastructure manager on the access to the state-owned railway network and on the use of the services required for railway operations. such as railway infrastructure, tracks and traffic control services. The parties may also agree on other practical arrangements concerning railway operations.

The railway operator should contact the infrastructure manager to prepare the access agreement and contractual negotiations at an early stage, preferably before requesting infrastructure capacity. The access agreement is concluded separately for each timetable period and it can be changed if required by decisions concerning capacity allocation made during the timetable period or other matters concerning the condition or accessibility of the railway network. The access agreement can only be concluded after all conditions on operating rail services specified in the Rail Transport Act have been met. Transport operation can begin after a rail network access agreement has been signed and infrastructure capacity allocated.

Agreement on access to individual traffic operating points

A railway operator, for whom operations in the state-owned railway network are not part of its core activities, must conclude an access agreement with the infrastructure manager on using the state-owned railway network or individual traffic operating points before starting railway operations. The agreement is concluded for one timetable period. A railway operator wishing to conclude an access agreement must send a free-form application to the infrastructure manager (kirjaamo(at)ftia.fi) well before the start date of the planned operations. A separate application must be submitted for each timetable period.

Railway yard agreement

At traffic operating points with more than one railway operator, the parties must conclude a railway yard agreement, if necessary. The agreement sets out the common rules for the railway yard and for access to and operation of tracks in the railway yard. The railway yard agreement is appended to the network access agreement and A railway yard agreement is drawn up for each timetable period. The infrastructure manager convenes the parties to negotiate on the railway yard agreement. ~~The aim of the infrastructure manager is to develop information systems (SAAGA) for railway yard capacity allocation so that separate railway yard agreements would no longer be needed.~~

Network access agreements with maintenance undertakings

Maintenance contractors that have a valid maintenance agreement with the infrastructure manager (or the subcontractor of the maintenance provider of the infrastructure manager) do not need a separate network access agreement for the activities falling within the scope of the maintenance agreement because the maintenance agreement also grants them access to the infrastructure. The contractors must contact the infrastructure manager so that it can be determined whether an access agreement for the activities outside the scope of the maintenance agreement or other similar agreement concluded with the infrastructure manager can be determined.

Agreement on storing rolling stock on the tracks of the state-owned railway network

The need and the right to access railway yard tracks are discussed and agreed in the access agreement. In a multi-operator environment, railway yard agreements may be concluded with all operators at the traffic operating point or in the railway yard in question. The JETI system may also be used to request track reservations from Fintraffic Railway Ltd's traffic planning for temporary storage

of rolling stock. Longer-term storage is examined separately on a case-by-case basis. For more information, see Appendix 7H. Storage must be temporary, and it may not interfere with other operators' activities at the traffic operating point or in the railway yard. If the situation so requires, the rolling stock must be moved to a storage location assigned by the infrastructure manager within a reasonable time frame.

If a museum train traffic operator needs to store its rolling stock in the state-owned railway network, an agreement on the storage of the rolling stock must be concluded with the infrastructure manager. The need for such an agreement is always determined on a case-by-case basis and the infrastructure manager may refuse to conclude the agreement on reasonable grounds. Applications for the agreement must be sent to: kirjaamo(at)ftia.fi.

Agreement between infrastructure managers

The agreement between infrastructure managers contains provisions on traffic between railway networks, traffic control, the dividing line between railway networks and its ownership and maintenance, as well as on the cooperation between infrastructure managers. In order to enter into such an agreement, a private infrastructure manager must submit a free-form request to the Finnish Transport Infrastructure Agency at kirjaamo(at)ftia.fi.

Agreement on the use of draisines

Draisines may not be used in the state-owned railway network on line sections with commercial traffic. However, a draisine use agreement may be concluded with an association or company that operated draisines on certain line sections that are closed to traffic, provided that the track conditions are satisfactory and all safety requirements are met. An agreement on the use of draisines on such line sections is always on a case-by-case basis and the infrastructure manager may refuse to conclude the agreement. Inquiries concerning such agreements should be sent to the infrastructure manager well in advance of the planned use (kirjaamo(at)ftia.fi).

3.3.3 General conditions, regulations and instructions

The operational regulations can be found in the Finlex service (in Finnish) and on the website of the Finnish Transport and Communications Agency Traficom. The operational instructions can be found on the websites of the Finnish Transport and Communications Agency Traficom and the Finnish Transport Infrastructure Agency (see the Railway Instructions). The Finnish Transport Infrastructure Agency makes every effort to ensure that the latest versions of the instructions are available to the railway operators no later than two months before they enter into force.

3.4 Special requirements

3.4.1 Rolling stock authorisation process

Before rolling stock can be used in the railway network, it must be granted authorisation for placing on the market by Traficom. In Finland, the authorisation is granted under the Rail Transport Act. The Rail Transport Act is in accordance

with the provisions laid down in the fourth railway package of the EU. The requirements concerning rolling stock are based on the interoperability requirements for the single European railway system, and Traficom issues regulations supplementing them, as necessary. Before issuing the authorisation, Traficom may, in order to specify any restrictions, request the infrastructure manager's opinion on the compatibility of the vehicle type or unit with the railway network.

The Finnish Transport and Communications Agency Traficom maintains a register to promote rail system safety and identify rolling stock. The purpose is to monitor the validity and traffic safety of the rolling stock. The rolling stock granted the authorisation for placing on the market in Finland is entered in the register maintained by the Finnish Transport and Communications Agency Traficom. The rolling stock register contains information about the owners, holders and lessees of rolling stock.

The special characteristics and features of the railway network in matters concerning the compatibility of the rolling stock with the railway network are described in part 21 ('Liikkuva kalusto') of the instructions 'Ratatekniset ohjeet (RATO)' issued by the Finnish Transport Infrastructure Agency. They must be taken into account when authorisation for new rolling stock in the railway network managed by the Finnish Transport Infrastructure Agency is sought.

3.4.2 Approval of personnel performing traffic safety tasks and other safety-critical work

Under the EU railway safety directive (EU) 2016/798, railway undertakings and infrastructure managers are responsible for the training and qualifications of their staff performing safety-critical work. In its capacity as the manager of Finland's state-owned railway network, the Finnish Transport Infrastructure Agency is responsible for setting qualification requirements for persons working in the railway network on behalf of the infrastructure manager and in joint projects involving the infrastructure manager and for ensuring that these persons are provided with adequate training. It is also laid down in section 11 of the Occupational Safety and Health Act (738/2002) that employers must ensure the qualifications of their personnel, especially in tasks involving a particular risk of injury or illness.

The Act on Transport Services only contains provisions on the qualifications of train drivers in the railway system. The train driver's licence demonstrates that the person in question possesses the general qualifications for driving a train. The licence proves that in respect of their health and psychological qualities, the person in question meets the minimum requirements laid down in the act and is suitable for working as a train driver. The train driver must always carry the licence with them when performing their task in the state-owned railway network.

Qualification requirements set by the manager of the state-owned railway network

In its instructions 'Valtion rataverkon haltijan osaamis- ja pätevyysvaatimukset' (see the Railway Instructions), the infrastructure manager has set minimum qualification requirements for railway operators and infrastructure managers of

private sidings operating in the state-owned railway network. A railway operator must describe the management of the qualifications and training for the tasks that have a critical impact on railway safety and that are laid out in its safety management system. The infrastructure manager requires that shunting personnel possess specific qualifications and that railway operators ensure that these requirements are met. The qualification requirements are set out in the qualifications instructions prepared by the manager of the state-owned railway network.

The qualification requirements issued by the manager of the state-owned railway network also specify the essential tasks concerning the safety of track work and the training for them.

Small-scale train driver operations

Small-scale train driver operations and the operators' responsibilities are described in Traficom's instructions 'Pienimuotoinen kuljettajatoiminta' (in Finnish). Provisions on small-scale train driver operations are laid out in the network access agreements between the infrastructure manager and the railway operator. Small-scale train driver operations are in small scale and limited in terms of their geographic area. Areas for small-scale train driver operations at traffic operating points are shown in the Railway Information Extranet (in Finnish).

3.4.3 Oversize loads

Traffic restrictions applying to exceptional transport and requesting a permit for exceptional transport are discussed in chapter 4.7.

3.4.4 Carriage of dangerous goods

Carriage of dangerous goods is discussed in chapters 2.4.3 and 4.7. Regulations on railway traffic and rolling stock can be found in the Finlex service (in Finnish), on the Traficom website and in the service description of storage sidings for wagons loaded with dangerous goods (Appendix 7J).

3.4.5 Trial runs of rolling stock

Trial runs of rolling stock can be carried out at the Finnish Transport Infrastructure Agency's centre for trial runs in Laajakangas at Kontiomäki. Agreement on the use of the area must be on the basis of the instructions for reserving and using the trial runs centre (see the Railway Instructions). For more information, contact Track and Rolling Stock Technology of the Finnish Transport Infrastructure Agency.

Noise measurements required for the rolling stock approval process can be carried out at Leteensuo (on the line section Riihimäki–Tampere). For more information, contact Environmental and Property Issues of the Finnish Transport Infrastructure Agency.

The permits for trial runs carried out in the railway network as part of the rolling stock approval process are granted by Traficom The Finnish Transport Infrastructure Agency provides details of the railway network for trial runs on request.

Commissioning inspections for track work machinery and equipment used only at track work sites can be carried out in Oulu, Tampere, Kouvola and Kontiomäki.

4 Capacity allocation

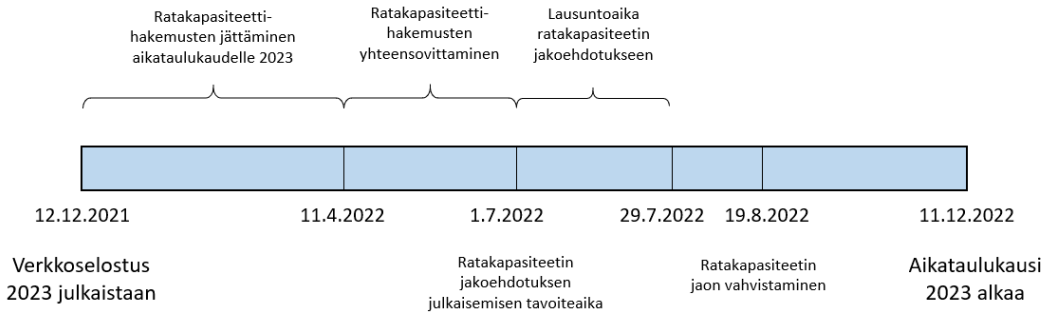
4.1 Introduction

The legal framework for requesting and allocating infrastructure capacity is laid down in Chapter 4, Section 3 and Annex IV(3) of the Railway Market Directive, in chapter 17 of the Rail Transport Act and in the Government Decree on the Timetable Period in Railway Traffic and Requesting Infrastructure Capacity (1308/2018).

4.2 Process overview

4.2.1 Requesting infrastructure capacity

Infrastructure capacity in the state-owned railway network must be requested from the Finnish Transport Infrastructure Agency for each timetable period and at specific intervals during the timetable period. The requests must be made in accordance with section 117 of the Rail Transport Act and Article 39 of and Annex IV(3) of the Railway Market Directive. The schedule for capacity requests and allocation for the timetable period 2023 is shown in the chart. Requests for infrastructure capacity can also be submitted on an ad hoc basis for non-regular traffic.



The timetable period in railway traffic starts annually at the second weekend of December, at midnight between Saturday and Sunday, and ends at the same time the following year. The timetable period 2023 starts on 11 December 2022 and ends on 9 December 2023. The timetable period 2024 starts on 10 December 2023 and ends on 7 December 2024. Operators need to request infrastructure capacity no earlier than twelve months and no later than eight months before the beginning of each timetable period. All changes to be made to transport services during the timetable period can be included in a single request.

The principles for requesting infrastructure capacity are described in the legislation referred to above. To specify them, the infrastructure manager has prepared instructions for requesting infrastructure capacity (see the Railway Instructions).

The requests for infrastructure capacity for regular services, for changes in regular services and for ad hoc capacity during the timetable period must be submitted in the LIIKE or SAAGA information system or using the interface specified by the infrastructure manager (for more information, visit the website of the traffic control company (in Finnish)). Upon completion, the SAAGA system will

replace the LIIKE system. The timetables prepared for the trains for which capacity is requested must be included in the request.

If the LIIKE or SAAGA system is inoperative due to a widespread malfunction, the Rail Traffic Management Centre can approve requests for ad hoc capacity changes by phone. If the JETI system is inoperative due to malfunctions, the Rail Traffic Management Centre instructs users to use the backup systems containing driver timetables and advance notification information.

For more information on requesting infrastructure capacity, information requirements and the background information regarding timetable planning, see the instructions for requesting infrastructure capacity.

Requesting infrastructure capacity for shunting operations

Shunting capacity between railway stations is applied for via the LIIKE or SAAGA systems. Instructions for requesting infrastructure capacity (see Railway Instructions) defines the railway traffic operating point intervals and traffic operating point sections between for which operators need to request capacity. The capacity allocated to traffic and track work has priority over shunting work for which no capacity has been requested.

Requesting railway yard capacity

The use of railway yard tracks is described on a general level in the service facility description of storage sidings in Appendix 7H.

Regular long-term needs

The planning of track use in railway yards used for passenger traffic and freight traffic and the process of requesting capacity in them are described in the instructions for requesting infrastructure capacity (see the Railway Instructions).

The SAAGA system for capacity management and track reservations in freight yards will be introduced in stages starting in 2022. The aim is to ensure an equal situational picture for all railway yard operators.

Applicants for infrastructure capacity and railway operators must contact the infrastructure manager and Fintraffic Railway Ltd.'s traffic planning regarding needs for long-term storage of rolling stock arising during the timetable period. Railway operators using a traffic operating point must report their need to access a railway yard when the network access agreement is prepared.

Temporary short-term track possessions

Known short-term usage needs, i.e. temporary track reservations, can be reported either through the traffic planning of the traffic control company using the JETI system's preliminary plan or through capacity management in the SAAGA system, in which case traffic planning or capacity management will review the suitability of the storage siding and conduct the necessary negotiations with other actors.

In exceptional situations, rolling stock can be temporarily stored on separately specified storage sidings, reserved for train traffic, as described in chapter 7.3.4.

Sudden need for track possession

Decisions on meeting urgent storage needs are made by the traffic planning in the traffic control area, capacity management, traffic control, or if necessary, by the Rail Traffic Management Centre, based on the current situation. Traffic operating points with railway yard agreements in place have contact persons for different situations defined in these agreements. Traffic operating points that do not have a railway yard agreement in place will be in contact with traffic planning in the traffic control area during office hours and, after office hours, with the Rail Traffic Management Centre. Traffic operating points with a capacity control function will always be primarily in contact with capacity management in matters related to track use planning needs. As a rule, rolling stock may not be stored on line tracks intended for train services or on route tracks of a meeting point on a single-track line section.

The planning of track use for operative situations and the process of requesting capacity are described in the instructions for requesting infrastructure capacity (see the Railway Instructions). In operational situations, the traffic control company's capacity management function coordinates the use of tracks at specific traffic operating points or in certain tracks of the operating points. Fintraffic Railway Ltd. has prepared guidelines for capacity management operating models and tasks.

The capacity control function and the SAAGA system will be introduced in the management of the different types of trains at traffic operating points in stages starting from the timetable period 2022. The aim is to ensure an equal situational picture for all railway yard operators. The operating models will change as implementation progresses nationally, and contacts related to track use planning will be transferred from traffic planning and traffic control to capacity management.

Requesting service facility capacity

Service facility capacity is reserved by contacting the infrastructure manager and the service facility operator in the manner detailed in the service facility description. The service facilities in the state-owned railway network are described in chapter 7. In addition to the Network Statement, information on service facilities is also provided in the open data of the Network Statement (Services at traffic operating points, 'Liikennepaikkojen palvelut') and in the map service.

Machinery operations and storage

The railway network may also be used for moving track machines from depots to work sites, between work sites, and for maintenance purposes. Under the Rail Transport Act, a safety certificate is required for train or shunting operations outside the area reserved for track work.

The instructions on the track work machinery as well as on the persons and railway undertakings involved in infrastructure management duties can be found in the safety instructions for infrastructure management (TURO) and the qualification requirements issued by the manager of the state-owned railway network (both in Finnish)..

A capacity management function and the SAAGA system will be introduced for the management of railway yards in stages starting from the timetable period 2022. The operating models for the storage of machinery will also change as the commissioning progresses nationally, and capacity management should be contacted in matters related to track use planning.

4.2.2 Developing infrastructure capacity management

Line capacity

The development of line capacity planning will be continued by the infrastructure manager. The infrastructure manager will continue development work under the TTR concept (see section 4.9). In addition, the expansion of the implementation of the SAAGA system to line capacity planning will enable the development of planning. These development projects will be carried out in cooperation with capacity applicants. The aim is to develop a model in which

- capacity planning and acceptance processes are guided by uniform planning principles. For example, more detailed instructions for the planning of running times will be introduced, which will allow harmonised, clear and transparent operating models
- capacity planning will be supported with advance planning carried out by the infrastructure manager before capacity is requested and with previous planning of track work to be specified later
- the planning is carried out using systems that support timetable planning and such functions as conflict detection on a track-specific basis. The planning is based on principles and methods that allow the formation of a detailed situational picture of the utilisation rate and use of the planned capacity. Planning of regular traffic will be based on more detailed track-level planning
- the workability of the annual capacity arrangements is ensured by simulating them at least on the most important routes during capacity coordination before the annual capacity plan is approved and at the same time capacity quotas related to the revised order of priority between trains will be specified if necessary
- capacity processing will become more efficient and streamlined and support applicants and processors in their work
- the quality and timeliness of timetables will be better, enabling more optimal utilisation of infrastructure capacity
- changing regular capacity will be more flexible and supported by systems.

The methods will be developed in cooperation with other infrastructure operators. New methods will be introduced during the timetable period 2022.

Railway yard capacity

The infrastructure manager will continue development work to define more detailed capacity management for yards (such as track reservation precision, purpose of use, yearly to daily operations). New operating models and system development will enable:

- up-to-date and feasible situational picture of track use for users (e.g. arrival and departure tracks, track reservations, rolling stock information, forecasts)
- fair, transparent and flexible infrastructure use decision-making in a multi-actor environment;
- a proactive approach to resolving conflicts in track use, taking into account traffic and track work;
- an active link between railway operators and traffic control/passenger information.

The development work also aims to ensure

- needs-based and flexible track reservation
- openness with up-to-date situational picture of infrastructure use
- fairness and efficient use of tracks with new operating models.

As a result of the development work, a plan for the implementation of changing operating models (operating models, interaction, tasks and responsibilities of the parties, training, instruction updates and schedule) have been prepared in cooperation with operators. A capacity management function and the SAAGA system will be introduced for the management of railway yards in stages starting from the timetable period 2022. The operating models for the storage of machinery will also change as the commissioning progresses nationally, and capacity management should be contacted in matters related to track use planning.

The preliminary implementation plan of the capacity management function and the SAAGA system is as follows and it will be specified on the basis of the changing needs of the multi-actor environment

- Q4/2022 Riihimäki station, Kerava (passenger traffic), Kirkkonummi
- Q2/2023 Kouvola
- Q4/2023 Kuusankoski, Kotka, Lauritsala, Riihimäki (the remaining traffic operating points)
- 2024 Vuosaari ja Sköldvik, Turku, Kerava (muu liikenne), Hamina, Imatra, Kymi, Inkeroinen, Vainikkala, Joutseno, Lahti, Lappeenranta, Luumäki, Kaipiainen, Heinola, Kalvitsa, Kurkimäki, Hankasalmi, Tampere, Toijala, Jämsä/Jämsänkoski, Pori/Rauma-Lielahti, Harjavalta, Hämeenlinna, Jyväskylä, Orivesi, Äänekoski, Suolahti, Kontiomäki, Iisalmi.

It is envisaged that the capacity management function and the SAAGA system will be extended to cover the remaining traffic operating points in 2025.

The shunting application (VAMOS) is a system for planning shunting and issuing permits. The system will be introduced in accordance with a schedule that will be announced separately. After the introduction of the system, the infrastructure manager will require that railway operators use the shunting application VAMOS in connection with the request for shunting permits from traffic control.

In the first phase, actual shunting permits will still be requested orally from traffic control, but later on, with further development, electronic shunting permits will be issued through the shunting application. Possible interfaces or services to the operators' systems will be agreed upon separately.

4.3 Allocating infrastructure capacity for track work

4.3.1 General principles

In its capacity as the infrastructure manager, the Finnish Transport Infrastructure Agency observes the thresholds laid down in section 124 of the Rail Transport Act and the Commission Delegated Decision (EU) 2017/2075 (10, 11 and 14) when providing information on known track work and on the capacity restrictions arising from them.

The infrastructure manager conducts negotiations with applicants for infrastructure capacity, railway undertakings, and maintenance and transport providers on the timing of track work, track possessions, speed limits and other capacity restrictions arising from the work. A national meeting discussing the coordination of track work and traffic is the key cooperation forum in this respect. The meetings, which are held four times each year, are convened and chaired by the infrastructure manager. Stakeholder groups are also invited to join the planning of the work stages of rail projects with traffic impacts and, if necessary, the weekly meetings held during track work projects. Based on the results of the negotiations, the infrastructure manager decides on anticipated timings, track possessions and other measures impacting traffic.

A separate working group convened by the Finnish Transport Infrastructure Agency serves as the cooperation forum for infrastructure managers.

4.3.2 Deadlines for providing notification of capacity restrictions

Appendix 2M Track work

At the time of the publication, Appendix 2M provides the best estimate of the track work affecting traffic during the timetable periods 2023 and 2024 and of the capacity needs for railway infrastructure management arising from the work. Appendix 2M will be updated in accordance with section 4.3.2.

Specifying information on track work before the start of a new timetable period

The capacity restrictions arising from track work in 2026 (first consultation round) and in 2025 (second consultation round) will be published in autumn 2023 in accordance with the available information and the publication and consultation procedure for capacity restrictions laid down in the Commission Delegated Decision (EU) 2017/2075 (Annex VII(8)). The first and second consultation rounds will be held as part of the meetings specified for the purpose and the national traffic and track work coordination meetings. The capacity restrictions are published in Appendix 2M.

Track work affecting the timetable period that has been known to the infrastructure manager at least six months before the change of the timetable period and that will result in capacity restrictions is reported in connection with the publication of the proposal for allocating infrastructure capacity (EU 2017/2075, APPENDIX VII section (12)).

Specifying track work information during a timetable period

The allocated infrastructure capacity is available to the railway operator unless it overlaps the track possessions required for infrastructure management work. The work programme, timing of the work and the track possessions required may, however, change as the funding and planning are specified. Occasionally, the traffic impacts of the work will have to be reviewed during the timetable period in question, or infrastructure maintenance work not foreseen in the annual plan must be carried out. These situations arise because of the following factors: safe train traffic has to be ensured despite the capacity restrictions; the infrastructure manager has no influence on the timing of the restrictions; application of the time limits is not cost-efficient or causes unnecessary damage to railway asset management; or there are other situations in which all parties concerned approve the change (EU 2017/2075, Annex VII(14)).

In such cases, the infrastructure capacity allocated to railway undertakings that overlaps infrastructure management needs is not available to railway operators or the capacity restrictions affecting track work are made more specific. In that case, notification of the restrictions is provided (in connection with the adjustment dates of the timetable period 2023; (section 4.5.2) no later than

- 15 August 2022 for the period 11 December 2022–25 March 2023
- 11 December 2022 (for the period 26 March 2023–18 June 2023)
- 30 January 2023 (for the period 19 June 2023–13 August 2023)
- 26 March 2023 (for the period 14 August 2023–10 December 2023)

If the traffic impacts of the work will have to be specified so that the time limits referred to above cannot be observed, the infrastructure manager will discuss the matter with railway operators before making its decision. If decisions have to be made at short notice, a representative of the infrastructure manager (Fintraffic Raide Oy's traffic planning or, outside office hours, Fintraffic Raide Oy's Rail Traffic Management Centre) will conduct the necessary negotiations before decision-making.

In addition to the infrastructure capacity allocations made in connection with annual planning, capacity is also allocated for maintenance during the timetable periods in slots with no traffic, and the capacity is defined in the JETI system. After it has been entered in the advance information system, the required infrastructure capacity has been allocated to track work, and railway operators cannot request or use any of the capacity at the same time.

Using diversionary routes

Diversionary routes, as referred to in the Commission Delegated Decision (ANNEX VII(11)), to which trains can be rerouted during track work, are not available in Finland because most of the railway network is single track and only a small number of lines can be used as alternatives. For this reason, track work causing traffic disruptions is carried out during low traffic. When diversionary routes are available, the infrastructure capacity is prioritised in accordance with the arrangement used in Finland. Occasionally, trains also have to be replaced with other modes of transport. However, in these cases, arranging replacement transport and the costs arising from it are the responsibility of the railway operator.

Requesting a track possession affecting traffic

The party requiring the track possession (contractor) must always contact Fintraffic Raide Oy's traffic planning and agree on the track possession and its details in accordance with the infrastructure manager's decision on track possessions no later than

- two months before the start of the work if the work causes one-off traffic disruptions or affects cross-border traffic
- three months before the start of the work if the work results in daily traffic disruptions lasting several weeks or months or the work affects traffic at several weekends
- 4 months before the start of the work if fast international passenger services are affected.

For contact details of Fintraffic Raide Oy's traffic planning, see the website of the Finnish Transport Infrastructure Agency (in Finnish). The party performing the work must be allocated infrastructure capacity, receive a track work permit, and if necessary, be granted a voltage cut-off before starting the work during the allocated track possessions.

Updating track work information

Updated information on track work affecting traffic and listed in Appendix 2M is maintained and published in the advance information system (in Finnish) (JETI). From this system, information is relayed to the LIIKE system and published in the open data of the traffic control company.

Communication on track work

Each party is responsible for its own communication concerning track work. The infrastructure manager is responsible for communication regarding track and rail accessibility and for providing information about track work. The railway undertakings are responsible for providing information on their own train services and timetables. The parties must coordinate and, if necessary, review the practical measures concerning the provision of information on the track work before starting the work.

4.4 Impact of framework agreements

The infrastructure manager does not currently conclude framework agreements (see chapter 3.3.1).

4.5 Capacity allocation

Provisions on the allocation of infrastructure capacity are laid down in section 122 of the Rail Transport Act and Article 43 of the Railway Market Directive and Annexes IV 3(c) and VII to the same directive.

Preparing the proposal for allocating infrastructure capacity

Based on the requests received, the Railway Network Access Unit of the Finnish Transport Infrastructure Agency will prepare the proposal for allocating infrastructure capacity (referred to as the 'draft working timetable' in the Rail Transport Act) for the next timetable period within four months after the deadline for submitting the capacity requests. European railway infrastructure managers have, however, jointly decided that a maximum of 2.5 months should be used for coordinating the requests.

The infrastructure manager must inform all applicants how the infrastructure capacity has been allocated between the applicants. If the infrastructure manager has decided to reserve part of the capacity as spare capacity to be allocated later, all applicants must also be informed of this. For more information about requesting, allocating and cancelling infrastructure capacity, see the instructions for requesting infrastructure capacity.

Appealing against the decision on allocating infrastructure capacity

The applicant for infrastructure capacity may appeal against a capacity allocation decision made by the infrastructure manager by submitting a claim for rectification to the Rail Regulatory Body (see chapter 1.3.3).

Railway yard capacity

The infrastructure manager currently allocates railway yard capacity by means of network access agreements and, if necessary, by means of railway yard agreements appended to the access agreement. The aim is to replace these agreements completely or partially with the SAAGA information system, which is currently under development and with a new capacity management function during 2022. Railway operators must report and specify their need to use railway yards in the network access agreements.

Plans for the use of tracks in railway yards are also prepared and agreements on their use concluded on a daily basis and when adjustments to regular railway traffic are made, as described in Appendix 7H and in the instructions for requesting infrastructure capacity (see the Railway Instructions).

Service facility capacity

Railway undertakings must provide the infrastructure manager with details of their railway yard access and service needs in the next timetable period by the end of September each year for negotiations on railway yard agreements. The need for key services must be given and the need for track access in the railway yard must be outlined. The needs are specified in the capacity requests and in the advance plans prepared during the timetable period and on adjustment dates. To ensure coordinated service access in multi-operator environments, advance plans for track use must also be prepared for railway yards. At the start and during the timetable period, the planning is carried out with the SAAGA system, the JETI system or a railway yard agreement.

The requests concerning the use of the service facility must be submitted to the infrastructure manager, Fintraffic Railway Ltd's traffic planning and the service facility operator in accordance with the descriptions of the service facility as soon as the service need has arisen.

For submitting requests for service capacity on private sidings, see the network statements of the respective infrastructure managers.

Deadlines for responding to the service requests are specified in the instruction TRAFICOM/270984/03.06.04/2019 (in Finnish).

4.5.1 Requests received after the deadline

Requests received after the deadline (11 April 2022) will be processed as follows. An applicant can change their regular services for the remainder of the timetable period during the timetable period in question on specific adjustment dates, provided that the changes have been approved by all parties concerned and the changes do not affect the infrastructure capacity allocated to other capacity applicants or international traffic within the European Economic Area, or if the change has been approved by all parties. If there is free infrastructure capacity available and more than one capacity applicant submits requests for this capacity, the infrastructure manager must coordinate the requests and if this is not possible, it may allocate the capacity by applying the order of priority after the train path has been declared as congested infrastructure.

The obligatory adjustment dates are as follows: at the beginning of the timetable period on the night between Saturday and Sunday at 00.00 and at the second weekend after the end of the school year on the night between Sunday and Monday at 00.00 (between calendar weeks 24 and 25). In addition to the above dates, the infrastructure manager may, for special reasons, also determine other dates on which adjustments are made.

Table 1. Adjustment dates for the timetable period 2023.

	Request submission date	**Allocation decision**	**Validity**
1.	Wed 26 October 2022	THURS 03 November 2022	Sun 11 December 2022
2.	Wed 07 December 2022	THURS 15 December 2022	Mon 30 January 2023
3.	Wed 08 February 2023	THURS 16 February 2023	Sun 26 March 2023
4.	Wed 03 May 2023	THURS 11 May 2023	Mon 19 June 2023
5.	Wed 28 June 2023	THURS 06 July 2023	Mon 14 August 2023
6.	Wed 13 September 2023	THURS 21 September 2023	Sun 29 October 2023

The infrastructure manager will inform all infrastructure capacity applicants, the Ministry of Transport and Communications, the Rail Regulatory Body and all other parties concerned about the new adjustment dates for regular traffic. The

decisions on the adjustment dates are published on the infrastructure manager's website.

4.5.2 Requesting ad hoc infrastructure capacity

Under Article 48 of the Railway Market Directive and section 123 of the Rail Transport Act, ad hoc infrastructure capacity for traffic for which no regular capacity has been requested can be requested for the nearest adjustment date, to the extent that free capacity is still available. Ad hoc capacity requests are processed in the order of arrival.

Ad hoc capacity can also be requested for the next adjustment date after the allocation decision for that adjustment date has been published. Ad hoc capacity for museum train traffic may, however, be requested four months in advance.

Infrastructure capacity for infrastructure management, museum train traffic and trial runs must always be requested on an ad hoc basis.

For a more detailed description of requesting ad hoc capacity, see the Instructions for requesting infrastructure capacity (in Finnish).

4.5.3 Coordination procedure

If there are conflicts between requests for regular infrastructure capacity, the infrastructure manager will work to ensure the best possible matching of all requests in accordance with section 128 of the Rail Transport Act and Article 46 of and Annex IV. 3. d) of the Railway Market Directive. In the coordination procedure, the infrastructure manager may propose alternative infrastructure capacity that differs from the original request.

During the coordination procedure, the infrastructure manager must provide the capacity applicants with the following information within a reasonable time frame, free of charge and in written form:

1) train paths requested by the applicants on the same route sections
2) train paths that have been preliminarily assigned to the applicants on the same route sections
3) alternative infrastructure capacity proposed on relevant train paths
4) criteria applied to the capacity allocation.

The infrastructure manager will send the capacity allocation proposal to the applicants and other interested parties by a specific deadline. The consultation period (at least one month) starts when the infrastructure manager announces the completion of the timetable proposal on its website. In addition to the allocation proposal, detailed information on the comment procedure is also published on the website.

Based on the capacity allocation proposal and the comments presented by the parties involved, the infrastructure manager must decide on the allocation of the infrastructure capacity on a fair and non-discriminatory basis.

The process will be implemented primarily in the coordination of regular services in connection with annual applications during the timetable period, but it can also be used, where applicable, in connection with the coordination of

change dates, taking into account a considerably shorter period of time, which is then available for the coordination.

4.5.4 Dispute resolution process

Under section 128 of the Rail Transport Act and Article 46 and Annex IV 3(d) of the Railway Market Directive, the infrastructure manager must attempt to resolve any conflicts concerning the requested regular service timetables through consultation with the appropriate applicants in connection with the coordination procedure. Particular consideration in these negotiations must be given to the needs of passenger and freight traffic and track maintenance (such as track possessions) as well as the efficient use of the railway network.

If capacity has been requested for and granted to museum train traffic in such a way that the decision on the allocation of regular services for that period have yet to be published at the time of application, the capacity of museum trains and regular services will be coordinated, if necessary, after the publication of the allocation decision.

4.6 Congested train path

If the conflicting requests for infrastructure capacity for the timetable period cannot be adequately satisfied on the basis of negotiations and compromises (see instruction for requesting infrastructure capacity), the infrastructure manager must declare the section of infrastructure in question as congested, as laid down in section 120 of the Rail Transport Act and *Article 47 and Annex IV 3(e) of the Railway Market Directive*. This procedure is also followed in the case of infrastructure that is expected to become congested during the timetable period. The infrastructure manager may introduce a higher basic infrastructure charge for the congested infrastructure section. If a higher charge has not been introduced or it has not led to the elimination of the congestion, the infrastructure manager may apply priority criteria under which specific traffic types may be given priority when capacity on the congested infrastructure section is allocated. When the priority criteria are applied, consideration must be given to the societal importance of the service in relation to other transport services. When the priority criteria are established, every effort must be made to treat all service providers in a fair and non-discriminatory manner.

Non-disclosure provisions notwithstanding, the infrastructure manager has the right to obtain the necessary confidential information from the capacity applicants in order to establish the priority criteria. The infrastructure manager must establish the priority criteria within ten days of the conclusion of the negotiations on the congested infrastructure section.

After the infrastructure has been declared as congested, the infrastructure manager must initiate a capacity analysis, as referred to in section 127 of the Rail Transport Act. The focus in the analysis is on diverting the railway traffic to other line sections, drawing up a new timetable plan, changes in speed limits and improving the condition of the railway network.

The infrastructure manager must prepare a capacity enhancement plan within six months of the completion of the capacity analysis.

Priority order in congested infrastructure used in Finland

The priority order used on the state-owned railway network is based on the following framework:

- Trains are divided into nine categories, which are based on their key features as part of the transport service.
- Each part of the railway network is divided into five route profiles.
- The order of priority between train categories varies depending on the route profile.
- An order of priority for trains in each train category is determined using the key features of the trains as a basis. If it proves impossible to categorise trains on the basis of these features, the remaining categories are applied so that all operators are provided with a level playing field.
- On some line sections, a capacity quota may be introduced for trains belonging to a low-priority category so that at least a certain number of trains of this category may use the line section.
- In certain exceptional cases, the infrastructure manager has a statutory right to derogate from the priority rules if applying them would lead to an unreasonable situation.

Note! The order of priority will be updated when necessary each year as the railway network changes. These changes may also be temporary due to e.g. track work. Capacity quotas for different line sections can also be updated annually if necessary. The priority order and capacity quotas valid for timetable period 2023 are described in Annex 4A.

Derogation from the order of priority laid down in the Network Statement

The infrastructure manager may derogate from the order of priority in favour of an applicant operating international services or services that otherwise help to maintain or improve the functioning of the rail transport system or public transport or if the rejection of the request would cause unreasonable inconvenience to applicants or to the business operations of their customers. Derogations from the order of priority in line capacity are described in more detail in Appendix 4A.

4.7 Exceptional transports and dangerous goods

A permit for exceptional transports is always required for transports that exceed the loading gauge. The permit is issued by the Finnish Transport Infrastructure Agency's Track and Rolling Stock Technology Unit and the request for the permit should be submitted well in advance of the transport. Applications must be sent to: kirjaamo@vayla.fi The following information must be included in the request: weights and dimensions of the transport; vehicles, line sections and tracks to be used; and the estimated time of transport. A fee based on the Government decree applying to the chargeable performances of the infrastructure manager (in Finnish) is charged for the permit. The fees are based on the amount of work required and they are calculated separately for each transport. The amount of work depends on the background work required for the permit as each exceptional transport is different.

After the infrastructure manager has granted a permit for the exceptional transport, the permit applicant must submit at least the track diagrams of the hindrance report attached to the permit to regional traffic control units. The number of the exceptional transport permit must be given when the documents are submitted.

The following information must be entered in the basic details of the capacity request for exceptional transport:

- the request concerns exceptional transport
- the permit number of the exceptional transport and
- in the text field for additional schedule information: the special conditions applying to the driver and/or traffic control (for example, the transport must not meet another transport exceeding the loading gauge on the adjacent track).

When infrastructure capacity is allocated, it must be ensured that all necessary information on the exceptional transport is included in the request.

The railway operator may, however, at its own risk and without the permit granted by the infrastructure manager, carry exceptional transports, which horizontally exceed the loading gauge by a maximum of 300 mm at a height of 1,300–4,300 mm above the rail surface. The railway operator must notify the infrastructure manager and the traffic control company of such transports in their infrastructure capacity request. The railway operator must ensure a smooth traffic flow during the transport, and request the necessary infrastructure capacity from the infrastructure manager. The special characteristic of the transport must be considered in the request for the infrastructure capacity. Two exceptional transports that exceed the loading gauge must not meet on adjacent tracks.

A permit issued by the infrastructure manager is always required for exceptional transports on heavy load wagons.

The terms and conditions for transports on vehicles exceeding the loading gauge are detailed in Appendix 2C. The terms and conditions for transports on overweight wagons are detailed in Appendix 2E.

4.8 Changing allocated infrastructure capacity

4.8.1 Changes made by railway operators

Railway operators may change regular infrastructure capacity by requesting a change on the regular traffic adjustment date. Day-to-day changes applying to adjustment dates in effect can also be made before that by cancelling the regular capacity and by requesting the replacement capacity as ad hoc capacity.

4.8.2 Changes made by the infrastructure manager

The infrastructure manager may not change the infrastructure capacity allocated to a railway operator after the coordination stage and the regular infrastructure capacity will remain in effect until the end of the timetable period in accordance with the infrastructure capacity allocated to the operator.

In exceptional situations, the infrastructure manager may require that the railway operator should change or cancel the capacity that it has received due to unforeseen capacity restrictions. In such a situation, the modified capacity shall be considered as previously granted capacity in relation to any new applications.

4.8.3 Non-usage

Provisions on unused capacity are laid down in section 125 of the Railway Transport Act and Articles 36 and 52 (2) of the Railway Market Directive.

The capacity manager must notify the infrastructure manager of the unused infrastructure and service facility capacity without delay and cancel the capacity in the LIIKE or SAAGA system.

The infrastructure manager may cancel the infrastructure capacity allocated to an applicant or part of it for the rest of the timetable period or the corresponding infrastructure capacity for the following timetable period if the applicant has used less than the required threshold quota over a period of at least 30 days. At the time of the publication of the Network Statement, the threshold quota for the minimum capacity use in Finland was 95% for passenger trains and 50% for freight trains. The threshold quotas refer to infrastructure capacity for regular services, which are monitored on a monthly basis. If the threshold quotas have not been reached, the infrastructure manager may ask the capacity manager to explain the reasons for not having used the capacity. However, action will only be taken if a train service has been cancelled more than three times within a period of 30 days.

The infrastructure manager may not, however, cancel the infrastructure capacity if the failure to use it is due to non-economic reasons beyond the applicant's or the railway operator's control.

The use of the allocated infrastructure capacity is monitored in connection with the monitoring of the network access agreement and, if required, at other times during the timetable period.

4.8.4 Cancelling infrastructure capacity

In exceptional situations, the infrastructure manager may cancel or change already allocated infrastructure capacity if the capacity is unavailable due to unforeseen infrastructure-related problems.

The infrastructure manager must always cancel the infrastructure capacity of a railway operator for the time during which the general requirements for railway operations described in chapter 3.2.1 are not met.

4.9 Redesign of the International Timetabling Process (TTR)

The infrastructure manager will develop the rail capacity and track work planning process within the framework of the European TTR planning process, taking into account local needs and conditions. The project for the development of the planning process was launched in autumn 2021, and during it, applicants for infrastructure capacity and other parties will be consulted to take the needs of different parties into account. The development of the TTR process is divided into three main areas:

- Track work process
- Pre-planning of traffic
- Infrastructure capacity process.

The objectives of the revised process are described in chapter 4.2.2. Further information on the TTR project: https://ttr.rne.eu/. Questions on the TTR project of the Finnish Transport Infrastructure Agency can be sent to TTR@ftia.fi.

5 Services and charges

5.1 Introduction

Provisions on services supplied to railway operators are laid down in chapter 18 of the Rail Transport Act, Article 13 of the Railway Market Directive, the Commission Implementing Regulation (EU) 2017/2177 on access to service facilities and rail-related services, the Rail Transport Act, and in the Government Decree on services supplied to railway operators (1489/2015) (in Finnish).

The services available for the service applicants are described in chapters 5 and 7, in Appendix 2B and in the map service of the Network Statement. These services may be provided by the Finnish Transport Infrastructure Agency or other parties. The Finnish Transport Infrastructure Agency and the railway operator usually agree on the services provided by the agency in the network access agreement The agency enters into an agreement with other parties on the use of services. Any changes introduced after the signing of the agreement are agreed on separately with the railway operator/operators and updated as required in the form of an appendix to the network access agreement. The Finnish Transport Infrastructure Agency agrees on the use of its services with parties other than railway operators in the manner described below.

Descriptions of the services supplied by the Finnish Transport Infrastructure Agency are published in the Network Statement. Descriptions of the service facilities of other service facility operators in the state-owned railway network are published on the agency's website (in Finnish).

5.2 Charge criteria

Provisions on the criteria for the infrastructure charge are laid down in chapter 19 of the Rail Transport Act and in Articles 29 and 31–36 and Appendix IV to Directive 2012/34/EU. The basic infrastructure charge is levied on the use of the services included in the minimum access package described in chapter 5.3 using the costs directly incurred by the Finnish Transport Infrastructure Agency as a basis. The basic component of the basic infrastructure charge is set using a cost model that calculates how much one additional transport performance unit (one gross tonne-kilometre) increases the costs of railway infrastructure management. The additional charge levied on the use of electric supply equipment included in the basic infrastructure charge are determined using a subtraction method. In this method, expert evaluation has been used to separate the network-wide separate costs of infrastructure management of the electrified rail network from the costs directly incurred from rail traffic operations and these costs have been divided by the kilometres operated in rail traffic using electric supply equipment. The method of calculating the basic infrastructure charge is described in Appendix 5A. The Finnish Transport Infrastructure Agency does not collect the additional charges described in section 141 of the Rail Transport Act.

The operator of a service facility may charge compensation for the service facility and track access in the service facilities, as well as for the services provided in them, as laid down in section 133(3) of the Rail Transport Act. The track access

required to access the service facilities is provided in return for the basic infrastructure charge.

Provisions on the pricing of additional and ancillary services supplied by the Finnish Transport Infrastructure Agency are laid down in the Act on Criteria for Charges Payable to the State (150/1992) and in the Decree of the Ministry of Transport and Communications on chargeable performances in the Finnish Transport Infrastructure Agency (1465/2019) issued under it. The services are invoiced on a monthly basis unless otherwise specified in the network access agreement or the lease agreement.

Providers of additional and ancillary services are entitled to charge a fee for the use of services in accordance with section 133, subsections 2–4 of the Rail Transport Act.

The Finnish Transport Infrastructure Agency uses an index adjustment procedure that takes into account changed infrastructure management costs when adjusting the basic infrastructure charge (sub-index 'Railway maintenance' of Statistics Finland's cost index of civil engineering works). The basic infrastructure charges for 2023 are determined on the basis of the 2020 point figure (114.72).

5.3 Services and charges included in the minimum access package

5.3.1 Minimum access package

In return for the basic infrastructure charge referred to in section 139 of the Rail Transport Act, the Finnish Transport Infrastructure Agency must provide all railway undertakings, in a fair and non-discriminatory manner, with the services included in the minimum access package laid down in point 1 of Annex II to the Railway Market Directive . In return for the basic infrastructure charge, the Finnish Transport Infrastructure Agency must also provide access to the service facilities referred to in section 133 of the Rail Transport Act.

5.3.2 Services included in the minimum access package

The following services, included in the minimum access package and referred to in section 132 of the Rail Transport Act, are supplied by the Finnish Transport Infrastructure Agency:

1) handling of requests for infrastructure capacity
2) the right to use the allocated infrastructure capacity
3) use of the railway infrastructure, including railway junctions and points
4) train control, signalling, traffic control, dispatching and the communication and provision of information on train movements
5) connection to the infrastructure manager's transmission network and use of electric supply equipment for traffic on electrified line sections, as referred to in sections 2 and 3
6) the information required to operate the services for which capacity has been allocated.

The Finnish Transport Infrastructure Agency levies the basic infrastructure charge on all traffic operations for which infrastructure capacity has been allocated. The basic infrastructure charge will not be charged from companies engaged in track maintenance.

Processing requests for infrastructure capacity

The processing of requests for infrastructure capacity is described in chapter 4 of the Network Statement.

Right to use the allocated infrastructure capacity

Railway operators have the right to use the infrastructure capacity allocated to them.

Use of the railway infrastructure

Railway operators have the right to use the railway infrastructure (including railway junctions and points) within the framework of the infrastructure capacity allocated to them.

Traffic control and management

The Finnish Transport Infrastructure Agency is responsible for traffic control and traffic management in the state-owned railway network. The Finnish Transport Infrastructure Agency has purchased traffic control and management services from Traffic control company Fintraffic Railway Ltd.

The following traffic control services are covered by the infrastructure charge:

Trains departing from their departure station:

- Moving a locomotive to the front of an already coupled set of wagons (including change of locomotives while under way)
- Moving a set of wagons from a storage siding or loading siding to the departure track. This also includes moving a full departing set of wagons in a railway yard to the departure track, if the train cannot depart from the sorting siding due to the infrastructure.

Shunting operations and locomotives looping at intermediate traffic operating points:

- Permission for shunting operations
- Local permissions
- Moving the locomotive from one end of the set of wagons to the other when changing direction.

Removing suddenly damaged rolling stock from the train, immediate action.

Trains arriving at their destination station:

- Moving the locomotive from the front of the set of wagons to a storage siding or yard track (also applies to locomotives changed while under way)

- Moving an arriving train, without changing the train formation, from the departure siding to a storage siding, a loading/unloading track (or to a new departure track, see below)
- Moving a locomotive, which has hauled an arriving set of wagons to a storage siding, a loading/unloading track or to a new departure track, to a storage siding or yard track, or to the front of a departing set of wagons (on-call operations are covered by a separate service charge).

On-call units:

- Permission for shunting operations
- Local permissions

Use of electric supply equipment for traffic on electrified line sections

The railway operator has the right to use the Finnish Transport Infrastructure Agency's electric power supply network on the electrified line sections specified in the Network Statement for the purpose of traction current for rolling stock and heating of wagons and to use the electric supply equipment. The Finnish Transport Infrastructure Agency does not provide electricity, and the traffic operator must enter into an agreement on the supply of power with a service provider.

The information required to operate the services

In return for the basic infrastructure charge, the Finnish Transport Infrastructure Agency provides the operators with the information that is needed for the services for which the capacity has been allocated.

5.3.3 Charges levied on the minimum access package

The Finnish Transport Infrastructure Agency levies the basic infrastructure charge on the use of the services included in the minimum access package. The basic infrastructure charge consists of (1) the basic component of the basic infrastructure charge levied on all traffic and (2) the additional charge levied on the use of electric supply equipment for all traffic using electric traction. The method of calculating the basic infrastructure charge is described in Appendix 5A. Between 01 January 2023 and 31 December 2023, the infrastructure charge will be levied as described in Table 2.

Table 2. Basic infrastructure charge

Basic component of the basic infrastructure charge	0.1341 cents/gross tonne-kilometre
Additional charge for the use of electric supply equipment	0.0129 cents/gross tonne-kilometre

5.4 Basic services and charges

The basic services comprise the services provided in the service facilities of the Finnish Transport Infrastructure Agency, which are listed in Annex II (2) of the Railway Market Directive. Under the directive, access, including track access, must be given to the following service facilities, when they exist, and to the basic services supplied in these facilities:

a) passenger stations, their buildings and other facilities, including travel information display and suitable location for ticketing services
b) Freight terminals
c) train formation yards and train formation facilities, including shunting facilities
d) storage sidings
e) maintenance facilities, with the exception of heavy maintenance facilities dedicated to high-speed trains or to other types of rolling stock requiring specific facilities
f) technical facilities other than those referred to in points c and e, including cleaning and washing facilities
g) maritime and inland port facilities that are linked to rail activities
h) rescue and assistance functions and the equipment required for these
i) refuelling facilities and supply of fuel in these facilities, charges for which must be shown on the invoices separately.

The basic services provided by the Finnish Transport Infrastructure Agency and the prices charged for their use are given in chapter 7 of the Network Statement and in the following service facility descriptions:

- passenger stations (description in Appendix 7A)
- timber terminals and timber loading facilities (description in Appendix 7D)
- train formation yards (description in Appendix 7F)
- inclines (description in Appendix 7G)
- storage sidings (description in Appendix 7H)
- railway yards handling dangerous goods (description in Appendix 7J)
- maintenance facilities (description in Appendix 7K).

Rescue and assistance functions and the equipment required for these

The FTIA maintains rescue and clearing organisations that take care of rescue and clearance operations on the state-owned railway network, and when necessary provide executive assistance to rescue authorities during office hours. When necessary, the organisation also provides assistance in rail network areas managed by other railway infrastructure managers according to requests they submit. Rescue services are services available to railway operators on the basis of the basic infrastructure charge. In the case of clearing services, clearance costs can be charged from the party who has cause the damage or another infrastructure manager. The Finnish Transport Infrastructure Agency's Guidelines on how to prepare for railway accidents (OVRO) include instructions on operations and liability in rail accidents. The publication is available in Finnish on the FTIA website. Currently only a limited amount of clearance services according to availability are provided for broken rolling stock.

The FTIA maintains different sprinkler and fire prevention systems in certain railway yards and tunnels. Railway yards where the handling of dangerous goods has been centred have preliminary preventing and extinguishing equipment. More detailed information on these is available in the rescue plans for railway yards and tunnels.

The Finnish Transport Infrastructure Agency does not provide other basic services.

5.5 Additional services and charges

5.5.1 Electricity transmission service

The electricity transmission service is described in Appendix 5B.

5.5.2 Heating of rolling stock and socket points

The central heating and electrical outlet service for rolling stock is described in the service description in Appendix 5X.

5.5.3 Traffic control service for shunting operations

The traffic control service for shunting operations is described in Appendix 5C.

5.5.4 Planning services for track use

Planning services for track use are described in the instructions for requesting track capacity.

5.5.5 Use of buildings and land areas

The use of buildings and land areas is described in Appendix 5D.

5.5.6 Rail Training Centre (RTC)

The use of the Rail Training Centre is described in Appendix 5E.

5.6 Ancillary services and charges

5.6.1 Access to telecommunication network

For more information about the RAILI service and how to connect to the service and the VIRVE network, see section 2.3.12 and Appendix 2J.

Pricing of the railway voice communication services is in accordance with the terms of use of the RAILI service and the price list of the RAILI service (in Finnish).

5.6.2 Traffic Quality Control Centre and monitoring of rolling stock

The Technical Control Centre and the monitoring of rolling stock are described in Appendix 5F.

5.6.3 Security Control Centre

The Security Control Centre is described in Appendix 5H.

5.7 Financial penalties and incentives

Except for the performance scheme described in chapter 5.8, the Finnish Transport Infrastructure Agency has not introduced any performance charges or penalty fees in connection with the use of the railway network.

5.7.1 Infrastructure capacity changed by the railway operator

The Finnish Transport Infrastructure Agency does not impose any penalties if a railway operator changes infrastructure capacity allocated by the agency.

5.7.2 Infrastructure capacity changed by the Finnish Transport Infrastructure Agency

The Finnish Transport Infrastructure Agency does not pay any penalties if it changes already allocated infrastructure capacity.

5.7.3 Non-usage

The Finnish Transport Infrastructure Agency does not levy any capacity reservation charges or sanctions on unused infrastructure capacity.

5.7.4 Cancelling already allocated infrastructure capacity

The Finnish Transport Infrastructure Agency does not impose any penalties if a railway operator cancels infrastructure capacity allocated to it.

5.7.5 Incentives and discounts

The Finnish Transport Infrastructure Agency does not offer other incentives or discounts.

5.8 Performance scheme

Under section 130 of the Rail Transport Act, in order to promote the effective use of the railway network and enhance train punctuality as well as to minimise operational disruptions caused by railway traffic and infrastructure management, a performance scheme has been introduced to encourage railway operators and the infrastructure manager to limit the disruptions arising from their activities and to make more effective use of the railway network. Provisions on the performance scheme are also laid down in Article 35 of the Railway Market Directive and Annexes IV and VI to the same directive. The scheme must respect the principles of fairness, transparency, non-discrimination and proportionality.

Furthermore, under section 130 of the Rail Transport Act, a railway operator must pay a compensation to the infrastructure manager if the operations of the railway operator significantly differ from the infrastructure capacity allocated

to the operator for reasons arising from the operator. The infrastructure manager must pay a compensation to the railway operator if, due to traffic disruptions arising from the infrastructure manager, access to the railway network significantly differs from the infrastructure capacity allocated to the railway operator and this interferes with the functioning of the railway system.

The performance scheme is applied to passenger and freight traffic of railway undertakings. The compensations based on the performance scheme and their criteria are described in Appendix 5J.

The performance scheme is based on registering delays in rail traffic as disruptions. The disruptions are registered in accordance with the reason codes for railway transport disruptions entries (see the Railway Instructions). The reason codes may be updated during the timetable period, which also affects the performance scheme. Any changes to the reason codes are prepared in cooperation with the railway undertakings.

Any changes to the monitoring stations used for punctuality monitoring (Appendix 5K) are prepared in cooperation with the railway undertakings.

The achievement of the performance scheme targets is discussed at network access agreement monitoring meetings or in another manner set out the access agreement. The Finnish Transport Infrastructure Agency monitors the functioning of the performance scheme during the timetable period.

There are no provisions in the performance scheme on applying the indemnity legislation on the parties.

Railway operators must agree between themselves on the compensation for damage that they have caused to each other.

If a railway operator and the infrastructure manager disagree on an issue related to the performance scheme they must request the Rail Regulatory Body to act as a conciliator in the dispute, as laid down in section 130 of the Rail Transport Act. The Rail Regulatory Body must make its decision on the matter within 10 working days after receiving all relevant documents from the railway undertaking or the infrastructure manager.

5.9 Changes to infrastructure charges

Information on the upcoming changes to the infrastructure charge are posted by the infrastructure manager on its **website** and the Network Statement (in Finnish). The changes to the infrastructure charge may concern the basic infrastructure charge, prices determined for basic, additional and ancillary services and the introduction of additional charges. The amendments comply with the provisions in Article 32 (6) and Annex IV (2) of the Railway Market Directive.

5.10 Collection of infrastructure charges

The infrastructure charges are paid to the infrastructure manager retroactively based on the actual performance in each calendar month. The performance is based on the data entered in the infrastructure manager's reporting system. If

necessary, the accuracy of the composition messages is reviewed at the access agreement monitoring meetings.

6 Use of the railway network

6.1 Introduction

Railway operators can influence traffic-related matters in operational situations and by taking part in the regular infrastructure capacity coordination procedure (section 4.5.3) and cooperation forums (for example, section 4.3). In operational-level forums, the infrastructure manager provides railway operators and rail transport purchasers with an opportunity to develop operating models in cooperation with the infrastructure manager, the traffic control company and other railway operators.

Operational responsibilities are described in Appendix 6A.

Regulations and instructions

The instructions on railway operations issued by the Finnish Transport Infrastructure Agency can be found in Railway Instructions and they are prepared in cooperation with different parties. The 'Junaliikenteen ja vaihtotyön turvallisuussäännöt' (Jt) is an example of such instructions.

Moreover, in its instruction 'Ohje varautumisesta rautatieonnettomuuksiin' (OVRO)' (in Finnish), the infrastructure manager sets out how to prepare for accidents and what should be done when accidents occur.

Safety issues are discussed in the network access agreement and in Appendix 6B. The instructions issued by the infrastructure manager within its competence must be observed in the state-owned railway network managed by the Finnish Transport Infrastructure Agency.

Finnish is the only language of communications used in Finland's state-owned railway network.

6.2 Operational practices

6.2.1 Principles

Good planning and coordination of timetables, track work and traffic operations help to reduce the number, duration and impacts of disruptions. All rail system operators must observe these principles.

The aim in the management of disruptions is also to restore normal operations without delay, minimise harmful impacts, apply transparent operating models and communication procedures, and ensure fairness and high quality. Punctuality of railway traffic, efficient use of infrastructure capacity during infrastructure malfunctions, feedback received from stakeholder groups and high/low media visibility are used as success indicators.

The infrastructure manager may temporarily withdraw the infrastructure capacity or part of it on train paths that are out of use due to technical malfunctions, an accident or damage affecting the infrastructure.

In such situations, the infrastructure manager will offer capacity managers alternative train paths whenever possible. The infrastructure manager is not, however, obliged to compensate the capacity manager for any damage arising from such disruptions unless otherwise agreed in the network access agreement.

Compensation issues arising from disruptions related to the performance scheme are discussed in section 5.8.

6.2.2 Instructions for operational situations

Congested infrastructure and priority criteria

The following order of priority for operations, giving permits and using tracks should be applied in railway yards (unless otherwise agreed concerning specific traffic operating points):

1. Use of the infrastructure capacity allocated in the infrastructure capacity management system
2. Train traffic
3. Moving locomotives in front of a departing fleet at the site of departure
4. Shunting operations between traffic operating points
5. Shunting traffic between traffic operating point sections/client traffic shunting
6. Wagon group shunting operations or train formation/splitting
7. Use of loading and unloading tracks
8. Moving rolling stock to storage sidings
9. Storage of rolling stock on the track

Permits for the same type of traffic are granted in the order in which they have been requested. The traffic operator will consider the permits to move track work units (due to malfunctions, service and other needs) at the traffic operating point on a case-by-case basis. The traffic operator will take the effects of the disruption or the malfunction into account and apply the order of priority when issuing operating permits.

In situations in which a permit to use a storage siding has been issued and it is already used for storage of rolling stock, and the track is needed for operations of higher priority, the Rail Traffic Management Centre first attempts to assign an alternative track for the train traffic/shunting operations. If it is not possible to provide an alternative track, the railway operator must, without any undue delay, move its stationary rolling stock to a location assigned by the Rail Traffic Management Centre. If the railway operator is unable to arrange for its rolling stock to be moved within reasonable time, another party may also move the wagons if this is required to ensure a smooth flow of traffic. The procedure is described below. If necessary, the reasonable time will be determined by the Rail Traffic Management Centre.

The aim is to ensure smooth and predictable use of the railway yard tracks so that sufficient information on track reservations and the general need for usage is available before permits to store rolling stock on individual tracks are issued. In such cases, the conflict situation described above is an exceptional situation that needs to be resolved separately.

Railway operators must contact the infrastructure manager and Fintraffic Railway Ltd's traffic planning to discuss needs to store rolling stock that arise during the timetable period, as referred to in section 4.2.1.

Operators in the railway yard may not intentionally obstruct each other's operations. Rolling stock may not be unnecessarily stored at points or crossovers (for example during breaks). Operations between different parts of the railway yard must be possible at all times.

Railway operators must also ensure that track maintenance work can be performed and that rolling stock can be moved as required by the work. Snow clearing may be prioritised over the storage of rolling stock and other requirements.

Traffic reduction plans

To prepare for disruptions, the operators (railway operators, the Rail Traffic Management Centre, traffic planning and traffic control) must draw up a traffic reduction plan and enter it in the cards describing how to deal with disruptions or save the plan as a data file for the operational group. The purpose of the plan is to prepare for traffic reductions on days with heavy snowfall when snow clearing and cleaning of turnouts reduce capacity available to traffic. Each railway operator must be prepared to list the train services that it could cancel during major disruptions. The Rail Traffic Management Centre decides on the introduction of the reduction plan with immediate effect or the decision can be made on an anticipatory basis on the previous day. Fintraffic Railway Ltd is responsible for keeping the traffic reduction plans up to date

Snow clearing

The maintenance provider is responsible for snow clearing in railway yards and clearing of turnouts and tracks. Day-to-day cleaning is the responsibility of the personnel of the units using the tracks. In snow clearing, priority is given to key railway yards of the main railway network. More detailed winter preparedness plans will be prepared during the autumn. The distribution and storage of snow and ice removal plans for all actors will be guaranteed, and the distribution will be agreed upon in joint winter preparedness meetings. All railway operators participate in the preparation of winter preparedness plans and produce e.g. descriptions of their own regional preparedness for these plans. Especially in exceptional snow conditions, all railway operators must be prepared to accept that the working conditions on the railway network can be challenging and the various operators must prepare for this with efforts such as training of personnel and acquiring the necessary equipment.

Moving rolling stock of other operators

The instruction 'Junaliikenteen ja vaihtotyön turvallisuussäännöt' (Jt) (see the Railway Instructions) must be observed when rolling stock belonging to other operators is moved. The parties must agree between themselves on the costs arising as a result and on compensation for any damage.

Submission of schedule and formation information

The railway undertaking submits timetable and formation data for shunting traffic between train traffic and railway traffic operating points as well as information on the tonnage transported to the Finnish Transport Infrastructure Agency using the LIIKE information system or a TAF/TAP TSI interface. The railway undertaking shall monitor formation messages and correct any shortcomings it has identified and, if necessary, check and correct any shortcomings raised by the infrastructure manager.

6.2.3 Disruptions

The infrastructure manager and operators have jointly prepared cards describing how to deal with different types of disruptions. The purpose of the cards is to produce a clear situational picture and ensure that decisions can be made on basis of it. Jointly prepared cards speed up the recovery from disruptions and improve the flow of information in connection with the disruptions. All parties must act in accordance with the instructions given in the cards and the guidelines on applying them issued by the Rail Traffic Management Centre. Fintraffic Railway Ltd is responsible for keeping the disruption information cards up to date. The infrastructure manager, Fintraffic Railway Ltd's railway operators and rail transport purchasers work together to keep the operating model for managing disruptions up to date.

The infrastructure manager lays out the rules for managing disruptions between railway operators. Instructions for dealing with individual disruptions are set out in the document '*Rautatieliikenteen hallinta operatiivisissa tilanteissa*' (see the Railway Instructions). The railway operator may submit its own proposal for instructions on how to manage disruptions affecting its trains.

In major disruptions in which a significant part of the infrastructure capacity of a line section is out of use for several days or longer, and the capacity cannot be replaced by offering alternative train paths, the option of transferring transports to other modes must be considered when deciding on the use of the remaining capacity.

In operational situations, the Rail Traffic Management Centre determines the traffic management measures aimed at minimising the disruptions to rail traffic and their impacts and provides instructions for dealing with them.

Railway undertakings and rail transport purchasers must designate the parties that are authorised to resolve operational disruptions on a 24/7 basis. This operational group, working under the auspices of the Rail Traffic Management Centre, is responsible for the coordination of measures and for making the necessary anticipatory decisions on providing train services during major disruptions. The list of the parties is kept up to date by the Rail Traffic Management Centre.

Instructions for using certain VIRVE call groups during disruptions

The calls must be made using **RATA INFO** or **KEHÄRATA YT** call groups.

In the **RATA INFO** call group, the caller must give the other users the name of the **RATA YT 1-3** operational call group that they should connect to if the matter requires lengthy conversations and the views of more than one participant must be heard. In most cases, the Rail Traffic Management Centre starts the conversation and invites other actors to join it.

KEHÄRATA YT is an operational call group used during disruptions affecting the Helsinki region commuter traffic area (especially the Ring Rail Line).

Example:

Rail Traffic Management Centre in the RATA INFO call group:
'VR OPK, VR OPK - this is Rail Traffic Management Centre calling'
VR OPK: 'Rail Traffic Management Centre, this is VR OPK'
Rail Traffic Management Centre: 'K train has broken down in Oulunkylä at track 3 and
Connecting to KEHÄRATA YT call group.'
VR OPK: Connecting to KEHÄRATA YT call group.'

After this, the KEHÄRATA YT call group takes over until the situation is normalised or the action is ended.

Example:

Rail Traffic Management Centre: 'K train has broken down in Oulunkylä at track 3 and needs assistance.
VR OPK: Assistance will be ordered and takes about one hour to arrive.
The conversation now continues in this call group.

Finally, the Rail Traffic Management Centre announces the end of the disruption in the RATA INFO call group.

The Rail Traffic Management Centre keeps a list of the users and call signs of these call groups in the YKÄ system. Users inform the Rail Traffic Management Centre of the changes and the centre also provides them with updated details of the other call group users.

Operators may request access rights to the call groups from the Rail Traffic Management Centre.

The call groups are managed by the Finnish Transport Infrastructure Agency. The conversations in the call group are not recorded.

Accidents and preparedness

Under section 173 of the Rail Transport Act, the infrastructure manager must keep the infrastructure in operable condition and eliminate disruptions, and to achieve this, the infrastructure manager may request a railway undertaking to provide assistance to eliminate the disruptions. The railway operator has the right to request a reasonable compensation for the use of its resources.

The infrastructure manager and the railway operators must be prepared for railway accidents in their fields of activity, as laid out in the Finnish Transport Infrastructure Agency's guidelines on how to prepare for railway accidents (OVRO) (see the Railway Instructions).

The infrastructure manager is responsible for the clearing operations concerning the rolling stock and the rail line in the state-owned railway network, and for assisting the rescue authorities in rescue operations as laid down in the Rail Transport Act, the Rescue Act and the Commission Regulation 2015/995. The infrastructure manager has published guidelines on how to prepare for railway

accidents (OVRO), and these guidelines apply to both railway operators and all other operators in the state-owned railway network.

The infrastructure manager may perform the clearing operations itself or use its network of service providers and partners. The service providers and partners are subordinated to the infrastructure manager's operative management, unless otherwise provided by law. The Finnish Transport Infrastructure Agency is responsible for the official and prioritisation decisions concerning the clearing operations. The infrastructure manager may issue instructions on the training or certification required for the task.

The railway operator must provide the infrastructure manager with information on the rolling stock that the infrastructure manager can use in the clearing operations or forward to the rescue authorities, as provided in the Commission Regulation 2015/995 (OPE TSI). The information to be provided is described in more detail in WAG TSI (Commission Regulation 321/2013) and in LOC PAS TSI (Commission Regulation 1302/2014). The railway operator must also, if necessary, instruct the breakdown gangs on how to safely recover, de-energise and safeguard the train. This is done to ensure the safety of the rolling stock and the people performing the rescue and clearing operations. In accidents and exceptional situations, the railway operator must, on request, provide specialist technical advice at its own cost.

The costs arising from accidents and clearing operations are shared by the parties in accordance with the Rail Traffic Liability Act and the indemnity legislation.

The infrastructure manager must be prepared to restore the track to an operable condition as quickly as possible and, within a reasonable time, to the condition before the accident. The infrastructure manager must agree on this with other parties when concluding railway network maintenance agreements. Performing several simultaneous tasks and the prioritisation of tasks affects the availability of clearing and rescue services.

If safety deficiencies affecting traffic in the railway network are identified, the infrastructure manager may have to reduce axle loads or speed limits.

The Ministry of Transport and Communications provides guidelines for and oversees the capacity of rail sector operators to deal with accidents and exceptional situations.

6.3 Information technology tools

See chapter 2.3.11 and details of information technology tools (in Finnish).

7 Service facilities

7.1 Introduction

Provisions on access to service facilities and rail-related services are laid down in the Commission Implementing Regulation (EU) 2017/2177.

7.2 Service facility descriptions

Under Article 4 of the Commission Implementing Regulation (EU) 2017/2177, operators of service facilities must establish a service facility description for the service facilities and services for which they are responsible.

Serviced provided by infrastructure managers

The services supplied in service facilities are referred to as basic services. The basic services provided by the Finnish Transport Infrastructure Agency are described in the service facility descriptions (Appendices 7A–7K). Details of the services located in the state-owned railway network are listed in Appendix 2B. The service facilities and the services available in them are shown in the map service of the Network Statement and in the track diagrams found in the Rail Information Extranet.

Service facilities not managed by the infrastructure manager

The service provider must submit the details of the service, access to it, the charges payable for the service, and the required agreements to the Finnish Transport Infrastructure Agency. The service facility descriptions of the services not managed by the Finnish Transport Infrastructure Agency are listed on the agency's website at: https://vayla.fi/ammattiliikenne-raiteilla/rautateiden-verkkoselostus/rataverkon-palvelun-tarjonta.

A form for submitting the information is available on the website of the Finnish Transport Infrastructure Agency - RNE Common Template for Service Facilities.

The service providers must submit the information for the Network Statement or a link to the information to the infrastructure manager by the end of September each year (Article 5(2) of the Regulation (EU) 2017/2177).

Submitting and updating the service facility information

The Finnish Transport Infrastructure Agency requires that all railway network operators must inform the agency of all changes in, decommissioning of and/or additions to equipment (services) of the service facilities when operating in the area of the Finnish Transport Infrastructure Agency. The notice is not required for changes of short duration, for example in situations in which the access point of a piece of equipment (service) is unavailable due to maintenance work if a similar access point of a piece of equipment (service) is available at the same traffic operating point and/or its part.

As a minimum requirement, the operators must state where the change, decommissioning or addition takes place, the reason for the change and the location of

the object of the change (track number or gauge given in the track diagram of the Rail Information Extranet and separately the GPS coordinates (WGS84 or ETRS-TM35FIN) or other reliable location definition that does not leave any room for interpretation concerning the location, and the date or time of decommissioning. Each notice must include a photograph of the object of the change, decommissioning or addition. For additions, a plan drawing or similar must be submitted instead of a photograph. The notice must be sent to the Finnish Transport Infrastructure Agency's registry by email (kirjaamo@ftia.fi) no later than 30 days before the change, decommissioning or addition. A notice must also be submitted of an item that has already been decommissioned and that can be disassembled as unnecessary.

The party responsible for the change (such as the project manager or area manager) is responsible for submitting the notice. The notice must contain the contact details of the notifier.

Maintaining the information on service facilities is the responsibility of Railway Maintenance. Communication with railway operators is the responsibility of the Railway Network Operation Unit.

7.3 Service facilities of the infrastructure manager

7.3.1 Passenger stations

For the service facility description of passenger stations, see Appendix 7A

7.3.2 Freight terminals

Most of the freight terminals in the state-owned railway network are timber-loading facilities.

For the service facility description of timber loading facilities, see Appendix 7D

7.3.3 Railway yards and train formation

For the service facility description of train formation yards, see Appendix 7F

For the service facility description of shunting traffic control, see Appendix 5C

At the traffic operating points of Kouvola and Tampere, the railway operators have access to inclines for the recomposing of train wagons. For the service facility description of inclines, see Appendix 7G

7.3.4 Storage sidings

For the service facility description of storage sidings, see Appendix 7H For a separate service facility description of storing wagons carrying dangerous goods, see Appendix 7J.

Maintenance facilities

The Finnish Transport Infrastructure Agency provides maintenance platforms and the necessary equipment at the Ilmala depot. The services provided by the Finnish Transport Infrastructure Agency at the Ilmala depot are described in the service facility description 'Maintenance facilities and equipment' (Appendix 7K)

The Finnish Transport Infrastructure Agency does not provide other maintenance services.

Agreements on access to maintenance services must be made with the maintenance providers. The infrastructure manager does not provide maintenance services. Maintenance services are provided by Teräspyörä and VR (31 October 2020). For more information, visit the websites of VR. and the Finnish Transport Infrastructure Agency (the information on both websites is in Finnish).

7.3.5 Other technical facilities

Use of other technical equipment (such as weighing equipment and cranes) must be agreed on with the equipment operator. The cranes located at traffic operating points are shown in Appendix 2B.

7.3.6 Services in ports

Most of the tracks in ports are private sidings and the services available are described in port service facility statements.

7.3.7 Rescue and assistance functions

A description of rescue and assistance functions and the equipment required for these will be added to the Network Statement in connection with the June 2022 update.

7.3.8 Refuelling facilities

The Finnish Transport Infrastructure Agency does not provide refuelling facilities.

The refuelling facilities provided by other parties are shown in Appendix 2B and in the map service. Refuelling facilities are provided by VR (31 October 2020). For more information on the refuelling facilities, visit the VR website (in Finnish).

Basic information on line sections

Explanations:

On	'yes'
—	'no'

AC2 electrification system 25 kV/50 Hz
ATP Automatic Train Protection

Table columns:

Network node is a traffic operating point where the route of the train can be changed.

Length of line is the distance between network nodes (in km).

Max. gradient is the maximum gradient (mm/m) on the line section measured at a distance of 1,200 m.

Electrification system indicates that the line section is electrified.

Section blocking or radio-controlled section indicates that the line section is equipped with an automatic system ensuring safe train traffic.

ATP indicates that the line section is equipped with Automatic Train Protection.

ERTMS indicates that the line section is equipped with the European Rail Traffic Management System.

ATP coding for tilting trains indicates a line section on which ATP allows higher speeds for tilting trains in curves.

Liikennepaikka (verkon solmupiste)	Liikennepaikka (verkon solmupiste)	Radan pituus	Määräävä kaltevuus	Sähköistysjärjestelmä	Suojastettu tai radio-ohjattu osuus	Junan kulunvalvontajärjestelmä	ERTMS	Kallistuvakoristen junien JKV-koodaus
Traffic operating point (network node)	Traffic operating point (network node)	Length of line	Max. gradient	Electrification system	Section blocking or radio controlled section	ATP		ATP-coding for tilting trains
Helsinki asema	Havukoski	18	10,0	AC2	On	ATP	—	On
Havukoski	Kerava asema	11	7,0	AC2	On	ATP	—	On
Kerava asema	Hyvinkää	29	7,5	AC2	On	ATP	—	On
Hyvinkää	Riihimäki asema	12	7,5	AC2	On	ATP	—	On
Kerava asema	Vuosaari	19	10,0	AC2	On	ATP	—	—
Kerava asema	Sköldvik	27	10,0	AC2	On	ATP	—	—
Kerava asema	Hakosilta	65	10,0	AC2	On	ATP	—	On
Hyvinkää	Karjaa	99	10,5	—	On	ATP	—	—
Helsinki asema	Huopalahti	6	10,0	AC2	On	ATP	—	—
Huopalahti	Havukoski	27	40,0	AC2	On	ATP	—	—
Huopalahti	Kirkkonummi	31	10,5	AC2	On	ATP	—	—
Kirkkonummi	Karjaa	49	12,0	AC2	On	ATP	—	On
Karjaa	Hanko asema	50	10,5	—	On	ATP	—	—
Karjaa	Turku asema	107	12,7	AC2	On	ATP	—	On
Turku asema	Turku satama	3	7,0	AC2	On	ATP	—	—
Riihimäki asema	Toijala	76	10,0	AC2	On	ATP	—	On
Toijala	Turku asema	128	10,5	AC2	On	ATP	—	On
Toijala	Tampere asema	40	10,0	AC2	On	ATP	—	On
Toijala	Valkeakoski	18	8,0	—	—	—	—	—
Turku asema	Raisio	8	7,0	AC2	On	ATP	—	—
Raisio	Naantali	6	9,0	—	—	—	—	—
Raisio	Uusikaupunki	57	9,0	AC2	On	ATP	—	—
Uusikaupunki	Hangonsaari	3	11,5	AC2	—	—	—	—
Tampere asema	Lielahti	6	9,0	AC2	On	ATP	—	On
Lielahti	Kokemäki	91	12,5	AC2	On	ATP	—	On
Kokemäki	Rauma	47	9,0	AC2	On	ATP	—	—
Kokemäki	Pori	38	9,5	AC2	On	ATP	—	—
Pori	Mäntyluoto	21	5,5	AC2	On	ATP	—	—
Pori	Aittaluoto	6	10,0	—	—	—	—	—
Mäntyluoto	Tahkoluoto	11	5,5	AC2	On	ATP	—	—
Lielahti	Parkano	69	10,5	AC2	On	ATP	—	On
Niinisalo	Parkano	42	10,0	—	—	—	—	—
Parkano	Seinäjoki asema	84	10,0	AC2	On	ATP	—	On
Riihimäki asema	Hakosilta	48	8,0	AC2	On	ATP	—	—
Hakosilta	Lahti	11	10,0	AC2	On	ATP	—	On
Lahti	Loviisan satama	77	12,0	—	—	—	—	—
Lahti	Heinola	38	12,0	—	—	—	—	—
Lahti	Mukkula	7	15,0	—	—	—	—	—
Lahti	Kouvola asema	61	10,0	AC2	On	ATP	—	—
Kouvola asema	Luumäki	59	10,0	AC2	On	ATP	—	—
Kouvola asema	Juurikorpi	33	10,0	AC2	On	ATP	—	—
Juurikorpi	Kotka asema	18	8,5	AC2	On	ATP	—	—
Kotka asema	Kotkan satama	1	0,0	AC2	On	ATP	—	—
Kotka Hovinsaari	Kotka Mussalo	5	6,0	AC2	—	ATP	—	—

Liikennepaikka (verkon solmupiste)	Liikennepaikka (verkon solmupiste)	Radan pituus	Määräävä kaltevuus	Sähköistysjärjestelmä	Suojastettu tai radio-ohjattu osuus	Junan kulunvalvontajärjestelmä	ERTMS	Kallistuvakoristen junien JKV-koodaus
Traffic operating point (network node)	Traffic operating point (network node)	Length of line	Max. gradient	Electrification system	Section blocking or radio controlled section	ATP		ATP-coding for tilting trains
Juurikorpi	Hamina	19	10,0	AC2	On	ATP	—	—
Kouvola asema	Kuusankoski	10	9,0	AC2	—	—	—	—
Kouvola asema	Mynttilä	86	12,0	AC2	On	ATP	—	On
Mynttilä	Ristiina	21	12,5	—	—	—	—	—
Mynttilä	Pieksämäki asema	105	11,0	AC2	On	ATP	—	On
Luumäki	Vainikkala asema	33	8,0	AC2	On	ATP	—	—
Luumäki	Lappeenranta	27	9,5	AC2	On	ATP	—	—
Lappeenranta	Mustolan satama	18	10,0	—	—	—	—	—
Lappeenranta	Imatra tavara	39	9,0	AC2	On	ATP	—	On
Imatra tavara	Imatrankoski-raja	10	11,0	—	—	—	—	—
Imatra tavara	Parikkala	60	10,0	AC2	On	ATP	—	On
Pieksämäki asema	Huutokoski	31	11,0	—	On	ATP	—	—
Huutokoski	Rantasalmi	38	12,0	—	On	ATP	—	—
Savonlinna	Parikkala	59	12,0	—	On	ATP	—	—
Parikkala	Säkäniemi	93	10,0	AC2	On	ATP	—	—
Niirala-raja	Säkäniemi	33	10,5	—	On	ATP	—	—
Säkäniemi	Joensuu asema	37	10,5	AC2	On	ATP	—	—
Joensuu asema	Ilomantsi	71	12,0	—	—	—	—	—
Joensuu asema	Viinijärvi	32	9,0	—	On	ATP	—	—
Huutokoski	Varkaus	18	10,0	—	On	ATP	—	—
Varkaus	Kommila	6	10,0	—	—	—	—	—
Varkaus	Viinijärvi	101	11,0	—	On	ATP	—	—
Joensuu asema	Uimaharju	50	17,6	—	On	ATP	—	—
Uimaharju	Lieksa	54	11,5	—	On	ATP	—	—
Lieksa	Pankakoski	6	10,0	—	—	—	—	—
Lieksa	Nurmes	56	12,5	—	On	ATP	—	—
Nurmes	Vuokatti	85	11,5	—	—	—	—	—
Vuokatti	Lahnaslampi	12	10,0	—	—	—	—	—
Vuokatti	Kontiomäki	24	10,5	—	—	—	—	—
Pieksämäki asema	Suonenjoki	38	9,0	AC2	On	ATP	—	—
Suonenjoki	Yläkoski	3	10,0	—	—	—	—	—
Suonenjoki	Siilinjärvi	76	12,0	AC2	On	ATP	—	—
Siilinjärvi	Sysmäjärvi	99	10,5	—	On	ATP	—	—
Siilinjärvi	Iisalmi	60	12,0	AC2	On	ATP	—	—
Iisalmi	Murtomäki	62	12,7	AC2	On	ATP	—	On
Murtomäki	Otanmäki	25	11,0	—	—	—	—	—
Murtomäki	Kajaani	20	12,0	AC2	On	ATP	—	On
Kontiomäki	Vartius	95	11,0	AC2	On	ATP	—	—
Vartius	Vartius-raja	2	10,0	AC2	On	ATP	—	—
Kontiomäki	Ämmänsaari	92	12,0	—	—	—	—	—
Tampere asema	Orivesi	40	12,0	AC2	On	ATP	—	On
Orivesi	Vilppula	47	12,5	—	On	ATP	—	—
Vilppula	Mänttä	8	5,0	—	—	—	—	—
Vilppula	Haapamäki	26	12,5	—	On	ATP	—	—

Liikennepaikka (verkon solmupiste)	Liikennepaikka (verkon solmupiste)	Radan pituus	Määräävä kaltevuus	Sähköistysjärjestelmä	Suojastettu tai radio-ohjattu osuus	Junan kulunvalvontajärjestelmä	ERTMS	Kallistuvakoristen junien JKV-koodaus
Traffic operating point (network node)	Traffic operating point (network node)	Length of line	Max. gradient	Electrification system	Section blocking or radio controlled section	ATP		ATP-coding for tilting trains
Haapamäki	Seinäjoki asema	118	12,0	—	On	ATP	—	—
Haapamäki	Jyväskylä	77	12,0	—	On	ATP	—	—
Orivesi	Jämsä	56	12,5	AC2	On	ATP	—	On
Jämsä	Kaipola	7	12,0	—	—	—	—	—
Jämsä	Jämsänkoski	4	10,0	AC2	On	ATP	—	On
Jämsänkoski	Jyväskylä	52	10,5	AC2	On	ATP	—	—
Jyväskylä	Äänekoski	47	10,5	AC2	On	ATP	—	—
Äänekoski	Haapajärvi	164	10,5	—	—	—	—	—
Jyväskylä	Pieksämäki asema	80	12,5	AC2	On	ATP	—	On
Seinäjoki asema	Kaskinen	112	10,0	—	On	ATP	—	—
Seinäjoki asema	Vaasa	75	12,0	AC2	On	ATP	—	—
Vaasa	Vaskiluoto	5	1,0	—	—	—	—	—
Iisalmi	Pyhäkumpu erkanemisvaihde	63	10,0	—	On	ATP	—	—
Pyhäkumpu erkanemisvaihde	Pyhäkumpu	3	3,0	—	—	—	—	—
Pyhäkumpu erkanemisvaihde	Haapajärvi	36	9,5	—	On	ATP	—	—
Haapajärvi	Ylivieska	55	8,0	—	On	ATP	—	—
Seinäjoki asema	Pännäinen	101	10,0	AC2	On	ATP	—	On
Pännäinen	Pietarsaari	10	6,0	AC2	On	ATP	—	—
Pietarsaari	Alholma	4	3,0	AC2	—	—	—	—
Pännäinen	Kokkola	33	7,0	AC2	On	ATP	—	On
Kokkola	Ykspihlaja	5	10,0	AC2	—	ATP	—	—
Kokkola	Ylivieska	79	10,0	AC2	On	ATP	—	On
Ylivieska	Tuomioja	68	10,0	AC2	On	ATP	—	On
Tuomioja	Raahe	28	10,0	AC2	On	ATP	—	—
Raahe	Rautaruukki	9	10,0	AC2	—	—	—	—
Tuomioja	Oulu asema	54	10,0	AC2	On	ATP	—	On
Oulu asema	Kontiomäki	166	10,0	AC2	On	ATP	—	—
Oulu asema	Kemi	105	10,0	AC2	On	ATP	—	—
Kemi	Ajos	9	10,0	—	—	—	—	—
Kemi	Laurila	7	10,0	AC2	On	ATP	—	—
Laurila	Tornio asema	19	7,5	—	On	ATP	—	—
Laurila	Rovaniemi	106	10,0	AC2	On	ATP	—	—
Rovaniemi	Kemijärvi	85	12,0	AC2	On	ATP	—	—
Kemijärvi	Patokangas	9	12,0	AC2	On	ATP	—	—
Tornio asema	Tornio-raja	3	4,0	—	On	ATP	—	—
Tornio asema	Röyttä	8	8,0	—	—	—	—	—
Tornio asema	Kolari	183	10,5	—	On	ATP	—	—
Sysmäjärvi	Vuonos	7	10,0	—	—	—	—	—
Viinijärvi	Sysmäjärvi	13	7,5	—	On	ATP	—	—
Murtomäki	Talvivaara	24	12,5	AC2	On	ATP	—	—
Kajaani	Lamminniemi	3	10,0	—	—	—	—	—
Kajaani	Kontiomäki	26	12,0	AC2	On	ATP	—	—

Railway traffic points

Legend:

( ) in platform columns	The platform is not maintained by the FTIA; the safety of and public access to the platform from public areas are the responsibility of the railway operator using the platform
Y	Yes
P	Yes, private
K in traffic control columns	CTC
M in traffic control columns	manual

Columns:

Name is the official name of the traffic operating point used for traffic safety purposes.

Second name is the name of the traffic operating point in Finland's second official language (Swedish). Sköldvik is the only locality where the Swedish name is used as the official name of the traffic operating point. The Finnish name 'Kilpilahti' is used as the second name even though the locality has a Finnish-speaking majority.

Abbreviation is the abbreviation for the name of the traffic operating point.

Commercial name of the traffic operating point is given if it differs from the official

name used for traffic safety purposes.

Km Hki gives the distance of the traffic operating point from the old station building

of Helsinki (demolished in 1918), as measured using a track kilometre system. In this system, the location of all track elements is based on landmarks.

Municipality is the municipality in which the traffic operating point is located.

Traffic control indicates whether the traffic operating point has the technical facilities for controlling train traffic manually or using CTC. However, even if the facilities are available, traffic control services are not necessarily provided on a regular basis.

The K in **private sidings** indicates that the traffic operating point has at least one connection to a private siding (a siding not owned by the FTIA).

The K in **shunting** indicates that the tracks at the traffic operating point are arranged so that at least a locomotive can move to the other end of a train without having to use the through track.

Minimum and maximum platform length indicates the minimum and maximum

length of platforms used by passenger trains at the traffic operating point. A passenger train should not be longer than the platform at which it stops. If the platform length is shown in brackets, the platform is not maintained by the FTIA and the

services are the responsibility of the railway operator.

Platform height indicates the nominal height of platforms used by passenger trains, as calculated from the rail surface.

Design train length indicates the longest track of the traffic operating point (other than the through track). The length is measured in such a way that it can be used in both directions.

Power supply shows the traffic operating points where a power supply of 400 V or 1,500 V is available (mainly for rolling stock and track machinery).

Side loading platform shows the traffic operating points where freight wagons can be loaded from the side, and the maximum platform length at the traffic operating point in question.

End loading platform shows the traffic operating points where freight wagons can be loaded from the end of the wagon (combined transports).

Loading site shows the traffic operating points where freight wagons can be loaded at rail level. A typical example is the loading of raw timber

from a road vehicle or an intermediate depot in the railway yard onto flat wagons.

Crane shows the traffic operating points where a crane can be used to load wagons and the maximum capacity of the crane. This service is not provided by the FTIA.

Fuel shows the traffic operating points with a refuelling facility. This service is not provided by the FTIA.

Passenger transport shows the traffic operating points with facilities for passenger services.

Freight transport shows the traffic operating points with facilities for freight services.

Turntable shows the traffic operating points where a turntable can be used. If the turntable is privately owned it is marked with Y. If it is owned by the infrastructure manager,

the length of the turntable is given.

Railway yards for dangerous goods shows the traffic operating points where wagons loaded with dangerous goods can be handled.

Name	Second name	Abbreviation	Commercial name	Type	Km Hki	Koodi	Line section	Municipality	Traffic control	Private sidings	Vaihtotyön mahdollisuus
Name	Second name	Abbreviation	Commercial name	Type	Km Hki	Code	Line section	Municipality	Traffic control	Private sidings	Shunting
Ahonpää		Aho		Traffic operating point	690+468	01343	Seinäjoki–Oulu	Siikajoki	K		K
Ahvenus		Ahv		Traffic operating point	270+960	01000	Lielahti–Kokemäki	Kokemäki	K		
Ainola		Ain		Seisake/Halt	34+784	00628	Helsinki–Riihimäki	Järvenpää			
Airaksela		Arl		Traffic operating point	436+985	00869	Pieksämäki–Kontiomäki	Kuopio	K	K	K
Aittaluoto		Atl		Traffic operating point	328+220	00676	Pori–Aittaluoto	Pori		K	K
Ajos		Ajo		Traffic operating point	867+098	00767	Kemi–Ajos	Kemi		K	K
Alapitkä		Apt		Traffic operating point	505+840	00415	Pieksämäki–Kontiomäki	Lapinlahti	K		K
Alavus		Alv		Traffic operating point	373+445	00284	Orivesi–Seinäjoki	Alavus	K		K
Alholma	Alholmen	Alh		Traffic operating point	532+570	00308	Pietarsaari–Alholma	Pietarsaari		K	K
Arola		Aro		Traffic operating point	707+668	00939	Kontiomäki–Vartius-raja	Hyrynsalmi	K		K
Asola		Aso		Traffic operating point	31+596	01340	Huopalahti–Havukoski	Vantaa	K		
Aviapolis		Avp		Seisake/Halt	25+135	01331	Huopalahti–Havukoski	Vantaa			
Dragsvik		Dra		Traffic operating point	171+180	00167	Karjaa–Hanko	Raasepori	K		
Dynamiittivaihde		Dmv		Linjavaihde/Junction	199+185	00581	Karjaa–Hanko	Hanko		K	K
Eläinpuisto-Zoo		Epz		Seisake/Halt	338+683	00623	Orivesi–Seinäjoki	Ähtäri			
Eno		Eno		Traffic operating point	660+170	00464	Joensuu–Nurmes	Joensuu	K		K
Ervelä		Erv		Traffic operating point	119+816	01004	Helsinki–Turku satama	Salo	K		
Eskola		Ela		Traffic operating point	603+762	00318	Seinäjoki–Oulu	Kannus	K		K
Espoo	Esbo	Epo		Traffic operating point	20+600	00066	Helsinki–Turku satama	Espoo	K		
Haapajärvi		Hpj		Traffic operating point	649+205	00330	Iisalmi–Ylivieska, Äänekoski–Haapajärvi	Haapajärvi	K		K
Haapakoski		Hps		Traffic operating point	393+454	00402	Pieksämäki–Kontiomäki	Pieksämäki	K		K
Haapamäen kyllästämö		Hmk		Linjavaihde/Junction	304+940	01008	Orivesi–Seinäjoki	Keuruu		K	
Haapamäki		Hpk		Traffic operating point	300+235	00200	Haapamäki–Jyväskylä, Orivesi–Seinäjoki	Keuruu	K	K	K
Haarajoki		Haa		Traffic operating point	39+567	00013	Kerava–Hakosilta	Järvenpää	K		
Hakosilta		Hlt		Traffic operating point	119+540	01014	Kerava–Hakosilta, Riihimäki–Kouvola	Hollola	K		
Haksi	Hax	Hsi		Seisake/Halt	56+737	01015	Olli–Porvoo	Porvoo			
Hamina	Fredrikshamn	Hma		Traffic operating point	243+646	00527	Juurikorpi–Hamina	Hamina	M	K	K
Hammaslahti		Hsl		Traffic operating point	602+199	00451	Kouvola–Joensuu	Joensuu	K		K
Hanala	Hanaböle	Hna		Traffic operating point	21+394	01018	Helsinki–Riihimäki	Vantaa	K		
Hangonsaari		Hgs		Traffic operating point	268+680	01020	Uusikaupunki–Hangonsaari	Uusikaupunki		K	K
Hanhikoski		Hnh		Linjavaihde/Junction	1047+083	00812	Laurila–Kemijärvi	Kemijärvi			K
Hankasalmi		Hks		Traffic operating point	418+089	00427	Jyväskylä–Pieksämäki	Hankasalmi	K	K	K
HANKO		**Han**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Karjaa–Hanko**		**K**		
Hanko station	*Hangö*	*Hnk*	*Hanko*	*Liikennepaikan osa (Hanko)/Part of a traffic operating point (Hanko)*	*207+119*	*00073*		*Hanko*		*K*	*K*
Hanko cargo		*Hnkt*		*Liikennepaikan osa (Hanko)/Part of a traffic operating point (Hanko)*	*206+350*	*01317*		*Hanko*			*K*
Hanko-Pohjoinen	*Hangö Norra*	*Hkp*		*Liikennepaikan osa (Hanko)/Part of a traffic operating point (Hanko)*	*205+935*	*00879*		*Hanko*			
Harjavalta		Hva		Traffic operating point	295+542	00218	Kokemäki–Pori	Harjavalta	K	K	K
Harju		Hj		Traffic operating point	201+643	00985	Kouvola–Pieksämäki	Kouvola	K		K
Harviala		Hrv		Traffic operating point	99+456	00622	Riihimäki–Tampere	Janakkala	K		
Haukipudas		Hd		Traffic operating point	775+159	00342	Oulu–Laurila	Oulu	K		K
Haukivuori		Hau		Traffic operating point	344+442	00549	Kouvola–Pieksämäki	Mikkeli	K		K
HAUSJÄRVI		**Hjr**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Riihimäki–Kouvola**		**K**		
Hausjärvi cargo		*Has*		*Liikennepaikan osa (Hausjärvi)/Part of a traffic operating point (Hausjärvi)*	*86+210*	*00340*		*Hausjärvi*			*K*

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Oitti		*Oi*		*Liikennepaikan osa (Hausjärvi)/Part of a traffic operating point (Hausjärvi)*	*86+809*	*00092*		*Hausjärvi*			
Haviseva		Hvs		Traffic operating point	208+135	01021	Tampere–Jyväskylä	Kangasala	K		
Heikkilä		Hek		Traffic operating point	34+856	01023	Helsinki–Turku satama	Kirkkonummi	K		
Heinola		Ha		Traffic operating point	167+607	00113	Lahti–Heinola	Heinola	M	K	K
Heinoo		Hno		Traffic operating point	237+965	01025	Lielahti–Kokemäki	Sastamala	K		
Heinävaara		Häv		Traffic operating point	648+408	00924	Joensuu–Ilomantsi	Joensuu			K
Heinävesi		Hnv		Traffic operating point	468+135	00437	Pieksämäki–Joensuu	Heinävesi	K		K
HELSINKI		**Hel**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Helsinki–Turku satama, Helsinki–Riihimäki**		**M**		
Helsinki station	*Helsingfors*	*Helsinki*	*Helsinki päärautatieasema*	*Liikennepaikan osa (Helsinki)/Part of a traffic operating point (Helsinki)*	*0+159*	*00001*		*Helsinki*			*K*
Pasila station	*Böle*	*Psl*	*Pasila*	*Liikennepaikan osa (Helsinki)/Part of a traffic operating point (Helsinki)*	*3+230*	*00010*		*Helsinki*			
Pasila autojuna-station	*Böle biltågstation*	*Pau*		*Liikennepaikan osa (Helsinki)/Part of a traffic operating point (Helsinki)*	*4+319*	*01328*		*Helsinki*			
Ilmala station		*Ila*	*Ilmala*	*Liikennepaikan osa (Helsinki)/Part of a traffic operating point (Helsinki)*	*4+434*	*00009*		*Helsinki*			
Helsinki Kivihaka	*Stenhagen*	*Khk*		*Liikennepaikan osa (Helsinki)/Part of a traffic operating point (Helsinki)*	*4+701*	*01028*		*Helsinki*			
Pasila cargo		*Pslt*		*Liikennepaikan osa (Helsinki)/Part of a traffic operating point (Helsinki)*	*4+748*	*01034*		*Helsinki*		*K*	*K*
Ilmala railway yard		*Ilr*		*Liikennepaikan osa (Helsinki)/Part of a traffic operating point (Helsinki)*	*4+950*	*01030*		*Helsinki*		*K*	*K*
Käpylä	*Kottby*	*Käp*		*Liikennepaikan osa (Helsinki)/Part of a traffic operating point (Helsinki)*	*5+840*	*00977*		*Helsinki*			
Oulunkylä	*Åggelby*	*Olk*		*Liikennepaikan osa (Helsinki)/Part of a traffic operating point (Helsinki)*	*7+399*	*00015*		*Helsinki*		*K*	
Henna		Hnn		Traffic operating point	79+373	01164	Kerava–Hakosilta	Orimattila	K		
Herrala		Hr		Seisake/Halt	115+790	00096	Riihimäki–Kouvola	Hollola			
Hiirola		Hir		Traffic operating point	318+957	00997	Kouvola–Pieksämäki	Mikkeli	K		
Hikiä		Hk		Seisake/Halt	79+743	00091	Riihimäki–Kouvola	Hausjärvi		K	
Hillosensalmi		Hls		Traffic operating point	233+344	00988	Kouvola–Pieksämäki	Kouvola	K		
Hinthaara	Hindhår	Hh		Seisake/Halt	52+150	00561	Olli–Porvoo	Porvoo			
Hirvineva		Hvn		Traffic operating point	715+500	01041	Seinäjoki–Oulu	Liminka	K		K
Humppila		Hp		Traffic operating point	188+778	00144	Toijala–Turku	Humppila	K	K	K
Huopalahti	Hoplax	Hpl		Traffic operating point	6+375	00072	Helsinki–Turku satama, Huopalahti–Havukoski	Helsinki	K		
Huutokoski		Hko		Traffic operating point	406+988	00430	Pieksämäki–Joensuu, Huutokoski–Savonlinna	Joroinen	K	K	
Hyrkäs		Hyr		Traffic operating point	800+442	01348	Oulu–Kontiomäki	Muhos	K		
Hyrynsalmi		Hys		Traffic operating point	704+601	00392	Kontiomäki–Ämmänsaari	Hyrynsalmi	M		K
Hyvinkää	Hyvinge	Hy		Traffic operating point	58+792	00030	Helsinki–Riihimäki, Hyvinkää–Karjaa	Hyvinkää	K	K	K
Hämeenlinna	Tavastehus	Hl		Traffic operating point	107+559	00047	Riihimäki–Tampere	Hämeenlinna	K	K	K
Härmä		Hm		Traffic operating point	472+940	00300	Seinäjoki–Oulu	Kauhava	K		K
Höljäkkä		Höl		Seisake/Halt	765+261	00938	Joensuu–Nurmes	Nurmes		K	K
Ii		Ii		Traffic operating point	789+165	00343	Oulu–Laurila	Ii	K		K
Iisalmen teollisuusraiteet	Keveli	Itr		Linjavaihde/Junction	548+611	01049	Pieksämäki–Kontiomäki	Iisalmi		K	K
Iisalmi	Idensalmi	Ilm		Traffic operating point	550+360	00420	Iisalmi–Ylivieska, Pieksämäki–Kontiomäki	Iisalmi	K	K	K

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Name	**Second name**	**Abbreviation**	**Commercial name**	**Type**	**Km Hki**	**Code**	**Line section**	**Municipality**	**Traffic control**	**Private sidings**	**Shunting**
Iittala		Ita		Seisake/Halt	129+286	00154	Riihimäki–Tampere	Hämeenlinna			
Ilola		Ioa		Seisake/Halt	155+102	01345	Toijala–Valkeakoski	Valkeakoski			
Ilomantsi	Ilomants	Ilo		Traffic operating point	695+203	00459	Joensuu–Ilomantsi	Ilomantsi	M	K	K
IMATRA		**Ima**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Kouvola–Joensuu, Imatra cargo–Imatrankoski-raja**	**Imatra**	**K**		
Imatra station		*Imr*	*Imatra*	*Liikennepaikan osa (Imatra)/Part of a traffic operating point (Imatra)*	*323+977*	*00603*		*Imatra*			
Imatra cargo		*Imt*		*Liikennepaikan osa (Imatra)/Part of a traffic operating point (Imatra)*	*326+542*	*00502*		*Imatra*		*K*	*K*
Imatrankoski		*Imk*		*Liikennepaikan osa (Imatra)/Part of a traffic operating point (Imatra)*	*331+267*	*00504*		*Imatra*		*K*	*K*
Immola		*Im*		*Liikennepaikan osa (Imatra)/Part of a traffic operating point (Imatra)*	*332+699*	*01352*		*Imatra*			
Pelkola		*Pa*		*Liikennepaikan osa (Imatra)/Part of a traffic operating point (Imatra)*	*335+672*	*01055*		*Imatra*		*K*	*K*
Imatrankoski-raja		Imkr		Traffic operating point	337+095	00503	Imatra cargo–Imatrankoski-raja	Imatra			
Inha		In		Linjavaihde/Junction	341+367	00264	Orivesi–Seinäjoki	Ähtäri			K
Inkeroinen		Ikr		Traffic operating point	212+781	00530	Kouvola–Kotka	Kouvola	K	K	K
Inkoo	Ingå	Iko		Traffic operating point	70+620	00062	Helsinki–Turku satama	Inkoo	K		K
Isokyrö	Storkyro	Iky		Traffic operating point	447+488	00295	Seinäjoki–Vaasa	Isokyrö	K		K
Jalasjärvi		Jal		Traffic operating point	309+871	00276	Tampere–Seinäjoki	Kurikka	K		K
Jepua	Jeppo	Jpa		Traffic operating point	495+784	00303	Seinäjoki–Oulu	Uusikaarlepyy	K		K
JOENSUU		**Joe**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Pieksämäki–Joensuu, Kouvola–Joensuu, Joensuu–Ilomantsi, Joensuu–Nurmes**		**M**		
Joensuu Sulkulahti		*Sul*		*Liikennepaikan osa (Joensuu)/Part of a traffic operating point (Joensuu)*	*622+650*	*01071*		*Joensuu*			*K*
Joensuu Peltola		*Plt*		*Liikennepaikan osa (Joensuu)/Part of a traffic operating point (Joensuu)*	*623+540*	*01070*		*Joensuu*		*K*	*K*
Joensuu station		*Jns*	*Joensuu*	*Liikennepaikan osa (Joensuu)/Part of a traffic operating point (Joensuu)*	*624+313*	*00460*		*Joensuu*			*K*
Jokela		Jk		Traffic operating point	47+937	00028	Helsinki–Riihimäki	Tuusula	K		K
Joroinen	Jorois	Jor		Linjavaihde/Junction	414+617	00431	Huutokoski–Savonlinna	Joroinen			K
Jorvas		Jrs		Seisake/Halt	32+322	00578	Helsinki–Turku satama	Kirkkonummi			
Joutseno		Jts		Traffic operating point	305+826	00499	Kouvola–Joensuu	Lappeenranta	K	K	K
Juankoski		Jki		Traffic operating point	532+005	00414	Siilinjärvi–Viinijärvi	Kuopio	K		K
Jutila		Jut		Traffic operating point	94+620	01085	Riihimäki–Kouvola	Kärkölä	K		
Juupajoki		Jj		Seisake/Halt	246+580	00627	Orivesi–Seinäjoki	Juupajoki			
Juurikorpi		Jri		Traffic operating point	224+898	00535	Kouvola–Kotka, Juurikorpi–Hamina	Kotka	K		
Jyväskylä		Jy		Traffic operating point	340+970	00240	Jyväskylä–Pieksämäki, Haapamäki–Jyväskylä, Jyväskylä–Äänekoski, Tampere–Jyväskylä	Jyväskylä	K	K	K
Jämsä		Jäs		Traffic operating point	284+084	00204	Jämsä–Kaipola, Tampere–Jyväskylä	Jämsä	K		K
Jämsänkoski		Jsk		Traffic operating point	287+917	00205	Tampere–Jyväskylä	Jämsä	K	K	K
Järvelä		Jr		Traffic operating point	103+596	00095	Riihimäki–Kouvola	Kärkölä	K	K	K
JÄRVENPÄÄ		**Jvp**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Helsinki–Riihimäki**		**K**		

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Name	**Second name**	**Abbreviation**	**Commercial name**	**Type**	**Km Hki**	**Code**	**Line section**	**Municipality**	**Traffic control**	**Private sidings**	**Shunting**
Järvenpää station	*Träskända*	*Jp*	*Järvenpää*	*Liikennepaikan osa (Järvenpää)/Part of a traffic operating point (Järvenpää)*	*36+786*	*00025*		*Järvenpää*			
Saunakallio		*Sau*		*Liikennepaikan osa (Järvenpää)/Part of a traffic operating point (Järvenpää)*	*38+846*	*00806*		*Järvenpää*		*K*	*K*
Purola		*Pur*		*Liikennepaikan osa (Järvenpää)/Part of a traffic operating point (Järvenpää)*	*40+533*	*00564*		*Järvenpää*	*K*		
Kaipiainen		Kpa		Traffic operating point	214+451	00485	Kouvola–Joensuu	Kouvola	K	K	K
Kaipola		Kla		Traffic operating point	290+303	00656	Jämsä–Kaipola	Jämsä		K	K
Kaitjärvi		Kjr		Traffic operating point	226+912	00944	Kouvola–Joensuu	Luumäki	K		
Kajaani	Kajana	Kaj		Traffic operating point	633+491	00387	Pieksämäki–Kontiomäki, Kajaani–Lamminniemi	Kajaani	K		K
Kaleton		Ktn		Linjavaihde/Junction	320+875	00697	Haapamäki–Jyväskylä	Keuruu			
Kalkku		Kau		Traffic operating point	199+471	00639	Lielahti–Kokemäki	Tampere	K	K	
Kalliovarasto		Kao		Linjavaihde/Junction	644+770	01090	Pieksämäki–Kontiomäki	Kajaani		K	
Kalvitsa		Ksa		Traffic operating point	330+634	00548	Kouvola–Pieksämäki	Mikkeli	K		K
Kangas		Kgs		Traffic operating point	642+466	01092	Seinäjoki–Oulu	Ylivieska	K		K
Kannelmäki	Gamlas	Kan		Traffic operating point	9+300	00658	Huopalahti–Havukoski	Helsinki	K		
Kannonkoski		Ksi		Traffic operating point	488+694	00256	Äänekoski–Haapajärvi	Kannonkoski	M		K
Kannus		Kns		Traffic operating point	591+582	00317	Seinäjoki–Oulu	Kannus	K		K
Karhejärvi		Krr		Traffic operating point	224+902	01095	Tampere–Seinäjoki	Ylöjärvi	K		K
Karhukangas		Khg		Traffic operating point	622+897	01097	Seinäjoki–Oulu	Ylivieska	K		
Karjaa	Karis	Kr		Traffic operating point	157+817	00060	Helsinki–Turku satama, Hyvinkää–Karjaa, Karjaa–Hanko	Raasepori	K	K	K
Karkku		Kru		Traffic operating point	230+733	00178	Lielahti–Kokemäki	Sastamala	K		K
Karviainen		Kar		Traffic operating point	247+320	01100	Toijala–Turku	Aura	K		
Kaskinen	Kaskö	Ksk		Traffic operating point	530+522	00267	Seinäjoki–Kaskinen	Kaskinen	K	K	K
Kattilaharju		Kth		Traffic operating point	205+556	01319	Kouvola–Joensuu	Kouvola	K		
Kauhajoki		Kji		Traffic operating point	472+720	00272	Seinäjoki–Kaskinen	Kauhajoki	K		
Kauhava		Kha		Traffic operating point	455+728	00299	Seinäjoki–Oulu	Kauhava	K	K	K
Kauklahti	Köklax	Klh	Kauklahti	Traffic operating point	24+277	00065	Helsinki–Turku satama	Espoo			K
Kaulinranta		Klr		Traffic operating point	963+350	00790	Tornio–Kolari	Ylitornio	K		
Kauniainen	Grankulla	Kni		Traffic operating point	16+054	00067	Helsinki–Turku satama	Kauniainen	K		K
Kauppilanmäki		Quantity		Traffic operating point	568+751	00423	Pieksämäki–Kontiomäki	Iisalmi	K		Y
Kausala		Ka		Seisake/Halt	169+425	00477	Riihimäki–Kouvola	Iitti			
Keitelepohja		Ktp		Traffic operating point	519+256	00257	Äänekoski–Haapajärvi	Viitasaari	M		K
Kekomäki		Kek		Traffic operating point	79+288	01101	Riihimäki–Kouvola	Hausjärvi	K		
KEMI		**Kmi**		**Osiin jaettu liikennepaikka/Divi**	**–**	**–**	**Oulu–Laurila, Kemi–Ajos**		**K**		
Kemi station		*Kem*	*Kemi*	*Part of a traffic operating point (*	*858+300*	*00347*	*Oulu–Laurila, Kemi–Ajos*	*Kemi*		*K*	*K*
Kemi Sahansaari		*Shs*		*Part of an opeation point (Kemi)*	*861+275*	*01363*	*Oulu–Laurila*	*Kemi*		*K*	*K*
Lautiosaari		*Li*		*Part of an opeation point (Kemi)*	*863+064*	*00829*	*Lautiosaari–Elijärvi, Oulu–Laurila*	*Kemi*	*K*		
Kemijärvi		Kjä		Traffic operating point	1056+399	00367	Kemijärvi–Kelloselkä, Laurila–Kemijärvi	Kemijärvi	K	K	K
Kempele		Kml		Traffic operating point	741+075	00769	Seinäjoki–Oulu	Kempele	K		K
Kera		Kea		Seisake/Halt	14+536	00621	Helsinki–Turku satama	Espoo			
KERAVA		**Kev**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	**–**	**–**	**Helsinki–Riihimäki, Kerava–Hakosilta, Kerava–Sköldvik, Kerava–Vuosaari**		**K**		
Kerava station	*Kervo*	*Ke*	*Kerava*	*Liikennepaikan osa (Kerava)/Part of a traffic operating point (Kerava)*	*28+869*	*00020*		*Kerava*		*K*	*K*
Kytömaa		*Kyt*		*Liikennepaikan osa (Kerava)/Part of a traffic operating point (Kerava)*	*31+274*	*01111*		*Kerava*			
Kerimäki		Kiä		Traffic operating point	495+531	00522	Savonlinna–Parikkala	Savonlinna	K		K
Kesälahti		Kti		Traffic operating point	428+003	00966	Kouvola–Joensuu	Kitee	K		

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Keuruu		Keu		Traffic operating point	316+041	00235	Haapamäki–Jyväskylä	Keuruu	K		K
Kiiala	Kiala	Kia		Seisake/Halt	60+013	01113	Olli–Porvoo	Porvoo			
Kilo		Kil		Seisake/Halt	13+035	00580	Helsinki–Turku satama	Espoo			
Kilpua		Kua		Traffic operating point	668+910	01115	Seinäjoki–Oulu	Oulainen	K		K
Kinahmi		Knh		Linjavaihde/Junction	508+922	00873	Siilinjärvi–Viinijärvi	Kuopio		K	
Kinni		Kii		Traffic operating point	247+982	01120	Kouvola–Pieksämäki	Mäntyharju	K		
Kirjola		Kij		Linjavaihde/Junction	384+475	01123	Kouvola–Joensuu	Parikkala		K	
Kirkkonummi	Kyrkslätt	Kkn		Traffic operating point	37+503	00063	Helsinki–Turku satama	Kirkkonummi	K		K
Kirkniemi	Gerknäs	Krn		Traffic operating point	136+261	00079	Hyvinkää–Karjaa	Lohja	K	K	K
Kitee		Kit		Traffic operating point	460+016	00453	Kouvola–Joensuu	Kitee	K		K
Kiukainen		Kn		Traffic operating point	297+395	00169	Kokemäki–Rauma	Eura	K		K
Kiuruvesi		Krv		Traffic operating point	583+985	00417	Iisalmi–Ylivieska	Kiuruvesi	Y	Y	Y
Kivesjärvi		Kvj		Traffic operating point	878+146	00378	Oulu–Kontiomäki	Paltamo	Y		
Kivistö		Ktö		Seisake/Halt	18+279	01330	Huopalahti–Havukoski	Vantaa			
Kohtavaara		Koh		Seisake/Halt	775+774	00848	Joensuu–Nurmes	Nurmes			
Koivu		Kvu		Traffic operating point	923+373	00362	Laurila–Kemijärvi	Tervola	K		K
Koivuhovi	Björkgård	Kvh		Seisake/Halt	17+861	00675	Helsinki–Turku satama	Espoo			
Koivukylä	Björkby	Kvy		Seisake/Halt	19+440	00559	Helsinki–Riihimäki	Vantaa			
Kokemäki	Kumo	Kki		Traffic operating point	284+442	00170	Lielahti–Kokemäki, Kokemäki–Rauma, Kokemäki–Pori	Kokemäki	K		K
Kokkola	Karleby	Kok		Traffic operating point	551+441	00312	Kokkola–Ykspihlaja, Seinäjoki–Oulu	Kokkola	K	K	K
Kolari		Kli		Traffic operating point	1067+206	00358	Tornio–Kolari	Kolari	K		K
Kolho		Klo		Seisake/Halt	286+265	00199	Orivesi–Seinäjoki	Mänttä-Vilppula			K
Kolppi	Kållby	Kpi		Traffic operating point	525+100	00309	Seinäjoki–Oulu	Pedersöre	K		K
Kommila		Kmm		Traffic operating point	429+700	00500	Varkaus–Kommila	Varkaus		K	K
Komu		Kom		Linjavaihde/Junction	607+174	00758	Iisalmi–Ylivieska	Pyhäjärvi		K	
Kontiolahti		Khi		Traffic operating point	640+295	00463	Joensuu–Nurmes	Kontiolahti	K		K
Kontiomäki		Kon		Traffic operating point	658+786	00390	Nurmes–Kontiomäki, Oulu–Kontiomäki, Kontiomäki–Ämmänsaari, Pieksämäki–Kontiomäki, Kontiomäki–Vartius-raja	Paltamo	K	K	K
Koria		Kra		Seisake/Halt	185+374	00478	Riihimäki–Kouvola	Kouvola			
Korkeakoski		Kas		Traffic operating point	247+910	00193	Orivesi–Seinäjoki	Juupajoki	K	K	K
Korso		Krs		Seisake/Halt	22+740	00019	Helsinki–Riihimäki	Vantaa			
Korvensuo		Ksu		Traffic operating point	50+500	01128	Kerava–Hakosilta	Mäntsälä	K		
Koskenkorva		Kos		Traffic operating point	442+447	00274	Seinäjoki–Kaskinen	Ilmajoki	M		K
KOTKA		**Kot**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Kouvola–Kotka, Kotka Hovinsaari–Kotka Mussalo**		**M**		
Kotka Hovinsaari		*Hos*		*Liikennepaikan osa (Kotka)/Part of a traffic operating point (Kotka)*	*240+400*	*00980*		*Kotka*		*K*	*K*
Kotka cargo		*Ktt*		*Liikennepaikan osa (Kotka)/Part of a traffic operating point (Kotka)*	*240+870*	*01130*		*Kotka*			*K*
Paimenportti		*Pti*		*Liikennepaikan osa (Kotka)/Part of a traffic operating point (Kotka)*	*241+190*	*00768*		*Kotka*			
Kotka station		*Kta*	*Kotka*	*Liikennepaikan osa (Kotka)/Part of a traffic operating point (Kotka)*	*242+775*	*00532*		*Kotka*		*K*	*K*
Kotkan satama		*Kts*		*Liikennepaikan osa (Kotka)/Part of a traffic operating point (Kotka)*	*243+579*	*00644*		*Kotka*		*K*	*K*
Kotolahti		*Koo*		*Liikennepaikan osa (Kotka)/Part of a traffic operating point (Kotka)*	*245+203*	*01329*		*Kotka*		*K*	*K*
Kotka Mussalo		*Mss*		*Liikennepaikan osa (Kotka)/Part of a traffic operating point (Kotka)*	*247+057*	*00557*		*Kotka*		*K*	*K*

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KOUVOLA		**Kvl**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Riihimäki–Kouvola, Kouvola–Pieksämäki, Kouvola–Kotka, Kouvola–Joensuu, Kouvola–Kuusankoski**		**M**		
Kouvola station		*Kouvola*	*Kouvola*	*Liikennepaikan osa (Kouvola)/Part of a traffic operating point (Kouvola)*	*191+540*	*00480*		*Kouvola*		*K*	*K*
Kouvola lajittelu		*Kvla*		*Liikennepaikan osa (Kouvola)/Part of a traffic operating point (Kouvola)*	*192+570*	*01132*		*Kouvola*		*K*	*K*
Kouvola cargo		*Kvt*		*Liikennepaikan osa (Kouvola)/Part of a traffic operating point (Kouvola)*	*194+050*	*01134*		*Kouvola*		*K*	*K*
Kouvola Oikoraide		*Oik*		*Liikennepaikan osa (Kouvola)/Part of a traffic operating point (Kouvola)*	*194+460*	*01133*		*Kouvola*			
Kullasvaara		*Kuv*		*Liikennepaikan osa (Kouvola)/Part of a traffic operating point (Kouvola)*	*197+300*	*01320*		*Kouvola*			
Kovjoki		Koi		Traffic operating point	508+925	00745	Seinäjoki–Oulu	Uusikaarlepyy	K		
Kruunupyy	Kronoby	Kpy		Traffic operating point	537+585	00311	Seinäjoki–Oulu	Kruunupyy	K	K	K
Kuivasjärvi		Kis		Traffic operating point	276+327	01137	Tampere–Seinäjoki	Parkano	K		K
KUOPIO		**Kpo**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Pieksämäki–Kontiomäki**		**M**		
Kuopio station		*Kuo*	*Kuopio*	*Liikennepaikan osa (Kuopio)/Part of a traffic operating point (Kuopio)*	*464+590*	*00408*		*Kuopio*			*K*
Kuopio cargo		*Kuot*		*Liikennepaikan osa (Kuopio)/Part of a traffic operating point (Kuopio)*	*465+500*	*01139*		*Kuopio*		*K*	*K*
Kuopio Iloharju		*Ilh*		*Liikennepaikan osa (Kuopio)/Part of a traffic operating point (Kuopio)*	*462+550*	*01366*		*Kuopio*			
Kurkimäki		Krm		Traffic operating point	444+074	00406	Pieksämäki–Kontiomäki	Kuopio	K		K
Kuurila		Ku		Traffic operating point	138+769	00626	Riihimäki–Tampere	Hämeenlinna	K		
Kuusankoski		Kuk		Traffic operating point	199+290	00537	Kouvola–Kuusankoski	Kouvola	M	K	K
Kuusikkoniemi		Ksn		Traffic operating point	906+763	01356	Oulu–Kontiomäki	Paltamo	Y		
Kylänlahti		Kyn		Seisake/Halt	742+912	00937	Joensuu–Nurmes	Lieksa			
Kymi	Kymmene	Ky		Traffic operating point	233+450	00534	Kouvola–Kotka	Kotka	M	K	K
Kyminlinna		Kln		Seisake/Halt	237+255	00981	Kouvola–Kotka	Kotka			
Kyrö		Kö		Traffic operating point	232+875	00139	Toijala–Turku	Karinainen	K		K
Kälviä	Kelviå	Klv		Traffic operating point	570+273	00316	Seinäjoki–Oulu	Kokkola	K		
Köykkäri		Kök		Traffic operating point	486+491	01144	Seinäjoki–Oulu	Kauhava	K		
Laajavuori		Lav		Traffic operating point	14+527	01341	Huopalahti–Havukoski	Vantaa	Y		
Lahdenperä		Lpr		Traffic operating point	267+080	01149	Tampere–Jyväskylä	Jämsä	Y		
Lahnaslampi		Lhn		Traffic operating point	880+297	00871	Vuokatti–Lahnaslampi	Sotkamo		K	K
Lahti	Lahtis	Lh		Traffic operating point	130+170	00100	Riihimäki–Kouvola, Lahti–Heinola, Lahti–Mukkula, Lahti–Loviisan satama	Lahti	K	K	K
Laihia	Laihela	Lai		Traffic operating point	468+916	00293	Seinäjoki–Vaasa	Laihia	K		K
Lakiala		Lak		Traffic operating point	209+214	00212	Tampere–Seinäjoki	Ylöjärvi	K		K
Lamminkoski		Lmk		Traffic operating point	268+785	01151	Tampere–Seinäjoki	Parkano	K		
Lamminniemi		Lam		Traffic operating point	636+664	00845	Kajaani–Lamminniemi	Kajaani		Y	Y
Lapinjärvi	Lappträsk	Lpj		Traffic operating point	185+432	00108	Lahti–Loviisan satama	Lapinjärvi	M		K
Lapinlahti		Lna		Traffic operating point	525+604	00416	Pieksämäki–Kontiomäki	Lapinlahti	K		K
Lappeenranta	Villmanstrand	Lr		Traffic operating point	287+726	00495	Kouvola–Joensuu, Lappeenranta–Mustolan satama	Lappeenranta	Y	Y	Y
Lappila		Laa		Seisake/Halt	97+693	00094	Riihimäki–Kouvola	Kärkölä			
Lappohja	Lappvik	Lpo		Traffic operating point	189+639	00075	Karjaa–Hanko	Hanko	K	K	K

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Lapua	Lappo	Lpa		Traffic operating point	441+094	00298	Seinäjoki–Oulu	Lapua	K	K	K
Larvakytö		Lyö		Traffic operating point	333+057	01153	Tampere–Seinäjoki	Seinäjoki	Y		
Laukaa		Lau		Traffic operating point	401+193	00249	Jyväskylä–Äänekoski	Laukaa	K		
Laurila		Lla		Traffic operating point	865+776	00360	Laurila–Kemijärvi, Oulu–Laurila, Laurila–Tornio-raja	Keminmaa	K		K
Lauritsala		Lrs		Traffic operating point	291+936	00498	Kouvola–Joensuu	Lappeenranta	Y	Y	Y
Leinelä	Lejle	Lnä		Seisake/Halt	31+123	01333	Huopalahti–Havukoski	Vantaa			
Lentostation	Flygplatsen	Len		Seisake/Halt	26+575	01332	Huopalahti–Havukoski	Vantaa			
Lelkola		Lkl		Traffic operating point	276+011	00993	Kouvola–Pieksämäki	Hirvensalmi	K		
Lempäälä		Lpä		Traffic operating point	165+928	00156	Riihimäki–Tampere	Lempäälä	K		
Leppäkoski		Lk		Traffic operating point	87+830	00043	Riihimäki–Tampere	Janakkala	K		
Leppävaara	Alberga	Lpv		Traffic operating point	11+249	00068	Helsinki–Turku satama	Espoo	K		K
Leteensuo		Lts		Traffic operating point	123+554	01154	Riihimäki–Tampere	Hattula	K		
Lieksa		Lis		Traffic operating point	728+121	00468	Joensuu–Nurmes, Lieksa–Pankakoski	Lieksa	K	K	K
Lieksan teollisuuskylä		Ltk		Linjavaihde/Junction	728+847	01157	Lieksa–Pankakoski	Lieksa		K	K
Lielahti		Llh		Traffic operating point	193+393	00183	Tampere–Seinäjoki, Lielahti–Kokemäki	Tampere	K	K	K
Lievestuore		Lvt		Traffic operating point	402+191	00246	Jyväskylä–Pieksämäki	Laukaa	K	K	K
Liminka	Limingo	Lka		Traffic operating point	728+483	00338	Seinäjoki–Oulu	Liminka	Y		Y
Liminpuro		Lmp		Traffic operating point	864+792	01354	Oulu–Kontiomäki	Vaala	Y		
Lohiluoma		Luo		Linjavaihde/Junction	463+619	01159	Seinäjoki–Kaskinen	Kurikka			
Lohja	Lojo	Lo		Traffic operating point	122+965	00081	Hyvinkää–Karjaa	Lohja	K		K
Loimaa		Lm		Traffic operating point	208+870	00142	Toijala–Turku	Loimaa	K		K
Louhela	Klippsta	Loh		Seisake/Halt	13+190	00661	Huopalahti–Havukoski	Vantaa			
Loukolampi		Lol		Traffic operating point	360+013	00861	Kouvola–Pieksämäki	Pieksämäki	K		
Loviisan satama	Lovisa hamn	Lvs		Traffic operating point	207+209	00106	Lahti–Loviisan satama	Loviisa	M	K	K
Luikonlahti		Lui		Traffic operating point	557+061	00411	Siilinjärvi–Viinijärvi	Kaavi	K		K
Lusto		Lus		Seisake/Halt	509+170	00690	Savonlinna–Parikkala	Savonlinna			
Luumäki		Lä		Traffic operating point	250+540	00487	Kouvola–Joensuu, Luumäki–Vainikkala-raja	Luumäki	K	K	K
Lähessuo		Lhs		Traffic operating point	798+473	01364	Oulu–Laurila	Simo	K		
Länkipohja		Läp		Traffic operating point	256+024	00203	Tampere–Jyväskylä	Jämsä	Y		
Maanselkä		Mlk		Traffic operating point	836+049	00382	Nurmes–Kontiomäki	Sotkamo	M		K
Maaria	St. Marie	Mri		Traffic operating point	262+070	01166	Toijala–Turku	Turku	K		
Madesjärvi		Md		Traffic operating point	291+821	00217	Tampere–Seinäjoki	Kurikka	K		K
Majajärvi		Mjj		Traffic operating point	216+317	01168	Tampere–Seinäjoki	Ylöjärvi	K		
Maksniemi		Mkn		Traffic operating point	845+521	01365	Oulu–Laurila	Ii	K		
Malmi	Malm	Ml		Traffic operating point	10+900	00017	Helsinki–Riihimäki	Helsinki	K		
Malminkartano	Malmgård	Mlo		Seisake/Halt	10+730	00659	Huopalahti–Havukoski	Helsinki			
Mankala		Mka		Traffic operating point	160+050	01336	Riihimäki–Kouvola	Iitti	K		
Markkala		Mrk		Traffic operating point	403+737	00896	Pieksämäki–Kontiomäki	Suonenjoki	K		
Martinlaakso	Mårtensdal	Mrl		Seisake/Halt	14+010	00662	Huopalahti–Havukoski	Vantaa	Y		
Masala	Masaby	Mas		Seisake/Halt	29+561	00064	Helsinki–Turku satama	Kirkkonummi			
Matkaneva		Mtv		Traffic operating point	562+607	01171	Seinäjoki–Oulu	Kokkola	K		
Mattila		Mat		Traffic operating point	159+906	01172	Riihimäki–Tampere	Lempäälä	K		
Melalahti		Mll		Traffic operating point	893+280	01355	Oulu–Kontiomäki	Paltamo	Y		
Metsäkansa		Msä		Linjavaihde/Junction	155+811	00558	Toijala–Valkeakoski	Valkeakoski			K
Mikkeli	St. Michel	Mi		Traffic operating point	305+165	00546	Kouvola–Pieksämäki	Mikkeli	K	K	K
Misi		Mis		Traffic operating point	1021+255	00366	Laurila–Kemijärvi	Rovaniemi	M		K
Mommila		Mla		Seisake/Halt	91+430	00093	Riihimäki–Kouvola	Hausjärvi			
Muhos		Mh		Traffic operating point	788+424	00375	Oulu–Kontiomäki	Muhos	K		K
Mukkula		Muk		Traffic operating point	140+012	00594	Lahti–Mukkula	Lahti		K	K
Murtomäki		Mur		Traffic operating point	613+165	00386	Pieksämäki–Kontiomäki, Murtomäki–Talvivaara, Murtomäki–Otanmäki	Kajaani	Y		Y
Mustio	Svartå	Mso		Linjavaihde/Junction	143+000	00078	Hyvinkää–Karjaa	Raasepori			K
Mustolan satama		Mst		Traffic operating point	295+515	00077	Lappeenranta–Mustolan satama	Lappeenranta		Y	

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Muukko		Mko		Traffic operating point	297+112	01180	Kouvola–Joensuu	Lappeenranta	Y		
Muurame		Muu		Traffic operating point	324+768	00433	Tampere–Jyväskylä	Muurame	K		K
Muurola		Mul		Traffic operating point	948+494	00363	Laurila–Kemijärvi	Rovaniemi	K		K
Myllykangas		Mys		Traffic operating point	815+693	01183	Oulu–Laurila	Ii	K		
Myllykoski		Mki		Seisake/Halt	203+630	00536	Kouvola–Kotka	Kouvola	K		
Myllymäki		My		Seisake/Halt	333+721	00263	Orivesi–Seinäjoki	Ähtäri			K
Myllyoja		Myl		Traffic operating point	161+727	00606	Lahti–Heinola	Heinola	K	K	K
Mynttilä		Myt		Traffic operating point	270+889	00543	Kouvola–Pieksämäki, Mynttilä–Ristiina	Mäntyharju	K		
Mynämäki		Myn		Traffic operating point	229+607	00123	Turku–Uusikaupunki	Mynämäki	K		
Myyrmäki	Myrbacka	Myr		Traffic operating point	12+130	00660	Huopalahti–Havukoski	Vantaa	Y		
Mäkkylä		Mäk		Seisake/Halt	9+511	00693	Helsinki–Turku satama	Espoo			
Mäntsälä		Mlä		Traffic operating point	59+210	00027	Kerava–Hakosilta	Mäntsälä	K		
Mänttä		Män		Traffic operating point	282+740	00198	Vilppula–Mänttä	Mänttä-Vilppula		K	K
Mäntyharju		Mr		Traffic operating point	262+680	00544	Kouvola–Pieksämäki	Mäntyharju	K		K
Mäntyluoto		Mn		Traffic operating point	342+020	00223	Pori–Mäntyluoto	Pori	K	K	K
Naantali	Nådendal	Nnl		Traffic operating point	213+193	00124	Raisio–Naantali	Naantali		K	K
Naarajärvi		Nri		Traffic operating point	449+862	00895	Jyväskylä–Pieksämäki	Pieksämäki	K		K
Nakkila		Nal		Traffic operating point	308+091	00672	Kokemäki–Pori	Nakkila	K		
Nastola		Nsl		Seisake/Halt	146+169	00595	Riihimäki–Kouvola	Lahti			
Niemenpää		Nmp		Traffic operating point	923+605	01185	Tornio–Kolari	Tornio	K		
Niinimaa		Nii		Linjavaihde/Junction	383+155	00285	Orivesi–Seinäjoki	Alavus			
Niinimäki		Nmä		Traffic operating point	172+534	01324	Riihimäki–Kouvola	Iitti			
Niinisalo		Nns		Traffic operating point	386+215	00227	Niinisalo–Parkano	Kankaanpää	M	K	K
Niirala		Nrl		Traffic operating point	555+846	00446	Niirala-raja–Säkäniemi	Tohmajärvi	M	K	K
Niirala-raja		Nrlr		Traffic operating point	554+080	00445	Niirala-raja–Säkäniemi	Tohmajärvi			
Niittylahti		Nth		Traffic operating point	613+475	00917	Kouvola–Joensuu	Joensuu	K		
Nikkilä	Nickby	Nlä		Seisake/Halt	39+176	00022	Kerava–Sköldvik	Sipoo			
Niska		Nsk		Traffic operating point	825+300	01353	Oulu–Kontiomäki	Utajärvi	K		
Nivala		Nvl		Traffic operating point	676+878	00328	Iisalmi–Ylivieska	Nivala	Y		Y
Nokia		Noa		Traffic operating point	204+004	00181	Lielahti–Kokemäki	Nokia	K	K	K
Nummela		Nm		Traffic operating point	109+368	00084	Hyvinkää–Karjaa	Vihti	Y		Y
Nurmes		Nrm		Traffic operating point	784+420	00472	Nurmes–Kontiomäki, Joensuu–Nurmes	Nurmes	K	K	K
Närpiö	Närpes	När		Linjavaihde/Junction	518+255	00268	Seinäjoki–Kaskinen	Närpiö			
Ohenmäki		Ohm		Linjavaihde/Junction	542+264	01190	Pieksämäki–Kontiomäki	Iisalmi			Y
Olli		Olli		Linjavaihde/Junction	45+734	00570	Kerava–Sköldvik, Olli–Porvoo	Porvoo	K		
Onttola		Ont		Linjavaihde/Junction	631+177	00443	Pieksämäki–Joensuu	Joensuu		K	K
Orimattila		Om		Linjavaihde/Junction	150+407	00109	Lahti–Loviisan satama	Orimattila			K
Orivesi		Ov		Traffic operating point	228+276	00190	Tampere–Jyväskylä, Orivesi–Seinäjoki	Orivesi	K		K
Orivesi keskusta		Ovk		Seisake/Halt	231+512	01316	Orivesi–Seinäjoki	Orivesi			
Otanmäki		Otm		Traffic operating point	638+822	00385	Murtomäki–Otanmäki	Kajaani		Y	Y
Otava		Ot		Traffic operating point	290+521	00545	Kouvola–Pieksämäki, Otava–Otavan satama	Mikkeli	K		K
Oulainen		Ou		Traffic operating point	657+850	00322	Seinäjoki–Oulu	Oulainen	K		K
OULU		**Oul**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Seinäjoki–Oulu, Oulu–Kontiomäki, Oulu–Laurila**		**M**		
Oulunlahti		*Oll*		*Liikennepaikan osa (Oulu)/Part of a traffic operating point (Oulu)*	*746+876*	*01351*		*Oulu*	*Y*		
Oulu Nokela		*Nok*		*Liikennepaikan osa (Oulu)/Part of a traffic operating point (Oulu)*	*750+030*	*01195*		*Oulu*		*Y*	*Y*
Oulu Oritkari		*Ori*		*Liikennepaikan osa (Oulu)/Part of a traffic operating point (Oulu)*	*751+180*	*01196*		*Oulu*		*Y*	*Y*

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Oulu cargo		*Olt*		*Liikennepaikan osa (Oulu)/Part of a traffic operating point (Oulu)*	*751+360*	*01197*		*Oulu*		*Y*	*Y*
Oulu station	*Uleåborg*	*Oulu*	*Oulu*	*Liikennepaikan osa (Oulu)/Part of a traffic operating point (Oulu)*	*752+778*	*00370*		*Oulu*			*Y*
Oulu Tuira		*Tua*		*Liikennepaikan osa (Oulu)/Part of a traffic operating point (Oulu)*	*755+510*	*00339*		*Oulu*		*Y*	*Y*
Paimio	Pemar	Po		Traffic operating point	171+885	00128	Helsinki–Turku satama	Paimio	K		
Palopuro		Plp		Traffic operating point	54+535	00562	Helsinki–Riihimäki	Hyvinkää	K		
Paltamo		Pto		Traffic operating point	901+579	00379	Oulu–Kontiomäki	Paltamo	Y		Y
Pankakoski		Pas		Traffic operating point	731+865	00935	Lieksa–Pankakoski	Lieksa		K	K
Parikkala		Par		Traffic operating point	387+302	00510	Kouvola–Joensuu, Savonlinna–Parikkala	Parikkala	K		K
Parkano		Pko		Traffic operating point	262+483	00215	Parkano–Niinisalo, Tampere–Seinäjoki	Parkano	K	K	K
Parola		Prl		Traffic operating point	115+764	00049	Riihimäki–Tampere	Hattula	K	K	K
Patokangas		Ptg		Traffic operating point	1064+591	01346	Kemijärvi–Patokangas	Kemijärvi			K
Pello		Pel		Traffic operating point	1002+632	00356	Tornio–Kolari	Pello	K	K	
Peltosalmi		Pmi		Linjavaihde/Junction	545+355	00882	Pieksämäki–Kontiomäki	Iisalmi			
Peräseinäjoki		Psj		Traffic operating point	318+481	00687	Tampere–Seinäjoki	Seinäjoki	Y	Y	Y
Pesiökylä		Psk		Traffic operating point	732+752	00393	Kontiomäki–Ämmänsaari	Suomussalmi	M		K
Petäjävesi		Pvi		Traffic operating point	343+357	00237	Haapamäki–Jyväskylä	Petäjävesi	K		K
PIEKSÄMÄKI		**Pie**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Kouvola–Pieksämäki, Pieksämäki–Kontiomäki, Jyväskylä–Pieksämäki, Pieksämäki–Joensuu**	**Pieksämäki**	**M**		
Pieksämäki station		*Pm*	*Pieksämäki*	*Liikennepaikan osa (Pieksämäki)/Part of a traffic operating point (Pieksämäki)*	*376+000*	*00400*		*Pieksämäki*		*K*	*K*
Pieksämäki Temu		*Tmu*		*Liikennepaikan osa (Pieksämäki)/Part of a traffic operating point (Pieksämäki)*	*377+340*	*01212*		*Pieksämäki*		*K*	*K*
Pieksämäki lajittelu		*Pmla*		*Liikennepaikan osa (Pieksämäki)/Part of a traffic operating point (Pieksämäki)*	*378+640*	*01210*		*Pieksämäki*		*K*	*K*
Pieksämäki cargo		*Pmt*		*Liikennepaikan osa (Pieksämäki)/Part of a traffic operating point (Pieksämäki)*	*379+960*	*01211*		*Pieksämäki*		*K*	*K*
Pietarsaari	Jakobstad	Pts		Traffic operating point	528+780	00306	Pännäinen–Pietarsaari, Pietarsaari–Alholma	Pietarsaari	M		K
Pihlajavesi		Ph		Traffic operating point	312+500	00261	Orivesi–Seinäjoki	Keuruu	K		K
Pihtipudas		Pp		Traffic operating point	540+605	00258	Äänekoski–Haapajärvi	Pihtipudas	M		K
Piikkiö	Pikis	Pik		Traffic operating point	182+785	00127	Helsinki–Turku satama	Kaarina	K		K
Pikkarala		Pkl		Traffic operating point	771+765	00819	Oulu–Kontiomäki	Oulu	Y	Y	
Pitkämäki		Ptk		Traffic operating point	789+619	01350	Nurmes–Kontiomäki	Nurmes	K	K	
Pitkäkallio		Pio		Traffic operating point	204+324	01358	Kouvola–Kotka	Kouvola	K		
Pitäjänmäki	Sockenbacka	Pjm		Seisake/Halt	8+474	00069	Helsinki–Turku satama	Helsinki			
Pohjankuru	Skuru	Pku		Traffic operating point	94+907	00059	Helsinki–Turku satama	Raasepori	K	K	K
Pohjois-Haaga	Norra Haga	Poh		Seisake/Halt	8+050	00657	Huopalahti–Havukoski	Helsinki			
Pohjois-Louko		Plu		Traffic operating point	329+329	01214	Tampere–Seinäjoki	Seinäjoki	Y		
Poikkeus		Pkk		Traffic operating point	254+744	01216	Tampere–Seinäjoki	Parkano	K		
Poiksilta		Poi		Linjavaihde/Junction	416+728	00965	Kouvola–Joensuu	Kitee			K
Pori	Björneborg	Pri		Traffic operating point	322+278	00220	Pori–Aittaluoto, Pori–Mäntyluoto, Kokemäki–Pori	Pori	K	K	K
Porvoo	Borgå	Prv		Traffic operating point	62+287	00023	Olli–Porvoo	Porvoo			K
Puhos		Pus		Traffic operating point	452+808	00919	Kouvola–Joensuu	Kitee	K	K	K

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Puistola	Parkstad	Pla		Seisake/Halt	14+050	00553	Helsinki–Riihimäki	Helsinki			
Pukinmäki	Bocksbacka	Pmk		Seisake/Halt	9+442	00551	Helsinki–Riihimäki	Helsinki			
Pulsa		Pl		Traffic operating point	262+491	01217	Luumäki–Vainikkala-raja	Lappeenranta	Y		Y
Punkaharju		Pun		Traffic operating point	515+111	00517	Savonlinna–Parikkala	Savonlinna	K	K	K
Pyhäkumpu		Pyk		Traffic operating point	615+415	00757	Pyhäkumpu erkanemisvaihde–Pyhäkumpu	Pyhäjärvi		K	
Pyhäkumpu erkanemisvaihde		Pye		Traffic operating point	613+511	01218	Iisalmi–Ylivieska, Pyhäkumpu erkanemisvaihde–Pyhäkumpu	Pyhäjärvi	K		
Pyhäsalmi		Phä		Traffic operating point	615+934	00331	Iisalmi–Ylivieska	Pyhäjärvi	K		K
Pännäinen	Bennäs	Pnä	Pietarsaari-Pedersöre	Traffic operating point	518+604	00305	Pännäinen–Pietarsaari, Seinäjoki–Oulu	Pedersöre	K		K
Raahe	Brahestad	Rhe		Traffic operating point	726+726	00335	Raahe–Rautaruukki, Tuomioja–Raahe	Raahe	K	K	K
Raippo		Rpo		Traffic operating point	270+052	00490	Luumäki–Vainikkala-raja	Lappeenranta	Y	Y	Y
Raisio	Reso	Rai		Traffic operating point	207+829	00125	Turku–Uusikaupunki, Raisio–Naantali	Raisio	K	K	K
Rajamäki		Rm		Traffic operating point	72+267	00088	Hyvinkää–Karjaa	Nurmijärvi			K
Rajaperkiö		Rjp		Traffic operating point	448+396	01220	Seinäjoki–Oulu	Lapua	K		
Rantasalmi		Rmi		Traffic operating point	445+165	00524	Huutokoski–Savonlinna	Rantasalmi	K		K
Rasinsuo		Ras		Traffic operating point	258+510	01222	Kouvola–Joensuu	Luumäki	K		
Ratikylä		Rlä		Traffic operating point	284+344	00596	Tampere–Seinäjoki	Kihniö	K		K
Rauha		Rah		Traffic operating point	318+490	00501	Kouvola–Joensuu	Lappeenranta	Y		Y
Rauhalahti		Rhl		Linjavaihde/Junction	380+510	01225	Jyväskylä–Pieksämäki	Jyväskylä		K	K
Rauma	Raumo	Rma		Traffic operating point	331+659	00165	Kokemäki–Rauma	Rauma	K	K	K
Raunio		Rio		Traffic operating point	464+845	01227	Seinäjoki–Oulu	Kauhava	K		
Rautaruukki		Rat		Traffic operating point	730+050	00750	Raahe–Rautaruukki	Raahe		K	K
Rautjärvi		Rjä		Traffic operating point	345+788	00506	Kouvola–Joensuu	Rautjärvi	K		
Rautpohja		Rph		Linjavaihde/Junction	372+829	01232	Haapamäki–Jyväskylä	Jyväskylä		K	
Rekola	Räckhals	Rkl		Seisake/Halt	20+615	00554	Helsinki–Riihimäki	Vantaa			
Retretti		Ree		Seisake/Halt	507+500	00793	Savonlinna–Parikkala	Savonlinna			
RIIHIMÄKI		**Rii**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Helsinki–Riihimäki, Riihimäki–Kouvola, Riihimäki–Tampere**		**K**		
Riihimäki Arolampi		*Arp*		*Liikennepaikan osa (Riihimäki)/Part of a traffic operating point (Riihimäki)*	*66+600*	*01235*		*Hausjärvi*			
Riihimäki cargo		*Rit*		*Liikennepaikan osa (Riihimäki)/Part of a traffic operating point (Riihimäki)*	*68+773*	*01240*		*Riihimäki*			*K*
Riihimäki lajittelu		*Rila*		*Liikennepaikan osa (Riihimäki)/Part of a traffic operating point (Riihimäki)*	*70+068*	*01238*		*Riihimäki*			*K*
Riihimäki station		*Ri*	*Riihimäki*	*Liikennepaikan osa (Riihimäki)/Part of a traffic operating point (Riihimäki)*	*71+410*	*00040*		*Riihimäki*		*K*	*K*
Riijärvi		Rjr		Traffic operating point	502+567	01327	Seinäjoki–Oulu	Uusikaarlepyy	K		
Riippa		Rpa		Traffic operating point	577+477	00747	Seinäjoki–Oulu	Kokkola	K		
Ristiina		Rst		Traffic operating point	291+162	00770	Mynttilä–Ristiina	Mikkeli	M	K	K
Ristijärvi		Rjv		Traffic operating point	676+804	00391	Kontiomäki–Ämmänsaari	Ristijärvi	Y		
Rovaniemi		Roi		Traffic operating point	971+775	00364	Laurila–Kemijärvi	Rovaniemi	K	K	K
Ruha		Rha		Traffic operating point	431+132	00742	Seinäjoki–Oulu	Lapua	K		
Runni		Rnn		Seisake/Halt	568+518	00886	Iisalmi–Ylivieska	Iisalmi			
Ruukki		Rki		Traffic operating point	705+228	00337	Seinäjoki–Oulu	Siikajoki	Y		Y
Ruusumäki		Rsm		Traffic operating point	20+282	01338	Huopalahti–Havukoski	Vantaa	Y		
Ryttylä		Ry		Traffic operating point	80+770	00042	Riihimäki–Tampere	Hausjärvi	K	K	K
Röyttä		Röy		Traffic operating point	893+917	00833	Tornio–Röyttä	Tornio		K	K
Saakoski		Saa		Traffic operating point	305+373	00668	Tampere–Jyväskylä	Jyväskylä	K		
Saari		Sr		Traffic operating point	405+246	00964	Kouvola–Joensuu	Parikkala	K		
Saarijärvi		Srj		Traffic operating point	452+723	00254	Äänekoski–Haapajärvi	Saarijärvi	M		K
Salminen		Sln		Traffic operating point	426+718	00405	Pieksämäki–Kontiomäki, Pieksämäki–Kontiomäki	Suonenjoki	K		K

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Salo		Slo		Traffic operating point	143+981	00055	Helsinki–Turku satama	Salo	K		K
Sammalisto		Sam		Traffic operating point	74+487	01246	Riihimäki–Tampere	Riihimäki	K		
Santala	Sandö	Sta		Seisake/Halt	196+908	00827	Karjaa–Hanko	Hanko			
Saunamäki		Smä		Traffic operating point	180+534	01325	Riihimäki–Kouvola	Iitti			
Savio		Sav		Seisake/Halt	26+265	00555	Helsinki–Riihimäki	Kerava			
SAVONLINNA		**Svl**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Savonlinna–Parikkala, Huutokoski–Savonlinna**				
Savonlinna station	*Nyslott*	*Sl*	*Savonlinna*	*Liikennepaikan osa (Savonlinna)/Part of a traffic operating point (Savonlinna)*	*482+797*	*00521*		*Savonlinna*	*K*		
Pääskylahti		*Pky*		*Liikennepaikan osa (Savonlinna)/Part of a traffic operating point (Savonlinna)*	*484+913*	*00519*		*Savonlinna*	*K*		*K*
SEINÄJOKI		**Sei**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Tampere–Seinäjoki, Seinäjoki–Oulu, Orivesi–Seinäjoki, Seinäjoki–Vaasa, Seinäjoki–Kaskinen**		**M**		
Seinäjoki cargo		*Skt*		*Liikennepaikan osa (Seinäjoki)/Part of a traffic operating point (Seinäjoki)*	*416+580*	*01252*		*Seinäjoki*		*Y*	*Y*
Seinäjoki station		*Sk*	*Seinäjoki*	*Liikennepaikan osa (Seinäjoki)/Part of a traffic operating point (Seinäjoki)*	*418+001*	*00280*		*Seinäjoki*		*Y*	*Y*
Selänpää		Spä		Traffic operating point	209+869	00539	Kouvola–Pieksämäki	Kouvola	K		
Sieppijärvi		Spj		Traffic operating point	1045+904	00796	Tornio–Kolari	Kolari	K		K
Sievi		Svi		Traffic operating point	613+371	00319	Seinäjoki–Oulu	Sievi	K		K
Siikamäki		Skä		Traffic operating point	389+747	00429	Pieksämäki–Joensuu	Pieksämäki	K		
SIILINJÄRVI		**Sii**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Siilinjärvi–Viinijärvi, Pieksämäki–Kontiomäki**		**K**	**K**	**K**
Siilinjärvi station		*Sij*		*Liikennepaikan osa (Siilinjärvi)/Part of a traffic operating point (Siilinjärvi)*	*489+718*	*00413*		*Siilinjärvi*	*K*	*K*	*K*
Ruokosuo		*Rsu*		*Liikennepaikan osa (Siilinjärvi)/Part of a traffic operating point (Siilinjärvi)*	*494+735*	*01342*		*Siilinjärvi*	*K*	*K*	*K*
Simo		Sim		Traffic operating point	833+715	00346	Oulu–Laurila	Simo	K		K
Simpele		Spl		Traffic operating point	368+317	00507	Kouvola–Joensuu	Rautjärvi	K	K	K
Sipilä		Sip		Traffic operating point	68+697	01254	Kerava–Hakosilta, Kerava–Hakosilta	Mäntsälä	K		
Sisättö		Stö		Traffic operating point	235+602	01257	Tampere–Seinäjoki	Ikaalinen	K		
Siuntio	Sjundeå	Sti		Traffic operating point	51+285	00576	Helsinki–Turku satama	Siuntio	K		
Siuro		Siu		Traffic operating point	213+355	00179	Lielahti–Kokemäki	Nokia	K		K
Skogby		Sgy		Seisake/Halt	184+680	00817	Karjaa–Hanko	Raasepori			
Sköldvik	Kilpilahti	Sld		Traffic operating point	56+360	00560	Kerava–Sköldvik	Porvoo	M	K	K
Soinlahti		Soa		Linjavaihde/Junction	559+651	00422	Pieksämäki–Kontiomäki	Iisalmi		Y	Y
Sorsasalo		Sor		Linjavaihde/Junction	473+754	00870	Pieksämäki–Kontiomäki	Kuopio		K	
Sukeva		Skv		Traffic operating point	589+222	00424	Pieksämäki–Kontiomäki	Sonkajärvi	K		K
Suolahti		Suo		Traffic operating point	417+796	00251	Jyväskylä–Äänekoski	Äänekoski	K	K	K
Suonenjoki		Snj		Traffic operating point	413+842	00404	Pieksämäki–Kontiomäki, Suonenjoki–Yläkoski	Suonenjoki	K		K
Suoniemi		Snm		Traffic operating point	220+655	00638	Lielahti–Kokemäki	Nokia	K		
Syrjä		Syr		Linjavaihde/Junction	452+865	00435	Pieksämäki–Joensuu	Heinävesi			K
Syrjämäki		Ski		Traffic operating point	341+621	01265	Tampere–Seinäjoki	Seinäjoki	Y		
Sysmäjärvi		Smj		Traffic operating point	669+601	00912	Sysmäjärvi–Vuonos, Siilinjärvi–Viinijärvi	Outokumpu	K	K	K
Säkäniemi		Sä		Traffic operating point	480+242	00918	Niirala-raja–Säkäniemi, Kouvola–Joensuu	Tohmajärvi	K		
Sänkimäki		Skm		Linjavaihde/Junction	504+931	00872	Siilinjärvi–Viinijärvi	Kuopio			K
Sääksjärvi		Sj		Traffic operating point	177+734	00157	Riihimäki–Tampere	Tampere	K		
Taavetti		Ta		Traffic operating point	238+589	00486	Kouvola–Joensuu	Luumäki	K	K	K

Name	Second name	Abbreviation	Commercial name	Type	Km Hki	Koodi	Line section	Municipality	Traffic control	Private sidings	Vaihtotyön mahdollisuus
Name	**Second name**	**Abbreviation**	**Commercial name**	**Type**	**Km Hki**	**Code**	**Line section**	**Municipality**	**Traffic control**	**Private sidings**	**Shunting**
Tahkoluoto		Tko		Traffic operating point	350+235	00702	Pori–Mäntyluoto	Pori		K	K
Taipale		Te		Traffic operating point	537+605	01268	Pieksämäki–Kontiomäki	Iisalmi	Y		
Talviainen		Tv		Traffic operating point	247+245	01270	Tampere–Jyväskylä	Orivesi	K		K
Talvivaara		Tlv		Traffic operating point	636+831	01323	Murtomäki–Talvivaara				
Ekenäs	Ekenäs	Tms		Seisake/Halt	174+056	00076	Karjaa–Hanko	Raasepori			
TAMPERE		**Tre**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Riihimäki–Tampere, Tampere–Seinäjoki, Tampere–Jyväskylä**		**M**		
Tampere cargo		*Tpet*		*Liikennepaikan osa (Tampere)/Part of a traffic operating point (Tampere)*	184+100	01273		*Tampere*		*K*	*K*
Tampere Viinikka		*Vka*		*Liikennepaikan osa (Tampere)/Part of a traffic operating point (Tampere)*	*185+400*	*01274*		*Tampere*		*K*	*K*
Tampere station	*Tammerfors*	*Tampere*	*Tampere station*	*Liikennepaikan osa (Tampere)/Part of a traffic operating point (Tampere)*	*187+389*	*00160*		*Tampere*			*K*
Tampere Järvensivu		*Jvs*		*Liikennepaikan osa (Tampere)/Part of a traffic operating point (Tampere)*	*187+814*	*01272*		*Tampere*			
Tapanila	Mosabacka	Tna		Seisake/Halt	12+610	00552	Helsinki–Riihimäki	Helsinki			
Tapavainola		Tap		Traffic operating point	270+405	01276	Kouvola–Joensuu	Lappeenranta	Y		
Tavastila		Tsl		Seisake/Halt	228+854	00837	Kouvola–Kotka	Kotka			
Tervajoki		Tk		Seisake/Halt	460+156	00294	Seinäjoki–Vaasa	Isokyrö			
Tervola		Trv		Traffic operating point	900+521	00361	Laurila–Kemijärvi	Tervola	K		K
Tesoma		Tso		Seisake/Halt	196+230	01359	Lielahti–Kokemäki	Tampere			
Teuva	Östermark	Tuv		Traffic operating point	497+474	00271	Seinäjoki–Kaskinen	Teuva	M		K
Tikkala		Tkk		Traffic operating point	592+461	00916	Kouvola–Joensuu	Tohmajärvi	K		
Tikkaperä		Tkp		Traffic operating point	720+741	01335	Seinäjoki–Oulu	Liminka	Y		
TIKKURILA		**Tik**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Helsinki–Riihimäki, Huopalahti–Havukoski**		**K**		
Havukoski		*Hvk*		*Liikennepaikan osa (Tikkurila)/Part of a traffic operating point (Tikkurila)*	*17+725*	*01334*		*Vantaa*	*Y*		
Hiekkaharju	*Sandkulla*	*Hkh*		*Liikennepaikan osa (Tikkurila)/Part of a traffic operating point (Tikkurila)*	*17+109*	*00556*		*Vantaa*			
Tikkurila station	*Dickursby*	*Tkl*		*Liikennepaikan osa (Tikkurila)/Part of a traffic operating point (Tikkurila)*	*15+861*	*00018*		*Vantaa*	*Y*	*Y*	*Y*
Tohmajärvi		Toh		Traffic operating point	571+752	00448	Niirala-raja–Säkäniemi	Tohmajärvi	K		K
Toijala		Tl		Traffic operating point	147+339	00150	Toijala–Turku, Riihimäki–Tampere, Toijala–Valkeakoski	Akaa	K	K	K
Toivala		Toi		Traffic operating point	479+162	00412	Pieksämäki–Kontiomäki	Siilinjärvi	K		K
Tolsa	Tolls	Tol		Seisake/Halt	35+454	00830	Helsinki–Turku satama	Kirkkonummi			
Tommola		Tom		Traffic operating point	117+197	01280	Riihimäki–Kouvola	Hollola	K		
Torkkeli		Trk		Traffic operating point	240+154	01283	Tampere–Jyväskylä	Orivesi	K		
TORNIO		**Trn**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Tornio–Röyttä, Tornio–Kolari, Laurila–Tornio-raja**		**K**		
Tornio station	*Torneå*	*Tor*	*Tornio*	*Liikennepaikan osa (Tornio)/Part of a traffic operating point (Tornio)*	*884+656*	*00351*		*Tornio*	*K*	*K*	*K*
Tornio-raja	*Torneå gränsen*	*Trr*		*Liikennepaikan osa (Tornio)/Part of a traffic operating point (Tornio)*	*887+190*	*00678*		*Tornio*			
Tornio-Itäinen	Torneå Östra	Tri		Seisake/Halt	883+307	01318	Laurila–Tornio-raja	Tornio			
Tuomarila	Domsby	Trl		Seisake/Halt	19+022	00579	Helsinki–Turku satama	Espoo			

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Name	**Second name**	**Abbreviation**	**Commercial name**	**Type**	**Km Hki**	**Code**	**Line section**	**Municipality**	**Traffic control**	**Private sidings**	**Shunting**
Tuomioja		Tja		Traffic operating point	698+504	00336	Seinäjoki–Oulu, Tuomioja–Raahe	Siikajoki	Y		Y
Turenki		Tu		Traffic operating point	93+771	00044	Riihimäki–Tampere	Janakkala	K	K	K
TURKU		**Tur**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Helsinki–Turku satama, Toijala–Turku, Turku–Uusikaupunki**	**Turku**	**K**		
Kupittaa	*Kuppis*	*Kut*		*Liikennepaikan osa (Turku)/Part of a traffic operating point (Turku)*	*196+372*	*00126*		*Turku*			
Turku station	*Åbo*	*Tku*	*Turku päärautatiestation*	*Liikennepaikan osa (Turku)/Part of a traffic operating point (Turku)*	*199+674*	*00130*		*Turku*		*K*	*K*
Turku cargo		*Tkut*		*Liikennepaikan osa (Turku)/Part of a traffic operating point (Turku)*	*200+460*	*01285*		*Turku*		*K*	*K*
Turku satama	*Åbo hamn*	*Tus*		*Liikennepaikan osa (Turku)/Part of a traffic operating point (Turku)*	*202+510*	*00135*		*Turku*		*K*	
Tuupovaara		Tpv		Traffic operating point	668+672	00458	Joensuu–Ilomantsi	Joensuu			K
Tuuri		Tuu		Seisake/Halt	366+962	00283	Orivesi–Seinäjoki	Alavus			K
Törmä		Tör		Traffic operating point	878+075	01287	Laurila–Kemijärvi	Keminmaa	K		
Törölä		Trä		Traffic operating point	264+972	01290	Kouvola–Joensuu	Lappeenranta	Y		
Uimaharju		Uim		Traffic operating point	674+451	00465	Joensuu–Nurmes	Joensuu	K	K	K
Urjala		Ur		Traffic operating point	165+588	00148	Toijala–Turku	Urjala	K		K
Utajärvi		Utj		Traffic operating point	810+502	00376	Oulu–Kontiomäki	Utajärvi	K		K
Utti		Uti		Linjavaihde/Junction	204+085	00484	Kouvola–Joensuu	Kouvola			K
Uusikaupunki	Nystad	Ukp		Traffic operating point	264+795	00121	Uusikaupunki–Hangonsaari, Turku–Uusikaupunki	Uusikaupunki	K	K	K
Uusikylä		Ukä		Traffic operating point	149+485	00105	Riihimäki–Kouvola	Lahti	K		K
Vaajakoski		Vko		Traffic operating point	384+866	00245	Jyväskylä–Pieksämäki	Jyväskylä	K		K
Vaala		Vaa		Traffic operating point	844+671	00377	Oulu–Kontiomäki	Vaala	Y		Y
Vaarala		Vra		Linjavaihde/Junction	981+481	00807	Laurila–Kemijärvi	Rovaniemi			K
Vaasa	Vasa	Vs		Traffic operating point	492+588	00288	Seinäjoki–Vaasa	Vaasa	K	K	K
Vahojärvi		Vjr		Traffic operating point	244+926	00214	Tampere–Seinäjoki	Parkano	K		
VAINIKKALA		**Vai**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Luumäki–Vainikkala-raja**		**M**		
Vainikkala cargo		*Vnat*		*Liikennepaikan osa (Vainikkala)/Part of a traffic operating point (Vainikkala)*	*281+700*	*01292*		*Lappeenranta*		*Y*	*Y*
Vainikkala station		*Vna*	*Vainikkala*	*Liikennepaikan osa (Vainikkala)/Part of a traffic operating point (Vainikkala)*	*282+784*	*00492*		*Lappeenranta*		*Y*	*Y*
Vainikkala-raja		Vnar		Traffic operating point	284+862	00493		Lappeenranta			
Valimo	Gjuteriet	Vmo		Seisake/Halt	7+480	00847	Helsinki–Turku satama	Helsinki			
Valkeakoski		Vi		Traffic operating point	164+952	00153	Toijala–Valkeakoski	Valkeakoski	M	K	K
Valkeasuo		Vso		Linjavaihde/Junction	583+976	00450	Niirala-raja–Säkäniemi	Tohmajärvi			K
Valtimo		Vlm		Traffic operating point	808+636	00475	Nurmes–Kontiomäki	Valtimo	M		K
Vammala		Vma		Traffic operating point	245+885	00176	Lielahti–Kokemäki	Sastamala	K		K
Vanattara		Vtr		Traffic operating point	172+340	01295	Riihimäki–Tampere	Lempäälä	K		
Vantaankoski	Vandaforsen	Vks		Seisake/Halt	14+907	00839	Huopalahti–Havukoski	Vantaa			
Varkaus		Var		Traffic operating point	424+685	00432	Pieksämäki–Joensuu, Varkaus–Kommila	Varkaus	K	K	K
Vartius		Vus		Traffic operating point	753+755	00941	Kontiomäki–Vartius-raja	Kuhmo	M		K
Vartius-raja		Vur		Traffic operating point	755+856	00949	Kontiomäki–Vartius-raja	Kuhmo			
Vasikkahaka		Vkh		Traffic operating point	31+175	01300	Helsinki–Turku satama	Kirkkonummi	K		
Vaskiluoto	Vasklot	Vsk		Traffic operating point	496+463	00291	Vaasa–Vaskiluoto	Vaasa		K	K
Vehkala	Veckal	Veh		Seisake/Halt	15+997	01337	Huopalahti–Havukoski	Vantaa			
Venetmäki		Vki		Traffic operating point	433+164	00428	Jyväskylä–Pieksämäki	Pieksämäki	K		

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Vesanka		Vn		Traffic operating point	364+469	00239	Haapamäki–Jyväskylä	Jyväskylä	K		
Viekki		Vk		Linjavaihde/Junction	753+979	00471	Joensuu–Nurmes	Lieksa			K
Vierumäki		Vrm		Linjavaihde/Junction	153+801	00112	Lahti–Heinola	Heinola			K
Vihanti		Vti		Traffic operating point	684+573	00334	Seinäjoki–Oulu	Raahe	K	K	K
Vihtari		Vih		Traffic operating point	489+889	00438	Pieksämäki–Joensuu	Heinävesi	K		K
Vihtavuori		Vri		Traffic operating point	395+230	00248	Jyväskylä–Äänekoski	Laukaa	K		
Viiala		Via		Traffic operating point	154+288	00155	Riihimäki–Tampere	Akaa	K		K
Viinijärvi		Vnj		Traffic operating point	656+569	00440	Siilinjärvi–Viinijärvi, Pieksämäki–Joensuu	Liperi	K		K
Villähde		Vlh		Traffic operating point	140+442	00104	Riihimäki–Kouvola	Lahti	K		
Vilppula		Vlp		Traffic operating point	274+760	00196	Orivesi–Seinäjoki, Vilppula–Mänttä	Mänttä-Vilppula	K	K	K
Vinnilä		Vin		Traffic operating point	131+243	01305	Riihimäki–Tampere	Hämeenlinna	K		
Virkamies		Vms		Traffic operating point	25+931	01339	Huopalahti–Havukoski	Vantaa	Y		
Voltti		Vt		Traffic operating point	479+402	00302	Seinäjoki–Oulu	Kauhava	K		K
Vuohijärvi		Vhj		Traffic operating point	221+308	00541	Kouvola–Pieksämäki	Kouvola	K		K
Vuojoki		Vjo		Traffic operating point	318+501	01310	Kokemäki–Rauma	Eurajoki	K		
Vuokatti		Vkt		Traffic operating point	868+838	00383	Nurmes–Kontiomäki, Vuokatti–Lahnaslampi	Sotkamo	M		K
Vuonislahti		Vsl		Traffic operating point	705+240	00467	Joensuu–Nurmes	Lieksa	K		
Vuonos		Vns		Traffic operating point	588+116	00863	Sysmäjärvi–Vuonos	Outokumpu			K
Vuosaari	Nordsjö	Vsa		Traffic operating point	50+184	01321	Kerava–Vuosaari	Helsinki	K	K	K
YKSPIHLAJA		**Yks**		**Osiin jaettu liikennepaikka/Divided traffic operating point**	–	–	**Kokkola–Ykspihlaja**				
Ykspihlaja cargo		Ykst		Liikennepaikan osa (Ykspihlaja)/Part of a traffic operating point (Ykspihlaja)	553+900	00315		Kokkola		K	K
Ykspihlaja väliratapiha		Yksv		Liikennepaikan osa (Ykspihlaja)/Part of a traffic operating point (Ykspihlaja)	555+511	01326		Kokkola		K	K
Ylistaro		Yst		Seisake/Halt	439+558	00296	Seinäjoki–Vaasa	Seinäjoki			
Ylitornio	Övertorneå	Ytr		Seisake/Halt	946+041	00789	Tornio–Kolari	Ylitornio			
Ylivalli		Ylv		Traffic operating point	302+016	00654	Tampere–Seinäjoki	Kurikka	K	K	K
Ylivieska		Yv		Traffic operating point	630+343	00320	Iisalmi–Ylivieska, Seinäjoki–Oulu	Ylivieska	M	K	K
Yläkoski		Ylk		Traffic operating point	416+849	00867	Suonenjoki–Yläkoski	Suonenjoki		K	K
Ylämylly		Yly		Traffic operating point	639+019	00913	Pieksämäki–Joensuu	Liperi	K		K
Ylöjärvi		Ylö		Traffic operating point	200+753	00211	Tampere–Seinäjoki	Ylöjärvi	K		K
Ypykkävaara		Ypy		Traffic operating point	729+780	00940	Kontiomäki–Vartius-raja	Kuhmo	K		K
Äetsä		Äs		Traffic operating point	258+280	00174	Lielahti–Kokemäki	Sastamala	K		K
Ähtäri	Etseri	Äht		Traffic operating point	346+067	00265	Orivesi–Seinäjoki	Ähtäri	K		K
Ämmänsaari		Äm		Traffic operating point	750+448	00394	Kontiomäki–Ämmänsaari	Suomussalmi	M		K
Äänekoski		Äki		Traffic operating point	424+515	00252	Jyväskylä–Äänekoski, Äänekoski–Haapajärvi	Äänekoski	K	K	K

Name	Min. platform length	Max. platform length	Laiturikorkeus	Number of tracks with platforms	Design train length (freight traffic)	Sähkövirran saanti	Side loading platform	End loading platform	Kuormaus-kenttä	Seisontaraide (m/liikennepaikka)	Storage sidings	Crane	Fuel	Henkilöliikennettä	cargoliikennettä	Kääntöpöytä tai kolmioraide (KR)	VAK-ratapihat
Name	**Min. platform length** [m]	**Max. platfrorm length** [m]	**Platform height** [mm]	**Number of tracks with platforms**	**Design train length (freight traffic)** [m]	**Power supply** [400 V, A]	**Side loading platform length** [m]	**End loading platform**	**Loading site**			**Crane** [t]	**Fuel**	**Passenger traffic**	**Freight traffic**	**Turntable or triangular junction (KR)**	**Railway yard for dangerous goods**
Ahonpää				0	927	–	–	–	–			–	–	–	–	–	–
Ahvenus				0	747	–	–	–	–			–	–	–	–	–	–
Ainola	270	270	550	2	–	–	–	–	–			–	–	H	–	–	–
Airaksela				0	819	–	–	–	–			–	–	–	T	–	–
Aittaluoto				0	–	–	–	–	–			–	–	–	T	–	–
Ajos				0	–	–	–	–	Y			–	–	–	T	–	–
Alapitkä				0	664	25 A	18	–	Y			–	–	–	T	–	–
Alavus	79	203	265	2	711	–	–	–	Y	664	833	–	–	H	T	–	–
Alholma				0	–	–	–	–	Y			–	–	–	T	–	–
Arola				0	1087	25 A	24	–	Y			–	–	–	T	–	–
Asola				0	–	–	–	–	–			–	–	–	–	–	–
Aviapolis	230	230	550	2	–	–	–	–	–			–	–	H	–	–	–
Dragsvik	70	70	550	1	925	–	–	–	–			–	–	H	–	–	–
Dynamiittivaihde				0	–	–	–	–	–			–	–	–	T	–	–
Eläinpuisto-Zoo	89	89	265	1	–	–	–	–	–			–	–	H	–	–	–
Eno	80	80	550	1	664	25 A	–	–	Y			–	–	H	T	–	–
Ervelä				0	748	–	–	–	–			–	–	–	–	–	–
Eskola				0	955	–	–	–	–			–	–	–	–	–	–
Espoo	240	322	550	4	326	–	–	–	–			–	–	H	–	–	–
Haapajärvi	84	84	265	1	731	25 A	–	–	K Y	748	006	–	–	H	T	–	–
Haapakoski				0	725	–	–	–	Y			–	–	–	–	–	–
Haapamäen kyllästämö				0	–	–	–	–	–			–	–	–	T	–	–
Haapamäki	188	325	265	4	644	63 A	95	–	Y	2 105	407, 408, 409	–	–	H	T	Y	–
Haarajoki	220	220	550	2	240	–	–	–	–			–	–	H	–	–	–
Hakosilta				0	–	–	–	–	–			–	–	–	–	–	–
Haksi	20	20	265	1	–	–	–	–	–			–	–	–	–	–	–
Hamina				0	834	25 A		Y	Y			–	Y	–	T	–	Y
Hammaslahti				0	686	–	–	–	K Y			–	–	–	T	–	–
Hanala				0	–	–	–	–	–			–	–	–	–	–	–
Hangonsaari				0	–	–	–	–	–			–	–	–	T	–	–
Hanhikoski				0	–	–	20	–	Y			–	–	–	T	–	–
Hankasalmi	233	289	265	2	754	25 A	27	Y	K Y	423	306, 371	–	–	H	T	–	–
HANKO																	
Hanko station	*150*	*150*	*550*	*1*	*274*	63 A		Y	–	5 302	003, 004, 011, 012, 113, 115, 116, 117, 118, 119	–	Y	H	–	–	–
Hanko cargo				*0*	737	–	–	–	–			–	–	–	T	–	–
Hanko-Pohjoinen	*68*	*68*	*550*	*1*	–	–	–	–	–			–	–	H	–	–	–
Harjavalta	250	250	550	2	766	25 A	–	–	Y	2 841	303, 304, 305, 306, 307, 308	–	–	H	T	–	–
Harju				0	786	–	–	–	–	1 158	134, 135	–	–	–	–	–	–
Harviala				0	–	–	–	–	–			–	–	–	–	–	–
Haukipudas				0	833	–	12	–	Y			–	–	–	–	–	–
Haukivuori					891	–	–	–	Y			–	–	–	T	–	–
HAUSJÄRVI																–	
Hausjärvi cargo				*0*	*656*	–	–	–	Y			Y	–	–	–	–	–
Oitti	*102*	*102*	*550*	*2*	–	–	–	–	–			–	–	H	–	–	–
Haviseva				0	–	–	–	–	–			–	–	–	–	–	–
Heikkilä				0	–	–	–	–	–			–	–	–	–	–	–
Heinola					613	–	15	–	Y	1 027	004, 005	–	–	–	T	–	–
Heinoo				0	734	–	–	–	–			–	–	–	–	–	–
Heinävaara				0	–	–	–	–	Y			–	–	–	T	–	–
Heinävesi	100	206	265	2	570	–	9	–	Y	366	203	–	–	H	T	–	–
HELSINKI																	
Helsinki station	*244*	*456*	*550*	*19*	*455*	–	–	–	–	1 366	115, 116, 120, 225, 841	–	–	H	–	–	–
Pasila station	*248*	*430*	*550*	*11*	-	–	–	–	–	762	255, 256, 257, 258, 259	–	–	H	–	22	–
Pasila car train-station	*450*	*450*	*550*	*2*	–	63 A	–	K	–	539	105, 106	–	–	H	–	–	–
Ilmala station	*270*	*270*	*550*	*2*	–	–	–	–	–			–	–	H	–	–	–
Helsinki Kivihaka				*0*	–	–	–	–	–			–	–	–	–	–	–
Pasila cargo				*0*	727	63 A	230	Y	K Y	3 783	107, 108, 109, 110, 111, 112	–	–	–	T	–	–
Ilmala railway yard				*0*	–	1500 V, 63 A	29	–	–	23 696	Katso taulukko alla	–	Y	–	–	–	–
Käpylä	*279*	*336*	*550*	*3 (2)*	–	–	–	–	–	325	525	–	–	H	–	–	–
Oulunkylä	*266*	*266*	*550*	*2*	–	–	–	–	–	38	564	–	–	H	–	–	–
Henna	220	220	550	2	*998*	–	–	–	–			–	–	H	–	–	–
Herrala	110	110	550	2	–	–	–	–	–			–	–	H	–	–	–
Hiirola				0	760	–	–	–	–			–	–	–	–	–	–
Hikiä	120	120	550	2	–	–	–	–	–			–	–	H	–	–	–
Hillosensalmi	165 *)	165 *)	550 *)	1 *)	797	–	–	–	–			–	–	H	–	–	–
Hinthaara	55	65	265	3	–	–	–	–	–	90	003	–	–	–	–	–	–
Hirvineva				0	753	–	–	–	–			–	–	–	–	–	–
Humppila	245	427	550	3	753	25 A	29	–	K Y			–	–	H	T	–	–

*) no winter maintenance

Name	Min. platform length	Max. platform length	Laiturikorkeus	Number of tracks with platforms	Design train length (freight traffic)	Sähkövirran saanti	Side loading platform	End loading platform	Kuormaus-kenttä	Seisontaraide (m/liikennepaikka)	Storage sidings	Crane	Fuel	Henkilöliikennettä	cargoliikennettä	Kääntöpöytä tai kolmioraide (KR)	VAK-ratapihat
Name	**Min. platform length**	**Max. platfrorm length**	**Platform height**	**Number of tracks with platforms**	**Design train length (freight traffic)**	**Power supply**	**Side loading platform length**	**End loading platform**	**Loading site**			**Crane**	**Fuel**	**Passenger traffic**	**Freight traffic**	**Turntable or triangular junction (KR)**	**Railway yard for dangerous goods**
	[m]	**[m]**	**[mm]**		**[m]**	**[400 V, A]**	**[m]**					**[t]**					
Huopalahti	270	270	550	4	–	–	–	–	–			–	–	H	–	–	–
Huutokoski				0	659	–	–	–	–			–	–	–	–	–	–
Hyrynsalmi					734	25 A	12	–	Y	794	002	–	–	–	T	–	–
Hyrkäs				*0*	–	–	–	–	–			–	–	–	–	–	–
Hyvinkää	104	315	550 (265)	3 (1)	814	25 A	20	–	–	1 440	009, 031, 032, 033, 034, 035, 036, 037, 252, 353	–	–	H	T	20	–
Hämeenlinna	257	450	550	3	1038	25 A	34	Y	Y	3 075	308, 309, 310, 371	–	–	H	T	–	–
Härmä	352 *)	352 *)	550 *)	1 *)	808	–	–	–	Y			–	–	H	T	–	–
Höljäkkä	60	60	265	1	–	–	–	–	K Y	730	752, 753	–	–	H	T	–	–
Ii					687	–	–	–	Y			–	–	–	–	–	–
Iisalmen teollisuusraiteet				0	–	–	–	–	Y			–	–	–	T	–	–
Iisalmi	70	353	265	3	734	1500 V, 63 A	58	Y	Y	690	013, 021, 022, 023	–	Y	H	T	Y	–
Iittala	170	170	550	2	–	–	–	–	–			–	–	H	–	–	–
Ilola	27	27	265	1	–	–	–	–	–			–	–	H	–	–	–
Ilomantsi				0	771	25 A	–	–	Y			–	–	–	T	–	–
IMATRA																	
Imatra station	*450*	*450*	*265*	*1*	–	–	–	–	–			–	–	H	–	–	–
Imatra cargo				*0*	*889*	1500 V, 63 A	–	–	K Y	2 502	047, 602, 621, 622, 623, 673, 690	–	Y	–	T	Y	–
Imatrankoski				*0*	*1197*	–	18	Y	Y	1 113	301, 307, 308, 310	–	–	–	T	–	–
Immola					*518*								Y		T		
Pelkola				*0*	*1373*	–	–	–	–			–	–	–	T	–	–
Imatrankoski-raja				0	–	–	–	–	–			–	–	–	T	–	–
Inha				0	–	–	43	–	Y	249	432	–	–	–	T	–	–
Inkeroinen	120	172	265	3	792	–	23	–	Y	1 838	006, 007, 008, 010, 011	–	–	H	T	–	–
Inkoo				0	243	25 A	14	–	–	399	483	–	–	H	–	–	–
Isokyrö	110	150	550, 265	2	509	–	–	–	Y			–	–	H	T	–	–
Jalasjärvi					762	–		–	Y	363	004	–	–	–	T	–	–
Jepua				0	825	–	16	–	Y			–	–	–	–	–	–
JOENSUU																	
Joensuu station	*239*	*377*	*265*	*3*	*561*	1500 V, 63 A	46	–	Y	4 464	Katso taulukko alla	–	–	H	T	20, Y	–
Joensuu Peltola				*0*	*621*	–	–	–	K Y	461	067	–	–	–	T	–	Y
Joensuu Sulkulahti				*0*	692	–	–	–	–			–	–	–	T	–	Y
Jokela	313	321	550	3	821	–	–	–	–			–	–	H	–	–	–
Joroinen				0	–	–	–	–	Y	881	272	–	–	–	T	–	–
Jorvas	99	124	265	2	–	–	–	–	–			–	–	H	–	–	–
Joutseno	460	460	550	2	811	–	–	–	Y	626	440, 441	–	–	H	T	–	–
Juankoski				0	583	25 A		–	Y	631	403	–	–	–	T	–	–
Jutila				0	–	–	–	–	–			–	–	–	–	–	–
Juupajoki	80	80	550	1	–	–	–	–	–			–	–	H	–	–	–
Juurikorpi				0	789	–	–	–	–			–	–	–	–	–	–
Jyväskylä	160	449	550	4	796	1500 V, 63 A	89	Y	Y	5 485	Katso taulukko alla	Y	Y	H	T	–	–
Jämsä	387	387	550	2	769	25 A	–	–	Y	1 601	006, 007, 008	–	–	H	T	–	–
Jämsänkoski				0	873	–	–	–	–			–	–	–	T	20	–
Järvelä	122	122	550	3	630	–	12	–	Y			–	–	H	T	–	–
JÄRVENPÄÄ																–	
Järvenpää station	*200*	*383*	*550*	*3*	–	–	29	Y	–	467	714	–	–	H	T	–	–
Saunakallio	*180*	*272*	*265, 550*	4	*614*	–	–	–	–			–	–	H	T	–	–
Purola					–	–	–	–	–			–	–	H	–	–	–
Kaipiainen				0	770	–	19	–	Y			–	–	–	T	–	–
Kaipola				0	–	–	–	–	–			–	–	–	T	–	–
Kaitjärvi				0	1110	–	–	–	–			–	–	–	–	–	–
Kajaani	350	350	265	2	837	1500 V, 63 A	122	–	Y	1 624	681, 696, 697, 698	–	–	H	T	–	–
Kaleton				0	–	–	27	–	Y			–	–	–	–	–	–
Kalkku				0	–	–		–	Y			–	–	–	T	–	–
Kalliovarasto				0	–	–	–	–	–			–	–	–	–	–	–
Kalvitsa				0	864	–	–	–	Y	946	784	–	–	–	T	–	–
Kangas				0	933	–	–	–	–			–	–	–	–	–	–
Kannelmäki	226	226	550	2	–	–	–	–	–			–	–	H	–	–	–
Kannonkoski				0	–	–	13	–	Y			–	–	–	T	–	–
Kannus	452	452	550	1	–	–	–	–	–			–	–	H	–	–	–
Karhejärvi				0	778	25 A	4	–	Y			–	–	–	–	–	–
Karhukangas				0	–	–	–	–	–			–	–	–	–	–	–
Karjaa	249	352	550	4	765	63 A	–	–	Y	1 882	005, 006, 007, 034, 061, 062, 063	–	–	H	T	20	–
Karkku	250	250	550	1	856	–	–	–	–	377	033	–	–	H	–	–	–
Karviainen				0	745	–	–	–	–			–	–	–	–	–	–
Kaskinen				0	843	–	–	–	Y	2 186	742, 743, 744, 748	–	–	–	T	Y	–
Kattilaharju				0	–	–	–	–	–			–	–	–	–	–	–
Kauhajoki				0	–	–	–	–	–			–	–	–	–	–	–
Kauhava	450	450	550	1	803	–	–	–	Y			–	–	H	T	–	–

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Name	**Min. platform length**	**Max. platform length**	**Platform height**	**Number of tracks with platforms**	**Design train length (freight traffic)**	**Power supply**	**Side loading platform length**	**End loading platform**	**Loading site**			**Crane**	**Fuel**	**Passenger traffic**	**Freight traffic**	**Turntable or triangular junction (KR)**	**Railway yard for dangerous goods**
	[m]	**[m]**	**[mm]**		**[m]**	**[400 V, A]**	**[m]**					**[t]**					
Kauklahti	270	270	550	3	447	–	–	–	–			–	–	H	–	–	–
Kaulinranta				0	–	–	–	–	–			–	–	–	–	–	–
Kauniainen	194	204	265	3	269	–	–	–	–	792	004, 005, 043	–	–	H	T	–	–
Kauppilanmäki				0	-	–	–	–	Y			–	–	–	T	–	–
Kausala	120	120	550	2	–	–	–	–	–			–	–	H	–	–	–
Keitelepohja				0	–	–	–	–	Y			–	–	–	T	–	–
Kekomäki				0	–	–	–	–	–			–	–	–	–	–	–
KEMI										4 610	901, 902, 903, 904, 905, 906, 907, 908, 931, 932						
Kemi station	*450*	*450*	*265, 550*	*2*	*949*	*63 A*	*148*	–	*Y*			–	*Y*	*H*	*T*	*Y*	–
Kemi Sahansaari				*0*	–	–	–	–	–								
Lautiosaari				*0*	–	–	–	–	–			–	–	–	–	–	–
Kemijärvi	350	350	265	1	501	1500 V, 63 A	6	Y	K Y	1 617	973, 975, 976	–	–	H	T	KR	–
Kempele	450	450	550	1	762	25 A	9	–	Y			–	–	H	–	–	–
Kera	216	224	265	2	–	–	–	–	–			–	–	H	–	–	–
KERAVA																	
Kerava station	*270*	*392*	*550*	*4*	–	25 A	–	–	–			–	–	H	–	KR	–
Kytömaa				*0*	–	–	–	–	–			–	–	–	–	–	–
Kerimäki	108	108	265	1	398	–	–	–	Y			–	–	H	T	–	–
Kesälahti	322	322	265	1	671	–	–	–	–			–	–	H	T	–	–
Keuruu	111	111	550	1	676	–	–	–	Y	676	502	–	–	H	T	–	–
Kiiala	49	49	265	1	–	–	–	–	–			–	–	H	–	–	–
Kilo	270	270	550	2	–	–	–	–	–			–	–	H	–	–	–
Kilpua				0	750	25 A	–	–	–	422	353	–	–	–	–	–	–
Kinahmi				0	–	–	–	–	–			–	–	–	–	–	–
Kinni				0	776	–	–	–	–			–	–	–	–	–	–
Kirjola				0	–	–	–	–	Y			–	–	–	–	–	–
Kirkkonummi	273	310	550	3	612	–	–	–	Y	1 239	005, 006, 024, 026	–	–	H	–	–	–
Kirkniemi				0	585	–	–	–	–	1 145	564, 565	–	–	–	T	–	–
Kitee	355	355	265	1	660	25 A	18	–	K Y			–	–	H	T	–	–
Kiukainen				0	768	–	14	–	Y			–	–	–	–	–	–
Kiuruvesi	126	126	265	1	638	25 A	80	–	K Y	686	286, 287	–	–	H	T	–	–
Kivesjärvi					1118	–	–	–	–			–	–	–	–	–	–
Kivistö	292	336	550	2	–	–	–	–	–			–	–	H	–	–	–
Kohtavaara	56	56	265	1	–	–	–	–	–			–	–	H	–	–	–
Koivu				0	617	–	32	–	Y	499	473	–	–	–	T	–	–
Koivuhovi	278	278	550	2	–	–	–	–	–			–	–	H	–	–	–
Koivukylä	270	270	550	2	–	–	–	–	–			–	–	H	–	–	–
Kokemäki	249	249	550	3	765	25 A	29	–	Y	592	085	–	–	H	T	–	–
Kokkola	295	479	265	3	829	1500 V, 63 A	40	–	Y	2 415	508, 509, 510, 511, 512, 518, 532, 540	–	Y	H	T	Y	Y
Kolari	675	675	550/265	1	790	63 A	22	Y	K Y	926	603, 609	–	–	H	T	–	–
Kolho	80	80	550	1	–	–	–	–	Y			–	–	H	T	–	–
Kolppi				0	765	–	–	–	–	538	903	–	–	–	–	–	–
Kommila				0	733	25 A	–	–	K Y	3 192	201, 202, 203, 205, 206	–	–	–	T	–	–
Komu				0	–	–	–	–	Y			–	–	–	–	–	–
Kontiolahti				0	577	25 A	–	Y	Y	470	153	–	–	–	T	–	–
Kontiomäki	351	349	265	3	853	63 A	31	Y	Y	1 780	874, 876, 882, 897, 898	–	Y	H	T	Y, KR	–
Koria	120	120	550	2	–	–	–	–	–			–	–	H	–	–	–
Korkeakoski				0	743	–	–	Y	Y	299	104	–	–	–	T	–	–
Korso	270	270	550	2	–	–	–	–	–			–	–	H	–	–	–
Korvensuo				0	–	–	–	–	–			–	–	–	–	–	–
Koskenkorva				0	–	–	–	–	–			–	–	–	T	–	–
KOTKA																	
Kotka Hovinsaari				*0*	*865*	63 A	85	–	–	4 850	503, 504, 505, 506, 507, 508, 509	–	–	–	T	–	–
Kotka cargo				*0*	–	–	–	–	–	9 519	Katso taulukko alla	–	–	–	T	–	–
Paimenportti	*53*	*53*	*265*	*1*	–	–	–	–	–			–	–	H	–	–	–
Kotka station	*193*	*193*	*265*	*1*	*270*	63 A	–	–	–			–	–	H	–	Y	–
Kotkan satama	*110*	*110*	*265*	*1*	*539*	63 A	280	–	Y	1 474	672, 673, 674	–	Y	H	T	–	–
Kotolahti				*0*	*1139*	–	–	–	–	10 133	601, 602, 603, 604, 605, 607, 608, 609, 610, 611	–	–	–	T	–	Y
Kotka Mussalo				*0*	*1005*	–	25	–	Y	12 245	Katso taulukko alla	–	–	–	T	–	K
KOUVOLA																	
Kouvola station	*230*	*480*	*550*	*7*	*600*	1500 V, 63 A	–	–	Y	4 746	Katso taulukko alla	–	Y	H	–	Y	–
Kouvola lajittelu				*0*	*992*	25 A	175	Y	Y	26 581	Katso taulukko alla	–	–	–	T	–	Y
Kouvola Oikoraide				*0*	–	–	–	–	–			–	–	–	–	KR	–
Kouvola cargo				*0*	*903*	–	11	–	Y	3 928	226, 227, 228, 229	–	–	–	T	–	Y
Kullasvaara				*0*	*1364*	–	–	–	–			–	–	–	T	–	–
Kovjoki				0	757	–	–	–	–			–	–	–	–	–	–
Kruunupyy				0	747	–	49	–	Y			–	–	–	T	–	–
Kuivasjärvi				0	781	–	–	–	Y	315	005	–	–	–	–	–	–

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Name	Min. platform length	Max. platform length	Laiturikorkeus	Number of tracks with platforms	Design train length (freight traffic)	Sähkövirran saanti	Side loading platform	End loading platform	Kuormaus-kenttä	Seisontaraide (m/liikennepaikka)	Storage sidings	Crane	Fuel	Henkilöliikennettä	cargoliikennettä	Kääntöpöytä tai kolmioraide (KR)	VAK-ratapihat
Name	**Min. platform length** [m]	**Max. platform length** [m]	**Platform height** [mm]	**Number of tracks with platforms**	**Design train length (freight traffic)** [m]	**Power supply** [400 V, A]	**Side loading platform length** [m]	**End loading platform**	**Loading site**			**Crane** [t]	**Fuel**	**Passenger traffic**	**Freight traffic**	**Turntable or triangular junction (KR)**	**Railway yard for dangerous goods**
KUOPIO																–	
Kuopio station	*180*	*387*	*265*	*3*	*273*	63 A	130	Y	Y	618	002, 003, 309	–	–	H	–	–	–
Kuopio cargo				*0*	*804*	1500 V, 63 A	100	–	Y	1 551	011, 012, 013, 101, 102, 342	–	–	–	T	Y	–
Kuopio Iloharju				*0*	*1274*							–	–	–	–	–	–
Kurkimäki				0	734	–	–	–	Y			–	–	–	T	–	–
Kuurila				0	–	–	–	–	–			–	–	–	–	–	–
Kuusankoski				0	811	63 A	Y	–	Y			–	–	–	T	–	–
Kuusikkoniemi				0	925	–	–	–	–			–	–	–	–	–	–
Kylänlahti	56	56	265	1	–	–	–	–	–			–	–	H	–	–	–
Kymi	66	66	265	1	759	–	–	–	–	1 352	405, 408, 409	–	–	H	–	–	–
Kyminlinna	120	120	550	1	–	–	–	–	–			–	–	H	–	–	–
Kyrö				0	739	–	–	–	Y	92	434	–	–	–	T	–	–
Kälviä				0	–	–	–	–	–			–	–	–	–	–	–
Köykkäri				0	763	–	–	–	–			–	–	–	–	–	–
Laajavuori				0	–	–	–	–	–			–	–	–	–	–	–
Lahdenperä				0	777	–	–	–	–			–	–	–	–	–	–
Lahnaslampi				0	–	25 A	–	–	–			–	–	–	T	–	–
Lahti	270	451	550	4	709	63 A	7	Y	Y	3 692	710, 711, 713, 714, 715, 716, 720, 772, 773	–	Y	H	T	20, KR	–
Laihia	201	201	265	1	456	–	–	–	Y			–	–	H	T	–	–
Lakiala				0	733	–	–	–	–			–	–	–	–	–	–
Lamminkoski				0	742	–	–	–	–			–	–	–	–	–	–
Lamminniemi				0	–	–	145	–	–	280	001	–	–	–	T	–	–
Lapinjärvi				0	–	–	12	–	Y	582	002	–	–	–	T	–	–
Lapinlahti	300	354	265	2	759	25 A	–	–	Y			–	–	H	T	–	–
Lapinneva				0	–	–	–	–	Y			–	–	–	–	–	–
Lappeenranta	421	450	265, 550	3	739	25 A	60	Y	Y	2 115	009, 010, 011, 012, 065	–	–	H	T	22	–
Lappila	60	60	550	2	–	–	–	–	–			–	–	H	–	–	–
Lappohja	70	70	550	1	748	–	–	–	–	356	194	–	–	H	T	–	–
Lapua	441	441	550	1	766	–	–	–	Y			–	–	H	T	–	–
Larvakytö				0	932	–	–	–	–			–	–	–	–	–	–
Laukaa				0	–	–	–	–	Y			–	–	–	–	–	–
Laurila				0	618	–	–	–	–	637	623	–	–	–	–	–	–
Lauritsala				0	657	–	–	–	Y	1 161	205, 206, 207	–	–	–	T	–	–
Leinelä	266	266	550	2	–	–	–	–	–			–	–	H	–	–	–
Airport	230	230	550	2	–	–	–	–	–			–	–	H	–	–	–
Lelkola				0	802	–	–	–	–			–	–	–	–	–	–
Lempäälä	170	170	550	2	772	–	–	–	–			–	–	H	–	–	–
Leppäkoski				0	–	–	–	–	–			–	–	–	–	–	–
Leppävaara	266	292	550	4	–	–	–	–	–	213	300	–	–	H	–	–	–
Leteensuo				0	–	–	–	–	–			–	–	–	–	–	–
Lieksa	151	151	265	1	677	25 A	24	Y	Y	1 462	554, 555, 557, 559	–	–	H	T	20	–
Lieksan teollisuuskylä				0	–	–	20	–	–			–	–	–	T	–	–
Lielahti				0	780	–	8	–	–	674	703, 717	–	–	–	T	–	–
Lievestuore					824	25 A	23	–	Y	549	203, 211	–	–	–	T	–	–
Liminka				0	739	–	–	–	–			–	–	–	–	–	–
Liminpuro				0	925	–	–	–	–			–	–	–	–	–	–
Lohiluoma				0	–	–	–	–	–			–	–	–	–	–	–
Lohja				0	596	25 A	25	–	Y	207	467	–	–	–	T	–	–
Loimaa	252	450	550	2	783	–	–	–	Y			–	–	H	T	–	–
Louhela	236	236	550	2	–	–	–	–	–			–	–	H	–	–	–
Loukolampi				0	886	–	–	–	–			–	–	–	–	–	–
Loviisan satama				0	683	25 A	28	–	K Y	282	001	–	–	–	T	–	–
Luikonlahti				0	892	–	–	–	K Y			–	–	–	T	–	–
Lusto	124	124	265	1	–	–	–	–	–			–	–	H	–	–	–
Luumäki				0	1234	–	14	–	Y	1 106	006, 007	–	–	–	T	–	–
Lähessuo				0	925	–	–	–	–			–	–	–	–	–	–
Länkipohja				0	799	–	–	–	–			–	–	–	–	–	–
Maanselkä				0	–	–	–	–	Y	597	002	–	–	–	–	–	–
Maaria				0	743	–	–	–	–			–	–	–	–	–	–
Madesjärvi				0	774	25 A	8	–	Y			–	–	–	T	–	–
Majajärvi				0	717	–	–	–	–			–	–	–	–	–	–
Maksniemi				0	925	–	–	–	–			–	–	–	–	–	–
Malmi	318	348	550	2	–	–	–	–	–			–	–	H	–	–	–
Malminkartano	284	284	550	2	–	–	–	–	–			–	–	H	–	–	–
Mankala				0	0	–	–	–	–			–	–	–	–	–	–
Markkala				0	753	–	–	–	–			–	–	–	–	–	–
Martinlaakso	233	233	550	2	–	–	–	–	–			–	–	H	–	–	–
Masala	267	267	550	2	–	–	–	–	–			–	–	H	–	–	–

*) no winter maintenance

Name	Min. platform length	Max. platform length	Laiturikorkeus	Number of tracks with platforms	Design train length (freight traffic)	Sähkövirran saanti	Side loading platform	End loading platform	Kuormaus-kenttä	Seisontaraide (m/liikennepaikka)	Storage sidings	Crane	Fuel	Henkilöliikennettä	cargoliikennettä	Kääntöpöytä tai kolmioraide (KR)	VAK-ratapihat
Name	**Min. platform length [m]**	**Max. platfrorm length [m]**	**Platform height [mm]**	**Number of tracks with platforms**	**Design train length (freight traffic) [m]**	**Power supply [400 V, A]**	**Side loading platform length [m]**	**End loading platform**	**Loading site**			**Crane [t]**	**Fuel**	**Passenger traffic**	**Freight traffic**	**Turntable or triangular junction (KR)**	**Railway yard for dangerous goods**
Matkaneva				0	–	–	–	–	–			–	–	–	–	–	–
Mattila				0	–	–	–	–	–			–	–	–	–	–	–
Melalahti				*0*	–	–	–	–	–			–	–	–	–	–	–
Metsäkansa				0	–	–	13	–	Y			–	–	–	T	–	–
Mikkeli	424	452	550	3	760	25 A	5	–	K Y	898	656, 657	–	Y	H	T	Y	–
Misi	350	350	265	1	718	63 A	52	Y	Y	2 063	873, 874, 893	–	–	H	T	–	–
Mommila	120	120	550	2	–	–	–	–	–			–	–	H	–	–	–
Muhos	212	212	265	1	670	25 A	24	–	Y			–	–	H	–	–	–
Mukkula				0	–	–	–	–	Y	546	302	–	–	–	T	–	–
Murtomäki				0	–	–	–	–	Y	483	594	–	–	–	T	KR	–
Mustio				0	–	–	55	–	Y			–	–	–	T	–	–
Mustolan satama				0	–	–	–	–	Y			–	–	–	T	–	–
Muukko				0	784	–	–	–	–			–	–	–	–	–	–
Muurame				0	841	25 A	–	–	–			–	–	–	–	–	–
Muurola	316	318	265	2	724	–	–	–	–			–	–	H	–	–	–
Myllykangas				0	848	–	–	–	–			–	–	–	–	–	–
Myllykoski	120	120	550	2	–	–	–	–	–			–	–	H	–	–	–
Myllymäki	216	216	265	1	–	–	–	–	Y	792	332	–	–	H	T	–	–
Myllyoja				0	–	–	–	–	–			–	–	–	T	–	–
Mynttilä				0	–	–	–	–	–			–	–	–	–	–	–
Mynämäki				0	495	–	–	–	–			–	–	–	–	–	–
Myyrmäki	231	231	550	2	–	–	–	–	–			–	–	H	–	–	–
Mäkkylä	270	288	550	2	–	–	–	–	–			–	–	H	–	–	–
Mäntsälä	220	220	550	2	998	–	–	–	–			–	–	H	–	–	–
Mänttä				0	553	–	–	–	Y	1 006	001, 005	–	–	–	T	–	–
Mäntyharju	457	457	550	2	989	–	159	–	Y	87	386	–	–	H	T	–	–
Mäntyluoto				0	779	–	–	–	Y	4 092	901, 902, 903, 904, 905, 906	–	–	–	T	–	–
Naantali				0	393	–	20	–	–	904	001, 003	–	–	–	T	–	–
Naarajärvi				0	770	–	–	–	Y			–	–	–	T	–	–
Nakkila				0	733	–	–	–	–			–	–	–	–	–	–
Nastola	120	120	550	2	–	–	–	–	–			–	–	H	–	–	–
Niemenpää				0	–	–	–	–	–			–	–	–	–	–	–
Niinimaa				0	–	–	–	–	Y	704	932	–	–	–	–	–	–
Niinimäki				0	1077	–	–	–	–			–	–	–	–	–	–
Niinisalo				0	–	–	21	–	Y	1 893	001, 003, 021	–	–	–	–	–	–
Niirala				0	987	25 A	–	–	Y	5 610	Katso taulukko alla	–	–	–	T	–	Y
Niirala-raja				0	–	–	–	–	–			–	–	–	T	–	–
Niittylahti				0	695	–	–	–	–			–	–	–	–	–	–
Nikkilä	45	45	400	1	–	–	–	–	–			–	–	–	–	–	–
Niska				*0*	*925*	–	–	–	–			–	–	–	–	–	–
Nivala	97	97	265	1	825	25 A	–	–	Y			–	–	H	T	–	–
Nokia	250	250	550	1	865	–	120	–	Y	1 003	004, 005, 014	–	–	H	T	–	–
Nummela				0	328	–	–	–	Y			–	–	–	T	–	–
Nurmes	71	205	265	2	850	25 A	50	Y	–	3 303	001, 011, 013, 014, 851, 853, 855, 856	–	–	H	T	18	–
Närpiö				0	–	–	–	–	–	122	602	–	–	–	–	–	–
Ohenmäki				0	–	–	–	–	Y	575	002, 003	–	–	–	–	–	–
Olli				0	–	–	–	–	–			–	–	–	–	–	–
Onttola				0	–	–	–	–	–	645	852	–	–	–	T	–	–
Orimattila				0	–	–	12	–	Y	406	001	–	–	–	T	–	–
Orivesi	273	360	550	3	765	25 A	–	–	Y			–	–	H	T	13,7	–
Orivesi keskusta	80	80	550	1	–	–	–	–	–			–	–	H	–	–	–
Otanmäki				0	–	–	–	–	Y			–	–	–	T	–	–
Otava				0	735	–	–	–	Y	302	535	–	–	–	T	–	–
Oulainen	450	492	550	3	864	25 A	80	–	Y	1 380	304, 305	–	–	H	T	–	–
OULU																	
Oulunlahti				0	945												
Oulu Nokela				*0*	*990*	63 A	–	–	–	3 052	209, 210, 211, 230, 232, 233, 235, 240, 320	–	Y	–	T	–	Y
Oulu Oritkari				*0*	–	63 A	200	–	Y	2 649	601, 602, 603	–	–	–	T	–	–
Oulu cargo				*0*	*769*	25 A	6	–	–	3 713	099, 100, 101, 102, 103, 104, 105, 106, 107, 108	–	–	–	T	Y	Y
Oulu station	*368*	*498*	*550, 265*	*3*	*488*	1500 V, 63 A	–	Y	–	1 150	005, 006, 007, 191	–	–	H	–	–	–
Oulu Tuira				*0*	*759*	–	66	–	Y	213	072, 073	–	–	–	T	–	–
Paimio				0	763	–	–	–	–			–	–	–	–	–	–
Palopuro				0	–	–	–	–	–			–	–	–	–	–	–
Paltamo	231	231	265	1	664	25 A	–	–	Y	442	464	–	–	H	T	–	–
Pankakoski				0	–	–	–	–	K Y	1 431	032, 033, 034, 035	–	–	–	T	–	–
Parikkala	294	379	265	3	705	25 A	30	Y	–			–	–	H	–	–	–
Parkano	600	600	550	3	941	25 A	10	–	K Y			–	–	H	T	–	–
Parola	180	192	550	2	923	–	31	Y	Y	439	404	–	–	H	T	–	–

*) no winter maintenance

Name	Min. platform length	Max. platform length	Laiturikorkeus	Number of tracks with platforms	Design train length (freight traffic)	Sähkövirran saanti	Side loading platform	End loading platform	Kuormaus-kenttä	Seisontaraide (m/liikennepaikka)	Storage sidings	Crane	Fuel	Henkilöliikennettä	cargoliikennettä	Kääntöpöytä tai kolmioraide (KR)	VAK-ratapihat
Name	**Min. platform length [m]**	**Max. platform length [m]**	**Platform height [mm]**	**Number of tracks with platforms**	**Design train length (freight traffic) [m]**	**Power supply [400 V, A]**	**Side loading platform length [m]**	**End loading platform**	**Loading site**			**Crane [t]**	**Fuel**	**Passenger traffic**	**Freight traffic**	**Turntable or triangular junction (KR)**	**Railway yard for dangerous goods**
Patokangas				0	713		—	—	K Y					—	T	—	—
Pello	454	454	265	1	585	25 A	35	—	K Y			—	—	H	T	—	—
Peltosalmi				0	—	25 A	—	—	Y	525	002	Y	—	—	T	—	—
Peräseinäjoki				0	762	—	16	—	Y			—	—	—	T	—	—
Pesiökylä				0	—	—	—	—	—	963	001, 011	—	—	—	—	—	—
Petäjävesi	142	142	265	1	762	—	—	—	K			—	—	H	T	—	—
PIEKSÄMÄKI																	
Pieksämäki station	*332*	*611*	*265*	*4*	*499*	1500 V, 63 A	5	—	Y	190	002	—	—	H	—	—	—
Pieksämäki Temu				*0*	*947*	63 A	—	—	K Y	3 512	Katso taulukko alla	—	Y	—	—	KR	—
Pieksämäki lajittelu				*0*	*875*	—	—	—	—	24 597	Katso taulukko alla	—	—	—	T	—	—
Pieksämäki cargo				*0*	*775*	—	—	—	—			—	—	—	T	—	—
Pietarsaari				0	706	25 A	—	—	—	96	104	—	—	—	T	—	—
Pihlajavesi	99	120	265, 550	2	546	—	—	—	—			—	—	H	—	—	—
Pihtipudas				0	—	—	—	—	Y	784	002	—	—	—	T	—	—
Piikkiö				0	303	—	—	—	Y			—	—	—	T	—	—
Pikkarala				0	759	—	—	—	—			—	—	—	—	—	—
Pitäjänmäki	270	306	550	2	—	—	—	—	—			—	—	H	—	—	—
Pitkäkallio				0	—	—	—	—	—			—	—	—	—	—	—
Pitkämäki				0	1153	—	—	—	Y			—	—	—	T	—	—
Pohjankuru				0	301	—	—	—	Y	557	003, 004	—	—	—	T	—	—
Pohjois-Haaga	240	240	550	2	—	—	—	—	—			—	—	H	—	—	—
Pohjois-Louko				0	—	—	—	—	—			—	—	—	—	—	—
Poikkeus				0	715	—	—	—	—			—	—	—	—	—	—
Poiksilta				0	—	—	—	—	Y	737	011	—	—	—	T	—	—
Pori	251	251	550	2	733	—	—	—	K Y	7 277	Katso taulukko alla	—	Y	H	T	—	—
Porvoo	118	118	265	1	—	—	—	—	—	1 232	003, 004, 005, 006, 007, 008, 042, 051	—	—	H	—	Y	—
Puhos				0	648	25 A	13	—	Y	1 050	004, 005	—	—	—	T	—	—
Puistola	274	274	550	2	—	—	—	—	—			—	—	H	—	—	—
Pukinmäki	273	279	550	2	—	—	—	—	—			—	—	H	—	—	—
Pulsa				0	1834	—	—	—	—			—	—	—	—	—	—
Punkaharju	201	201	265	1	435	25 A	—	—	Y	482	773	—	—	H	T	—	—
Pyhäkumpu				0	366	—	9	—	—			—	—	—	T	—	—
Pyhäkumpu erkanemisvaihde				0	—	—	—	—	—			—	—	—	—	—	—
Pyhäsalmi	65	65	265	1	666	25 A	—	—	Y			—	—	H	T	—	—
Pännäinen	450	450	550	2	750	—	—	—	—			—	—	H	—	—	—
Raahe				0	1147	63 A	53	—	Y	2 429	004, 007, 008, 009	—	—	—	T	—	—
Raippo				0	1847	—	144	—	—	698	070	—	—	—	T	—	—
Raisio				0	—	—	—	—	—	943	253, 254, 257	—	—	—	T	—	—
Rajamäki				0	—	—	—	—	Y	891	162, 163, 164	—	—	—	T	—	—
Rajaperkiö				0	746	—	—	—	—			—	—	—	—	—	—
Rantasalmi				0	784	—	—	—	Y			—	—	—	T	—	—
Rasinsuo				0	740	—	—	—	—			—	—	—	—	—	—
Ratikylä				0	748	—	—	—	Y			—	—	—	T	—	—
Rauha				0	791	—	—	—	Y	540	483, 484	—	—	—	T	—	—
Rauhalahti				0	—	—	—	—	—			—	—	—	T	—	—
Rauma				0	916	25 A	15	Y	Y	5 468	301, 302, 303, 304, 305, 306, 307, 313, 314, 315	—	—	—	T	—	—
Raunio				0	759	—	—	—	—			—	—	—	—	—	—
Rautaruukki				0	—	—	—	—	—			—	—	—	T	—	—
Rautjärvi				0	784	—	—	—	—			—	—	—	—	—	—
Rautpohja				0	—	—	—	—	Y			—	—	—	T	—	—
Rekola	270	270	550	2	—	—	—	—	—			—	—	H	—	—	—
Retretti	121	121	265	1	—	—	—	—	—			—	—	H	—	—	—
RIIHIMÄKI																	
Riihimäki Arolampi				*0*	—	—	—	—	—			—	—	—	—	—	—
Riihimäki lajittelu				*0*	719	—	—	—	Y	5 207	030, 031, 032, 033, 034, 035, 036, 056	—	—	—	T	—	—
Riihimäki cargo				*0*	*997*	—	—	—	K Y	5 305	082, 083, 084, 085, 086, 087, 088, 089	—	—	—	T	—	Y
Riihimäki station	*80*	472	*550, 265*	*6*	*643*	1500 V, 63 A	26	—	—	1 937	011, 317, 345, 346, 349, 366, 367, 368, 369, 370	—	Y	H	—	Y	—
Riijärvi				0	757	—	—	—	—			—	—	—	—	—	—
Riippa				0	968	—	—	—	—	766	505	—	—	—	—	—	—
Ristiina				0	765	—	—	—	Y			—	—	—	T	—	—
Ristijärvi				0	—	—	—	—	—			—	—	—	—	—	—
Rovaniemi	484	546	550, 265	3	731	1500 V, 63 A	188	K Y	K Y	3 506	640, 674, 675, 681, 682, 683, 684	—	—	H	T	20	—
Ruha				0	—	—	—	—	—			—	—	—	—	—	—
Runni	36	36	265	1	—	—	—	—	—			—	—	H	—	—	—
Ruukki	454	454	550	1	738	—	—	—	Y	602	554	—	—	H	T	—	—
Ruusumäki				0	—	—	—	—	—			—	—	—	—	—	—
Ryttylä	171	173	550	2	—	—	7	—	Y			—	—	H	T	—	—
Röyttä				0	—	25 A	—	—	Y	2 832	002, 003, 004, 005	—	—	—	T	—	—

*) no winter maintenance

Name	Min. platform length	Max. platform length	Laiturikorkeus	Number of tracks with platforms	Design train length (freight traffic)	Sähkövirran saanti	Side loading platform	End loading platform	Kuormaus-kenttä	Seisontaraide (m/liikennepaikka)	Storage sidings	Crane	Fuel	Henkilöliikennettä	cargoliikennettä	Kääntöpöytä tai kolmioraide (KR)	VAK-ratapihat
Name	**Min. platform length** [m]	**Max. platform length** [m]	**Platform height** [mm]	**Number of tracks with platforms**	**Design train length (freight traffic)** [m]	**Power supply** [400 V, A]	**Side loading platform length** [m]	**End loading platform**	**Loading site**			**Crane** [t]	**Fuel**	**Passenger traffic**	**Freight traffic**	**Turntable or triangular junction (KR)**	**Railway yard for dangerous goods**
Saakoski				0	816	25 A	5	–	–			–	–	–	–	–	–
Saari					692	–	–	–	–			–	–	H	T	–	–
Saarijärvi				0	–	–	40	Y	Y	1 139	002, 003	–	–	–	T	–	–
Salminen				0	736	–	–	–	Y			–	–	–	–	–	–
Salo	306	308	550	3	380	–	–	Y	Y			–	–	H	T	–	–
Sammalisto				0	–	–	–	–	–			–	–	–	–	–	–
Santala	70	70	550	1	–	–	–	–	–			–	–	H	–	–	–
Saunamäki				0	–	–	–	–	–			–	–	–	–	–	–
Savio	270	270	550	2	–	–	–	–	–			–	–	H	–	–	–
SAVONLINNA																	
Savonlinna station		*90*	*550*	*1*	–	–	–	–	–			–	–	H	–	–	–
Pääskylahti	*90*	*90*	*550*	*1*	*663*	63 A	–	–	–			–	Y	H	–	–	–
SEINÄJOKI																	
Seinäjoki cargo				*0*	*861*	25 A	40	–	Y	5 366	834, 835, 836, 837, 838, 839, 840	–	–	–	T	Y	–
Seinäjoki station	*396*	*459*	*550, 265*	*4*	*478*	1500 V, 63 A	65	–	Y	5 716	Katso taulukko alla	–	Y	H	T	21	–
Selänpää				0	772	–	–	–	–			–	–	–	–	–	–
Sieppijärvi				0	–	–	–	–	Y	756	502	–	–	–	T	–	–
Sievi				0	–	–	–	–	–			–	–	–	–	–	–
Siikamäki				0	–	–	–	–	–			–	–	–	–	–	–
SIILINJÄRVI										791	606, 607						
Siilinjärvi station	*156*	*360*	*265*	*2*	*702*	25 A	–	–	Y			–	–	H	T	KR	–
Ruokosuo				*0*	–		–	–	–			–	–	–	T	KR	–
Simo					990	–	46	–	Y			–	–	–	–	–	–
Simpele	243	301	265	3	796	25 A	17	–	Y	530	806	–	–	H	T	–	–
Sipilä				0	–	–	–	–	–			–	–	–	–	–	–
Sisättö				0	757	–	–	–	–			–	–	–	–	–	–
Siuntio	112	176	550	2	513	–	–	–	–			–	–	H	–	–	–
Siuro					703	–	–	–	Y			–	–	–	–	–	–
Skogby	68	68	550	1	–	–	–	–	–			–	–	H	–	–	–
Sköldvik				0	945	25 A	–	–	–	7 008	002, 003, 011, 012, 013, 014, 015, 016, 017	–	–	–	T	–	Y
Soinlahti				0	–	–	–	–	Y			–	–	–	T	–	–
Sorsasalo				0	–	–	–	–	–			–	–	–	T	–	–
Sukeva	239	239	265	1	624	25 A	–	–	Y			–	–	–	T	–	–
Suolahti				0	676	25 A	–	–	Y	627	393	–	–	–	T	–	–
Suonenjoki	350	350	550	2	753	25 A	–	–	Y			–	–	H	T	20	–
Suoniemi				0	743	–	–	–	–			–	–	–	–	–	–
Syrjä				0	–	–	5	–	–	245	192	–	–	–	–	–	–
Syrjämäki				0	–	–	–	–	–			–	–	–	–	–	–
Sysmäjärvi				0	–	–	–	–	Y	1 186	602, 603	–	–	–	T	–	–
Säkäniemi				0	–	–	–	–	–			–	–	–	–	–	–
Sänkimäki				0	–	–	–	–	Y	603	253	–	–	–	T	–	–
Sääksjärvi				0	–	–	–	–	–			–	–	–	–	–	–
Taavetti				0	723	–	18	–	–	452	404	–	–	–	T	–	–
Tahkoluoto				0	–	–	–	–	Y			–	–	–	T	–	–
Taipale				0	829	–	–	–	–			–	–	–	–	–	–
Talviainen				0	732	25 A	–	–	–			–	–	–	–	–	–
Talvivaara				0	614	–	–	–	–			–	–	–	T	–	–
Ekenäs	80	80	550	1	–	–	–	–	–			–	–	H	–	–	–
TAMPERE																	
Tampere cargo				*0*	*767*	1500 V, 63 A	15	–	–	1 497	875, 881, 991, 992, 993, 994, 995, 996	Y	Y	–	T	22	K
Tampere Viinikka				*0*	*966*	25 A	134	Y	Y	3 835	225, 226, 227, 228, 229, 230, 231, 232, 722	–	–	–	T	–	Y
Tampere station	*500*	*500*	*550*	*5*	*693*	1500 V, 63 A	–	Y	–	962	006, 007, 340	–	–	H	–	–	–
Tampere Järvensivu				*0*	–	–	–	–	–			–	–	–	–	KR	–
Tapanila	272	272	550	2	–	–	–	–	–			–	–	H	–	–	–
Tapavainola				0	748	–	–	–	–			–	–	–	–	–	–
Tavastila	47	47	265	1	–	–	–	–	–			–	–	H	–	–	–
Tervajoki	171	171	265	1	–	–	–	–	–			–	–	H	–	–	–
Tervola	231	301	265	2	709	25 A	11	–	Y			–	–	H	–	–	–
Tesoma	250	250	550	1													
Teuva				0	–	25 A	–	–	Y			–	–	–	T	–	–
Tikkala				0	1029	–	–	–	–			–	–	–	–	–	–
Tikkaperä				0	925	–	–	–	–			–	–	–	–	–	–
TIKKURILA																	
Havukoski				*0*	*0*	–	–	–	–			–	–	–	–	–	–
Hiekkaharju	*255*	*526*	*550*	*3*	–	–	–	–	–	233	244	–	–	H	–	–	–
Tikkurila station	*320*	*445*	*550*	*6*	*412*	–	30	–	Y	564	002, 003	–	–	H	T	–	–
Tohmajärvi				0	735	–	–	–	Y	917	273, 274	–	–	–	T	–	–
Toijala	450	450	550	4	690	25 A	–	–	Y	3 275	072, 073, 609, 610, 611, 612, 614, 697	Y	–	H	T	Y	–

*) no winter maintenance

Name	Min. platform length	Max. platform length	Laiturikorkeus	Number of tracks with platforms	Design train length (freight traffic)	Sähkövirran saanti	Side loading platform	End loading platform	Kuormaus-kenttä	Seisontaraide (m/liikennepaikka)	Storage sidings	Crane	Fuel	Henkilöliikennettä	cargoliikennettä	Kääntöpöytä tai kolmioraide (KR)	VAK-ratapihat
Name	Min. platform length [m]	Max. platfrorm length [m]	Platform height [mm]	Number of tracks with platforms	Design train length (freight traffic) [m]	Power supply [400 V, A]	Side loading platform length [m]	End loading platform	Loading site			Crane [t]	Fuel	Passenger traffic	Freight traffic	Turntable or triangular junction (KR)	Railway yard for dangerous goods
Toivala				0	749	25 A	—	—	Y	219	003	—	—	—	T	—	—
Tolsa	220	220	550	2	—	—	—	—	—			—	—	H	—	—	—
Tommola				0	—	—	—	—	—			—	—	—	—	—	—
Torkkeli				0	786	—	—	—	—			—	—	—	—	—	—
TORNIO																	
Tornio station				*0*	*321*	63 A	24	Y	Y	2 559	012, 013, 016, 025, 028	—	—	—	T	—	—
Tornio-raja				*0*	—	—	—	—	—			—	—	—	T	—	—
Tornio-Itäinen	297	297	550	1	—	—	—	—	—			—	—	H	—	KR	—
Tuomarila	220	222	550	2	—	—	—	—	—			—	—	H	—	—	—
Tuomioja				0	940	—	—	—	—	678	504	—	—	—	—	KR	—
Turenki	170	170	550	2	1204	—	—	—	Y	846	204, 205	—	—	H	T	—	—
TURKU																	
Kupittaa	*420*	*420*	*550*	*2*	*632*	—	—	—	—			—	—	H	—		—
Turku station	*315*	*466*	*550*	*6*	*756*	1500 V, 63 A	—	Y	—	544	018	—	Y	H	T	—	—
Turku cargo				*0*	*382*	25 A	10	—	K Y	2 646	102, 103, 104, 105, 106, 107, 108	—	—	—	T	—	Y
Turku satama	*300*	*304*	*550*	*2*	421	63 A	—	—	—			—	—	H	—	—	—
Tuupovaara				0	—	—	14	—	Y	603	002	—	—	—	T	—	—
Tuuri	66	66	550	1	—	—	—	—	Y			—	—	H	—	—	—
Törmä				0	857	—	—	—	—			—	—	—	—	—	—
Törölä				0	756	—	—	—	—			—	—	—	—	—	—
Uimaharju	98	98	550	1	805	25 A	—	—	K Y	2 263	356, 357, 358, 359	—	—	H	T	—	—
Urjala				0	732	—	8	—	—	157	733	—	—	—	—	—	—
Utajärvi	165	165	265	2	925	—	25	—	Y			—	—	H	T	—	—
Utti				0	—	—	101	—	—			—	—	—	T	—	—
Uusikaupunki				0	680	—	—	—	—	513	453	—	—	—	T	—	—
Uusikylä	120	120	550	2	1382	—	6	—	Y	504	609, 614, 616	Y	—	—	T	—	—
Vaajakoski				0	725	—	14	—	Y			—	—	—	T	—	—
Vaala	182	182	265	2	1019	25 A	25	—	Y			—	—	H	—	—	—
Vaarala				0	—	—	—	—	Y			—	—	—	T	—	—
Vaasa	258	258	550	1	450	1500 V, 63 A	—	—	—	855	832, 833	—	—	H	T	—	—
Vahojärvi				0	716	—	—	—	—			—	—	—	—	—	—
VAINIKKALA																	
Vainikkala cargo				*0*	*1409*	25 A	50	Y	Y	2 544	309, 310, 311, 312, 313, 322, 421	—	Y	—	T	—	Y
Vainikkala station	*482*	*484*	*550, 265*	*3*	*952*	—	—	—	Y	290	423	—	—	H	T	—	Y
Vainikkala-raja				0	—	—	—	—	—			—	—	—	T	—	—
Valimo	270	270	550	2	—	—	—	—	—			—	—	H	—	—	—
Valkeakoski				0	346	—	54	—	Y			—	—	—	T	—	—
Valkeasuo				0	—	—	—	—	Y			—	—	—	—	—	—
Valtimo				0	756	—	—	—	Y	798	002	—	—	—	T	—	—
Vammala	251	251	550	3	843	—	128	—	Y			—	—	H	T	—	—
Vanattara				0	—	—	—	—	—			—	—	—	—	—	—
Vantaankoski	193	196	550	2	—	—	—	—	—			—	—	H	—	—	—
Varkaus	180	213	265	2	728	63 A	124	Y	K Y	2 115	105, 106, 108, 109, 111	—	—	H	T	KR	—
Vartius				0	1093	25 A	—	—	Y			—	—	—	T	—	—
Vartius-raja				0	—	—	—	—	—			—	—	—	T	—	—
Vasikkahaka				0	—	—	—	—	—			—	—	—	—	—	—
Vaskiluoto				0	—	—	Y	—	K Y			—	—	—	T	—	—
Vehkala	230	230	550	2	—	—	—	—	—			—	—	H	—	—	—
Venetmäki				0	825	—	—	—	—			—	—	—	—	—	—
Vesanka				0	—	—	5	—	Y			—	—	—	—	—	—
Viekki				0	—	—	—	—	Y	1 500	652, 653	—	—	—	—	—	—
Vierumäki				0	—	—	92	—	Y			—	—	—	T	—	—
Vihanti	450	450	550	2	698	—	—	—	K Y	602	404	—	—	H	—	—	—
Vihtari	58	98	265	2	562	25 A	134	—	Y	706	303, 304	—	—	H	T	—	—
Vihtavuori				0	723	—	—	—	—			—	—	—	T	—	—
Viiala	170	170	550	2	—	—	—	—	—			—	—	H	—	—	—
Viinijärvi	132	186	265	2	641	25 A	—	—	—			—	—	H	T	—	—
Villähde	120	120	550	2	—	—	—	—	—			—	—	—	—	—	—
Vilppula	112	112	550	1	694	25 A	—	—	Y	962	201, 206, 212	—	—	H	T	—	—
Vinnilä				0	—	—	—	—	—			—	—	—	—	—	—
Virkamies				0	—	—	—	—	—			—	—	—	—	—	—
Voltti				0	761	—	—	—	—			—	—	—	—	—	—
Vuohijärvi				0	710	—	15	Y	—	1 243	234, 235	—	—	—	T	—	—
Vuojoki				0	760	—	—	—	—			—	—	—	—	—	—
Vuokatti				0	627	25 A	—	—	K Y	1 245	001, 003	—	—	—	T	—	—
Vuonislahti	55	55	265	1	—	—	—	—	—	701	452	—	—	H	—	—	—
Vuonos				0	—	—	16	—	—			—	—	—	T	—	—
Vuosaari				0	927	—	—	—	—	6 098	Katso taulukko alla	—	—	—	T	—	—

*) no winter maintenance

Name	Min. platform length	Max. platform length	Laiturikorkeus	Number of tracks with platforms	Design train length (freight traffic)	Sähkövirran saanti	Side loading platform	End loading platform	Kuormaus-kenttä	Seisontaraide (m/liikennepaikka)	Storage sidings	Crane	Fuel	Henkilöliikennettä	cargoliikennettä	Kääntöpöytä tai kolmioraide (KR)	VAK-ratapihat
Name	**Min. platform length [m]**	**Max. platform length [m]**	**Platform height [mm]**	**Number of tracks with platforms**	**Design train length (freight traffic) [m]**	**Power supply [400 V, A]**	**Side loading platform length [m]**	**End loading platform**	**Loading site**			**Crane [t]**	**Fuel**	**Passenger traffic**	**Freight traffic**	**Turntable or triangular junction (KR)**	**Railway yard for dangerous goods**
YKSPIHLAJA																	
Ykspihlaja cargo				*0*	767	–	–	–	K Y	773	004, 030, 060	–	–	–	T	–	Y
Ykspihlaja väliratapiha				*0*	*939*	63 A	–	–	K Y	1 099	011, 040, 041	–	–	–	T	–	Y
Ylistaro	177	177	265	1	–	–	–	–	–			–	–	H	–	–	–
Ylitornio	167	167	265	1	–	25 A	–	–	–			–	–	H	–	–	–
Ylivalli				0	1014	–	–	–	Y	519	003	–	–	–	–	–	–
Ylivieska	436	450	265	3	767	63 A	113	–	K Y	3 859	Katso taulukko alla	–	–	H	T	20	–
Yläkoski				0	–	–	–	–	Y			–	–	–	T	–	–
Ylämylly				0	–	–	77	–	Y			–	–	–	T	–	–
Ylöjärvi				0	712	–	62	–	Y			–	–	–	T	–	–
Ypykkävaara				0	1050	–	–	–	Y			–	–	–	T	–	–
Äetsä				0	924	–	–	–	Y			–	–	–	–	–	–
Ähtäri	82	224	265	2	614	–	–	–	–	599	533	–	–	H	–	–	–
Ämmänsaari				0	570	25 A	–	–	Y			–	–	–	T	–	–
Äänekoski				0	850	25 A	14	–	Y	1 988	471, 495, 496, 498	–	–	–	T	–	–

*) no winter maintenance

Traffic operating point-specific storage sidings	
Ilmala railway yard	131, 132, 133, 134, 135, 136, 137, 138, 141, 142, 143, 144, 145, 146, 147, 149, 154, 155, 156, 157, 158, 159, 161, 162, 163, 164, 165, 166, 167, 168, 169, 601, 602, 603, 604, 605, 606, 709, 710, 711, 712, 731, 732, 734, 735, 736, 737, 738, 743, 773, 774, 775, 776, 777, 778, 782, 783, 784, 785, 786, 787, 788, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 812, 813, 814
Joensuu station	006, 007, 008, 022, 023, 024, 025, 026, 027, 028, 301, 303, 304, 305
Jyväskylä	003, 008, 009, 010, 011, 012, 013, 020, 021, 023, 024, 044, 045, 046, 140, 141, 142, 143, 301
Kotka Mussalo	702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716
Kotka cargo	522, 523, 524, 525, 526, 527, 528, 529, 530, 532, 533, 534, 535, 536, 537, 538, 540
Kouvola station	001, 003, 004, 008, 009, 010, 051, 310, 311, 312, 313, 314, 315, 327, 328
Kouvola lajittelu	102, 116, 117, 120, 121, 122, 123, 125, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 156, 162, 163, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780
Niirala	176, 177, 178, 179, 180, 181, 182, 184, 185, 186, 187
Pieksämäki lajittelu	771, 772, 776, 778, 779, 784, 787, 810, 812, 813, 814, 815, 816, 817, 818, 822, 823, 824, 825, 826, 827, 831, 832, 833, 834, 835, 836, 839, 843, 844, 845, 846, 847
Pieksämäki Temu	153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 164
Pori	032, 033, 034, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 814, 815
Seinäjoki station	305, 307, 308, 310, 380, 381, 845, 852, 853, 854, 855, 856, 857, 858, 859, 860
Vuosaari	901, 902, 903, 904, 905, 906, 907, 908, 909, 911, 912
Ylivieska	006, 007, 008, 009, 010, 011, 016, 017, 023, 024, 025, 028

Name	Second name	Abbreviation	Kaupallinen nimi	Type	Km Hki	Line section	Municipality	CTC/manual	Private sidings	Vaihtotyön mahdollisuus
Haimoo		Hmo			87+700	Hyvinkää–Karjaa	Vihti	K		
Heikkilänkangas		Hg			762+500	Oulu–Kontiomäki	Oulu	K		
Honkaranta		Hkr			572+882	Iisalmi–Ylivieska	Kiuruvesi	K		
Iisalmen kolmioraide		Ilk			553+399	Iisalmi–Ylivieska	Iisalmi	K		
Jäniskorpi		Jnk			586+419	Seinäjoki–Oulu	Kannus	K		
Karvoskylä		Kvä			662+676	Iisalmi–Ylivieska	Nivala	K		
Kiilinkangas		Kkg			299+490	Kouvola–Joensuu	Lappeenranta	K		
Kuninkaanmäki		Knm			38+500	Kerava–Vuosaari	Vantaa	K		
Kuusikkoniemi		Ksn			906+900	Oulu–Kontiomäki	Paltamo	K		
Laihalampi		Lhl			296+900	Tampere-Jyväskylä	Jämsä	K		
Lapinkylä		Lpk			19+900	Vantaankoski–Havukoski	Vantaa	K		
Latukka		Ltk			563+440	Pieksämäki–Kontiomäki	Iisalmi	K		
Nuojua		Nua			835+955	Oulu–Kontiomäki	Vaala	K		
Pappilankangas		Pkg			308+633	Kouvola–Joensuu	Lappeenranta	K		
Petas		Pet			17+170	Vantaankoski–Havukoski	Vantaa	K		
Puikkokoski		Pui			665+680	Kontiomäki–Vartius-raja	Paltamo	K		
Puolukkasuo		Puo			23+510	Vantaankoski–Havukoski	Vantaa	K		
Rahkola		Rla			412+650	Orivesi-Seinäjoki	Seinäjoki	K		
Rasimäki		Rmk			602+460	Pieksämäki–Kontiomäki	Kajaani	K		
Raudaskylä		Rkä			691+015	Iisalmi–Ylivieska	Ylivieska	K		
Ruoneva		Rnv				Seinäjoki–Oulu	Siikajoki	K		
Ruskeasanta	Rödsand	Rs			28+760	Vantaankoski–Havukoski	Vantaa	K		
Saarela		Srl			594+018	Seinäjoki–Oulu	Kannus	K		
Salmenmäki		Sal				Seinäjoki–Oulu		K		
Temmesjoki		Tmj				Seinäjoki–Oulu	Liminka	K		
Tuomaanvaara		Tva			682+300	Kontiomäki–Vartius-raja	Ristijärvi	K		
Tupavuori		Tvu			260+100	Kouvola–Joensuu	Lappeenranta	K		
Tupos		Tup			736+500	Seinäjoki–Oulu	Kempele	K		
Viinikkala	Vinikby	Vkl			22+590	Vantaankoski–Havukoski	Vantaa	K		
Yllikkälä		Yll			268+500	Kouvola–Joensuu	Lappeenranta	K		

Name	Min. platform length	Max. platform length	Laiturikorkeus	Laituriraiteiden lukumäärä	Mitoittava raidepituus (cargoliikenne)	Power supply	Side loading platform length	End loading platform	Loading site	Crane	Fuel	Passenger traffic	Freight traffic	Kääntöpöytiä	VAK-ratapihat
Name	**Min. platform length [m]**	**Max. platftrorm length [m]**	**Platform height [mm]**	**Number of tracks with platforms**	**Design train length (freight traffic) [m]**	**Power supply [400 V, A]**	**Side loading platform length [m]**	**End loading platform**	**Loading site**	**Crane [t]**	**Fuel**	**Passenger traffic**	**Freight traffic**	**Turntables**	**Railway yard for dangerous goods**
Haimoo															
Heikkilänkangas															
Honkaranta															
Iisalmen kolmioraide															
Jäniskorpi															
Karvoskylä															
Kiilinkangas															
Kuninkaanmäki															
Kuusikkoniemi															
Lapinkylä															
Latukka															
Pappilankangas															
Petas															
Puikkokoski															
Puolukkasuo															
Rasimäki															
Raudaskylä															
Ruoneva															
Ruskeasanta	230	230	550	2								K			
Saarela															
Salmenmäki															
Temmesjoki															
Tesoma	250	250	550	1											
Tuomaanvaara															
Tupavuori															
Tupos															
Vehkala															
Viinikkala	230	230	550	2								K			
Yllikkälä															

Name	Second name	Abbreviation	Kaupallinen nimi	Type	Km Hki	Line section	Municipality	CTC/manual	Private sidings	Vaihtotyön mahdollisuus
Name	**Second name**	**Abbreviation**	**Commercial name**	**Type**	**Km Hki**	**Line section**	**Municipality**	**Traffic control**	**Private sidings**	**Shunting**
Buslovskaja		Bsl			288+000	Vainikkala-raja – Viipuri		K		
Haparanda	Haparanda	Hpa			888+130	Tornio-raja – Boden	Haparanda	K		
Kivijärvi		Kiv			759+800	Vartius-raja – Kostamus		K		
Svetogorsk		Stg			338+200	Imatrankoski-raja – Kamennogorsk (Antrea)		K		
Värtsilä		Vrs			553+300	Niirala-raja – Matkaselkä		K		

Name	Lyhin laituripituus	Pisin laituripituus	Laiturikorkeus	Laituriraiteiden lukumäärä	Mitoittava raidepituus (cargoliikenne)	Sähkövirransaanti	Side loading platform length	End loading platform	Kuormaus-kenttä	Crane	Fuel	Henkilöliikennettä	cargoliikennettä	Kääntöpöytiä	VAK-ratapihat
Name	**Min. platform length [m]**	**Max. platftrorm length [m]**	**Platform height [mm]**	**Number of tracks with platforms**	**Design train length (freight traffic) [m]**	**Power supply [400 V, A]**	**Side loading platform length [m]**	**End loading platform**	**Loading site**	**Crane [t]**	**Fuel**	**Passenger traffic**	**Freight traffic**	**Turntables**	**Railway yard for dangerous goods**
Buslovskaja															
Haparanda															
Kivijärvi															
Svetogorsk															
Värtsilä															

Rail loading gauge

Loading gauge (KU) means the space inside which the load on an open wagon must remain, when the wagon is in the centre position on a straight even track.

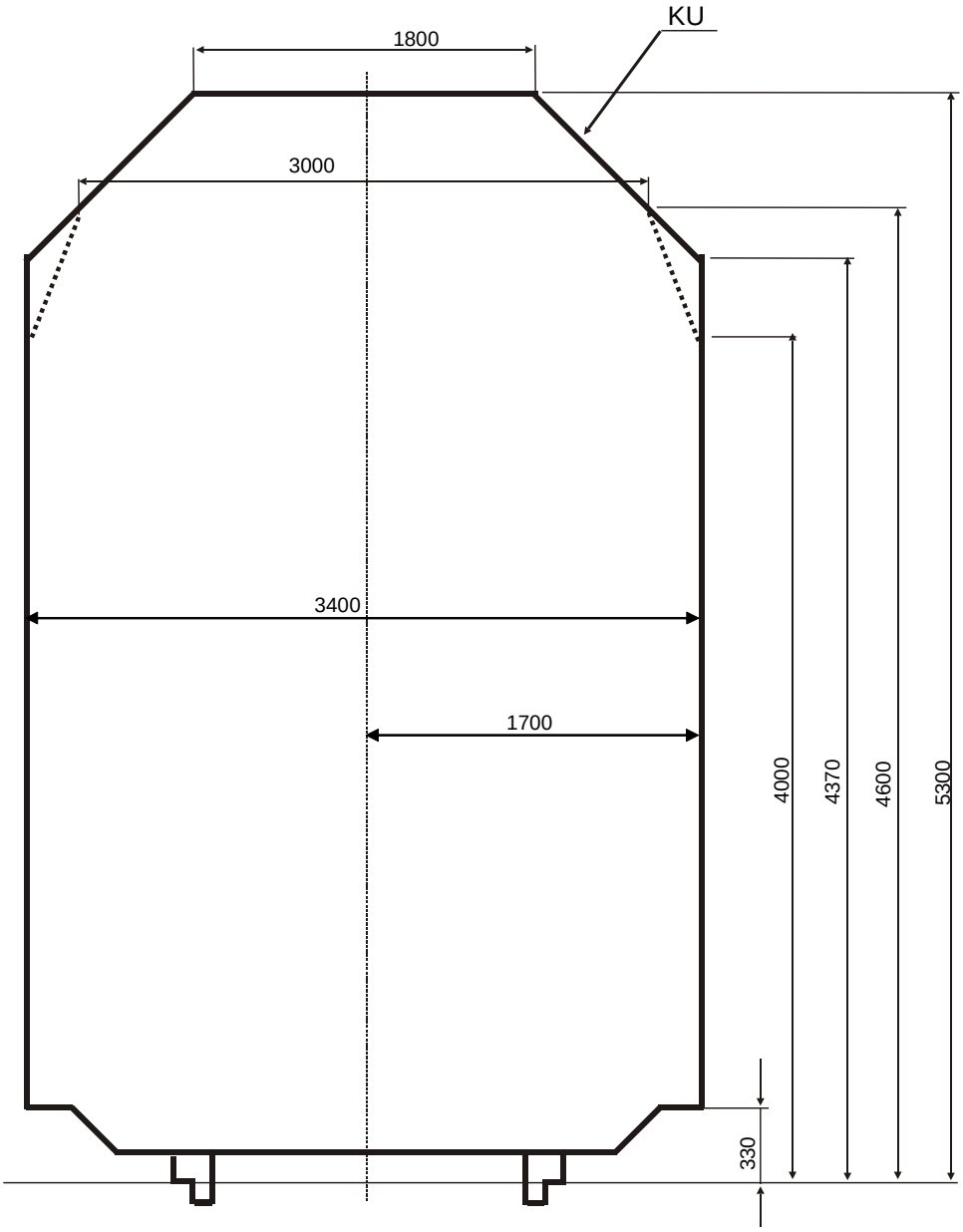

Figure 1. Principal dimensions of the loading gauge

Use of the loading gauge

The loading gauge is valid in the whole railway network with the exceptions described below.

The loading gauge may be used for wagons in which the wheelbase or the distance between bogie centres is max. 17.5 m, and the length of the loading area of the wagon outside the wheelbase or the distance between bogie centres is max. 0.2 times the length of the wheelbase or the distance between bogie centres. In other cases, the loading must be examined on a case-by-case basis.

If there is a risk that the load may be displaced laterally outside the loading gauge during transportation, the width of the load must be reduced accordingly. If the displacement of the load may increase the height of the load so that it extends outside the loading gauge, the height of the load must be reduced accordingly.

If the load extends below the floor level of the wagon, the regulations concerning the vehicle gauge (LKU) are applied or the load is considered as an exceptional transport.

Loading gauge restrictions

A restricted loading gauge is in effect on the bridges on the line section Helsinki–Pasila station – Ilmala railway yard. The loading gauge on these bridges is marked with a dashed line (------) in the loading gauge drawing (Figure 1).

There are loading gauge restrictions on many industrial and other sidings and they must be taken into account in local railway operations.

Transport terms and conditions for vehicles and other loading units exceeding the loading gauge

Lorries, lorry trailers and containers exceeding the loading gauge may be transported on the following conditions: loading instructions for lorries, lorry trailers and containers exceeding the loading gauge must be added to the railway undertaking's safety management system.

Other transports exceeding the loading gauge are considered as exceptional transports.

Loading

Loading of vehicles and other loading units exceeding the loading gauge is permitted if the maximum width of the vehicle is 2,600 mm and its height does not exceed 4,200 mm, when the floor height is 1,100 mm.

The load height from the rail upper surface may not exceed 5,300 mm and a maximum ±100 mm deviation of the lateral load is allowed.

The instructions on loading vehicles onto goods wagons must be observed when wagons intended for vehicle transports (combined transport wagons) are loaded.

The loading dimensions are also shown in Figure 2.

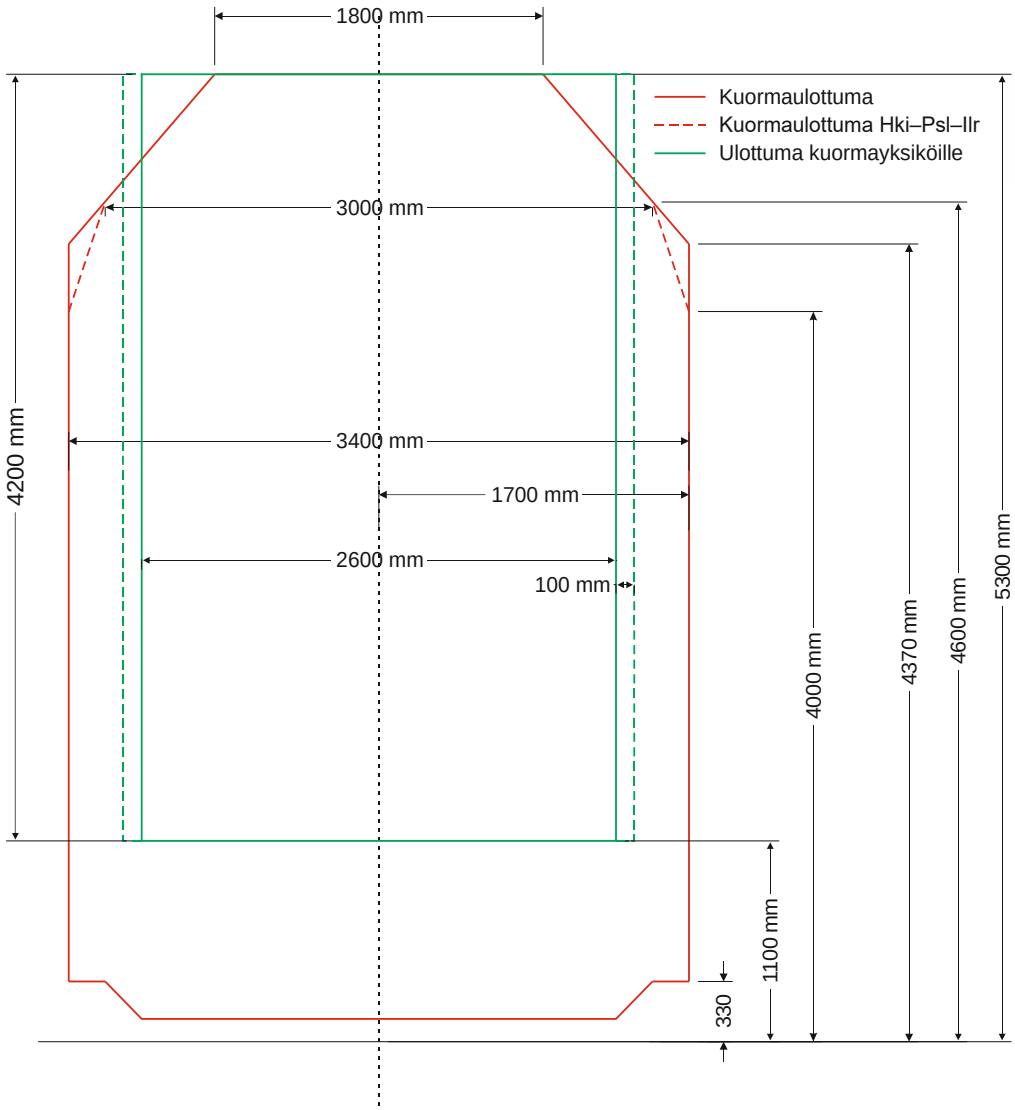

Figure 2. Loading dimensions for vehicles and other loading units exceeding the loading gauge

Line sections and tracks on which wagons exceeding the loading gauge are allowed

Vehicles and loading units exceeding the loading gauge may be transported on the line sections listed in Tables 1 and 2 in accordance with the rolling stock category shown in Table 3. The line sections are also shown in Figure 3.

At the traffic operating points that are not listed for different line sections in the tables, all through routes meeting the requirements specified in the rules applying to the use of safety installations may be used.

If a track with a number is given under a traffic operating point in the table and the track is divided into sections specified by a letter, the track number without the letter refers to all such sections.

If these transports require shunting operations on tracks that are not mentioned here, the tracks must be specified locally by a railway technology specialist.

Safety regulations must be observed when wagons are loaded, inspected and unloaded on or in the vicinity of electrified tracks.

Table 1. Wagon length ≤ 24.0 m

Wagon length ≤ 24.0 m	
I	Helsinki–Kemi–Tornio/Rovaniemi
II	Helsinki–Karjaa–Turku
III	Hanko–Hyvinkää
IV	Uusikaupunki–Turku–Toijala
V	(Tampere)–Lielahti–Mäntyluoto/Tahkoluoto/Rauma
VI	Seinäjoki–Vaskiluoto
VII	Tampere–Jämsä–Pieksämäki
VIII	Riihimäki–Kouvola–Ämmänsaari
IX	Kouvola–Lieksa
X	Pieksämäki–Varkaus–Joensuu
XI	Kontiomäki–Oulu
XII	Viinijärvi–Siilinjärvi
XIII	Kouvola–Kotka/Kotka Mussalo
XIV	Lahti–Loviisan satama
XV	Kerava–Hakosilta
XVI	Luumäki–Vainikkala-raja
XVII	Rovaniemi–Kemijärvi

Table 2. 24.0 m ≤ wagon length ≤ 26.0 m

24.0 m ≤ wagon length ≤ 26.0 m	
XVIII	Helsinki–Oulu
XIX	Riihimäki–Kouvola–Vainikkala-raja
XX	Kerava–Hakosilta
XXI	Kouvola–Kontiomäki–Oulu–Kemijärvi
XXII	Lielahti–Kokemäki
XXIII	Parkano–Niinisalo
XXIV	Kerava–Vuosaari

Wagon stock of combined transports

The combined transport stock is divided into two categories on the basis of their principal dimensions. The line sections on which the stock may be used are listed in Tables 1 and 2.

Table 3. Principal dimensions of the stock used for combined transports

Principal dimensions of the stock used for combined transports				
Category	**Length [s] over buffers/max. coupling length**	**Distance between bogie centres**	**Maximum wheelbase (distance between inner wheelsets)**	**Example**
A	s ≤ 24.0 m	18.4 m	16.6 m	Rbnqss
B	24.0 m ≤ s ≤ 26.0 m	20.0 m	18.2 m	Sdggnqss-w

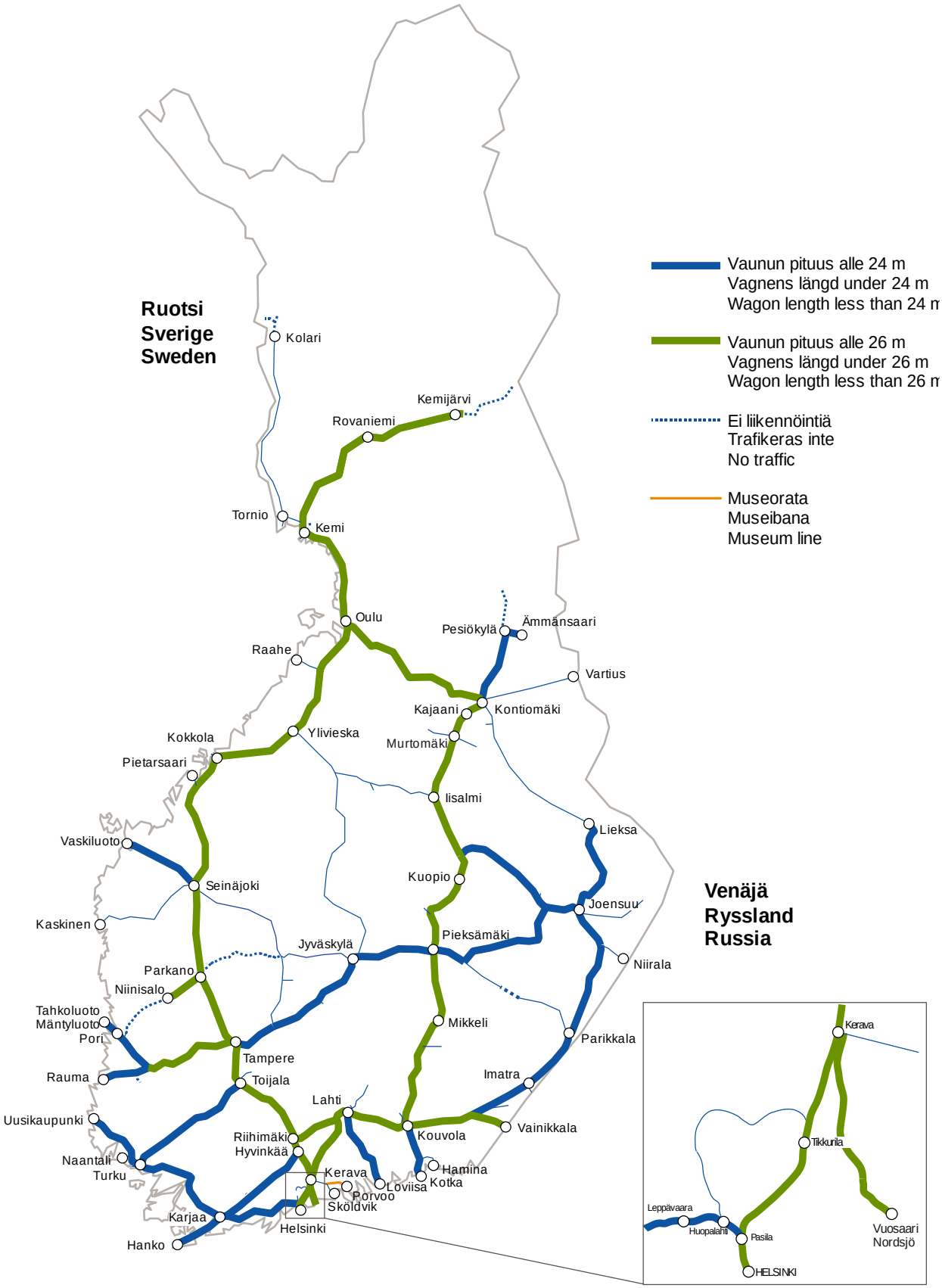

Figure 3. Using vehicles exceeding the loading gauge on different line sections

Structure gauge

No fixed installations or equipment may be placed within the structure gauge envelope.

The form and dimensions of the structure gauge (ATU) on a straight track, on an open line and in the railway yard are shown in Figure 1. The space required for the mounting of the catenary structure and for the passage of the pantograph on electrified lines is indicated by the broken line D-E-F-G-H-L. The widths of the structure gauge in curves, restrictions on it and more detailed instructions are described in part 2 'Radan geometria' (Track geometry) of the publication 'Ratatekniset ohjeet' (RATO).

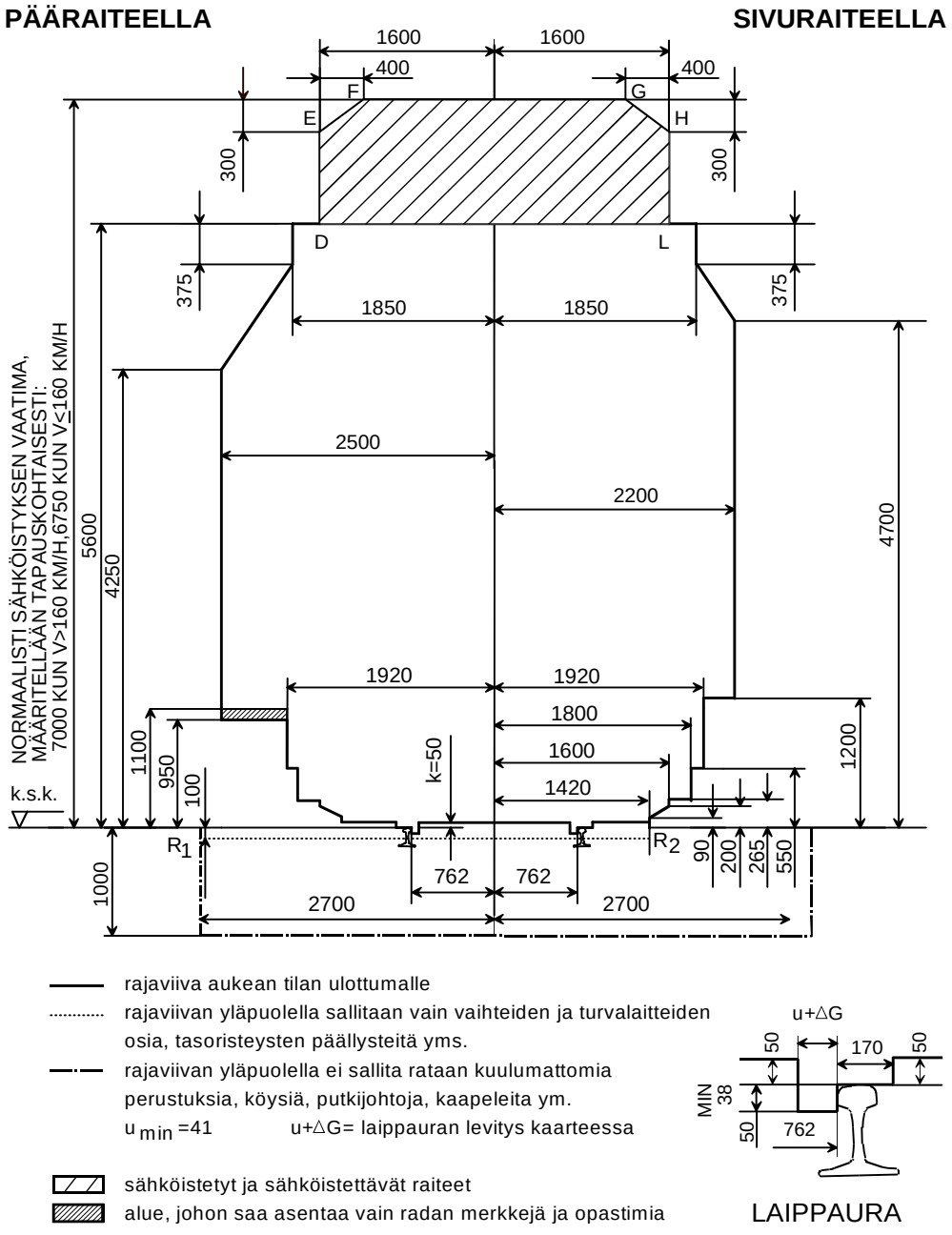

Figure 1. Principal dimensions of the structure gauge.

Effective passing clearance

The structure gauge must be observed when new structures and installations are built and mounted in the vicinity of the tracks. The structure gauge or the deviations from it constitute the effective available structure gauge (passing clearance) for exceptional transports. The details of the passing clearance on each line section are collected and continuously updated by the track maintenance providers.

Use of overweight wagons

A wagon with an axle load exceeding the maximum given for different line sections in the Network Statement's map appendix is overweight for the line section in question. The terms for using wagons built in accordance with OSJD/GOST standards with an axle load exceeding 225 kN are listed in the paragraph below.

The load specified in the wagon load table may not be intentionally exceeded. Any excess load must be unloaded at the first possible traffic operating point, if the load exceeds the permitted load by more than 5% when the maximum axle load is 225 kN or by more than 2% when the maximum axle load is 250 kN.

Overweight wagons must be used in accordance with the regulations on exceptional transports. The wheelsets and the rest of the bogie structure must be inspected before use.

A permission to use overweight wagons can be granted if this is necessary to meet occasional transport needs. The party granting the permission for the overweight transport must notify the track manager of the transport so that the condition of the track superstructure can be monitored.

Using overweight wagons in domestic traffic and in western transit traffic

When the maximum axle load of a wagon is 225 kN, the speed limits for such wagons (qt most 2 wagons) carrying excess weight are as follows:

Surface structure category	Maximum axle load kN	Speed limit km/h
A	225	20[1]
B1	235	35
B2	235	50
C1, C2, D	235	80

Using wagons built in accordance with OSJD/GOST standards with an axle load exceeding 225 kN on line sections belonging to superstructure categories C and D, on which the maximum permitted axle load is 225 kN

The maximum axle load is 250 kN.

Wagons built in accordance with OSJD/GOST standards with an axle load between 225 kN and 250 kN may run at speeds imposed on rolling stock with axle loads exceeding 225 kN, however, the speed not exceeding 60 km/h.

Using wagons built in accordance with OSJD/GOST standards with an axle load exceeding 225 kN on line sections belonging to superstructure categories C and D, on which the maximum permitted axle load is 225 kN

a) Axle load between 225 kN and 235 kN

The maximum axle load is 235 kN.

Individual wagons built in accordance with OSJD/GOST standards (at most two wagons) with an axle load between 225 kN and 235 kN may run at speeds imposed on rolling stock with axle loads up to 225 kN, however, at speed not exceeding 60 km/h.

a) Axle load exceeding 235 kN

If the axle load of a wagon built in accordance with OSJD/GOST standards exceeds 235 kN, the Rail Traffic Management Centre grants transport permits for axle loads of up to 245 kN on the line sections listed below. For other line sections, the permit is granted by Engineering and Environment of the Finnish Transport Infrastructure Agency. The wagons must run as exceptional transports

at the speeds specified in the permit.

Kerava–Sköldvik
Kokemäki–Harjavalta
Kokkola–Ykspihlaja
Riihimäki–Hakosilta
Luumäki–Joensuu
Imatra tavara–Imatrankoski-raja
Niirala-raja–Säkäniemi
Joensuu–Uimaharju
Kouvola–Pieksämäki
Pieksämäki–Kontiomäki
Pieksämäki–Joensuu
Siilinjärvi–Viinijärvi
Iisalmi–Ylivieska
Oulu–Laurila
Laurila–Tornio
Tornio–Röyttä
Oulu–Kontiomäki
Kontiomäki–Vartius-raja

Using wagons built in accordance with OSJD/GOST standards with axle loads exceeding 225 kN on line sections belonging to superstructure category B

Individual wagons built in accordance with OSJD/GOST standards (at most two wagons) with a maximum axle load of 235 kN may temporarily run as exceptional transports on line sections belonging to superstructure category B1 at a speed of 35 km/h, and on line sections belonging to superstructure category B2 at 50 km/h. The permit is granted by the Rail Traffic Management Centre.

Using wagons built in accordance with OSJD/GOST standards with axle loads exceeding 225 kN on tracks and in turnouts with K30 and K33 rail profiles

Wagons built in accordance with OSJD/GOST standards with axle loads exceeding 225 kN may not run on tracks and in turnouts with K30 and K33 rail profiles.

Use of wagons built in accordance with OSJD/GOST standards

Use of goods wagons built in accordance with OSJD/GOST standards in Finnish domestic traffic

Goods wagons built in accordance with OSJD/GOST standards can be used in Finnish domestic traffic in the state-owned railway network on line sections with minimum rail weight of 54 kg/m and no rail spikes.

As opposed to the above conditions, transport is also permitted on the following track sections:

- Pori–Aittaluoto
- Lahti–Loviisa
- Lahti–Heinola

The permitted lines are shown in Figure 1.

However, use is permitted on sidings at traffic operating points or their parts with a minimum rail weight of 43 kg/m. However, when the wagons are used on sidings, the conditions set out on page 3 of this appendix must be observed.

If a goods wagon built in accordance with OSJD/GOST standards has a wheel defect (high impact load, uneven loading, spalling), the conditions specified in the FTIA's guideline 'Junaliikenteen ja vaihtotyön turvallisuussäännöt' (Jt) must be adhered to.

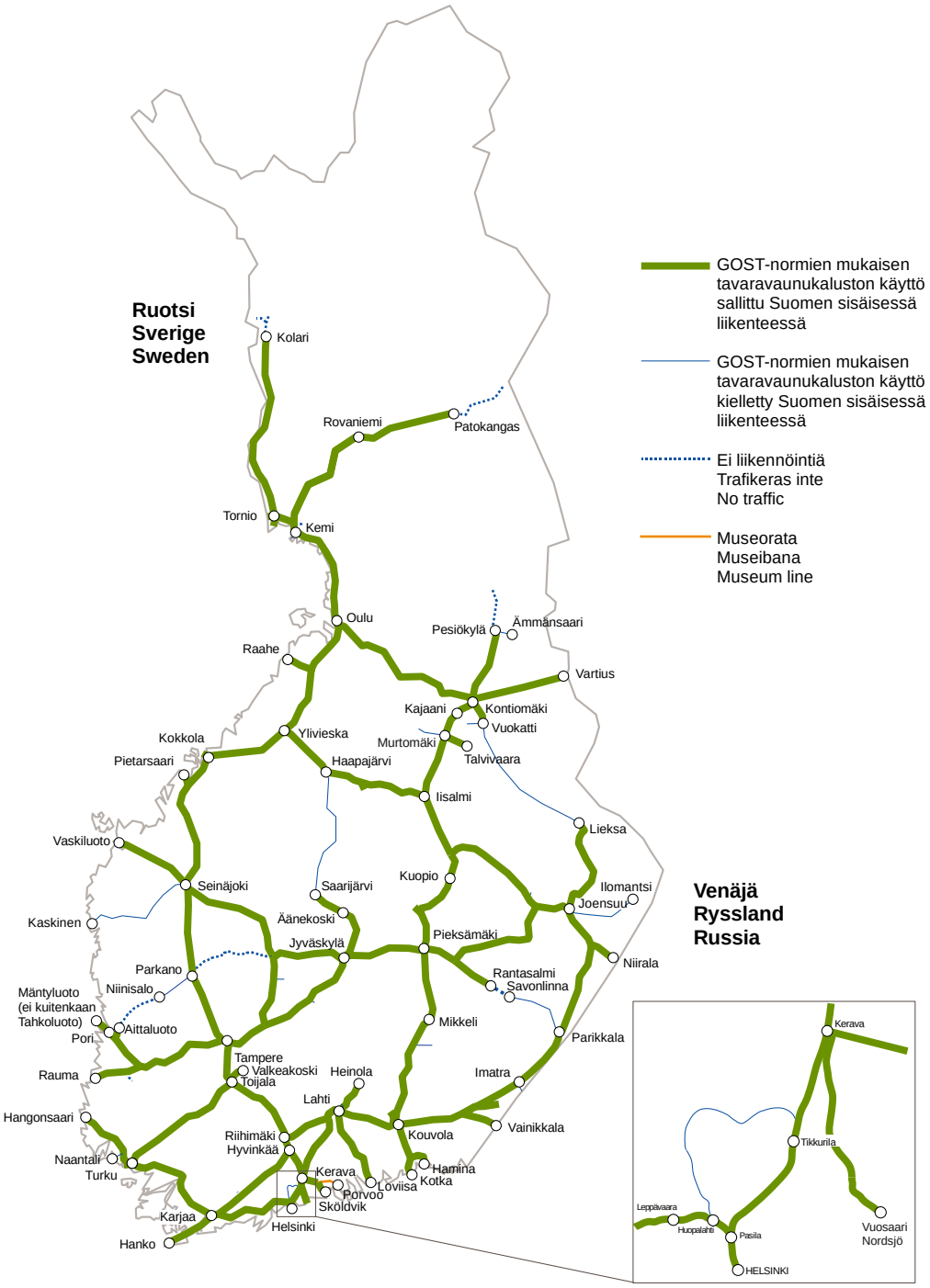

Figure 1. Railway lines where the use of goods wagons built in accordance with OSJD/GOST standards is permitted in Finnish domestic traffic.

Using goods wagons built in accordance with OSJD/GOST standards on sidings

If the train contains at least one goods wagon built in accordance with OSJD/GOST standards, the maximum speed of the train on the sidings of the following traffic operating points or their parts is 20 km/h:

Helsinki–Turku satama
Kauniainen

Huopalahti–Havukoski
—

Hyvinkää–Karjaa
Nummela

Karjaa–Hanko
—

Turku–Uusikaupunki
—

Uusikaupunki–Hangonsaari
—

Raisio–Naantali
—

Helsinki–Riihimäki
—

Kerava–Hakosilta
—

Kerava–Sköldvik
—

Kerava–Vuosaari
—

Riihimäki–Tampere
—

Toijala–Turku
—

Toijala–Valkeakoski
—

Tampere–Seinäjoki
Ylöjärvi
Peräseinäjoki
Seinäjoki asema
Seinäjoki tavara

Lielahti–Kokemäki
—

Kokemäki–Pori
Pori

Pori–Mäntyluoto
Pori
Mäntyluoto

Mäntyluoto–Tahkoluoto
Mäntyluoto

Kokemäki–Rauma
—

Niinisalo–Parkano
—

Seinäjoki–Vaasa
Seinäjoki asema
Seinäjoki tavara

Seinäjoki–Kaskinen
Seinäjoki asema
Kaskinen

Seinäjoki–Oulu
Seinäjoki asema
Seinäjoki tavara
Ylivieska
Oulu tavara

Pännäinen–Pietarsaari
Pietarsaari

Tuomioja–Raahe
—

Riihimäki–Kouvola
—

Kouvola–Kuusankoski
—

Lahti–Heinola
Heinola

Lahti–Loviisan satama
—

Kouvola–Kotka
—

Kotka Hovinsaari–Kotka Mussalo
—

Juurikorpi–Hamina
—

Kouvola–Joensuu
Joensuu Peltola
Joensuu asema

Luumäki–Vainikkala-raja
—

Imatra tavara–Imatrankoski-raja
—

Niirala-raja–Säkäniemi
—

Joensuu–Ilomantsi
Joensuu Peltola
Joensuu asema

Joensuu–Nurmes
Joensuu Peltola
Joensuu asema

Nurmes–Kontiomäki
—

Kouvola–Pieksämäki
Pieksämäki asema
Pieksämäki Temu
Pieksämäki lajittelu
Pieksämäki tavara

Mynttilä–Ristiina
Ristiina

Pieksämäki–Kontiomäki
Pieksämäki asema
Pieksämäki Temu
Pieksämäki lajittelu
Pieksämäki tavara
Kuopio asema
Kuopio tavara
Murtomäki

Pieksämäki–Joensuu
Pieksämäki asema
Pieksämäki Temu
Pieksämäki lajittelu
Pieksämäki tavara
Varkaus
Heinävesi
Joensuu asema
Joensuu Peltola

Murtomäki–Talvivaara
Murtomäki

Varkaus–Kommila
Varkaus
Kommila

Huutokoski–Rantasalmi
—

Savonlinna–Parikkala
Kerimäki
Punkaharju

Siilinjärvi–Viinijärvi
—

Tampere–Jyväskylä
—

Orivesi–Seinäjoki
Vilppula
Alavus

Vilppula–Mänttä
Vilppula

Haapamäki–Jyväskylä
–

Jyväskylä–Pieksämäki
Pieksämäki asema
Pieksämäki Temu
Pieksämäki lajittelu
Pieksämäki tavara

Jyväskylä–Äänekoski
—

Äänekoski–Haapajärvi
Haapajärvi

Iisalmi–Ylivieska
Pyhäsalmi
Haapajärvi

Pyhäkumpu erkanemisvaihde–Pyhäkumpu
—

Oulu–Laurila
Oulu tavara

Laurila–Tornio-raja
—

Tornio–Kolari
Pello

Laurila–Kemijärvi
Rovaniemi
Misi
Kemijärvi

Kemijärvi–Patokangas
Kemijärvi

Oulu–Kontiomäki
Paltamo
Oulu tavara

Kontiomäki–Ämmänsaari
Hyrynsalmi
Pesiökylä

Kontiomäki–Vartius-raja
—

Maximum speeds of rolling stock categories

This appendix presents the maximum speed for each rolling stock category at different superstructure classes. Speed limits lower than those listed here may be imposed, and the lower speed limit is always mandatory.

The rolling stock for which the Finnish Transport and Communications Agency has issued authorisations for placing in service and for placing on the market valid until further notice is listed in the tables below. A rolling stock category is added to the list after it has received authorisation for placing in service and placing on the market.

Table 1. Maximum permitted speeds of tractive stock and railcars.

Series	Surface structure category					
	A[1]	B_1	B_2	C_1	C_2	D
Dv12	50[2, 3]	100	110	125	125	125
Dr14 (with added weight)	–	50	75[4]	75[4]	75[4]	75[4]
Dr16	–	70	110	140[5]	140[5]	140[5]
Dv17 9810 6003070-8	30	40	40	40	40	40
Dr17 9810 6006010-1	–	50	50	50	50	50
Dr17 9810 6007001-9	30	65	65	65	65	65
Dr18	–[6]	90	90	90	90	90
Dr19	–[6]	60	120	120	120	120
Dv19 9810 8000048-3	20	20	20	20	20	20
Dr20	–[6]	80	90	120	120	120
Dr21	–[6]	60	60	60	60	60
Dr25 9810 8029002-7	20	25	25	25	25	25
Dr25 9810 8021043-9	16	16	16	16	16	16
Dr25 9810 8129002-6	20	25	25	25	25	25
Dr25 9810 8129003-4	20	25	25	25	25	25
Dr25 9810 8129166-9	14	14	14	14	14	14
Dr27 9810 8121053-7–9810 8121054-9	8	8	8	8	8	8
Dr30 9810 1002001-5	60	60	60	60	60	60
Dr35 9810 8039011-6	20	60	60	60	60	60
Dr35 9810 8039013-2	35	60	60	60	60	60
Dr35 9810 8128001-9[7]	20	20	20	20	20	20
Dr35 9810 8139005-7	–	30	30	30	30	30
Dr35 9810 8139006-5	–	30	30	30	30	30
Dr45 9810 8049001-5	–	60	60	60	60	60
Sk 9010 9981201-7	7	7	7	7	7	7
Sk 9010 9981202-5	7	7	7	7	7	7
Sr1	–	80	100	140	140	140
Sr2	–	80	100	180[8]	200	210

[1] For tracks belonging to superstructure category A, see 'Use of tractive stock on tracks belonging to superstructure category A'.
[2] Max. permitted speed in curves with a radius of under 600 m is 40 km/h. Max. permitted speed on the line section Äänekoski–Haapajärvi is 60 km/h.
[3] Max. permitted speed in the deflecting section of K30 turnouts is 20 km/h.
[4] In tow, max. permitted speed is 80 km/h.
[5] Max. permitted speed without wagons is 135 km/h (alone or in multi-heading).
[6] Use of and speeds on category A line sections are on a case-by-case basis.
[7] In tow, max. permitted speed is 60 km/h.
[8] Max. permitted speed without wagons is 160 km/h. Max. permitted speed in multi-heading is 160 km/h.

Series	Surface structure category					
	A[1]	B_1	B_2	C_1	C_2	D
Sr3	–	80	100	180	200	200
Railcars						
Sm1, Sm2	–	90	110	120	120	120
Sm3	–	100	110	180	200	220
Sm4	–	90	110	160	160	160
Sm5	–	90	110	160	160	160
Sm6	–	100	110	180	200	220
Dm12	50	100	110	120	120	120

SMALL-POWER LOCOMOTIVES AND TRACK MOTOR CARS

(Towing speed is given in brackets if it differs from the maximum permitted speed when the vehicles are moving on their own power.)

Table 2. Maximum permitted speeds of small-power locomotives and track motor cars

Series	Surface structure category			
	A[1]	B_1	B_2	C_1, C_2 and D
Tve1	30 (60)	30 (80)	30 (80)	30 (80)
Tve2	45 (60)	45 (80)	45 (80)	45 (80)
Tve4	35	60	80	80
Tve5	20 (50)	20 (50)	20 (50)	20 (50)
Tka3-6	60	60 (80)	60 (80)	60 (80)
Tka7 nos. 168–238 and 243–247	60	80	80	80
Tka7 (with snowploughs; nos. 168–238)	35[9]	60[9] (80)	60[9](80)	60[9](80)
Tka7 nos. 239–242	50	80	80	80
Tka7 (with snowploughs; nos. 239–247)	35[9]	60[9](80)	60[9](80)	60[9](80)
Tka7 (with field welding station; nos. 168–238 and 243–247)	35	60	60	80
Tka8	35	60	80	80
Tka9 no. 91901	20[10]	50[10]	70[10]	70[10]
Otso4 no. 920001	20[11]	45	45	45

[9] Max. snowploughing speed is specified in the machine operator's manual.
[10] Towing in accordance with the manufacturer's instructions
[11] Max. permitted speed on category A sidings is 20 km/h.

MAXIMUM PERMITTED SPEEDS OF MACHINES MOVING ON THEIR OWN POWER

(Towing speed is given in brackets if the machine can be coupled to a train and the towing speed differs from what is stated above.)

Table 3. Maximum permitted speeds of machines when they are moving on their own power

Series	Surface structure category			
	A	B_1	B_2	C_1, C_2 and D
Track inspection cars				
Et no. 66	20[12]	60	60	100
Ttr1 no. 51	60	80	120	120
Ttr 99 10 9129 001-5	40	80	120/160	120/160
Snow sweepers				
Tlh no. 741[13]	50	60	60	60
Snowploughs				
Tla 90109691001-2	35	60	60	60
Rail grinders				
Tkh no. 894[13]	60	80	80	80
Track replacement machines				
Trk no. 870	20	20 (50)	20 (80)	20 (100)
Ballast ploughs				
Tsl nos. 880, 882, 884, 885 and 890 [13]	70	80	80	80
Tsl no. 883[13]	35	50	60	60
Tsl no. 888[13]	50	60	60	80
Tsl no. 889[13]	20	50	80	80
Tsl no. 91021	20	70	70	70
Ballast cleaning machines				
Tsp nos. 891 and 893	20	60	80	80
Tsp no. 892	50	80	80	80
Multi-purpose machines				
Ttm1 no. 91101	20[14]	50	70	70
Track tamping machines				
Ttk1[13] nos. 801–803, 821, 823, 831 and 91042	60	80	80	80
Multi-purpose machines				
Ttk1[13] nos. 818–820	25 (50)[15]	25 (50)[15]	25 (50)[15]	25 (50)[15]
Ttk1[13] nos. 822 and 824–829	50	50 (80)	50 (80)	50 (80)
Ttk1[13] no. 830	60	85 (90)	85 (90)	85 (90)
Ttk1[13] nos. 832 and 833	50	80	80	80
Ttk1 no. 834	50[16]	80	80	80
Ttk1 [13] no. 91041	60	60	60	60
Ttk1 no. 91042	60	70	70	70

[12]Same as the maximum permitted speed on the line section in question, as assessed by a railway technology specialist and a representative of the local maintenance contractor.

[13] Max. wheel diameter is 790 mm, which means that caution must be exercised in diamond crossings with slips.

[14] Max. axle load with auxiliary wagon is 160 kN (16 t).

[15] Max. permitted speed in turnouts is 15 km/h.

[16] Max. permitted speed on category A railway yard sidings is 20 km/h.

Series	Surface structure category			
	A	B_1	B_2	C_1, C_2 and D
Ttk1 no. 9910 9121916-8	–[18]	80	80	80
Ttk1 no. 9010 9122002-9	50	80	80	80
Ttk1 no. 9010 9122003-7	50	80	80	80
Ttk1 no. 9010 9422001-8	50	80	80	80
Turnout tamping machines				
Ttk2 nos. 841, 844 and 849[13]	60	80	80	80
Ttk2 no. 842[11]	35	60	60	80
Ttk2 nos. 850 and 856	20	60	80	90 (100)
Ttk2 nos. 851–855[11]	50	50 (80)	50 (80)	50 (80)
Ttk2 no. 857	20	60	80	80 (100)
Ttk2 no. 858	– [16]	60	75	90 (100)
Ttk2 no. 859	20[16]	60	75	90 (100)
Ttk2 no. 91051	15	35	50	70[17]
Ttk2 no. 9010 9421002-8	–[18]	80	80	80
Ttk2 no. 9010 9422845	50	80	80	80
Ttk2 no. 9010 9424101	50	80	80	80
Ttk2 no. 9926 0221002-1	80	80	80	80
UTtk no. 9926 0121006-3	–[18]	80	80	80
Ballast compacting machines				
Ttk3 nos. 862 and 863[11]	60	80	80	80
Tamping machines				
Ttk4 no. 91501	20	40	40	40
Ttk5 no. 9010 9121 001-3	–[18]	80 (100)	80 (100)	80 (100)
Ttk5 no. 9010 9422001-8	50	80	80	80
Catenary inspection and maintenance vehicles				
Tta nos. 1 and 2	30[16]	30[16]	50[16]	50[16]
Tta no. 3	30[16]	50[16]	70[16]	70[16]
Tte nos. 21–29	70	100	110	110
Tte nos. 91201 and 91202	20	60	80	80
TTe 9910 9131 205-8 and 9910 9131 206-6	40	100	100	100
Ttv nos. 6, 9, 12 and 15	50	70	70	90
Railway cranes				
Tnk4 nos. 982 and 983	15 (20)	15 (50)	15 (60)	15 (60)
Tnk4 no. 984	15 (50)	15 (60)	15 (60)	15 (60)
Tnk4, nos. 985–989	15 (60)	15 (60)	15 (60)	15 (60)
Tnk4 no. 990	15 (20)	15 (50)	15 (60)[19]	15 (60)[19]
Catenary installation vehicles				
Tnv-sr nos. 911002 and 911003	40 (40)	40 (60)	40 (80)	40 (100)

[17] Max. permitted speed in diamond crossings with slips is 5 km/h, due to the small wheel diameter (440 mm).

[18] Use of and speeds on category A line sections is on a case-by-case basis.

[19] Towing speed is 80 km/h when the counterweight is carried on the crane trailer.

MAXIMUM PERMITTED SPEEDS OF MUSEUM ROLLING STOCK

(Towing speed is given in brackets if it differs from the maximum permitted speed when the vehicles are moving on their own power.)

Series	Surface structure category			
	A[20]	B_1	B_2	C_1, C_2 and D
Dr12	20[21]	60[22]	90	120
Dr13	20[21]	100	110	120
Dv15	60	75 (80)	75 (80)	75 (80)
Dv16	60	85	85	85
Hr1	20[21]	80	100	110[23]
Hv1	60	80	80	80
Hv3	20[24]	70	70	70
Pr1	20[21]	80	80	80
Tk3	60	60	60	60
Tr1	20[21]	80	80	80
Tv1	60	60	60	60
Vr1	40[25]	40	40	40
Rau2	70	70	70	70
Dm7	70	95	95	95
Dm9	50	100	110	120

USE OF TRACTIVE STOCK ON TRACKS BELONGING TO SUPERSTRUCTURE CATEGORY A

The regulations are listed in the Jt rules of the Finnish Transport Infrastructure Agency (Junaliikenteen ja vaihtotyön turvallisuussäännöt).

[20] For secondary lines and railway yard sidings belonging to superstructure category A, see 'Use of tractive stock on tracks belonging to superstructure category A'.
[21] May only run on sidings.
[22] Max. permitted speed on line sections Orivesi–Haapamäki and Haapamäki–Jyväskylä is 80 km/h.
[23] Max. permitted speed without wagons is 100 km/h (alone or in multi-heading).
[24] Max. permitted speed in the deflecting section of K30 turnouts is 20 km/h.
[25] Max. permitted speed when running alone is 25 km/h.

Maximum permitted speeds in turnouts and standard diamond crossings

Table 1. Maximum permitted speeds in turnouts and standard diamond crossings.

	Superstructure category					
	A	**B_1**	**B_2**	**C_1**	**C_2**	**D**
Straight track						
Single turnouts, 60 E 1, short	70	100	110	180	200	200
Single turnouts, 60 E 1, long	—	100	110	180	200	220
Single turnouts, 54 E 1, long	70	100	110	140	140	140
Single turnouts, other	70	100	110	160	160	160
Double turnouts	70	100	110	120	120	120
Diamond crossings with slips	35	60[1]	60[1]	60[1]	60[1]	60[1]
Standard diamond crossings	35[2]	90[2]	90[2]	90[2]	90[2]	90[2]
Diverted track						
Short turnouts R = 165 m	20[1]	20[1]	20[1]	20[1]	20[1]	20[1]
Short turnouts	35	35	35	35	35	35
Short turnouts when axle load exceeds 225 kN	—	10	20	20	20	35
Long turnouts						
R = 500 m	—	—	—	60	60	60
R = 530 m	70	70	70	—	—	—
R = 900 m, when maximum axle load is 225 kN	—	80	80	80	80	80
R = 900 m, when axle load exceeds 225 kN	—	—	—	60	60	60
R = 2500 m	—	—	—	140	140	140
R = 3,000 m	—	—	—	—	—	160
Non-interlocked turnout						
Straight and diverted track	30[2]	30[2]	30[2]	30[2]	30[2]	30[2]

The superstructure categories are listed in the map service of the Network Statement.

[1] On a case-by-case basis 90 km/h.

[2] Indicated on speed boards

Use of the VIRVE network in train traffic

VIRVE is the primary network for voice communications between trains and traffic control. In addition to the VIRVE network, smart phones of commercial networks can also be used for voice communications between shunting foremen and traffic control, and between track work managers and traffic control. The RAPLI application can be used in this process to facilitate the log-in procedure.

1. Responsibilities of the Finnish Transport Infrastructure Agency

1.1 VIRVE network subscriptions

The Finnish Transport Infrastructure Agency is responsible for paying the subscription and main user charges of the VIRVE in-cab radio terminals used by train drivers. Train means any unit moving in the state-owned railway network in compliance with the train traffic rules.

In other respects, pricing of the railway voice communication services is in accordance with the terms of use and the price list of the RAILI service (in Finnish).

1.2 Safety-related voice communication functionalities

The Finnish Transport Infrastructure Agency is responsible for the rail safety-related functionalities of voice communications, such as the application facilitating the log-in procedure.

1.3 Radio network coverage

The Finnish Transport Infrastructure Agency ensures adequate VIRVE reception on trains on open line sections and in railway tunnels, but the agency is not responsible for radio reception in other indoor facilities.

1.4 Recording of phone calls

The Finnish Transport Infrastructure Agency is responsible for recording the phone calls of the traffic control.

Unless otherwise provided in the law, railway operators, private infrastructure managers and companies supplying traffic control services have the right to obtain recordings and identification data of railway voice communications in order to investigate incidents and accidents that have occurred during their operations, prevent future occurrence, as well as develop the safety communications. The right to obtain information on voice recordings only concerns recordings in which the operator or its staff is directly involved.

2. Responsibilities of safety certificate holders

2.1 In-cab radio terminals

The safety certificate holders must acquire the required in-cab radio terminals for their trains and they must ensure that the in-cab radio terminals are purchased, installed and taken into use in accordance with the relevant Traficom regulation (in Finnish) and the national requirements laid down in the Guidelines of the Finnish Transport Infrastructure Agency 36/2016 - VIRVE Network Requirements for Hand Portable and Mobile Terminals
LIVI/5777/06.04.01/2016.

Meeting of these requirements ensures that a voice connection between the drivers and the traffic control can be successfully established.

2.2 Other safety-related voice communications in commercial networks

The safety certificate holders must acquire all required radio terminals and subscriptions at their own cost, with the exception of the application facilitating the log-in procedure, which is the responsibility of the Finnish Transport Infrastructure Agency.

The Finnish Transport Infrastructure Agency recommends that train drivers also continue to use spare phones for voice communications and for logging into their duties.

2.3 Disruptions and unexpected disconnection of calls

Radio calls are susceptible to delays and disruptions caused by weather conditions, external radio interference, device and software failures, as well as changes in the network, phones and their accessories. The position of the radiophone in relation to the base station and its user as well as indoor facilities, buildings and structures absorbing radio signals are all factors that may reduce the signal strength. The call may be disconnected during a safety-critical work task, which may seriously impact work and safety because the connection is not automatically restored. It may only be possible to re-establish the connection after the interference has been eliminated. Continuous monitoring of the voice connection and the operations is important to ensure a high level of occupational safety and health.

Other communication devices must be used if the RAILI service is unavailable due to technical disturbance or poor signal strength. The traffic control, or the train drivers, shunting foremen and track work managers must be informed of any disruptions preventing or hindering the use of the network, and of the alternative contact information in accordance with the instructions on voice communications.

Railway tunnels in the state-owned railway network and restrictions due to bridges, tunnels and vibration

Table 1 lists the following by line section:

- railway tunnels in the state-owned railway network and speed restrictions caused by tunnels
- bridges with access restrictions on rolling stock on the basis of axle load and speed
- speed restrictions due to vibration

Bridges may have access restrictions because the original load-carrying capacity of the bridge is too low, the bridge is in poor condition or it is movable. The maximum speed on the bridges is indicated on speed-restriction boards. The axle loads listed in this appendix may not be exceeded and any excess load must be unloaded at the traffic operating point where it was detected.

The weight limits on bridges do not apply to 6-axle or 8-axle wagons built according to the Russian standard. These wagons may use the bridges with restrictions on the conditions laid down in the transport permit and they must be marked as exceptional transports.

The speed restrictions in tunnels apply to trains containing at least one wagon specified in the table.

Table 1. Railway tunnels and speed limits due to bridges, tunnels and vibration.

Track No.	Line section	Location/Name (tunnel length/EN 15528 category of the bridge and maximum permitted axle load)	Km–location	Speed limit
001	Helsinki–Karjaa	Espoo (tunnel, 99 m)	21+145–21+244	*All trains 50 km/h Reason: Until the end of tunnel repair work*
	Helsinki–Karjaa	Lillgård (tunnel, 187 m)	46+790–46+977	Single-deck coaches 160 km/h, double-deck coaches 120 km/h, Sm3 180 km/h. Reason: piston effect
	Helsinki–Karjaa	Riddarbacken (tunnel, 273 m)	47+770–48+043	Single-deck coaches 160 km/h, double-deck coaches 120 km/h, Sm3 180 km/h. Reason: piston effect
001	Karjaa–Salo	Bäljens (tunnel, 298 m)	88+924–89+218	Single-deck coaches 160 km/h, double-deck coaches 140 km/h, Sm3 200 km/h. Reason: piston effect

Track No.	Line section	Location/Name (tunnel length/EN 15528 category of the bridge and maximum permitted axle load)	Km–location	Speed limit
	Karjaa–Salo	Köpskog (tunnel, 43 m)	90+492–90+535	Single-deck coaches 160 km/h, double-deck coaches 140 km/h, Sm3 200 km/h. Reason: piston effect
	Karjaa–Salo	Åminne (tunnel, 101 m)	92+391–92+492	Single-deck coaches 160 km/h, double-deck coaches 140 km/h, Sm3 200 km/h. Reason: piston effect
	Karjaa–Salo	Högbacka (tunnel, 200 m)	94+365–94+565	Single-deck coaches 160 km/h, double-deck coaches 140 km/h, Sm3 200 km/h. Reason: piston effect
	Karjaa–Salo	Kaivosmäki (tunnel, 99 m)	113+961–114+060	Single-deck coaches 160 km/h, double-deck coaches 140 km/h, Sm3 200 km/h. Reason: piston effect
	Karjaa–Salo	Haukkamäki (tunnel, 436 m)	114+304–114+740	Single-deck coaches 160 km/h, double-deck coaches 140 km/h, Sm3 200 km/h. Reason: piston effect
	Karjaa–Salo	Harmaamäki (tunnel, 265 m)	115+150–115+415	Single-deck coaches 160 km/h, double-deck coaches 140 km/h, Sm3 200 km/h. Reason: piston effect
	Karjaa–Salo	Lemunmäki (tunnel, 775 m)	125+820–126+595	Single-deck coaches 160 km/h, double-deck coaches 160 km/h, Sm3 160 km/h. Reason: piston effect
	Karjaa–Salo	Märjänmäki (tunnel, 1,240 m)	126+940–128+180	Single-deck coaches 160 km/h, double-deck coaches 160 km/h, Sm3 160 km/h. Reason: piston effect
	Karjaa–Salo	Lavianmäki (tunnel, 582 m)	137+720–138+302	Single-deck coaches 160 km/h, double-deck coaches 160 km/h, Sm3 180 km/h. Reason: piston effect
	Karjaa–Salo	Tottola (tunnel, 531 m)	139+084–139+615	Single-deck coaches 160 km/h, double-deck coaches 120 km/h, Sm3 180 km/h. Reason: piston effect
001	Salo–Turku	Halikko (tunnel, 186 m)	150+207–150+393	Single-deck coaches 160 km/h, double-deck coaches 140 km/h, Sm3 200 km/h. Reason: piston effect
	Salo–Turku	Pepallonmäki (tunnel, 531 m)	152+420–152+951	Single-deck coaches 160 km/h, double-deck coaches 140 km/h, Sm3 200 km/h. Reason: piston effect

Track No.	Line section	Location/Name (tunnel length/EN 15528 category of the bridge and maximum permitted axle load)	Km–location	Speed limit
002	Kokemäki–Pori	Nakkila: speed restriction due to vibration	305+000 – 306+000	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 50 km/h
	Kokemäki–Pori	Ulvila: speed restriction due to vibration	315+000–317+000	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 50 km/h
	Kokemäki–Pori	Pori: speed restriction due to vibration	322+000 – 324+000	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 50 km/h
	Pori–Mäntyluoto	Pori: speed restriction due to vibration	334+000 –337+000	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 50 km/h
003	Helsinki–Riihimäki	Jokela: speed restriction due to vibration	47+950–49+950	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 40 km/h
004	Jyväskylä–Äänekoski	Kangasvuori (tunnel, 2,735 m)	380+028 –382+763	All trains: 50 km/h Reason: condition of the tunnel
005	Kouvola–Pieksämäki	Venekallio (tunnel, 180 m)	204+400 – 204+580	*No speed limits due to the tunnel.*
	Kouvola–Pieksämäki	Vuohijärvi (tunnel, 191 m)	222+400 –222+591	*No speed limits due to the tunnel.*
	Kouvola–Pieksämäki	Kulonpalonvuori (tunnel, 418 m)	232+075–232+493	*No speed limits due to the tunnel.*
005	Pieksämäki – Kontiomäki	Mustamäki (tunnel, 249 m)	416+960–417+211	*No speed limits due to the tunnel.*
	Pieksämäki – Kontiomäki	Mustavuori I (tunnel, 283 m)	417+791–418+075	*No speed limits due to the tunnel.*
	Pieksämäki – Kontiomäki	Mustavuori II (tunnel, 374 m)	418+341–418+718	*No speed limits due to the tunnel.*
	Pieksämäki – Kontiomäki	Pieni Neulamäki (tunnel, 1,003 m)	454+288 –455+291	*No speed limits due to the tunnel.*
	Pieksämäki – Kontiomäki	Tikkalansaari lift bridge (E5 350 kN)	472+817	Passenger trains 50 km/h Freight trains 50 km/h Reason: movable bridge

Track No.	Line section	Location/Name (tunnel length/EN 15528 category of the bridge and maximum permitted axle load)	Km–location	Speed limit
	Pieksämäki – Kontiomäki	Honkasalmi railway bridge (D4 225 kN)	527+080	Passenger trains 120 km/h Freight trains 120 km/h Reason: poor condition
006	Riihimäki–Kouvola	Hollola: speed restriction due to vibration	116+200–118+500	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 40 km/h
	Riihimäki–Kouvola	Lahti: speed restriction due to vibration	125+000–125+400	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 40 km/h
	Riihimäki–Kouvola	Koria: speed restriction due to vibration	182+900–186+400	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 30 km/h
006	Parikkala–Säkäniemi	Paksunniemi (tunnel, 26 m)	399+111–399+137	*No speed limits due to the tunnel.*
	Parikkala–Säkäniemi	Syrjäsalmi railway bridge (D4 225 kN)	445+395	Passenger trains 80 km/h Freight trains 60 km/h Reason: poor condition
006	Joensuu–Kontiomäki	Pielisjoki railway bridge (E4 250 kN)	625+146	Passenger trains 50 km/h Freight trains 50 km/h Reason: movable bridge
	Joensuu–Kontiomäki	Uimasalmi railway bridge (E4 250 kN)	673+486	Passenger trains 60 km/h Freight trains 60 km/h Reason: movable bridge
007	Kerava–Lahti	Järvenpää: speed restriction due to vibration	35+800–36+200	Freight trains weighing more than 2,000 tonnes: 40 km/h
008	Tuomioja–Oulu	Siikajoki railway bridge (E4 250 kN)	705+684	Passenger trains 100 km/h Freight trains 100 km/h Reason: poor condition
	Tuomioja–Oulu	Liminka: speed restriction due to vibration	726+900–729+200	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 50 km/h
	Tuomioja–Oulu	Kempele: speed restriction due to vibration	740+600 – 749+000	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 50 km/h
008	Oulu–Kemi	Simojoki railway bridge (D4 225 kN)	832+960	Passenger trains 90 km/h Freight trains 90 km/h Reason: poor condition

Track No.	Line section	Location/Name (tunnel length/EN 15528 category of the bridge and maximum permitted axle load)	Km–location	Speed limit
009	Tampere–Jyväskylä	Matomäki (tunnel, 262 m)	303+987–304+249	*No speed limits due to the tunnel.*
	Tampere–Jyväskylä	Lahdenvuori (tunnel, 4293 m)	308+214–312+507	All trains: 120 km/h Reason: condition of the tunnel
	Tampere–Jyväskylä	Sahinmäki (tunnel, 153 m)	316+064–316+217	*No speed limits due to the tunnel.*
	Tampere–Jyväskylä	Lautakkomäki (tunnel, 399 m)	321+171–321+570	*No speed limits due to the tunnel.*
	Tampere–Jyväskylä	Paavalinvuori (tunnel, 771 m)	328+364–329+135	*No speed limits due to the tunnel.*
	Tampere–Jyväskylä	Paasivuori (tunnel, 2,475 m)	330+107–332+581	All trains: 120 km/h Reason: condition of the tunnel
	Tampere–Jyväskylä	Keljonkangas I (tunnel, 1,093 m)	333+973–335+066	*No speed limits due to the tunnel.*
	Tampere–Jyväskylä	Keljonkangas II (tunnel, 224 m)	335+301–335+526	Single-deck coaches 140 km/h, double-deck coaches 140 km/h, Sm3 140 km/h. Reason: piston effect
014	Parikkala–Savonlinna	Kyrönsalmi railway bridge (D4 225 kN)	483+659	Passenger trains 20 km/h Freight trains 20 km/h Reason: movable bridge
	Parikkala–Savonlinna	Kyrönniemi (tunnel, 336 m)	483+892 –484+214	*No speed limits due to the tunnel.*
017	Siilinjärvi–Viinijärvi	Virraskoski railway bridge	533+833	Passenger trains 50 km/h Freight trains 50 km/h Reason: poor condition
023	Haapamäki –Jyväskylä	Möykynmäki (tunnel, 350 m)	365+969–366+319	All trains: 50 km/h Reason: condition of the tunnel
023	Jyväskylä–Pieksämäki	Pönttövuori (tunnel, 1,429 m)	394+476–395+905	*No speed limits due to the tunnel.*
	Jyväskylä–Pieksämäki	Heinlampi underpass (E4 250 kN)	448+690	Passenger trains 80 km/h Freight trains 80 km/h Reason: insufficient ballast depth
024	Varkaus–Viinijärvi	Pirtinvirta railway bridge (D4 225 kN)	425+570	Passenger trains 40 km/h* Freight trains 40 km/h* Reason: movable bridge * = After the bridge and the rail joints have been locked, the maximum speed is 60 km/h
	Varkaus–Viinijärvi	Railway bridge over the Taipale Canal (D4 225 kN)	426+855	Passenger trains 30 km/h* Freight trains 30 km/h* Reason: movable bridge * = After the bridge and the rail joints have been locked, the maximum speed is 60 km/h

Track No.	Line section	Location/Name (tunnel length/EN 15528 category of the bridge and maximum permitted axle load)	Km–location	Speed limit
123	Huopalahti – Havukoski	Malminkartano (tunnel, 230 m)	10+636–10+866	*No speed limits due to the tunnel.*
	Huopalahti – Havukoski	Kivistö (tunnel, 432 m)	18+122–18+554	*No speed limits due to the tunnel.*
	Huopalahti – Havukoski	Airport (tunnel, 8,260 m)	21+388–29+636	*No speed limits due to the tunnel.*
125	Kerava–Vuosaari	Savio (tunnel, 13,575 m)	32+659–46+234	*No speed limits due to the tunnel.*
	Kerava–Vuosaari	Labbacka (tunnel, 651 m)	48+728–49+379	*No speed limits due to the tunnel.*
131	Kerava–Sköldvik	Kerava: speed restriction due to vibration	30+700–31+650	All trains 40 km/h
	Kerava–Sköldvik	Nikkilä: speed restriction due to vibration	38+850–40+160	All trains 40 km/h
141	Hyvinkää–Karjaa	Ojakkala: speed restriction due to vibration	102+000-103+500	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 50 km/h
	Hyvinkää–Karjaa	Nummela: speed restriction due to vibration	108+500–109+500	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 50 km/h
	Hyvinkää–Karjaa	Lohja: speed restriction due to vibration	120+600-128+500	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 50 km/h
	Hyvinkää–Karjaa	Lohja: speed restriction due to vibration	130+500-132+000	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 50 km/h
142	Karjaa–Hanko	Pohja railway bridge, Läntinen salmi (E4 250 kN)	175+051	Passenger trains 50 km/h Freight trains 50 km/h Reason: swing bridge
221	Kouvola–Kotka	Kehä II (tunnel, 388 m)	194+646–195+029	*No speed limits due to the tunnel.*
	Kouvola–Kotka	Myllykoski: speed restriction due to vibration	200+700 –202+500	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 40 km/h

Track No.	Line section	Location/Name (tunnel length/EN 15528 category of the bridge and maximum permitted axle load)	Km–location	Speed limit
	Kouvola–Kotka	Keltakangas: speed restriction due to vibration	207+300–207+700	All trains 40 km/h
222	Juurikorpi–Hamina	Suurivuori (tunnel, 765 m)	236+028–236+793	*No speed limits due to the tunnel.*
246	Lappeenranta–Metsä-Saimaa	Voisalmensaari (tunnel, 198 m)	290+167–290+365	*No speed limits due to the tunnel.*
251	Lahti–Heinola	Jyränkö railway bridge (D4 225 kN)	166+604	Passenger trains 30 km/h Freight trains 30 km/h Reason: poor condition
321	Toijala–Turku	Toijala: speed restriction due to vibration	150+400–150+900	All trains 40 km/h
	Toijala–Turku	Loimaa: speed restriction due to vibration	208+000 –210+600	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 40 km/h
	Toijala–Turku	Turku: speed restriction due to vibration	271+900–273+700	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 40 km/h
349	Pori–Mäntyluoto	Tahkoluoto railway bridge (E4 250 kN)	343+792	Passenger trains 50 km/h Freight trains 50 km/h Reason: movable bridge
441	Seinäjoki–Kaskinen	Seinäjoki railway bridge (C4 200 kN)	419+367	Passenger trains 50 km/h Freight trains 50 km/h Cause: safeguarding the bridge's life cycle
	Seinäjoki–Kaskinen	Kyrönjoki railway bridge (C4 200 kN)	442+875	Passenger trains 50 km/h Freight trains 50 km/h Cause: safeguarding the bridge's life cycle
	Seinäjoki–Kaskinen	Nenättömänluoma railway bridge (C4 200 kN)	446+650	Passenger trains 60 km/h Freight trains 60 km/h Cause: safeguarding the bridge's life cycle
	Seinäjoki–Kaskinen	Kurikka: speed restriction due to vibration	450+500 – 452+000	All trains 40 km/h
	Seinäjoki–Kaskinen	Kainastonjoki railway bridge (C4 200 kN)	482+348	Passenger trains 60 km/h Freight trains 60 km/h Cause: safeguarding the bridge's life cycle

Track No.	Line section	Location/Name (tunnel length/EN 15528 category of the bridge and maximum permitted axle load)	Km–location	Speed limit
	Seinäjoki–Kaskinen	Teuvanjoki railway bridge (C4 200 kN)	502+165	Passenger trains 60 km/h Freight trains 60 km/h Cause: safeguarding the bridge's life cycle
	Seinäjoki–Kaskinen	Närpiönjoki railway bridge (C4 200 kN)	518+951	Passenger trains 60 km/h Freight trains 60 km/h Cause: safeguarding the bridge's life cycle
	Seinäjoki–Kaskinen	Kaskistensalmi railway bridge (C4 200 kN)	528+922	Passenger trains 60 km/h Freight trains 60 km/h Cause: safeguarding the bridge's life cycle
531	Oulu–Kontiomäki	Oulu: speed restriction due to vibration	762+800–763+800	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 45 km/h
	Oulu–Kontiomäki	Muhos: speed restriction due to vibration	786+000–790+300	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 50 km/h
	Oulu–Kontiomäki	Vaalansalmi railway bridge (D4 225 kN)	843+637	Passenger trains 80 km/h Freight trains 80 km/h Reason: poor condition
	Oulu–Kontiomäki	Kiehimänjoki railway bridge (D4 225 kN)	902+658	Passenger trains 50 km/h Freight trains 50 km/h Reason: poor condition
731	Joensuu–Viinijärvi	Joensuu: speed restriction due to vibration	631+100–631+700	Trains weighing more than 2,500 tonnes containing wagons built in accordance with OSJD/GOST standards: 40 km/h

Estimation of speed limits due to track condition in the timetable period 2023

The table below gives the best estimation of speed limits due to track condition in 2022.

The estimation is based on the existing condition of the track and the speed restrictions known at the time of the publication.

The situation may change between the moment of estimation and the year 2023.

Line section no.	Traffic operating point	Km start	Km end	Limit (Normal speed)		Name	Description	To end on (date)
001	Psl	0+374	0+500	20	(35)	HKI track 11 speed limit		31.12.2023
001	Kni	15+910	15+930	80	(120)	Track crossing in Kauniainen	The speed limit at the track crossing will be lifted when the Espoo City Rail Link is built.	31.12.2027
001	Pik	182+623	183+249	130	(160)	Piikkiö	permanent 130	Not known
001	Kut	197+130	202+732	50	(60)	Turku speed limit during construction	KUTU project	31.12.2024
001	Tku	199+225	199+285	30	(60)	Logomo bridge		31.12.2023
001	Klh	25+390	25+420	80	(120)	Mankki level crossing and platform	Old platform, safety equipment operating instructions	Not known
001	Iko	74+048	75+464	120	(160)	Inkoo–Karjaa soft ground	Soft ground, safety equipment operating instructions	Not known
001	Ila	3+820	4+0	60	(80)	Veturitie bridge construction site		31.1.23
003	Mat	160+375	163+700	170	(200)	Mattila–Lempäälä geometry	Two curves with permit value bevel angle. Safety equipment operating instructions	Not known
003	Ylö	195+800	196+300	120	(200)	Lielahti depression	Depression. The speed limit will be lifted after a monitoring period (to be repaired in 2022).	31.10.2023
003	Hna	21+133	21+670	120	(200)	Hanala turnout II	Connected with the temporary speed limit EI76579	31.10.2024
003	Pur	39+968	40+190	100	(200)	Purola		Not known
003	Pur	42+800	44+210	160	(200)	Nuppulinna	Only applies to trains with double-deck coaches, safety equipment operating instructions	Not known
003	Plp	52+000	53+300	180	(200)	Palopuro	Only applies to trains with double-deck coaches, safety equipment operating instructions For other conventional rolling stock, maximum speed is 200 km/h	Not known
003	Tu	96+142	99+000	160	(180)	Turenki–Harviala	160 for double-deck coaches, 180 for other conventional rolling stock	Not known
005	Hj	192+300	193+569	10	(50)	Track buckling in Kou	Track buckling	Not known
005	Skv	590+800	591+0	50	(80)	Geometry at Sukeva bridge	-	Not known
005	Kon	915+560	917+128	50	(70)	Turnouts in Kontiomäki triangle track	Condition of turnouts V961, V963 and V971. Due to repeated fractures of guardrail washers at turnouts V972 and V963 and the delayed renovation of track 934, max speed 50 km/h until the problem is solved.	Not known
005	Mur	613+270	613+420	100	(140)	Turnout in Murtomäki	Requires extensive measures	31.5.2023
006	Kra	182+000	182+050	140	(170)	Koria overpass	Safety equipment operating instructions	Not known
006	Kv	191+860	191+960	30	(50)	Kv Diamond crossing	RR081	Not known
006	Rah	244+0	249+0	160	(200)	Hot box detector IV in Rauha	Both tracks in direction Luumäki–Taavetti	Not known
006	Lr	276+880	276+950	50	(90)	Lappeenranta turnout	-	Not known
006	Imt	327+225	327+275	10	(80)	Imatra diamond cross	-	Not known
006	Hsl	602+200	602+400	50	(140)	Hammaslahti	Safety equipment operating instructions	Not known
006	Vsl	708+200	708+300	30	(90)	Vuonisjärventie level c	-	Not known
006	Vkt	868+550	868+600	30	(80)	Vuokatti turnout V017	Speed limit Sn30 at Vkt V017. Reason V016 lost key.	Not known
008	Kml	740+628	740+651	140	(200)	Kempele overpass		31.12.2025

Line section no.	Traffic operating point	Km start	Km end	Limit (Normal speed)		Name	Description	To end on (date)
008	Mis	1020+0	1050+0	80	(100)	Misi–Hanhikoski level crossings	Eight level crossings, will probably become permanent	Not known
008	Mkk	425+0	425+200	80	(120)	Munakka railway bridge	-	Not known
008	Lpa	440+691	441+057	140	(160)	Speed limit in Lapua	Safety equipment operating instructions	Not known
008	Kha	457+836	458+036	80	(120)	Silakkaluoma railway bridge	Safety equipment operating instructions	Not known
008	Hm	472+705	475+163	160	(190)	Speed limit in Härmä	Safety equipment operating instructions	Not known
008	Vti	480+045	482+815	160	(200)	Voltti–Köykkäri speed limit	Safety equipment operating instructions	Not known
008	Jpa	496+125	497+427	160	(200)	Speed limit in Jepua	Safety equipment operating instructions	Not known
008	Vti	684+968	685+017	160	(200)	Vihanti overpass	Size of the bridge span leads to a speed limit.	Not known
008	Rki	705+403	705+447	140	(190)	Ruukki overpass	Speed limit for tilting trains	31.12.2025
008	Oll	748+990	749+62	120	(140)	Turnout in Oulu	Turnout V330 south	Not known
008	Hd	774+800	775+000	100	(140)	Speed limit in Haukipudas	Safety equipment operating instructions	Not known
008	Il	789+350	789+600	50	(140)	Iijoki railway bridge (carwash)	Track condition	31.10.2023
008	Il	800+100	800+300	80	(140)	Keihäskangas level crossing	A speed limit has been applied at Keihäskangas level crossing due to increased car traffic/poor view.	31.12.2027
008	Ii	804+230	806+540	80	(140)	Ii–Myllykangas	Safety equipment operating instructions	Not known
008	Sim	832+353	832+988	90	(140)	Simojoki railway bridge	A tight curve at the end of the bridge	Not known
008	Kem	853+560	853+820	100	(140)	Speed limit in Kemi	Level crossing? The speed limit only applies to southbound traffic, safety equipment operating instructions	Not known
008	Lla	870+900	871+100	50	(105)	Laurila–Tornio Kortelainen level crossing	Temporary speed limit, poor view at level crossing	31.12.2025
008	Kvu	923+740	924+113	80	(130)	Speed limit in Koivu	Safety equipment operating instructions	Not known
017	Lui	561+400	561+600	50	(100)	Frost damage in Luiko	-	Not known
023	Pvi	346+800	347+0	50	(80)	PVI-VN rock cutting	Condition of rock cutting. Intended to be the permanent speed limit.	Not known
023	Rhl	378+953	383+590	100	(110)	Condition of Rauhalahti track	Track condition, no estimate on duration.	Not known
023	Vn	344+378	376+79	80	(100)	Track condition in Vesanka		30.11.23
066	Klo	294+400	294+600	80	(100)	Pressure berm in Kolho	After recorded by Emma track inspection vehicle	Not known
066	Mko	297+310	297+950	80	(100)	Louheikko level crossing	Expected to become permanent	Not known
066	Äht	361+270	362+270	80	(100)	Tuuri–Ähtäri level crossing	Poor visibility at the level crossing	Not known
314	Msä	156+30	156+167	20	(50)	Metsäkansa level crossing light facility	Due to the sufficient alarm of the level crossing light facility at the Metsäkansa level crossing, a speed limit of 20km/h is required for from the Metsäkansa turnout to the Metsäkansa level crossing. The speed limit only applies to trains travelling towards Valkeakoski	Not known
321	Mri	271+950	272+0	50	(90)	Turku–Maaria track condition	-	Not known
321	Mri	273+200	274+16	40	(100)	KUTU work site TKU	KUTU project	31.12.2024
332	Rai	200+7	206+410	50	(60)	TKU KUTU, whole TKU I	KUTU project	31.12.2024
441	Luo	425+0	529+930	50	(60)	Condition of the Kaski	-	Not known
441	Ksk	528+995	529+970	30	(60)	Kaskinen level crossing	To improve safety at the level crossing In effect until further notice.	Not known
513	Tor	884+304	886+112	70	(100)	Kiviranta level crossing	Introduced because of the level-crossing facility.	Not known
513	Tor	885+270	885+637	70	(100)	Tornio level crossing	Speed limit due to the level-crossing facility.	Not known

Line section no.	Traffic operating point	Km start	Km end	Limit (Normal speed)		Name	Description	To end on (date)
531	Oll	756+474	756+874	50	(80)	Oulu elastic turnout	Condition of the turnout (elastic) (start date 24 October 2018). For the time being. Decision by Finnish Transport Infrastructure Agency.	Not known
531	Pto	902+500	902+700	50	(120)	Kiehimänjoki railway bridge	The existing bridge will be reinforced in 2022.	31.12.2026
552	Psk	732+381	733+213	20	(50)	Speed limit in Pesiökylä	-	Not known

APPENDIX ON TRACK WORK TO THE NETWORK STATEMENT

Location	Year of implementation	Line section	Account line section number	Required infrastructure capacity	Timing of infrastructure capacity requirement	Speed limit	Priority: 1: Implementation decision made 2: Implementation decision will be made later	Annual plan number
Helsinki: Construction of the Kaisantunneli tunnel	2023	Helsinki–(Pasila)	1101	Service breaks and changes in track use. Changes to the length of tracks and platforms: 11/20–10/23 tracks 001–003. 8/22–6/23 tracks 010–013. Tracks R12–R19 will be shortened in phases 2 metres at a time, in which case max. 2 x Sm5 train units per track. The project will be completed in 02/2024.	1 January–31 October. service interruptions on weeknights and at weekends.	-	1	VS563
Helsinki: maintenance work	2023	Helsinki–(Pasila)	1101	The work consists of several work stages, which are planned in cooperation with individual actors.	-	-	1	-
Helsinki: replacement of turnouts V0019, V0035, V0037, V0082, V0083, V241	2023	Helsinki–(Pasila)	1101	-	Service breaks on weeknights and at weekends.	-	1	-
Helsinki–Pasila: regular catenary system maintenance	2023	Helsinki–(Pasila)	1101	Full service interruption.	-	-	1	-
Helsinki–Riihimäki, phase 1: Tikkurila track and turnout change	2023	(Pasila)–(Riihimäki)	1102	Superstructure work at the southern end and catenary system alterations. Two track reservations during the day and more extensive reservations at night according to a separate work phasing.	1 April –31 October	80	1	VS1993
Helsinki–Riihimäki, phase 2: Kytömaa–Ainola	2023	(Pasila)–(Riihimäki)	1102	The most critical subgrade reinforcement work of the new easternmost track, pile driving and pile slabs, construction of the bridge for the easternmost tracks, prestressing and stabilisation structures as well as the work carried out by the City of Järvenpää. The easternmost track will be closed to traffic between Kerava and Järvenpää.	1 June–31 December. The new eastern-most track will be opened to traffic in December 2024.	80	1	VS1514
Helsinki–Riihimäki: catenary maintenance	2023	(Pasila)–(Riihimäki)	1102	The traffic impact area will be specified two months prior to implementation. When required, the service break can take place more often than once a month so that the necessary maintenance can be carried out.	Track possession each month on the night between the first non-holiday Monday and Tuesday in Riihimäki at 0.40–3.55 and in Kytömaa at 0.30–4.30. Helsinki–Kerava will be determined on a case-by-case basis.	-	1	VS446
Pasila–Tikkurila tamping	2023	(Pasila)–(Riihimäki)	1102	-	5 x 10 h track possessions. Coordination with work in Tikkurila.	140	1	VS2358/VS2096
Helsinki–Tampere renovation, start-up phase	2023	(Pasila)–(Riihimäki)	1102	Will be specified as planning proceeds	-	-	2	VS1520
Riihimäki: replacement of turnout V0404	2023	(Pasila)–(Riihimäki)	1102	3X52h track possessions or 6X30	1 April–31 December	-	2	-
Renewal of Hausjärvi power supply station	2023	(Riihimäki) - (Lahti)	1103	To be specified.	June 2023 - November 2024	June 2023 - November 2025	1	-
Riihimäki–Lahti: track and turnout tamping, turnout service and maintenance of the catenary system and safety installations	2023	(Riihimäki) - (Lahti)	1103	Full service interruptions twice a year	7 x 6 h full service interruptions twice a year.	-	1	V2454
Helsinki-Kirkkonummi: maintenance work	2023	(Pasila)–Kirkkonummi	1104	In accordance with a separate plan.	-	-	1	-
Kirkkonummentie overpass	2023	(Pasila)–Kirkkonummi	1104	Full service interruptions and single-track operation	24 h + 36 h full service interruption in September Full service interruption 01:00–04:50 on weekdays. Single-track operations Mon–Thu 22:15–05:40. Single track operations Fri - Sat 22:15–09:00. Single track operations Sat - Sun 22:15–09:40. Single track operations Sun - Mon 23:15–05:40.	80	1	VS1254
Leppävaara–Espoo: Espoo City Line (ESKA)	2023	(Pasila)–Kirkkonummi	1104	Traffic arrangements on line section (Leppävaara)–Kauklahti in February–April: five full service breaks, each lasting 24 hours.	Sun 5 March 04.00 – Mon 6 March approx. 04.00 Sun 12 March 04.00 – Mon 13 March 04.00 Sun 19 March 04.00 – Mon 20 March 04.00 Sun 2 April 04.00 – Mon 3 April 4.00	50 and 80 km/h	1	VS1849
Pasila–Huopalahti change of hangers	2023	(Pasila)–Kirkkonummi	1104	Plans will be specified in early 2023	-	-	1	VS2095
Veturitie bridge	2023	(Pasila)–Kirkkonummi	1104	Impacts on the use of maintenance tracks and commuter rail traffic in Helsinki–Ilmala railway yard. The Veturitie bridge will be fully completed in October 2023.	until 30 April	-	1	VS640
Kerava–Lahti: track and turnout tamping, turnout service and maintenance of the catenary system and safety devices.	2023	(Kytömaa)-(Hakosilta)	1107	7 x 6 h full service interruptions twice a year.			1	VS2455
Kerava–Vuosaari: maintenance work in Savio tunnel	2023	Vuosaari–(Kerava)	1108	-	Standard track possession on Mondays 09:45–17:50.	-	1	VS1253
Ilmala: Repair of Posti overbridge	2023	Ilmala railway yard	1109	-	-	-	1	-
Ilmala feeder station	2023	Ilmala railway yard	1109	-	-	-	1	-
Kirkkonummi-Turku: maintenance work	2023	(Kirkkonummi)–(Turku)	1201	8 h track possessions on weeknights.	-	-	1	-
Kupittaa–Turku rail project (KUTU): Refurbishment of the River Aurajoki railway bridge and construction of a double track	2023	(Kirkkonummi)–(Turku)	1201	Kupittaa–Turku closed to train traffic. All trains from Helsinki will terminate at Kupittaa.	15 August 2022–15 December 2024	-	1	VS1711
Replacement of the Pitkäjoki railway bridge deck	2023	(Kirkkonummi)–(Turku)	1201	Will be specified as planning proceeds	Will be specified as planning proceeds	-	1	-
Kupittaa–Turku rail project (KUTU): Construction of the Heikkilä railway yard	2023	(Turku)–Uusikaupunki	1202	Several service breaks on one or more tracks, to be specified later when the track model has been approved	1 June 2022–30 December 2024	-	1	-
Turku-Toijala: maintenance work	2023	(Turku)–(Toijala)	1203	8 h track possessions at night.	3 July–17 September 2023	-	1	VS2441
Hyvinkää–Hanko electrification	2023	(Hyvinkää)–(Karjaa)–Hanko	1204	Service breaks during the night (will also affect passenger services).	1 January–31 December. Service breaks Hyvinkää–Karjaa: 21.30–4.45 and Karjaa–Hanko: 19.00–6.00.	-	1	VS1275
New underpass at Skogby train stop	2023	Karjaa–Hanko	1205	Will be specified as planning proceeds	Will be specified as planning proceeds	-	1	
Renewal of the Westerbynjoki railway bridge	2023	Karjaa–Hanko	1205	Will be specified as planning proceeds	Will be specified as planning proceeds	-	1	
Pohja railway bridge: western and eastern strait	2023	Karjaa–Hanko	1205	Will be specified as planning proceeds	Will be specified as planning proceeds	-		
Kupittaa–Turku rail project (KUTU): Construction of track 707, dismantling of temporary car loading platform on the Logomo side.	2023	Turku railway yard	1207	Traffic from the Helsinki direction closed. Traffic from the direction of Toijala to tracks 701-703 and 007, 011, 013 and 017. New platform 1-2 and car loading in use on the station side, temporary platform in use on the Logomo side.	12 June 2023–18 June 2023	-	1	-
Kupittaa–Turku rail project (KUTU): Construction of tracks 708, 709 and 710, dismantling of temporary platform on the Logomo side.	2023	Turku railway yard	1207	Traffic from the Helsinki direction closed. Traffic from the direction of Toijala to tracks 701-703 and 007, 011 and 013. New platform 1-2 and car loading in use on the station side.	19 June 2023–16 July 2023	-	1	-
Kupittaa–Turku rail project (KUTU): dismantling of tracks 004, 005, 006 and platform 4–5, building new ones, renewal of Koulukatu underpass on two tracks (098 and V112-V101).	2023	Turku railway yard	1207	Traffic from the Helsinki direction closed. Traffic from the direction of Toijala to tracks 007, 011–017. Temporary car loading and platform arrangements in place on the Logomo side.	15 August 2022–14 May 2023	-	1	-
Kupittaa–Turku rail project (KUTU): Turku station will be completed to its final form; dismantling of tracks 007, 011–013 and construction of tracks 704 and 705 and platforms 4, 5–6 and maintenance facilities. Building the second block of Koulukatu underpass	2023	Turku railway yard	1207	Traffic from the Helsinki direction closed. Traffic from the direction of Toijala to tracks 701-703 and 707-710. New platform 1-2 and car loading in use on the station side.	17 July 2023–9 June 2024	-	1	-
Kupittaa–Turku rail project (KUTU): Construction of the section by Turku station	2023	Turku railway yard	1207	More extensive service breaks and voltage cut-offs, each lasting approx. four hours.	01 March 2022–9 June 2024	50	1	VS1788
Kupittaa–Turku rail project (KUTU): Construction of new tracks 701-703 and platform 1-2 will continue - preparation for commissioning, construction of SR foundations at track 012.	2023	Turku railway yard	1207	Traffic from the Helsinki direction closed. Traffic from the direction of Toijala to tracks 007, 011, 013-017. Temporary car loading and platform arrangements in place on the Logomo side.	15 May 2023–11 June 2023	-	1	-
Riihimäki-Tampere: maintenance work	2023	(Riihimäki)–(Tampere)	1301	Full service interruption 4x a year	Standard track possessions four times a year between Monday–Friday 10:00–14:00, according to a separate plan.	-	1	VS2422
Riihimäki-Tampere security device software update Drop 12	2023	(Riihimäki)–(Tampere)	1301	Full service interruption Sammalisto-Kuurila Full service interruptions 13 h + 13 h and single track operation for 22 h in between	14 August 2023 at 18:00 - 16 August 2023 at 18:00	-	1	V2423
Repair of water insulation for the Tiilitehdas underpass	2023	(Riihimäki)–(Tampere)	1301	Full service interruptions 13 h + 13 h and single track operation for 22 h in between	14 August 2023 at 18:00 - 16 August 2023 at 18:00	120 2 weeks after work	1	VS747
Arometsä feeder station	2023	(Riihimäki)–(Tampere)	1301	In accordance with a separate plan.	June 2023 - November 2023	-	2	-
Alterations to catenary system in Parola	2023	(Riihimäki)–(Tampere)	1301	Weeks 36-28 single track service Parola-Leteensuo, in August total service interruptions with Tiilitehdas.	26 June–16 August.			

Tampere-Seinäjoki Safety Equipment Renewal DROP 1	2023	(Tampere)–(Seinäjoki)	1302	Full service interruption during Midsummer and in October Lielahti-Seinäjoki	24 June 2023; 5:30-19:05 (13.5 hours) 16 October 2023 approx. 21:30 – 18 October 2023 at 9:00	-	1	VS1044
Tampere–Seinäjoki standard track possession: catenary maintenance	2023	(Tampere)–(Seinäjoki)	1302	-	3 x 2 h or 1 x 4 h, nine work shifts in spring and autumn.	-	1	VS2442
Pohjois-Louko: V0874 replacement.	2023	(Tampere)–(Seinäjoki)	1302	Interruption 24 h, speed limit 50 km/h to adjacent tracks (both tracks closed 1 h at both ends of the track possession)	23 September-24 September 2023	80 2 weeks after work	1	VS2335
Jalasjärvi: replacement of turnouts V0762 and V0764	2023	(Tampere)–(Seinäjoki)	1302	Interruption 40 h	9 October - 11 October 2023	80 2 weeks after work	1	-
Kuivasjärvi: replacement of turnouts V0561 and V0563	2023	(Tampere)–(Seinäjoki)	1302	Interruption 40 h	2 October - 4 October 2023	80 2 weeks after work	1	-
Kuivasjärvi: replacement of turnouts V0562 and V0564	2023	(Tampere)–(Seinäjoki)	1302	Interruption 40 h	9 October - 11 October 2023	80 2 weeks after work	1	-
Parkano: replacement of turnouts V0461 and V0463	2023	(Tampere)–(Seinäjoki)	1302	Interruption 36 h	16 October - 18 October 2023	80 2 weeks after work	1	-
Peräseinäjoki: replacement of turnouts V0811 and V0812	2023	(Tampere)–(Seinäjoki)	1302	Interruption 40 h	2 October - 4 October 2023	80 2 weeks after work	1	-
Pohjois-Louko: V0874 replacement.	2023	(Tampere)–(Seinäjoki)	1302	Interruption 24 h, speed limit 50 km/h to adjacent tracks (both tracks closed 1 h at both ends of the track possession)	30 September -1 October 2023	80 2 weeks after work	1	VS2335
Improvements to Rantoo level crossing 0158+0909	2023	(Toijala)-Valkeakoski	1303	Minor traffic impacts	-	-	1	-
New underpass tunnel and new travel centre for Seinäjoki station	2023	Seinäjoki railway yard	1308	Changes in track access and service breaks. Two platform tracks in use, four platform tracks closed within the specified 6 hour period	2 October - 3 October; 21:00-15:00 (18h) 9 October - 10 October; 21:00-15:00 (18h) 16 October -17 October; 21:00-15:00 (18h)	-	1	VS1959
Seinäjoki raw timber terminal	2023	Seinäjoki railway yard	1308	Bridge and superstructure work Sk-Alv, full service interruptions	8 May 2023–10 May 2023; 10:00–14:00 (52 hours) 6 June 2023-7 June 2023; 14:00-14:00 (24 hours) 2 October 2023-3 October 2023; 18:40-14:30 (20 h) 9 October 2023-10 October 2023; 18:40-14:30(20h)	50	1	VS2312
Seinäjoki–Kokkola: track tamping	2023	(Seinäjoki)–(Kokkola):	1309	Full service interruption between Rajaperkiö and Kokkola	17 April 2023-27 April 2023 2 May 2023-4 May 2023, 29 May 2023–15 June 2023; 10:30–16:45 (23x7h);	-	1	VS2324
Kokkola: renewing the superstructure for tracks 504, 505	2023	Kokkola	1310	Will be specified as planning proceeds	Will be specified as planning proceeds	Will be specified as planning proceeds	1	-
Äetsä: replacement of turnouts V001 and V002.	2023	(Lielahti)–Kokemäki	1401	Interruption 40 h	15 September-17 September 2023	2 weeks 80	1	VS2076
Lielahti-Kokemäki: maintenance work	2023	(Lielahti)–Kokemäki	1401	2 x 3 h or 5 h track possessions during the maintenance weeks in spring at night and in autumn.	-	-	1	VS2459
Replacement of Siuro V001 and Suoniemi V002 turnouts	2023	(Lielahti)–Kokemäki	1401	Interruption 40 h	8 September - 10 September 2023	2 weeks 80	1	-
Replacemet of turnout Vammala turnout V003 and Heinoo turnout V001	2023	(Lielahti)–Kokemäki	1401	Interruption 30 h	1 September-3 September 2023	2 weeks 80	1	VS2076
Tampere–Pori: Vinkkilä overpass	2023	(Lielahti)–Kokemäki	1401	Between Vammala and Äetsä. Scaffolding work August/September approx. eight times Sat/Sun 22.00–8.00 Coordination with turnout replacements	1 August–30 September.	80	2	VS2292
Repair of Vuohijoki railway bridge	2023	(Tampere)–Orivesi–(Jyväskylä)	1405	Single track operation and full interruption	Southern track closed 17 April - 21 April 21.30-6.40 Northern track closed 24 April - 28 April 21.30 - 6.30	-	1	
Orivesi–Jyväskylä: standard track possession for catenary maintenance	2023	(Tampere)–Orivesi–(Jyväskylä)	1405	3 x 2 h or 1 x 4 h, nine work shifts in spring and autumn.	-	-	1	-
Improvement of Tampere–Jyväskylä rail line, phase 1: Safety installations and catenary work at the new turnaround location in Orivesi. Extending the effective length of the Torkkeli traffic operating point by approx. 50 m. Jämsä traffic operating point, replacement of turnouts V004, V006 and V008. Replacement of Jämsänkoski traffic operating point turnouts and superstructure (V052, V054, R011, R012, R042 and R051). Construction of third track at the Muurame traffic operating point. Rock cutting repair kmv 279+780 – 279+820	2023	(Tampere)–Orivesi–(Jyväskylä)	1405	Track to Jsk closed to traffic for one week.	Full service interruption during Midsummer from 23 June 2023 at 9.00 to 25 June 2023 at 9.00. Track possessions durings Sunday traffic at the operating point approx. 2.00-8.10	3 x 50 and 6 x 140 (in accordance with a separate plan)	1	VS1691/VS2264/VS2420/VS2318/VS2317
Repair of the Vilkkilä railway bridge	2023	(Tampere)–Orivesi–(Jyväskylä)	1405	Full service interruption.	48h 23 June - 25 June 09:00- 09:00	120 2 weeks after work	1	
Removal of Koivusalaontie level crossing 0411+0813	2023	(Jyväskylä)–(Pieksämäki)	1406	Minor traffic impacts	-	-	1	-
Rauma: replacement of turnouts V338, V340, V333, V350, V359, V337, V339, V341 and removal of turnout V354	2023	Rauma railway yard	1407	Turnout-specific interruptions V338, V359, V350 18 h/ turnout, turnouts V337, V339, V341 will be replaced during one interruption 38 h, turnout V333 30 h	15 August - 3 September 3023	-	2	VS2071
Haapamäki-Seinäjoki removal of level crossings at Hietaranta, Järvinen and improvements at Kuusela, Kuorasjärvi	2023	Haapamäki-Seinäjoki	1501	Minor traffic impacts	-	-	1	-
Haapamäki-Jyväskylä drilling of drum R-5099 306+335	2023	(Haapamäki)–(Jyväskylä)	1503	-	-	-	1	-
Equipping the Mansikka-ahontie level crossing with a boom barrier system 0416+0325	2023	(Jyväskylä)-Äänekoski	1504	Minor traffic impacts	-	-	1	-
Equipping the Valmet level crossing with a boom barrier system 0418+0080	2023	(Jyväskylä)-Äänekoski	1504	Minor traffic impacts	-	-	1	-
Replacement of drum R-4457 (0451+0010)	2023	(Seinäjoki–Vaasa)	1505	Will be specified as planning proceeds	Will be specified as planning proceeds	Will be specified as planning proceeds	1	-
Lahti-Kouvola: maintenance work	2023	(Lahti)–(Kouvola)	1601	7 x 6 h full service breaks twice a year in spring and autumn.	Week 21 in spring at 00-05	-	1	VS2367
Kouvola-Kotka/Hamina: maintenance work	2023	(Kouvola)–(Kotka)/(Hamina)	1602	Kouvola–Kotka: 7 x 5 h full service breaks twice a year in spring and autumn. Juurikorpi–Hamina: 7 x 5 h full service breaks twice a year in spring and autumn.	KOKOHA's day-time interruptions	-	1	-
Kouvola–Kotka–Hamina railway project (KOKOHA)	2023	(Kouvola)–Juurikorpi–(Kotka)/(Hamina)	1602	Weeks 14–16: service breaks Mon–Fri approx. 9.40–19.20 Weeks 22–24: 12h (Sat/Sun) service break Week 29 Kymi railway yard, Kymi–Hovinsaari, Hovinsaari interface: 30h (Kouvola–Hamina open to traffic) Week 31 Juurikorpi–Kymi/Hamina: 30h Juurikorpi–Kymi/Hamina, followed by 10h Juurikorpi–Hamina. Please note: Inkeroinen–Kouvola open to traffic. No rail access to port of Kotka for 30h, no rail access to Hamina for 40h. Week 32 sidings in Inkeroinen: 12h sidings (will affect work at Inkeroinen railway yard but not line services) Week 33 Inkeroinen railway yard: Closed to traffic for 30hours. Week 35 the place for changing tracks at Pitkäkallio (Ojamaa–Inkeroinen in brackets): Closed to traffic for 30 hours (Shunting at Inkeroinen can continue) Week 38 Juurikorpi–Kymi/Hamina: before main service break sidings at Kymi 20h, Juurikorpi–Kymi/Hamina 30h, followed by Juurikorpi–Hamina 10h. Please note: Line section Inkeroinen–Kouvola will remain open to traffic, tests will start on sidings in Kymi. No rail access to ports for 30h, after which Kotka will again be accessible and Hamina will be accessible 10 hours later. Week 41 Inkeroinen railway yard and Inkeroinen–Juurikorpi: No rail access for 30 hours (no shunting at Inkeroinen) Week 42 the place for changing tracks at Pitkäkallio (Ojamaa–Pitkäkallio): No rail access for 30	1 April–30 November.	-	1	VS2427
Removal of Skinnarby level crossing 0192+0675	2023	(Lahti)–Loviisa	1603	Minor traffic impacts	-	-	1	-
Kouvola-Pieksämäki: maintenance work	2023	(Kouvola)–(Pieksämäki)	1605	7 x 5 h full service breaks twice a year in spring and autumn.	Week 23 in spring at 00-05	-	1	VS2398
Repair of Tenholankatu underpass	2023	(Kouvola)–(Pieksämäki)	1605	Full interruption 23 h	2 September from 14.00 to 9 September at 13.00	-	1	VS2415
Kouvola–Luumäki: maintenance work	2023	(Kouvola)–Luumäki	1701	Standard track possession on two lines at a time 22.00–01.00 and 03.00–06.00. Service breaks on both tracks 01.00–03.00.	-	-	1	VS2391/VS2392
Kouvola turnout replacements V732, V733, V734, V735/736, V737	2023	Kouvola	1701	19 September – 29 September.	10-day interruption		2	
Luumäki-Vainikkala: maintenance work	2023	(Luumäki)–(Vainikkala)	1702	Standard 5h track possessions in the nights between Sun and Mon and between Mon and Tue.	In accordance with a separate plan.	-	1	-
LUIMA (Luumäki–Imatra railway project)	2023	(Luumäki)–(Imatra)	1703	Full service interruptions	Luumäki-Lappeenranta: Weeks 17-21, 23-29, 32-33 and 35 h 24h (Sat-Sun 14-14) Week 22 48h Weeks 20-22, 24, 26-27 4x9h (Mon-Thu 8-17) Week 25 3x9h (Tues-Thu 8-17) Week 29 5 hrs (Sun-Mon) Weeks 30-31 8+5 h (Sat-Sun, Sun-Mon)	In accordance with a separate plan.	1	VS2401,VS2402, VS2403, VS2405
Luumäki–Imatra: track and turnout tamping, turnout service and maintenance of the catenary system and signalling equipment	2023	(Luumäki)–(Imatra)	1703	Coordination with LUIMA	-	-	1	VS2390

LUIMA (Luumäki–Imatra railway project)	2023	(Luumäki)–(Imatra)	1703	The construction of a control point network approx kmv 301 -327, is estimated to take about 1-2 months in the terrain from the start of the work. The method and timing of the work will be specified in early 2023.	1 April – 31 August 2023	-	1	-
LUIMA (Luumäki–Imatra railway project)	2023	(Luumäki)–(Imatra)	1703	LUIMA, Joutseno and Lauritsala lighting contract. May at times affect shunting work at Joutseno and Lauritsala railway yards. Contract to be completed 30 April 2023	-	-	1	-
Renewal of the Hiitolanjoki railway bridge	2023	Imatra–Parikkala	1703	-	-	-	2	
Imatra-Joensuu: maintenance work	2023	(Parikkala)–(Joensuu)	1705	2 x 3 h or 5 h track possessions at night during the maintenance weeks in spring and in autumn. Coordinated with the replacement of droppers.	-	-	1	VS2389
Renewal of the Syrjäsalmi railway bridge	2023	(Parikkala)–(Joensuu)	1705	-	-	30	1	VS567
Joensuu-Uimaharju: maintenance work	2023	(Joensuu)–Uimaharju	1707	2–3 h track possessions during 2–3 weeknights.	-	-	1	VS2371
Uimaharju-Porokylä: maintenance work	2023	(Uimaharju)–Porokylä	1708	2–3 h track possessions during 2–3 weeknights.	-	-	1	VS2369
Repair of Halinjoki railway bridge	2023	(Uimaharju)–Porokylä	1708	-	-	-	1	-
Removal of the Huopatehdas level crossing (Lappeenranta) 0289+0463	2023	Lappeenranta	1712	Minor traffic impacts	-	-	1	-
Joensuu: railway yard improvement	2023	Joensuu railway yard	1713	(Niittylahti) – Joensuu Closed to traffic	Sun - Wed (weeknights) 5h 23:30- 04:30 Sat-Sun 23:30 - 8:30 , **week 12** Sun - Wed (weeknights) 5h 23:30 - 4:30 Sat-Sun 23:30 - 8:30, **week 14** Sun - Wed (weeknights) 5h 23:30 - 4:30 Sat-Sun at 23:30 am - 8:30 pm, **week 15** Sun - Wed (weeknights) 5h 23:30 - 4:30 Sat-Sun 23:30–08:30, **week 16** Sun - Wed (weeknights) 5h 23:30 - 4:30 Sat-Sun at 23:30-8:30, **week 17** Sat-Sun 16:00–06:00 14 h commissioning, **week 17** Sun-Wed (weeknights) 5 h 23:30- 04:30, week18 Sat-Sun 16:00–06:00 14 h commissioning, **week 18** Sun-Wed (weeknights) 5 h 23:30- 04:30, **week 19** Sat-Sun 16:00–06:00 14 h commissioning, **week 19** Sun-Wed (weeknights) 5 h 23:30- 04:30, **week 20** Sat-Sun 16:00–06:00 min. of 14 h (commissioning area 4) 8 h Niittylahti - Joensuu, **week 20** Sunday-Wed (weeknights) 5 h 23:30- 04:30, **week 21**	-	1	VS2324, VS2323, VS2377
Joensuu: railway yard improvement	2023	Joensuu railway yard	1713	(Niittylahti) – Joensuu Closed to traffic	Thurs 09.00-11.50, **week 21** Sat-Sun 16.00-06.00 min. of 14 h (commissioning area 4), **week 21** Sat-Sun 16.00-06.00 14 h, commissioning, **week 21** Sun-Wed (weeknights) 5 h 23:30- 04:30, **week 22** Wed 31 May, 8-18 (SIT/SAT), **week 22** Thursday 1 June 8-18 (SIT), **week 22** Fri 2 June 8-18 (SIT), **week 22** Thurs, Fri 8-18 as traffic allows (SIT), **week 22** 3 June at 16.00 - 4 June at 06.00 Commissioning of a new interlocking system 14 h (commissioning area 4), **week 22** Sun-Wed 5 h 23:30- 04:30, **week 23** Sat-Sun 16:00–06:00 14 h, commissioning, **week 23** Sun-Wed (weeknights) 5 h 23:30–04:30, **week 24** 17-18 June WORK PHASE 15, LENGTH OF INTERRUPTION 48H, **week 24** Sat-Sun 16.00-06.00 14 h, commissioning, **week 24** Sun-Wed (weeknights) 5 h 23:30- 04:30, **week 25** Sun-Wed (weeknights) 5 h 23:30- 04:30, **week 26**		1	VS2377, VS2323, VS2187, VS2475
Joensuu: railway yard improvement	2023	Joensuu railway yard	1713	(Niittylahti) – Joensuu Closed to traffic	Sat-Sun 16:00–06:00 14 h, commissioning, **week 26** Sun-Wed (weeknights) 5 h 23:30- 04:30, **week 27** Sat-Sun 16.00-06.00 14 h, commissioning, **week 27** Sun-Wed (weeknights) 5 h 23:30- 04:30, **week 29** Sat-Sun 16.00-06.00 14 h, commissioning, **week 29** weekday 5 h 23:30- 04:30, **week 30** Miprolla Sat-Sun 16:00–06:00 14 h (commissioning area 5), **week 30** Sun-Wed (weeknights) 5 h 23:30- 04:30, **week 31** Mon. 09.15-11.30; 12.25-14.40;15.25-16.30, **week 31** Tues 09.15-11.30; 12.25-14.40; 15.25-16.30, **week 31** Wed 09.15-11.30; 12.25-14.40; 15.25-16.30, **week 31** Thu 09.15-11.30; 15.25-16.30, **week 31** Fri 09.15-11.30; 12.25-14.40; 15.25-16.30, **week 31** Miprolla Sat-Sun 16:00–06:00 14 h (commissioning area 5), **week 31** Sun-Wed (weeknights) 5 h 23:30- 04:30, **week 32** Mon. 09.15-11.30; 12.25-14.40;15.25-16.30, **week 32** Tues 09.15-11.30; 12.25-14.40; 15.25-16.30, **week 32**		1	VS2475, VS2476, VS2477
Joensuu: railway yard improvement	2023	Joensuu railway yard	1713	(Niittylahti) – Joensuu Closed to traffic	Thurs 09.15-11.30; 15.25-16.30, **week 32** Fri 09.15-11.30; 12.25-14.40; 15.25-16.30, **week 32** Thursday, Fri 8am-6pm as traffic allows, **week 32** Sat 12 August at 16.00 - 13.8 at 08.00 Introduction of the new interlocking system commissioning area 5 16 h, **week 32** Sun-Wed (weeknights) 5 h 23:30- 04:30 Sat-Sun 23:30-05:30, **week 33** Sun-Wed (weeknights) 5 h 23:30- 04:30 Sat-Sun 23:30-08:30, **week 34** Sun-Wed (weeknights) 5 h 23:30–04:30 Sat-Sun 16:00–06:00, **week 35** 2-3.9 Sat-Sun Entire Jns-Nth 23:30-01:30, **week 35** 2-3.9 Sat - Sun 23:30-06:00, **week 35** Sat-Sun 16.00-06.00, **week 35** Sun-Wed (weeknights) at 5h 23:30 - 4:30 Sat-Sun at 23:30 - 8:30, **week 36** 7-8.9 To-Fri Entire Jns-Nth 23:30-01:30, **week 36** 7-8.9 To-Fri 23:30-04:30, commissioning 6, **week 36**		1	VS2477, VS2516, VS2514, VS2515

Joensuu: railway yard improvement	2023	Joensuu railway yard	1713	(Niittylahti) – Joensuu Closed to traffic	Fri 29 September at 23.30 - Sun 1 October 15.30 V070 change 40 h, **week 39** Sun-Wed (weeknights) 5 h 23:30–04:30 Sat-Sun 23:30–08:30, **week 40** 7 October Sat 06.00 - 9 October Mon 06.00 V990 and V991 installation 48 h, **week 40** Sun-Wed (weeknights) at 5:30 pm - 4:30 pm Sat-Sun 23:30 am - 8:30 pm, **week 41** 14.10 Sat 06.00 - 16.10 Mon 06.00 V990 and V991 installation 48 h, **week 41** Sun-Wed (weeknights) 5h 23:30 pm - 4:30 pm Sat-Sun 23:30 - 8:30, **week 43** Sun-Wed (weeknights) 5 h 23:30- 04:30 Sat-Sun 23:30-08:30, **week 44** Sun-Wed (weeknights) 5 h 23:30–04:30 Sat-Sun 23:30–08:30, **week 45** Sun-Wed (weeknights) 5 h 23:30–04:30 Sat-Sun 23:30–08:30, **week 46** Sun-Wed (weeknights) 5 h 23:30- 04:30 Sat-Sun 23:30-08:30, **week 47** Sun-Wed (weeknights) 5 h 23:30- 04:30, **week 48**		1	VS2516
Joensuu: railway yard improvement	2023	Joensuu railway yard	1713	PELTOLA: **Work phase 12,** r015-r017 and 4a-b and their related turnout arrangements 11 April–28 May 2023. Deployment 29 May–2 June 2023, break needed for 8h. Trains will be able to drive through old tracks 062 and 063. **Work phase 13-14**, r009, r013-14 with the related turnout arrangements · updated time 5 June - 16 June 2023. **Work phase 15** Tracks r009 and r013-014 and their turnouts 17-18 June 2023 (48h Fri-Sun), Commissioning 008, 009, 022, V070, V068, 6h Sun 18 June 2023 **Work phase 16a**, r010-014 and their turnouts 19 June-11 August 2023 Construction at north end r906-910 with related turnout arrangements. **Work phase 16b**, commissioning r009-014 with their related turnouts 12-13 August 2023 **Work phase 17**, construction: r902, V937, V935, V938 and junctions 14 August–3 September 2023. Commissioning r901-903 4-8 September 2023 **Work phase 18, 20**: construction, V040, V939, V945, V947 and r903 junction north 9-22 September 2023. Commissioning of the aforementioned 23-24 September 2023. **Work phase 19Ja**: construction r904, r905 25 September – 1 October 2023 North end mass exchanges + Onttola turnout 29 September – 1 October 2023 48 h. **Work phase 19Jb**: construction: r904-r905 and the related turnout 2 October-3 October 2023. Commissioning: r904-905, V935 4-6 October 2023. Construction: r905, r906, r912-r914 + related turnouts 2-6 October 2023 **Work phase 22**: construction r905, r906 and 912-914 + related turnouts 7-15 October 2023. Mass exchanges at the north end 48h on 7-8 October 2023 and northern end track work 42h on 14-15 October 2023. Commissioning of turnouts at the south and north end of the Pielisjoki bridge 15 October 2023. **Work phase 23:** Construction r905, 906, r912-914 + related turnouts 16 October-10 November 2023. Commissioning r905,914 + turnouts 13-17 November 2023. Gateway work will	11 April–27 November 2023	-	1	VS2323
Joensuu: railway yard improvement	2023	Joensuu railway yard	1713	**PELTOLA:** Work stage 12, r015-r017 and 4a-b with related turnout arrangements 23 April–28 May 2023. Deployment 29 May–2 June 2023, break needed for 8h. Trains can drive through old tracks 062, 063 and 065. Work stage 13b, r012-r014 with related turnout arrangements · updated time 5–25 June 2023. Deployment 26 June–2 July 2023, service break needed for 8h. Driving through tracks 901-903, 006-007 and 015-017 will be possible. **STATION:** Work stage 18, track junctions V040, V939 and V937 updated need for service break construction+deployment 56h. 12–14 August 2023. Work stage 22, "North end junction": track in the direction of Kontiolahti, V932/934, V943 construction+deployment 46h. 29 September–1 October 2023 **JNS–ONTTOLA:** Work stage 23, V990 and V991, as well as deployment of traffic in the direction of Onttola · weekends week 40 (6–8 October 2023) and week 41 (13–15 October 2023) 2 x 48h	25 April –15 October	-	1	VS2323
Joensuu: railway yard improvement	2023	Joensuu railway yard	1713	Onttola, Onttola - Ylämylly	Fri 29 September 06.00 - Sun 1 October 15.30 Onttola turnout 40 h, **week 39** Sun-Mon 15-16 October 06.00 Commissioning of the Ontola interlocking system, commissioning 8, **week 42** Mon 16 October JKV test runs 23.00-14.00 Jns-YlY/Jns-Khi 23.00-08.00, **week 42** Sun-Wed (weeknights) 5 h 23:30- 04:30 Sat-Sun 23:30-08:30, **week 42**		1	VS2516
Joensuu: railway yard improvement	2023	Joensuu railway yard	1713	(Niittylahti) – Joensuu Closed to traffic	Sun-Wed (weeknights) 5h 23:30 pm - 4:30 pm Sat-Sun 23:30 - 8:30, **week 39**			VS2516
Repair of Meltusvirta railway bridge	2023	Siilinjärvi-Viinijärvi	1803	-	-	-	1	-
Pieksämäki-Kuopio: maintenance work	2023	(Pieksämäki)–(Kuopio)	1804	7 x 5 h full service breaks twice a year in spring and autumn.	Spring week 26 at night	-	1	VS2399
Iisalmi: implementation of the new interlocking system	2023	(Kuopio)–(Iisalmi)	1805	-	Planned for weeks 38 and 39, 2x24h or 1x48h	-	1	-
Kuopio-Iisalmi: maintenance work	2023	(Kuopio)–(Iisalmi)	1805	7 x 5 h full service breaks twice a year in spring and autumn.	Spring week 27 at night	-	1	VS2400
Repair of Paloisvirta railway bridge	2023	(Kuopio)–(Iisalmi)	1805	-	-	-	1	-
Pieksämäki: new side platforms 1 and 6, track and turnout changes, turnout replacements.	2023	Pieksämäki railway yard	1806	Tracks r001 and r006 closed to traffic.	Track 001/011 and track 002 closed to traffic from 1 August 2023 to 31 October 2023. Track 006 fully closed to train traffic until 31 July 2023. The situation corresponds to the current situation (train passengers have use of platform 1 and intermediate platform) Track 006 closed to throughfare train traffic. The platform at the northern end of the track will be used by Joensuu railcars from 1 August 2023 when platform 1 closes.	-	2	VS1594
Kuopio: Puijonkatu underpass	2023	Kuopio railway yard	1808	Changes in track access.	-	-	1	VS339
Kuopio asema	2023	Kuopio railway yard	1808	• R111 closed to traffic, weeks 22-24 Sun 28 May at 7:00 - Sun 18 June at 7:00 • R112 closed to traffic weeks 19-21 Mon 8 May at 10.00 - Sun 28 May at 7.00 • full service interruptions during weeks 20-24 and 26-30 (Sat-Sun 23:30-7:00) • 3.5 h full service interruptions from 5 June 2023 on weeknights until the end of July. • Tracks 019b and 001 will be closed to traffic, while track 019 will be closed to throughfare traffic. The intermediate platform will be closed because of the construction work. The renovated side platform will be open to passengers.	5 June–27 November.	-	1	VS1659
Kokkola–Ylivieska: maintenance work	2023	(Kokkola)–(Ylivieska)	1901	Daily 8 h track possessions on two lines at a time.	-	-	1	VS2360
Oulainen raw wood terminal	2023	(Kokkola)–(Ylivieska)–(Oulu)	1901	2x24h full service interruption	Weeks 36 and 37	-	1	VS2356
Seinäjoki–Kokkola: tamping of the line section.	2023	(Kokkola)–(Ylivieska)–(Oulu)	1901	23 shifts, 6h, Mon-Thu, approx. April–June	10:30 - 16:45	-	1	VS2324
Ylivieska-Oulu: maintenance work	2023	(Ylivieska)–(Oulu)	1901	5h track possessions during the maintenance weeks in spring at night and in autumn.	-	-	1	VS2363
Tuomioja-Raahe track replacement	2023	(Tuomioja)–Raahe	1903	8 h track possessions	1 May–31 August		1	VS2337
Replacement of turnouts V0077, V0072, V0071, V0075, V0076, V0070 in Oulu	2023	Oulu	1904	Full service interruptions 12-24 h and speed restrictions for approx. 2 weeks after work	Will be specified as planning proceeds	Will be specified as planning proceeds	1	-

POKA (Remote control in Northern Finland): safety equipment work and commissioning	2023	Oulu	1904	In accordance with a separate plan.	-	-	1	VS2373
Oulu railway yard renovation and safety installations	2023	Oulu railway yard	1906	Changes in track access and daily track possessions according to a separate plan.	-	-	1	VS1243
Oulu: Oritkari triangle track	2023	Oulu railway yard	1906	Changes to track access	-	-	1	VS1587
Renewal of Kylmälahti railway bridge	2023	(Äänekoski)–(Haapajärvi)	2001	Will be specified as planning proceeds	Will be specified as planning proceeds	Will be specified as planning proceeds	1	-
Equipping of Naarakoski level crossing with a boom barrier system 0431+0594 and improving the level crossing in Hietama 0434+0599	2023	Jyväskylä - Haapajärvi	2001	Minor traffic impacts	-	-	1	-
Haapajärvi raw timber terminal	2023	(Iisalmi)–(Ylivieska)	2002	Full service interruption Hpj-Pp	8 May - 10 May 48 h	-	1	VS1563
Iisalmi–Ylivieska: renovation	2023	(Iisalmi)–(Ylivieska)	2002	8–10h daily track possession	-	-	1	-
Ylivieska-Iisalmi electrification	2023	(Ylivieska)-Iisalmi	2002	Full service interruptions	- Iisalmi-Haapajärvi 7–10 h service interruption Mon–Thurs, approximately 13–22 - Iisalmi-Kiuruvesi week 21/2023 service interruption 24 h (mass exchange) - Iisalmi-Kiuruvesi week 22/2023 service interruption 30 h (turnout installation and jacking up of the Harmaala bridge) -Iisalmi interlocking system commissioning inspection 2x24h week 39? - In addition, 10 5-hour traffic interruptions at the Iisalmi	-	1	VS2327
Ylivieska-Iisalmi electrification	2023	(Iisalmi)-(Kontiomäki)	2101	-	- Iisalmi-Kontiomäki (Iisalmi-Kauppilanmäki) week 21/2023 service interruption 24 h (mass exchange and demolition of old bridge) - Iisalmi-Kontiomäki (Iisalmi-Kauppilanmäki) week 23/2023 service interruption 24 h (turnout installation)	-	1	VS2327
Hyrynsalmi-Pesiökylä bridge work, RAPU and pp (e.g. Hiidenjoki and Mätäspuro railway bridge)	2023	(Kontiomäki)–Ämmänsaari	2102	Work during track possessions between 0:00 and 07:00. Hys-Psk-Äm 2x24h service interruption May (week 22 Mon+Wed?) Kon-Äm 1x48h service interruption June (week 24?) Kon-Hys+Psk 2x48h+1x24h safety device commissioning+POKA July (week 29?) Kajaani-Hyrynsalmentie Demolition of the old bridge in October 1 x 36 h. Traffic impact on the entire Kon-Äm line section.	1 May–31 October.	-	1	VS2375
Kontiomäki-Vuokatti renovation, finishing work	2023	(Kontiomäki)–Vuokatti	2104	-	-	-	1	VS2374
Repair of Jäätiö railway bridge	2023	(Kontiomäki)–Vuokatti	2104	Week 35 48 h				VS2336
Renovation of the Vaalansalmi railway bridge	2023	(Oulu)–(Kontiomäki)	2105	Mon–Thu 7–10h working hours three weeks/year	-	-	1	VS1602
Nuojua raw wood terminal	2023	(Oulu)–(Kontiomäki)	2105	On the terms of traffic.	-	-	1	VS2011
Replacement of single sleepers Murtomäki-Otamäki	2023	(Murtomäki)-(Otamäki)	2107	Will be specified as planning proceeds	Will be specified as planning proceeds	Will be specified as planning proceeds	1	-
Iijoki railway bridge	2023	(Oulu)–(Kemi)–Laurila–(Tornio)	2201	5x10 h service breaks	1 June–31 August.	-	1	VS2009
Oulu–Kemi–Laurila–Tornio: maintenance work	2023	(Oulu)–(Kemi)–Laurila–(Tornio)	2201	2 x 3 h or 5 h track possessions during the maintenance weeks in spring at night and in autumn.	-	-	1	VS2341
Oulu–Laurila rail replacement	2023	(Oulu)–(Kemi)–Laurila–(Tornio)	2201	-	1 May–31 August Sun/Mon 20.40–23.10, 0.30–4.40 Mon/Tue 20.40–23.10, 0.30–4.40 Tue/Wed 20.40–23.25, 0.10–4.35 Wed/Thurs 20.40–23.10, 0.30–4.40 Thurs/Fri 20.40–23.25, 0.10–4.35	-	1	VS2315
Renewal of Jarkko underpass	2023	(Oulu)–(Kemi)–Laurila–(Tornio)	2201	-	-	-	1	-
Painting/repair of the Rautiola underpass	2023	(Oulu)–(Kemi)–Laurila–(Tornio)	2201	Periodic traffic interruption needs	From 1 April	-	1	VS2142
Repairs of Hervanoja railway bridge	2023	(Kemi)-Rovaniemi	2202	3x 36 h interruption coordinated with other bridge sites	1 July - 30 September	Will be specified as planning proceeds	1	VS2435
Renovation/renewal of the Imarinjoki railway bridge	2023	(Kemi)-Rovaniemi	2202	3x 36 h interruption coordinated with other bridge sites	1 July - 30 September	Will be specified as planning proceeds	1	VS2435
Renovation/renewal of the Kuolajoki railway bridge	2023	(Kemi)-Rovaniemi	2202	3x 36 h interruption coordinated with other bridge sites	1 July - 30 September	Will be specified as planning proceeds	1	VS2435
Renovation/renewal of the Kuorila railway bridge	2023	(Kemi)-Rovaniemi	2202	3x 36 h interruption coordinated with other bridge sites	1 July - 30 September	Will be specified as planning proceeds	1	VS2435
Removal of the Prokonoja level crossing	2023	(Kemi)-Rovaniemi	2202	Minor traffic impacts	-	-	1	-
Replacement of the Ruonanjoki railway bridge deck	2023	(Kemi)-Rovaniemi	2202	3x 36 h interruption coordinated with other bridge sites	1 July - 30 September	Will be specified as planning proceeds	1	VS2435
Repair of Veitikanoja railway bridge	2023	(Kemi)-Rovaniemi	2202	3x 36 h interruption coordinated with other bridge sites	1 July - 30 September	Will be specified as planning proceeds	1	VS2435
Repair of Kuivajoki railway bridge	2023	Laurila–Tornio border	2203	Daily 10 h track possessions	-	-	1	VS2357
Haparanda 1524 mm track alterations	2023	Laurila–Tornio border	2203	Daily 10 h track possessions + 1 x 24 h (including superstructure construction, turnouts)	-	-	1	-
Laurila–Tornio–Tornio border–Haparanda electrification	2023	Laurila–Tornio border	2203	Daily 10 h natural track possessions	-	-	1	VS2093
Raumonjoki railway bridge	2023	Laurila–Tornio border	2203	Weekdays approx. 8 hours, weekend 16 hours (weeks 11–29)	-	-	1	VS2330
Tornio railway yard	2023	Tornio–Haparanda	2203	10 h daily track possessions + 5 x 24 h (e.g. superstructure construction, turnouts, repair of Tornio station underpass 1)	-	-	1	VS2094
Torne River railway bridge	2023	Tornio–Haparanda	2203	Daily 10 h natural track possessions	-	20	1	VS1776
Yli-Raumo and Rajakankaantie underpass	2023	Laurila–Tornio border	2203	On weekdays 4x10-12h	Weeks 19 -21	-	1	VS2330
Drum work on the Roi-Ptg rail section	2023	Rovaniemi-Kemijärvi-Patokangas	2204	Will be specified as planning proceeds	-	-	1	VS2436

Priority order in congested infrastructure

1 Structure of the priority order

A new order of priority has been introduced in the state-owned railway network for the timetable period 2022. The aim is to clarify the system of priorities between trains in situations involving congestion. The new priority order is based on the following framework:

- Trains are divided into nine categories, which are based on their key features as part of the transport service.
- Each part of the railway network is divided into five different route profiles. Prioritisation of train categories varies depending on the route profile and
- a priority order between train categories is determined for each route profile.
- Trains in each category are prioritised using the key features of the trains as a basis. If it proves impossible to categorise trains on the basis of these features, the remaining categories are applied so that all operators are provided with a level playing field.
- On some line sections, a capacity quota may be introduced for trains belonging to a low-priority category so that at least a certain number of trains of this category may use the line section.
- In certain exceptional cases, the infrastructure manager has a statutory right to derogate from the priority rules if applying them would lead to an unreasonable situation.

2 Route profiles

The railway network is divided into five entities (described in the table below) on the basis of the characteristic features of the route profile, the railway network and the transport service in question.

Table 1. Route profiles.

Route profile	Criteria	Routes
Specialized routes	Route specialized for certain train types as defined in Network Statement	Kerava-Vuosaari, Helsinki region city tracks
Helsinki region train routes	Passenger trains, no regular freight trains, large traffic and passenger volumes, high capacity usage	Helsinki-Kytömaa (Kerava), Helsinki-Kirkkonummi
Southern Finland train routes	Passenger traffic minimum 1 hr interval on weekdays, large number of passengers, potentially important freight train routes.	Kytömaa-Tampere, Kytömaa-Lahti-Kouvola, Kirkkonummi-Turku satama
Combined passenger and freight routes	Passenger traffic connected to Southern Finland main routes, passenger trains with regular intervals greater than one hour, potentially important freight train routes.	Hanko-Karjaa, Riihimäki-Hakosilta, Turku-Toijala, Tampere-Pori, Tampere-Pieksämäki, Orivesi-Haapamäki, Seinäjoki-Vaasa, Seinäjoki-Jyväskylä, Seinäjoki-Kemijärvi/Kolari, Kouvola-Kontiomäki, Kouvola-Joensuu/Vainikala, Parikkala-Savonlinna
Freight train routes	Traffic of the route is mainly or completely freight train traffic	Routes with only freight traffic plus Kouvola-Kotha harbour, Pieksämäki-Joensuu, Joensuu-Nurmes, Iisalmi-Ylivieska, Kontiomäki-Oulu

3 Train categories

To determine the priority order, trains are divided into nine categories as shown in Table 2. As a rule, each train belongs to only one train category for the whole duration of its journey. If the category of the train changes between route profiles, the highest-priority category of the train in any of the route profiles is set as the overall category of the train. Where necessary, an applicant for infrastructure capacity will notify the infrastructure manager of a separate request in connection with their annual capacity application on which category each train in the application is in. The infrastructure manager may ask the applicant to provide information on the grounds for placing a train in a specific category.

Table 2. Concise definitions of the train categories.

Length of journey	Train category	Criteria	Current volume of category
Long	International passenger trains	Regular international passenger trains	All international trains except seasonal trains
	Integrated long-distance passenger trains	Fast, regular clockwise traffic structure, significant connections between trains, integrated rolling stock rotations	Most current long-distance trains
	Fast long-distance trains	Fast top speed but not meeting all criteria of integrated passenger trains	Approximately 10% of current long-distance trains
Mostly short	Commuter trains	Regular clockwise traffic structure, integrated rolling stock rotations	Most current commuter trains except city trains
	City trains	Trains running mostly on specialized city tracks	All current city trains
Long or short	Other passenger trains	Passenger trains not belonging to above categories	Less than 10% of current passenger trains – night trains, not regular regional passenger connections
Long or short	Integrated freight trains	Trains with significant timetable constraints and integrated rolling stock rotations	Part of freight trains
	Other freight trains	Other freight trains	Part of freight trains
Long or short	Other trains	Locomotive movements, empty trains, track machines etc.	All other traffic

A train belongs to a train category if it meets the following criteria for each category:

International long-distance trains

1. The train makes intermediate stops for commercial purposes in the territory of at least two countries.
2. The train is operated through its journey with rolling stock capable of travelling at the maximum speed permitted on the line section or at least 200 km/h if the maximum speed is higher than this.
   - Lower-speed trains meet the criterion if they operate on the train routes in the Helsinki region and the main routes in Southern Finland outside peak hours (weekdays between 7:00 and 9:00 and between 15:00 and 17:00).
3. The train is part of integrated rolling stock rotation (failure to run the train or significant timetable changes will disrupt the rotation).
4. The train is operated on a regular basis throughout the year.

Integrated long-distance trains

1. The train makes commercial stops in the territory of at least two regional centres and it travels a distance of at least 100 km.
2. The train runs on a frequent and regular basis.

- Trains operated on a seasonal basis (during a period that is shorter than the period between two timetable period adjustment dates) do not meet the criterion.

3. The train is operated through its journey with rolling stock capable of travelling at the maximum speed permitted on the line section or at least 200 km/h if the maximum speed is higher than this.
4. The train is part of integrated rolling stock rotation.
   - The rolling stock is subject to specific turnaround requirements and the same rolling stock is rotated efficiently throughout the operating period, considering the demand for the service and adequate maintenance and cleaning capacity during daytime. Failure to run the train or significant changes in the timetable will disrupt the integrated rotation of the rolling stock.
5. The train provides interchange with other long-distance trains in at least one network node in the area covered by train routes in the Helsinki region or the main train routes in Southern Finland.
   - Maximum interchange time is 20 minutes.
   - Minor deviations are allowed (for example, off-peak hours, such as early morning and late evening, or differing running times resulting from train meets on a single-track line section.
6. The train belongs to a group of integrated trains in which trains travelling in the same direction stop at the same stations and have standard running times at least on one line section between two regional centres.
   - Minor differences between stops or changes in running times are allowed (for example, as a result of customer needs or train meets on single-track line sections.
   - Both parts of the trains separated/combined during the journey are considered as a single train.
   - Single trains may include trains from more than one operator.

Fast long-distance trains

1. The train makes commercial stops in the territory of at least two regional centres and it travels a distance of at least 100 km.
2. The train runs on a frequent and regular basis.
   - Trains operated on a seasonal basis (during a period that is shorter than the period between two timetable period adjustment dates) do not meet the criterion.
3. The train is operated through its journey with rolling stock capable of travelling at the maximum speed permitted on the line section or at least 200 km/h if the maximum speed is higher than this.
   - The requirement may not necessarily be met on a short line section if this does not have any major impact on the rest of the timetable structure.

Commuter trains

1. The train is part of a service concept in which trains operate at regular intervals (maximum interval 60 minutes).
   - Minor variations in running times (such as those resulting from train meets on single-track line sections or running the train on different line sections) and non-standard traffic arrangements during off-peak hours are allowed.
   - If the train is operated in a large area and it runs more irregularly in one part of its route, the service can nevertheless be considered as a commuter train service.

2. The train runs on a frequent and regular basis.
   - Trains operated on a seasonal basis (during a period that is shorter than the period between two timetable period adjustment dates) do not meet the criterion.
3. The train is part of a service concept in which at least two trains run in both directions on weekday mornings and afternoons and there are also trains in both directions outside peak hours on weekday mornings and afternoons.
4. The rolling stock rotation comprises a system in which the trains in both directions have the same composition (separating, combining or transfer of units to other commuter train routes is allowed).

Urban train traffic

1. The urban train traffic operated by the HSL joint municipal authority, which only uses the specialised-capacity urban tracks (Helsinki–Leppävaara, Huopalahti–Myyrmäki–Havukoski and Helsinki–Kerava).

Other passenger trains

1. The train does not meet any other passenger traffic criteria.

Integrated freight trains

1. The train is subject to specific timetable requirements (such as unloading/loading times in a plant, in a warehouse or at a port) and it is linked with industrial processes or logistic transport chains OR
   the train is part of an explicit rolling stock rotation scheme in which wagons tied to a specific transport task are used in both directions. Failure to run the train or significant changes in the timetable will disrupt the integrated rotation of rolling stock.

Other freight trains

1. A freight train that does not meet the criteria for integrated freight train traffic.

Other traffic

1. Other traffic, such as trains consisting of empty passenger carriages, locomotive transfers, shunting, machinery, unscheduled traffic, trial runs and museum train traffic.
   - Locomotive transfers normally included in other traffic may be given the priority of an integrated freight train if they are an essential part of running such a train.

4 Timetable changes and cancelled trains

In addition to decisions on which trains should be cancelled, the priority order may also have to be used to resolve more complex conflict situations. In such situations, it may also have to be decided which trains should be rescheduled or whether a train should be rescheduled or cancelled altogether. The aim is to find a solution that will cause minimum harm to the railway operations as a whole.

In order to ensure that prioritisation can lead to the achievement of the legal objective of meeting as many capacity needs as possible, the priority set for a train cannot always mean that the train in question is automatically entitled to the capacity requested for it. The timetable of a train with a priority status must also be flexible within the limits specified below, if the alternative is the cancellation of a lower-priority train or rescheduling it to the extent that its customer service role is lost and the transport service in question is discontinued.

In this context, the loss of the customer service role means a situation in which there are good grounds for concluding that, after the rescheduling, there are no longer any commercial or production-related reasons to continue the train service. Such a situation may arise if the service provided by the train no longer meets customer needs, the cost of running the train will increase significantly (as a result of such factors as disrupted rolling stock rotation) in a manner that cannot be compensated or the transport service in question is discontinued for other similar reasons.

In freight traffic, the effects on the customer service role would not be crucial if the service can be rescheduled (as a new train or as part of another train) and there are no serious business impacts. If necessary, the infrastructure capacity applicant or the charterer is asked to assess the significance of the impact.

When a choice has to be made between rescheduling or cancelling a train, the conflict is resolved as described in Figure 1:

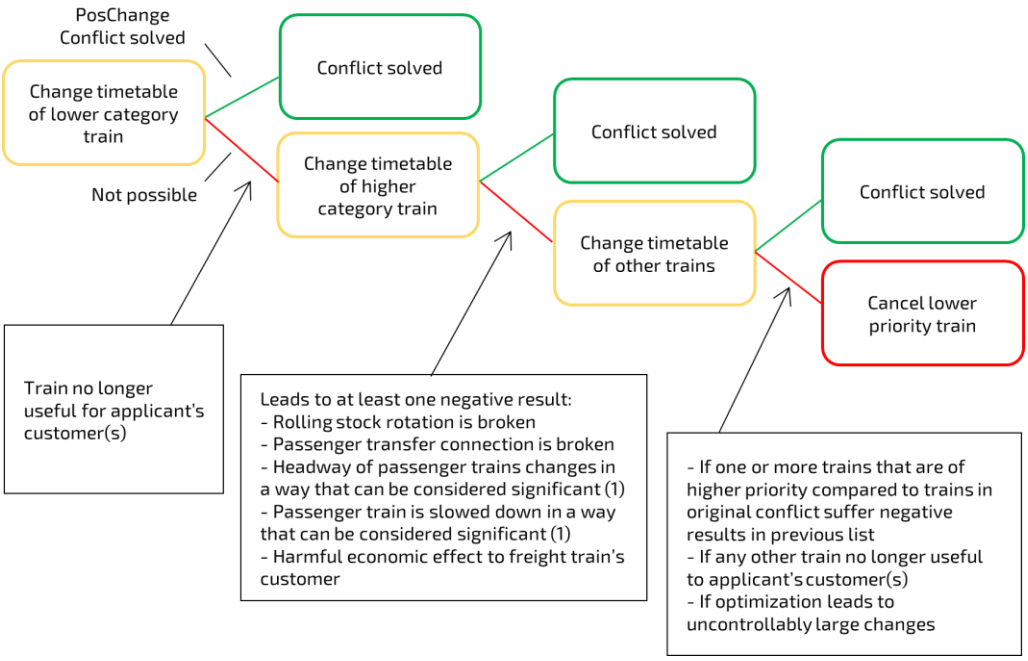

Figure 1. Resolving a conflict using the priority rule[1].

[1] The minor slowing down of the running time referred to in the figure or irregular train intervals are case-specific and depend on customer needs. If necessary, they can be given reference values in future Network Statements. For the time being, a change that can be shown to have a measurable impact on the number of service customers is not a minor change.

In complex conflict situations, lowest-category trains are cancelled first and every effort is made to ensure that the lowest-category trains on each route profile are least affected.

In addition, the following rules apply to the modification of freight train timetables:

- The timetable for a regular freight train running several days a week may be changed as part of the running days in the coordination of annual capacity and in the application of the priority order, provided that this can be used to reduce problems caused by the change to the customer and operator of the freight train for which the change was made.
- The same priority criteria are used for the transport of dangerous goods as for other freight trains. If a train transporting dangerous goods is operated on the basis of priority order, it's possible timetable changes must be made in a manner that allows the train to run according to the safety regulations for trains transporting dangerous goods.

5 Priority order between train categories on individual route profiles

Route profile/ Train category	Helsinki region train routes	Southern Finland train routes	Combined passenger and freight routes	Freight train routes	Specialized routes	
					City tracks	Kerava-Vuosaari
International passenger trains	1	1	1	3 *	-	-
Integrated long- distance passenger trains	2	2	2	4 *	-	-
Fast long-distance trains	4	4	4	5 *	-	-
Commuter trains	3	3	5	6 *	-	-
Other passenger trains	5	5	6	7 *	-	-
Integrated freight trains	6	6 *	3	1	-	1
Other freight trains	7	7 *	7	2	-	2
City trains	-	-	-	-	1	-
Other trains	8	8	8	8	-	-

* = Possible capacity quota

Figure 2. Priority order between train categories on individual route profiles.

On the train routes with specialised infrastructure capacity, the capacity is reserved for urban train traffic and on the line section Kerava–Vuosaari for freight trains. This means that on these train routes, priority is given to specialised train traffic and there is no need for coordination with other traffic. Other trains can use the remaining capacity even though the tunnel-specific safety regulations significantly limit the applicability of this option.

As the railway infrastructure develops, route profiles and their priority orders can be updated to reflect the new situation. In order to achieve the objectives set for the development of infrastructure, it should be noted that the priority of trains on the new line does not conflict with these objectives. In addition, if the capacity of a line section deteriorates over a long period of time, for example as a result of track work, the line section priorities can be reviewed.

6 Capacity quotas

In the cases shown in Figure 1, capacity quotas can be set to ensure that lower-category trains which would otherwise be in a detrimental position can also run. Capacity quotas mean the minimum share of the capacity on a specific line section allocated to a train category. Capacity quotas can be used to ensure that freight trains can run on the main train routes in Southern Finland and to ensure adequate passenger services on train routes mostly used by freight traffic.

The trains included in the capacity quota may have slightly more unscheduled stops and they may have to give way to other trains slightly more frequently compared with higher-priority trains. However, a commercially meaningful route is guaranteed for the train throughout the line section.

The content of the capacity quotas for the next timetable period is determined by the Finnish Transport Infrastructure Agency. Depending on the situation, the capacity quota can be determined as a number of trains during one day, one hour or certain time of the day.

The total number of trains during a single day in the timetable period 2022 on all line sections for which quotas can be specified under Figure 1 will be used as the capacity quotas in the timetable period 2023. This means that for example on the line section Kontiomäki–Oulu, the daily capacity for passenger trains in the timetable period 2022 will at least be the same as on similar operating days in 2022. Exceptions to these quotas can be set in the negotiations with the infrastructure capacity applicants.

The Finnish Transport Infrastructure Agency may also set capacity quotas for the duration of track work or other temporary capacity restrictions as part of the timetable period. Because of track work, a temporary capacity quota has been set for the timetable period 2023 for the line section Kerava–Järvenpää for the period between 19 June and 9 December 2023.

Capacity quotas are published on the website of the Finnish Transport Infrastructure Agency[2].

7 Priority orders within train categories

The priority order within train categories varies by train category. At this stage, the specific characteristics of the trains and potential solutions are examined one by one. A decision is made if there is sufficient difference in a priority criterion. If no difference can be established, each of the criteria is examined one by one until a difference is determined.

[2] Regular infrastructure capacity - Finnish Transport Infrastructure Agency (ftia.fi) (in Finnish)

The Finnish Transport Infrastructure Agency carries out an expert assessment for the last passenger traffic criterion. If no difference can be established in freight traffic on the basis of the priority criteria, every effort is made to resolve the conflict in a fair manner, considering the scope of the applicants' operations. In both cases, a failure to find a solution probably means that the applicants have requested capacity for a similar service. This means that no explicit factor or calculation method can produce a difference between the applicants.

Table 3. Prioritisation among trains in the same train category

Priority	Long-distance trains *	Commuter and urban train traffic	Freight trains
1.	Running in the congested direction (only on single-track line sections)	Number of operating days	Impacts on the applicants' business
2.	Number of operating days	Impact of timetable change on service intervals	Number of changes impacting other trains
3.	Timetable restrictions	Distance travelled by the train	Impacts on the applicants' operations
4.	Distance travelled by the train	Number of interchange stations (incl. other transport forms)	-
5.	Train maximum speed	Impacts on the applicants' business operations	–
6.	Impacts on the applicants' business operations	–	–
* Long-distance traffic means the following train categories: international long-distance trains, integrated long-distance trains, fast long-distance trains and other passenger trains.			

Long-distance trains

The same prioritisation criteria apply to all long-distance train categories. The long-distance prioritisation criteria also apply to the train category 'Other passenger trains'. The prioritisation criteria are as follows:

Running in the congested direction is only used as a criterion on single-track line sections. As a rule, all trains arriving in Helsinki on weekdays between 06:00 and 09:00 or leaving Helsinki on weekdays between 14:00 and 18:00 or that offer interchange with these trains are running in the congested direction. Night trains are not considered as trains running in the congested direction. Commuting train services to large cities can also be considered as trains running in the congested direction.

Number of operating days: Priority is given to trains with more operating days. However, there must be a difference in the number of weekly operating days. If the trains included in the comparison only run once a week or less frequently, there must be a regular difference between the number of operating days on a monthly basis. Occasional differences (on such days as public holidays) cannot be used as a basis for prioritisation.

Timetable restrictions: Trains subject to strict timetable restrictions due to arrival times, interchange connections or high infrastructure utilisation rate are given a higher priority and the option favouring them is prioritised.

Distance travelled by the train: Priority is given to trains travelling longer distances.

Maximum train speed: If there are no other major differences between the trains, there are grounds for prioritising a train with a higher maximum speed. Maximum train speeds exceeding the maximum permitted speed on the line section in question are not considered.

If the decision cannot be made on the basis of other comparison factors, the Finnish Transport Infrastructure Agency will ask the capacity applicants to provide the necessary information on the impacts of the train in question on their business operations and to name the train with the most significant relative impact on the applicant's business operations. The number of passengers using the trains can also be considered in the assessment. Trains with a major impact on the applicant's business operations are given a higher priority and the option favouring them is prioritised. If the capacity applicants state that they are requesting exactly the same capacity as part of the tendering process, the capacity can be allocated on a conditional basis so that ultimately it will be given to the winning party.

Commuter traffic

Number of operating days: See 'Long-distance trains'

If the comparison is between options in which it is only necessary to change train timetables, the percentage impact of the change on the regularity of service intervals is compared. Priority is given to the option with the smallest change in service intervals.

Distance travelled by the train: As in long-distance traffic, there are good grounds for prioritising trains travelling longer distances.

Number of interchange stations: In commuter services, consideration must also be given to interchange connections with other modes of transport. Trains with more stops at interchange stations are given a higher priority and the option favouring them is prioritised.

If a solution cannot be found on the basis of other comparison factors, the procedure used for long-distance traffic is followed.

Freight trains

The prioritisation of freight trains within the categories of goods trains shall be determined using the following prioritisation criteria.

1. Impacts on the applicants' business

The impact of the prioritisation decision on the business of the applicant's production facility are assessed using the following assessment criteria:

1. Termination of customer's business activities
2. A decline in a customer's business or cancellation of business expansion planned by the customer.

3. Interrupted transport of the customer's raw material or product for example in ports.
4. Significant increase in customer stocks
5. Number of rail transports lost by customer
6. The customer's possibilities for replacing missing rail transport with other modes of transport.

The possible impacts of prioritisation solutions are evaluated in the order of the list. The effects higher on the list, if any, as a result of the solution are assessed to be more significant, but the criteria are primarily aimed at making a prioritisation decision with the least economic adverse effects as a whole. Point 4 refers to the need to increase the size and amount of storage facilities, increase the movement of goods to be stored or other similar harmful change. Point 5 is not an independent assessment criterion, but can be used as an indicator of the magnitude of the impacts if it can be demonstrated that the cancellation of trains will cause effects 1–4. With regard to point 6, it is assessed whether the use of other modes of transport for a customer can mitigate effects 1–4.

As annual capacity allocation decisions are made at least several months before a production date, reliable or accurate information on the impact of the decisions on the above criteria may not be available at this stage. The impacts on the customer's business will only be taken into account in the prioritisation of trains in points 1–4 if the information on the adverse effects described above is available and if the impacts are quantitatively significant, at least measured in person-years. If the effects for two or more applicants are similar but different in size, smaller impacts will be prioritised, but only if the differences are so significant that the differences can be reliably assessed in advance. The applicant for infrastructure capacity shall, where necessary, transmit the relevant information on the impact to the infrastructure manager.

2. Effects on other trains

If no significant difference has been found in the impact on the business of the applicant's customer, the impact of the solutions on other trains will be examined. The number of changes caused to other trains reflects the impact on the efficient use of the rail network and, more broadly, on the functioning of the rail system. For this reason, there are grounds for prioritising the option that has fewer impacts on other trains, if, as a whole, a solution option generates fewer interoperability solutions that are harmful to traffic. The changes are examined on the basis of units.

3. Impacts on the applicants' operations

If there is no significant difference in the impact on other trains, the impact of the solutions on the applicants' business will be examined. The following impacts on the applicants' operations will be assessed:

1. Break in wagon cycle
2. Break in locomotive cycle
3. Disruption of staff cycles
4. Total number of trains owned by applicants

If only one of the applicants is able to demonstrate that the change has significant impacts on its operations, the train in question will be prioritised. If more than one applicant is able to demonstrate that the change has major impacts on

their operations, the changes in rolling stock and locomotive rotation are prioritised over changes in personnel rotation.

If a solution cannot be found on the basis of points 1–3, the conflicts affecting the remaining trains are resolved in relation to the applicants' total number of trains in the train category in question. The principle is that the applicants lose conflicts in relation to the total number of trains when measured by the number of operating days of the trains requested for the annual capacity. However, a distinction is made between conflicts in which trains must be cancelled and in which only timetable changes are necessary.

In this case, if only one conflict needs to be solved, it is solved for the benefit of the operator that has requested the lowest number of operating trains for its freight trains. If there is more than one conflict between the same operators they are resolved by selecting the option in which the ratio of the number of operating days containing changes or lost by each applicant as cancelled trains is as close as possible to the ratio of the number of operating days requested by the applicants. The comparison is made separately between the options in which a train of one of two operators must be cancelled and for those situations in which the rescheduling of a train of one of the operators is detrimental to the operator.

8 Exceptions

Under section 120 of the Rail Transport Act, the infrastructure manager may derogate from the end result produced by the priority order on the following grounds: 1) maintenance or improvement of the functioning of the rail transport system or public transport; or 2) unreasonable inconvenience to applicants or their customers. The priority order may also be derogated from for the benefit of an applicant that operates international rail services.

The decision on the derogation must always be made on a case-by-case basis and a derogation decision should not be seen as a precedent for other similar situations. This is because many of the external factors and factors directly impacting railway traffic may change and influence the decision. Derogating from the priority order can be considered justified in the following situations:

- Congestion affecting lower-category passenger trains
- Significant detrimental impact on the functioning of railway traffic or public transport
- Introducing more regular intervals for passenger services if this can be carried out without the detrimental changes affecting higher-category trains specified in chapter 4
- Unreasonable detrimental impact on railway operators
- Locomotive transfers normally included in other traffic may be given the priority of an integrated freight train if they are an essential part of running such a train.
- Failure to make regular use of similar capacity in the preceding timetable period may lower the priority of the train
- Essential infrastructure management needs
- The reasonableness of solutions for trains in different categories must be considered in connection with Infrastructure constraints, especially with regard to long-term constraints.

For example, in the case of a small operator, an unreasonable detrimental impact on a party allocated a lower priority may lead to a situation in which the applicant would have to close down a significant part of its business as a result of the decision.

A night train may be given priority over higher-category trains if the commercial advantage of the night train would otherwise disappear and the required loadings and unloadings cannot otherwise be carried out. However, as a rule, night trains are not subject to the same strict travel time requirements as other long-distance trains.

If a train with a higher priority involved in a conflict had been allocated similar capacity in the preceding timetable period and this capacity has not been used as described in the Network Statement, a lower-category train may be given priority.

9 Further information

If necessary, this priority order will be applied in the capacity allocation from the timetable period 2022 onwards and in certain situations in the allocation of capacity on adjustment dates, as described in chapter 4.5.1 of the Network Statement 2022. This priority order is not applied in operational situations. The management of operational situations is described in chapter 6 of the Network Statement.

The Finnish Transport Infrastructure Agency has published a report on the priority order of infrastructure capacity on congested line sections [3] (FTIA's publications 63/2020). The priority order model discussed in this appendix and the grounds for it are described in more detail in the document.

[3] https://vayla.fi/tietoa-meista/julkaisut/julkaisut

Determining the basic infrastructure charge

Contents

Abstract

The Finnish Transport Infrastructure Agency has determined the infrastructure charge for 2023. The infrastructure charge is based on the Railway Market Directive 2012/34/EU of the European Union, the Finnish Rail Transport Act (1302/2018) and the Commission Implementing Regulation (EU) 2015/909. The infrastructure charge was determined for the railway operators using the state-owned railway network. The infrastructure charge for 2023 consists of the basic component of the basic infrastructure charge and the additional charge for the use of electric supply equipment. The 2023 infrastructure charge was mainly based on the index-adjusted 2022 infrastructure charge.

The infrastructure management costs were retrieved from the Finnish Transport Infrastructure Agency's cost management system after which the contents of the cost data were revised on the basis of separate reports. The basic component of the basic infrastructure charge (the direct cost generated by all railway traffic) was determined using a calculation based on econometric modelling, in which the cost function was determined using a regression analysis. Maintenance costs and replacement investments by line section were used as explanatory variables and the gross tonnes and rail kilometres by line section as independent variables in the cost function. The additional charge for the use of electric supply equipment was determined using a subtraction method in which the direct traffic-related costs were separated by experts from the costs incurred as a result of using the electric supply equipment of the electrified railway network and these costs were divided by the kilometres operated in rail traffic using electric supply equipment.

Based on econometric modelling and when adjusted on the basis of the 2020 cost index, the basic component of the basic infrastructure charge is 0.1341 cents/gross tonne-kilometre. Based on the method used and when adjusted on the basis of the 2020 cost index, the additional charge for the use of electric supply equipment is 0.0129 cents/gross tonne-kilometre.

The calculations used to produce the basic component of the basic infrastructure charge met the assumptions of linear regression in econometric modelling and the tests carried out on it. The definition of the additional charge for using electric supply equipment is in accordance with the requirements set out in the subtraction method defined in the Commission Implementing Regulation. The infrastructure charge calculations were produced and documented in a thorough and transparent manner and best international practices were used in the process.

1 Introduction

References to the following material are made in this appendix: the basic infrastructure charge calculation required under the Railway Market Directive 2012/34/EU, the legislative framework for determining the calculation, the method used by the Finnish Transport Infrastructure Agency in the Network Statement 2023 to calculate the basic infrastructure charge, the dataset compiled to calculate the charges and the results and evaluation of the calculations based on the dataset.

The infrastructure charge calculations have been produced by combining two methods permitted under the law. The econometric cost modelling based on marginal cost pricing has been used as the principal method and the principles of this modelling have been used to determine the Finnish infrastructure charge since 2003. The method produces the low infrastructure charges meeting transport policy objectives. The second method applied, the subtraction method, is used for determining the additional charge levied on the use of electric supply equipment.

Best international practices have been used in the infrastructure charge calculations even though so far the network statements of different countries and the appendices to them have contained only a limited amount of detailed information on the calculations. Efforts have been made to create sustainable practices that exceed international standards in terms of the accuracy and documentation of the calculations. In 2019, the authority supervising the lawfulness of the pricing stated that the Finnish Transport Infrastructure Agency should incorporate changes in its method and these changes have been taken into account in the calculations. Background reports and studies have been prepared to support the calculations.

The Finnish Transport Infrastructure Agency only levies the basic infrastructure charge in the timetable period 2023. As required under the law, the charges paid by traffic using electric supply equipment and the traffic not using it are itemised in the basic infrastructure charge.

The process of determining the basic infrastructure charge (Figure 1) consists of two parts: processing of the overall infrastructure management costs and the calculation of direct unit costs. Maintenance costs and replacement investments have been separated from the total infrastructure management costs to calculate the basic component of the basic infrastructure charge and the additional charge for the use of electric supply equipment. After this, non-eligible costs have been separated from total infrastructure management costs. The basic component of the basic infrastructure charge levied on all traffic is a result of econometric modelling, while the additional charge for using electric supply equipment has been calculated with a subtraction method. Processing and modelling of the cost data is discussed in more detail in chapter 4.

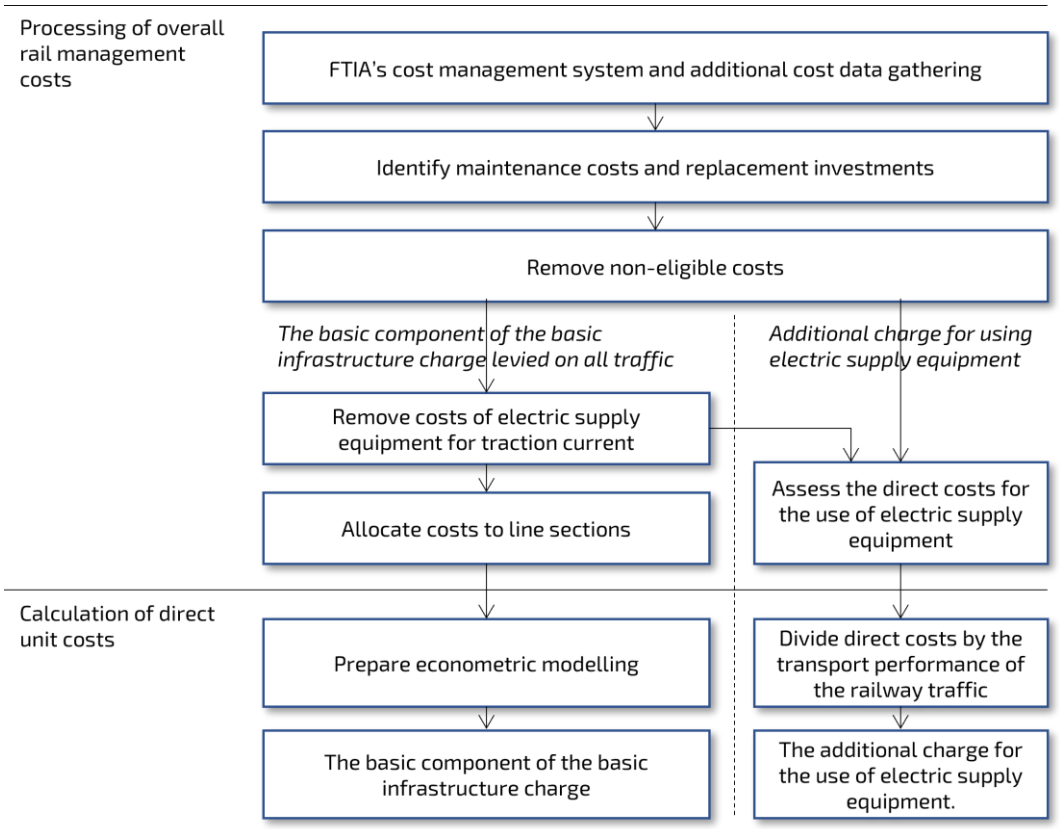

Figure 1. Determining the basic infrastructure charge.

2 Legislative considerations

The basic infrastructure charge is used to determine the price for the minimum access package. The pricing provisions are laid down in the Railway Market Directive 2012/34/EU of the European Union, the Finnish Rail Transport Act (1302/2018) and the Commission Implementing Regulation (EU) 2015/909. The focus in the legislation is on determining which costs should be used as a basis for the pricing of the minimum access package and the basic infrastructure charge levied by the Finnish Transport Infrastructure Agency.

2.1 Railway Market Directive and the Rail Transport Act

In accordance with the Railway Market Directive, the following is stated on the scope of the infrastructure charge in section 132 of the Rail Transport Act (1302/2018):

> *In return for the infrastructure charge referred to in section 139, the infrastructure manager must provide all railway operators, in a fair and non-discriminatory manner, with the services included in the minimum access package referred to in point 1 of Annex II to the Railway Market Directive. In return for the infrastructure charge, the infrastructure manager must also guarantee access to the service facilities referred to in section 133.*

In accordance with the Railway Market Directive, the basic rule for determining the basic infrastructure charge is laid down in section 139 of the Rail Transport Act (2012/34/EU) as follows:

> *The basic infrastructure charge levied on the services included in the minimum access package and referred to in section 132(1) above must be directly based on the costs resulting from railway operations.*

The costs directly resulting from railway operations are determined on the basis of the costs that are related to the provision of the minimum access package. Under point 1 of Annex II to the Railway Market Directive, the minimum access package must comprise the following:

> *a) handling of requests for railway infrastructure capacity*
> *b) the right to utilise capacity which is granted*
> *c) use of the railway infrastructure, including track points and junctions*
> *d) train control including signalling, regulation, dispatching and the communication and provision of information on train movements*
> *e) use of electric supply equipment for traction current, where available*
> *f) all other information required to implement or operate the service for which capacity has been granted.*

The inclusion of the minimum access package in the basic infrastructure charge determined by the Finnish Transport Infrastructure Agency has been assessed as follows:

- Paragraph a) concerns official administrative work that is relatively minor in scope and has not been included in the basic infrastructure charge.
- The content of paragraph b) has not been determined as an infrastructure management measure.
- The services referred to in paragraph c) and e) are examined in the section discussing the way in which the basic infrastructure charge is determined.[1]
- The services referred to in paragraph d) are currently outside the scope of the basic infrastructure charge but they are functions that could be priced as minimum access package services.
- The information referred to in paragraph f) is not an infrastructure management measure in the Finnish railway network.

2.2 Commission Implementing Regulation

The EU provisions supplementing the Railway Market Directive must be considered in the process of determining the basic infrastructure charge. *The Commission Implementing Regulation (EU) 2015/909 on the modalities for the calculation of the cost that is directly incurred as a result of operating the train service* lays down the costs that should be considered as direct costs incurred as a result of operating train traffic (Article 3) and the costs that may not be included in the direct costs (Article 4). It is specifically noted in the regulation that the charges levied on train traffic not using electric supply equipment may not include the costs specifically generated by electric traction (Article 4(1)(k)). The rules have been take into account in the itemisation of infrastructure management costs for the purpose of calculating the basic infrastructure charge and in order to determine a separate price for the basic infrastructure charge levied on all traffic and for the additional charge for using electric supply equipment.

The main points of Article 3 are:

> ***Direct costs on a network-wide basis***
>
> *Direct costs on a network-wide basis shall be calculated as the difference between, on the one hand, the costs for providing the services of the minimum access package and for the access to the infrastructure connecting service facilities and, on the other hand, the non-eligible costs referred to in Article 4.*
>
> *Without prejudice to Article 4 and if the infrastructure manager can transparently, robustly, and objectively measure and demonstrate on the basis of, inter alia, best international practice that costs are directly incurred by the operation of the train service, the infrastructure manager may include in the calculation of its direct costs on a network-wide basis in particular the following costs:*
> - *costs of staff needed for keeping open a particular stretch of line if an applicant requests to run a specific train service scheduled outside the regular opening hours of this line;*
> - *the part of the costs of points infrastructure, including switches and crossings, that is exposed to wear and tear by the train service;*

[1] The electricity transmission services are priced separately in a manner described in the Network Statement.

– *the part of the costs of renewing and maintaining the overhead wire or the electrified third rail or both and the supporting overhead line equipment directly incurred as a result of operating the train service; the costs of staff needed for preparing the allocation of train paths and the timetable to the extent that they are directly incurred as a result of operating the train service.*

The Finnish Transport Infrastructure Agency, includes the costs presented in section 1 in the costs incurred from the measures that are carried out to maintain the daily operability of the railway network (maintenance) as well as to repair and renew the infrastructure due to the wear and tear (replacement investments) resulting from railway operations. The specifications on the non-eligible costs presented in Article 4 are considered in determining these costs.

Article 4 presents special rail infrastructure management costs, which have been excluded from the modelling exercise, as follows:

Non-eligible costs

1. *The infrastructure manager shall not include in the calculation of direct costs on a network-wide basis in particular the following costs:*
    a. *fixed costs relating to the provision of a stretch of line which the infrastructure manager must bear even in the absence of train movements;*
    b. *costs that do not relate to payments made by the infrastructure manager. Costs or cost centres that are not directly linked to the provision of the minimum access package or to access to infrastructure connecting service facilities;*
    c. *costs of acquisition, selling, dismantling, decontamination, recultivation or renting of land or other fixed assets;*
    d. *network-wide overhead costs, including overhead salaries and pensions;*
    e. *financing costs;*
    f. *costs related to technological progress or obsolescence;*
    g. *costs of intangible assets;*
    h. *costs of track-side sensors, track-side communication equipment and signalling equipment if not directly incurred by operation of the train service;*
    i. *costs of information, non-track side located communication equipment or telecommunication equipment;*
    j. *costs related to individual incidences of force majeure, accidents and service disruptions without prejudice to Article 35 of Directive 2012/34/EU;*
    k. *costs of electric supply equipment for traction current if not directly incurred by operation of the train service. Direct costs of operation of the train services that do not use electric supply equipment shall not include costs of using electric supply equipment;*

l. costs related to the provision of information mentioned under item 1(f) of Annex II to Directive 2012/34/EU, unless incurred by operation of the train service;
m. administrative costs incurred by schemes of differentiated charges referred to in Articles 31(5) and 32(4) of Directive 2012/34/EU;
n. depreciation which is not determined on the basis of real wear and tear of infrastructure due to the train service operation;
o. the part of the costs of maintenance and renewal of civil infrastructure that is not directly incurred by operation of the train service.

2. If the infrastructure manager received funding to finance specific infrastructure investments, which it is not obliged to repay and where such investments are taken into account in the calculation of direct costs, the costs of such investments shall not increase the level of charges without prejudice to Article 32 of Directive 2012/34/EU.

3. Costs excluded from calculation by virtue of this Article shall be measured or forecast on the basis of the time period referred to in Article 3(5).

In the non-eligible costs, the Finnish Transport Infrastructure Agency follows the procedure described in subsection 4.1 so that it can be ensured that non-eligible cost items are not included in the infrastructure charge.

3 Method of determining the basic infrastructure charge and the source data

3.1 General description

A dataset has been prepared to calculate the basic infrastructure charge and it describes the railway network of the Finnish Transport Infrastructure Agency as well as the railway operations and infrastructure management on the network. The dataset contains the following data:

- features of the railway network by line section,
- annual transport performance by line section, and
- annual cost of rail infrastructure management (maintenance and replacement investments) allocated to line sections considering the legal framework related to the cost assessment.

The determination of the basic infrastructure charge is primarily based on the *econometric cost modelling* described in Article 6 of the Commission Implementing Regulation (2015/909) (section 4.2.1 of this appendix)), while the additional charge for using electric supply equipment is determined on the basis of the subtraction method described in Article 3 of the Commission Implementing Regulation. Econometric modelling of the dataset has been used to examine the ratio of costs by line section to the amount of infrastructure and the transport performance on the line sections. Costs that do not include the infrastructure management costs incurred from the use of electric supply equipment have been determined on the basis of econometric modelling. This gives the costs generated by the transport performance of train traffic (basic component of the basic infrastructure charge; cents/gross tonne-kilometre). An additional charge is levied on the use of electric supply equipment and this charge is added to the basic component of the basic infrastructure charge.

The additional charge levied on the use of electric supply equipment is collected on all electrically hauled stock. The additional charge has been determined using the calculation method laid down in Article 3 of the Commission Implementing Regulation (section 4.2.2 of this appendix). In this method, expert evaluation has been used to separate the network-wide costs of infrastructure management of the electrified rail network from the infrastructure costs directly incurred from rail traffic operations and these costs have been divided by the kilometres operated in rail traffic using electric supply equipment.

3.2 Feature data of the railway network and scope of the study

The dataset used for the calculations includes the following feature data of the railway network:

- division of the railway network into line sections,
- line length of the line section,
- track length of the line section,
- multi-rail line sections and
- electrification.

The feature data was compiled for 108 line sections from the Network Statement and the Railway Information Extranet. The calculation data covers the entire length of the railway network managed by the Finnish Transport Infrastructure

Agency (excluding railway yards and a small number of short sidings). In 2020, the length of the Finnish railway network was 5645 km.

3.3 Transport performance data

The dataset includes the annual statistical data on the kilometres operated by line section in gross tonnes (total weight of rolling stock and cargo). The figures for the period 2013–2016 are from the traffic information system of VR and for the period 2017–2019 from the infrastructure manager's traffic information system.

3.4 Cost information

The data on total infrastructure management costs as regards the basic component and the additional charge for using electric supply equipment are from the Finnish Transport Infrastructure Agency's cost calculation system and it covers the period 2013–2019. The total infrastructure management costs have been grouped by cost category (see section 4.1.1). The costs incurred from the use of the minimum access package have been identified and the non-eligible costs listed in Article 4 have been excluded (see section 4.1.2). To determine the basic component of the basic infrastructure charge, the following items have been identified from the remaining data: cost of maintaining line sections and replacement investments, which serve as the source data for the econometric modelling. The modelling produces the direct unit costs generated by train traffic.

The datasets of the basic component of the basic infrastructure charge contain the following maintenance costs allocated to line sections each year:

- superstructure maintenance
- maintenance of turnouts and turnout heating,
- maintenance of trackside equipment and devices
- bridge maintenance
- maintenance of substructure, foundation structure and railway areas
- maintenance of train control systems and safety installations, and
- maintenance material, such as rails, sleepers and ballast as well as materials related to equipment and instruments.

The dataset of the basic component of the basic infrastructure charge contains the following replacement investment costs allocated to line sections each year:

- renewal and cleaning of superstructure, such as the ballast bed,
- renewal of rails, sleepers, overhead wires and supporting lines,
- renewal and repair of turnouts,
- grinding of rails and switches, and
- such material as rails, sleepers and ballast and other structural material.

To determine the additional charge of the basic infrastructure charge based on the use of electric supply equipment, the cost of infrastructure management of the electrified railway network and the infrastructure costs directly incurred from traffic identified by experts have been retrieved from the dataset. The costs have been divided by the transport performance generated using electric supply equipment, which has resulted in the additional charge for the train traffic using electric supply equipment.

The costs related to electric supply equipment have been grouped in the following categories and subcategories:

- electrotechnical bridge maintenance
- maintenance, renewal and inspections of electric railway systems and substations
- maintenance of high-tension track equipment, 110 kV systems, lighting, heating stations and transformers
- maintenance of other special track systems
- separately contracted maintenance work for the electrified railway network; changes of overhead wires and supporting lines, changes of hangers, changes of phase breaks, changes of section insulators, changes of disconnectors and their anchor arms, changes of circuit breakers and disconnectors at feeder stations, basic overhead line maintenance and
- materials: overhead wires and supporting lines, hanger materials, phase breaks, section insulators, circuit breakers, disconnectors and anchor arms.

To determine the costs of using electric supply equipment, experts have estimated the dependence between costs and traffic for each of these categories. The estimates are given as dependence between 0% and 100%. An independent report based on interviews with experts has been drawn up on the dependencies and published in the FTIA publication series.[2]

[2] Costs of operating the power supply system resulting from train traffic. FTIA publications 59/2020

4 Calculations and basic infrastructure charges

4.1 Infrastructure management costs incurred by the Finnish Transport Infrastructure Agency

To verify the costs eligible for the infrastructure charge calculations and directly incurred from traffic, a compilation and breakdown of the total costs of infrastructure management have been produced. This sub-chapter describes how the costs used in the minimum access package and further in the econometric cost modelling have been calculated on the basis of the total infrastructure management costs by subtracting the non-eligible costs (section 4.1.2) from the minimum access package costs (section 4.1.1).

The infrastructure management costs incurred by the Finnish Transport Infrastructure Agency have been entered in the agency's Sampo cost management system, which is based on the Kieku ERP system of central government. The infrastructure management costs have been retrieved from the Sampo cost management system and entered on the following on-budget accounts:

- 3110202 Railway infrastructure management
- 3110205 Traffic control service charge
- 3110772xxx Railway network development investments
- 3110774xxx Other major development investments (including railway network development investments)
- 3110775xxx Planning of development investments (including railway network development investments)

The total infrastructure management costs incurred by the Finnish Transport Infrastructure Agency for each year (2013–2019) and by cost category (18 categories) are presented in Table 1. The categorisation of costs is based on a review carried out on the most detailed cost management system level (payment item).

Table 1. Infrastructure management costs incurred by the Finnish Transport Infrastructure Agency in the period 2013–2019 (EUR million) (Source: Sampo cost management system). The abbreviation MAP means the costs incurred from the minimum access package.

Categories/years	*2013*	*2014*	*2015*	*2016*	*2017*	*2018*	*2019*
Replacement investments (MAP)	106.530	89.864	57.767	75.552	93.302	162.801	91.262
Replacement investments (other)	18.250	25.647	30.252	52.191	45.751	50.262	49.699
Maintenance costs (MAP)	134.066	134.517	138.615	140.255	154.839	148.192	156.337
Maintenance costs (other)	14.383	8.201	5.862	7.510	7.693	7.043	11.082
Electric supply equipment costs (MAP)	15.170	19.997	19.342	19.947	20.980	19.500	19.149
Electric supply equipment costs (other)	3.198	2.822	2.097	1.931	1.850	0.258	0.711
Costs of using filtering equipment of electrical disturbances (MAP)	0	0	0	0	0	0	0
Electricity transmission service	10.241	9.852	9.522	9.998	10.641	11.007	9.660
Development investments	282.765	280.128	201.230	210.946	141.771	87.123	107.177
Train traffic control costs (MAP + other)	48.690	51.816	56.302	54.880	51.430	53.760	82.221
Information systems	4.232	5.617	5.768	6.962	10.116	11.463	8.832
Data communications	14.897	15.389	15.326	16.852	21.518	21.035	16.650
Supervision	4.553	4.956	4.991	4.663	4.492	4.861	5.047
Property management	4.713	5.353	5.547	4.725	4.515	4.313	4.100
Rail Training Centre	0.000	0.000	0.404	3.708	9.172	1.894	1.014
Contaminated land areas and environmental management	0.850	0.475	0.455	0.373	0.309	0.393	0.359
Clearing of accident sites and rescue services	4.073	3.176	5.156	6.128	7.468	7.923	4.397
Reports and R&D	1.729	3.331	2.425	2.722	4.058	3.750	4.531
Administrative costs	5.096	4.690	5.836	6.280	6.957	7.649	6.793
TOTAL	***673.436***	***665.831***	***566.896***	***625.620***	***596.863***	***603.228***	***579.021***

4.1.1 Costs incurred from minimum access package

The infrastructure management costs and the minimum access package (MAP[3]) costs incurred by the Finnish Transport Infrastructure Agency have been itemised to calculate the basic infrastructure charge. Only the costs incurred from the minimum access package (MAP) have been considered in the calculation of the basic infrastructure charge.

Cost incurred from the minimum access package:

- ***Replacement investments (MAP)*** comprise the costs incurred from the renovation of line sections, safety installations and platforms. Replacement investments (other) comprise the other replacement investments.
- ***Maintenance costs (MAP)*** comprise the costs incurred from the maintenance of line sections, safety installations and platforms and from separately contracted line section maintenance (YPI and RHET). Maintenance costs (other) comprise the other maintenance costs.

[3]The English abbreviation MAP is used for the Minimum Access Package.

- ***Electric supply equipment costs (MAP)*** comprise the costs incurred from the replacement of electric supply equipment, and the maintenance of the electric supply equipment, overhead wires and supporting lines, and the maintenance of turnouts and control equipment on the line sections with electric supply equipment. Electric supply equipment costs (other) comprise the other electric supply equipment costs.
- ***Costs of using filtering equipment of electrical disturbances (MAP).***
- ***Train traffic control costs (MAP + other)*** comprise the costs incurred from traffic control, traffic control centres and control rooms, capacity management and system maintenance. In addition to the minimum access package costs, train traffic control costs also include other costs, such as systems development and training. The costs incurred from train traffic control are not included in the infrastructure charge.

Table 2. Minimum access package costs in the period 2013–2019 (EUR million) (Source: Sampo cost management system) Train traffic control costs also include non-MAP costs and thus they are not included in the total amounts.

Categories/years	*2013*	*2014*	*2015*	*2016*	*2017*	*2018*	*2019*
Replacement investments (MAP)	106.530	89.864	57.767	75.552	93.302	162.801	91.262
Maintenance costs (MAP)	134.066	134.517	138.615	140.255	154.839	148.192	156.337
Electric supply equipment costs (MAP)	15.170	19.997	19.342	19.947	20.980	19.500	19.149
Costs of using filtering equipment of electrical disturbances (MAP)	0	0	0	0	0	0	0
Train traffic control costs (MAP + other)	48.690	51.816	56.302	54.880	51.430	53.760	82.221
TOTAL (excl. train traffic control)	***255.766***	***244.378***	***215.724***	***235.754***	***269.121***	***330.493***	***266.748***

Costs of using filtering equipment of electrical disturbances became payable by the Finnish Transport Infrastructure Agency at the beginning of 2020. In 2020, these costs amounted to EUR 2,966,849.

4.1.2 Non-eligible costs

This section describes how non-eligible costs have been separated from total infrastructure management costs (Article 4 of the Commission Implementing Regulation).

The following costs specified in Article 4 are not included in the infrastructure management cost data:

Table 3. Costs specified in Article 4(1) that are not included in the infrastructure management costs of the Finnish Transport Infrastructure Agency.

Costs specified in Article 4	***Explanation***
d) network-wide overhead costs, including overhead salaries and pensions.	The network-wide overhead costs are paid from the operating expenditure of the Finnish Transport Infrastructure Agency and they are not included in the total infrastructure management costs examined in this appendix.
e) financing costs.	Financing costs of the on-budget appropriations are not considered in the accounts of the Finnish Transport Infrastructure Agency. The Finnish Transport Infrastructure Agency only collects financing for infrastructure management through infrastructure charges, which do not involve financing costs.
f) Costs related to technological progress or obsolescence.	The cost data does not include costs related to technological progress or obsolescence. These costs refer to write-downs that may have to be made when assets that have not yet reached the end of their useful life in terms of accounting are replaced.
l) Costs related to the provision of information mentioned under item 1(f) of Annex II to Directive 2012/34/EU, unless incurred by operation of the train service.	Costs related to the provision of information are paid from the operating expenditure of the Finnish Transport Infrastructure Agency and they are not included in the total infrastructure management cost data examined in this appendix.
m) Administrative costs incurred by schemes of differentiated charges referred to in Articles 31(5) and 32(4) of Directive 2012/34/EU.	The system of infrastructure charges does not include cost impact mechanisms referred to in the regulation, which means that the total infrastructure management cost data examined in this appendix does not include administrative costs of this type.
n) Depreciation which is not determined on the basis of real wear and tear of infrastructure due to the train service operation.	The Finnish Transport Infrastructure Agency receives its funding from the State Budget and thus it does not make any depreciation in its accounts. The agency publishes annual financial statements, in which the depreciation is estimated on the basis of commercial accounting methods.

The infrastructure management data contains the following non-eligible costs referred to in Article 4 of the Commission Implementing Regulation (references to categories in Table 1 (p. 13) are shown in bold and in italics):

Table 4. Costs specified in Article 4(1) that are included in the infrastructure management costs of the Finnish Transport Infrastructure Agency in full or in part.

Costs specified in Article 4	***Explanation***
(a) Fixed costs relating to the provision of a stretch of line which the infrastructure manager must bear even in the absence of train movements.	***Maintenance costs (MAP)*** and ***Replacement investments (MAP)*** include the costs incurred from the minimum access package, which include both fixed and variable costs. The fixed costs related to a line section do not depend on the volume of train traffic and they are not included in the infrastructure charge in econometric modelling.
(b) Costs that do not relate to payments made by the infrastructure manager. Costs or cost centres that are not related to the provision of the minimum access package or the right to access the infrastructure connecting service facilities.	The cost data only includes charges paid by the Finnish Transport Infrastructure Agency. ***Replacement investments (other), Maintenance costs (other) and Electric supply equipment costs (other)*** include railway yard costs and they are not considered in the infrastructure charge calculations.
c) Costs of acquisition, selling, dismantling, decontamination, recultivation or renting of land or other fixed assets.	As a rule, these cost items are not included in the infrastructure management costs. Costs items included in the infrastructure managements costs have been excluded from the cost data.
g) Costs of intangible assets.	**Information systems** containing software licences are not considered as costs in the infrastructure charge calculations. The Finnish Transport Infrastructure Agency does not have any other intangible assets related to infrastructure management.
h) Costs of track-side sensors, track-side communication equipment and signalling equipment if not directly incurred by operation of the train service.	These costs are included in the following categories: ***Replacement investments (MAP)*** and ***Maintenance investments (MAP)***. Costs that do not directly arise from railway operations are not considered in the econometric modelling.
I) Costs of information, non-track side located communication equipment or telecommunication equipment.	These costs are included in the following categories: ***Replacement investments (MAP)*** and ***Maintenance investments (MAP)***. Costs that do not directly arise from railway operations are not considered in the econometric modelling.
j) Costs related to individual incidences of force majeure, accidents and service disruptions without prejudice to Article 35 of Directive 2012/34/EU.	***Clearing of accident sites and rescue services*** and ***Contaminated land areas and environmental management***, which include damage-related costs are not considered in the infrastructure charge calculations.

Costs specified in Article 4	***Explanation***
k) Costs of electric supply equipment for traction current if not directly incurred by operation of the train service. Direct costs of operation of the train services that do not use electric supply equipment shall not include costs of using electric supply equipment.	The electric supply equipment costs are divided into two categories: ***Electric supply equipment costs (MAP)*** and ***Electric supply equipment costs (other)***, which have both been excluded from the calculations producing the basic component of the basic infrastructure charge. The cost of infrastructure management of the electrified railway network directly incurred from railway operations are estimated by experts on the basis of a detailed cost itemisation and allocated to train traffic using electric supply equipment.
o) The part of the costs of maintenance and renewal of civil infrastructure that is not directly incurred by operation of the train service.	***Maintenance costs (other)*** are not considered in the infrastructure charge calculations.

The interpretation is that Article 4(2) of the Commission Implementing Regulation applies to such projects of the Finnish Transport Infrastructure Agency that are funded from the TENT-T scheme. These are ***development investments***, which are not considered in the basic infrastructure charge calculations.

In addition to the non-eligible costs specified in Article 4, the following cost categories are also excluded from the infrastructure charge calculations for 2023: ***Data communications***, ***Supervision***, ***Property management***, ***Rail Training Centre***, ***Reports and R&D*** and ***Administrative costs***. In addition, the **electricity transmission service** is a cost that is not included in the infrastructure charge calculation.

4.2 Determining the basic infrastructure charge

The following costs incurred from the minimum access package and referred to in section 4.1.1 from which the non-eligible costs referred to in section 4.1.2 have been subtracted are considered in the calculation of the basic infrastructure charge for 2023:

- Replacement investments (MAP) that comprise the costs allocated to line sections and that have been capitalised in the line section balance sheet of the on-budget account 3110202 (Railway infrastructure management).
- The part of the maintenance costs (MAP) that can be allocated to line sections on the basis of a questionnaire survey carried out among railway network maintenance managers.
- Electric supply equipment costs (MAP) that can be allocated to the cost categories listed in section 3.4.

Replacement investments and maintenance costs are processed using econometric modelling (Article 6 of the Commission Implementing Regulation) and the costs for the use of electric supply equipment using the subtraction method (Article 3 of the Regulation).

Train traffic control costs (MAP) are not considered in the infrastructure charge calculations for 2023 because their dependence from train traffic has not yet been determined.

Econometric modelling takes into account the dependence between the examined costs and traffic volumes so that the non-traffic costs or fixed costs do not impact the level of basic infrastructure charges. Paragraphs a, h and i of Article 4 (Non-eligible costs) are considered on this basis.

Econometric modelling requires that replacement investments and maintenance costs are allocated to specific line sections. The allocation is based on the payment item-level entries in the cost management system specifying a line section. Example:

> On-budget account: 3110202 Railway infrastructure management, TA1
> Project: RTHH-49 RO 1105 Huopalahti-Vantaankoski renovation, H
> Project: RTPP-49 RO 1105 HUOPALAHTI-VANTAANKOSKI, P
> Measure: PR00011594 RO 1105 Hpl-Vks superstructure and bridge repairs, TP, v
> Payment item: L00000K0L IR132183A13 RO 1105 Renovation of ground supports and vaults on the Louhela station bridge, M, v
> Line section: RO 1105
> Year: 2013
> Category: Replacement investments (MAP)
> Specific category: Replacement investments line sections

There are few differences between the division into line sections used in infrastructure management cost data and in transport performance data. Some of the maintenance and replacement investment cost data entered for longer line sections have been allocated to the line section division in relation to line kilometres in an imputed manner. The cost allocation table can be viewed on the infrastructure charge website.[4]

According to expert estimates and maintenance tenders, turnout heating accounts for between 18% and 20% of the electric supply equipment costs. The figure 20% is used in the calculation of infrastructure charges. Turnout heating costs are divided between line sections in accordance with the number of heated turnouts.

4.2.1 Basic component of the basic infrastructure charge

Using the datasets described above, the Finnish Transport Infrastructure Agency has prepared a modelling to determine the basic component of the basic infrastructure charge. The datasets cover the period 2013–2019. In the modelling, a cost function has been determined on the basis of a linear regression analysis, in which the costs (maintenance and replacement investments by line section) are used as the explanatory variable, and transport performance (gross tonnes by line section) and track kilometres (by line section) are used as independent variables.

The dataset has been compiled by adding up the costs and transport performance during a period of seven years (2013–2019). By combining datasets of several years, the impacts of replacement investments can be divided equally over the period in review. The calculation method was selected on the basis of a thesis on the topic produced for the Finnish Transport Infrastructure Agency.[5]

The following function is used as the cost function:

[4] Finnish Transport Infrastructure Agency infrastructure charges website: https://vayla.fi/palveluntuottajat/ammattiliikenne-raiteilla/rataverkon-kaytto/ratamaksu

[5] Review of the econometric modelling of the marginal cost of using railway infrastructure. Finnish Transport Infrastructure Agency. Thesis 8/2020.

$ln\, C_i = \alpha + \beta_{track\_km}\, ln\, track\_km_i + \beta_{gr\_tn}\, ln\, gr\_tn_i + \epsilon_i$, in which

C_i means infrastructure management costs on line section *i*
α, β_{track_km} and β_{gr_tn} are the estimated coefficients of the model
$track\_km_i$ means total track length on line section *i* (length of the line section x number of tracks on the line section)
gr_tn_i transport performance on line section *i* in gross tonnes
ϵ_i error term of the costs of line section *i* , which is the difference between econometric modelling and actual cost.

In this calculation, track length is the length of line sections multiplied by the number of tracks on each line section (same number of tracks along the entire length of the line section). Transport performance on a line section means the transported gross tonne volume during the period in review, which includes the total weight of the train (including cargo).

The marginal cost of traffic has been estimated from the dataset by constructing a cost function, which examines the ratio of transport performance on each line section (gross tonnes) and track length to costs on all line sections. In addition to turnout heating, no other electric supply equipment costs have been included in the examination.

Model estimation was carried out on the basis of the R computing software. Coefficients of the estimated model (cost function) and the explanation rates are shown in Table 5.[6]

Table 5. Coefficients and key figures of the estimated cost function.

N	Explanation rate	Model coefficients			Standard error
	R^2	standard α	Transport performance β_{brt}	Track length β_{rd_km}	
108	0.5998	8.910	0.2452	0.7240	0.6716

The results of the cost function estimation (incl. key figures) as well as the statistical tests carried out on the modellings are presented in Appendix 1.

The marginal cost (the cost directly resulting from an individual train service performance) has been calculated using partial derivation of the cost function with respect to the service performance. The resulting marginal cost function indicates how much the infrastructure management costs examined change as a result of one additional train service performance (gross tonne-kilometre).
The marginal cost (MC) is presented as follows[7]:

[6] The modelling has been made using the ordinary least squares method. Reports produced by the Finnish Transport Agency and the Finnish Rail Administration also present comparisons on the suitability of other methods.
[7] On formula derivation, see for example *Munduch, Gerhard & Pfister, Alexander & Sägner, Leopold & Stiassny, Alfred. (2002). Estimating Marginal Costs for the Austrian Railway System. Vienna University of Economics, Department of Economics, Department of Economics Working Papers.*

$MC_i = \beta_{gr\_tn} \frac{e^{\alpha + \beta_{track\_km} \ln track\_km_i + \beta_{gr\_tn} \ln gr\_tn_i + \frac{\sigma^2}{2}}}{gr\_tn_i \; line\_km_i}$, in which

σ^2 is the estimate of the model error term variance.

The marginal cost has been estimated separately for each line section contained in the dataset. Due to substantial differences in track length, transport performance and costs between line sections, there is also substantial variation in marginal costs between line sections.

The marginal cost (MC) determined for the pricing of the basic infrastructure charge has been calculated by weighting the marginal costs for each line section by the volume of the service performance on the line sections as follows:

$$MC = \frac{\sum brtkm_i \; MC_i}{\sum brtkm_i}$$

The marginal cost determined using econometric modelling (The basic component charged for all traffic performance is 0.1341 cents/gross tonne-kilometre, as adjusted on the basis of the 2020 cost index.

The infrastructure charge has been calculated using the R programming language and the calculation code is described in Appendix 2.

4.2.2 Additional charge for the use of electric supply equipment

The additional charge levied on the use of electric supply equipment has been determined using the method laid down in Article 3 of the Commission Implementing Regulation. In this method, expert evaluation has been used to separate the network-wide separate costs of infrastructure management of the electrified rail network from the infrastructure costs directly incurred from rail traffic operations and these costs have been divided by the kilometres operated in rail traffic using electric supply equipment. The proportion of direct costs is based on the view of ten independent experts on the dependencies between component wear and tear and railway traffic. The report on the topichas been published in the FTIA publication series[8].

The average annual costs of infrastructure management of the electrified rail network in the period 2014–2019 are presented below. The information is based on the classification used by the Finnish Transport Infrastructure Agency in its cost monitoring and estimates of the proportion of the costs directly resulting from rail traffic are also given. The cost dataset of infrastructure management of the electrified rail network in 2013 is not fully comparable with the figures for subsequent years and for this reason it is not included in the data used in the calculations. The figures presented below are index-adjusted to 2020 price level.

Electrotechnical maintenance of bridges consists of periodical earthing inspections carried out independently of railway traffic. These costs averaged EUR 0.254 million/year in the period 2014–2019 and 0% of them (EUR 0 million/year) were costs directly resulting from rail traffic.

[8] Costs of operating the power supply system resulting from train traffic. FTIA publications 59/2020

Maintenance of the electrified railway system consists of the work carried out as part of annual maintenance contracts and separately contracted work. Work carried out as part of the maintenance contracts consists of inspections to ensure network safety and accessibility and the work is not related to transport performance (70%). Costs directly resulting from traffic include maintenance costs for section insulators, phase breaks and overhead lines of scissor crossings (30%), 10% of which are estimated to be due to replacement investments made before the end of the life cycle. Annual costs averaged EUR 3.989 million in the period 2014–2019 and 27% of these costs (EUR 1.077 million/year) were costs directly resulting from rail traffic. The separately contracted work consists of inspections and other work carried out to ensure the safety and accessibility of the rail network and the work does not include costs that are directly related to traffic. Separately contracted work averaged EUR 0.239 million/year in the period 2014–2019 and 0% (EUR 0/year) of this was work directly resulting from traffic.

Maintenance of high-tension equipment consists of work carried out as part of annual maintenance contracts and separately contracted work. Annual costs averaged EUR 2.699 million in the period 2014–2019 and none of these costs are allocated to the additional charge of the basic infrastructure charge payable by traffic using electric supply equipment. Separately contracted work comprises maintenance of 110 kV systems, lighting, heating stations and transformers. According to the report, these costs are not traffic-related. Separately contracted work averaged EUR 1.585 million/year in the period 2014–2019.

Separately contracted electrified railway maintenance work comprises the work carried out as part of annual maintenance contracts and separate work. Separately contracted electrified railway maintenance work consists of changes of overhead wires and supporting lines, changes of hangers, changes of phase breaks, changes of section insulators, changes of disconnectors and their anchor arms, changes of circuit breakers and disconnectors at feeder stations, basic overhead line maintenance and hangers. An expert assessment of to what extent these maintenance costs are traffic-related is given in Table 3 below.

Table 6. Traffic-related nature of separately contracted electrical maintenance work.

Cost category	***To what extent is the work traffic-related***	***Reason***
Overhead wires	90 %	Direct physical contact, contact force, vibration
Hangers	90 %	Vibration of the overhead line caused by traffic, 10% acceleration and vibration caused by wind
Phase breaks	85 %	Direct physical contact, contact force, vibration
Section insulators	95 %	Direct physical contact, contact force, vibration
Disconnectors and their anchor arms	10 %	The operating current of the rolling stock causes the disconnectors and their anchor arms to wear
Circuit breakers and disconnectors at feeder stations.	20 %	The operating current of the rolling stock causes circuit breakers and disconnectors to wear
Basic overhead line maintenance	0 %	Is not traffic-related
Hangers	5 %	Vibration of the overhead line system caused by traffic
Transformers	50 %	Operating current of the rolling stock causes transformers to wear.

Annual costs of maintenance contract work averaged EUR 2.044 million in the period 2014–2019 and EUR 0.907 million/year of these costs were costs resulting from rail traffic. Annual costs of separately contracted work averaged EUR 2.322 million in the period 2014-2019 and EUR 0.875 million of these costs were costs resulting from rail traffic.

Replacement of overhead wires and supporting lines is separated from other electrical maintenance in the cost accounting of the Finnish Transport Infrastructure Agency. Annual costs of replacing overhead wires averaged EUR 0.567 million in the period 2014–2019 and 90% of these costs (EUR 0.510 million/year) were costs directly resulting from rail traffic. Annual costs of replacing supporting lines averaged EUR 1.150 million and 5% of these costs (EUR 0.058 million/year) were costs directly resulting from rail traffic.

Material costs are divided into material costs related to annual maintenance contracts and material costs related to separate work. The material costs of maintenance contracts consist of the same components as separately contracted electrical maintenance work. These costs averaged EUR 0.194 million/year in the period 2014–2019 and 44% of them (EUR 0.086 million/year) were costs directly resulting from rail traffic. Material costs related to separate work comprise materials of heating stations and they do not directly result from traffic. These costs averaged EUR 0.178 million/year in the period 2014–2019 and 0% of them (EUR 0 million/year) were costs directly resulting from rail traffic.

Maintenance of other special trackside systems and other work comprises inspection costs that do not directly result from train traffic. These costs averaged EUR 0.476 million/year in the period 2014–2019 and 0% of them (EUR 0 million/year) were costs directly resulting from rail traffic.

Electrified railway infrastructure management costs totalled EUR 15.742 million/year and EUR 3.525 million/year of them were costs directly resulting from rail traffic.

The transport performance of traffic using electric supply equipment averaged 27,279 million gross tonne-kilometres in the period 2014–2019.

When the sum of the electrified railway infrastructure management costs directly resulting from traffic (EUR 3.525 million/year) is divided by transport performance (27,279 million gross-tonne km), the additional charge for the use of electric supply equipment is 0.0129 cents/gross tonne-kilometre (2020 price level). This figure is the additional charge for the traffic using electric supply equipment/transport performance.

4.3 Unit values of basic infrastructure charge

The Finnish Transport Infrastructure Agency uses an index method taking into account changes in the cost of infrastructure maintenance when adjusting the basic infrastructure charge. The charges are linked to the point figure 114.72 (annual average for 2020) of the sub-index '*Railway maintenance*' of Statistics Finland's cost index of civil engineering works (2010 = 100). The Finnish Transport

Infrastructure Agency uses the annual rates of changes for the index-based adjustment of the charges.

Considering the research results described in this appendix and the above-mentioned preconditions for determining the charges, the basic infrastructure charge will be levied in the period 1 January–31 December 2023 as follows:

- Based on the econometric modelling described in chapter 4.2.1 and as adjusted with the 2020 index, the basic component of the basic infrastructure charge levied on all railway transport performance is 0.1341 cents/gross tonne-kilometre.
- Based on the modelling described in chapter 4.2.2 and as adjusted with the 2020 index, the additional charge for the use of electric supply equipment on all electrically hauled railway transport performance is 0.0129 cents/gross tonne-kilometre.

5 Evaluation of the results

5.1 Evaluating the basic component of the basic infrastructure charge

The results of econometric modelling can only be interpreted if the assumptions given in the modelling are met. The linear regression model used in modelling must meet five Gauss-Markov theorem standard assumptions, so that the model is the most effective and accurate linear estimator (BLUE, best linear unbiased estimator) for the phenomenon being examined. In addition, if the model's error terms are normal, BLUE can be found using the smallest sum of squares method. The assumptions are:

1. explanatory values are independent and fixed, i.e. non-random constants
2. explainers have no linear dependencies
3. all error terms have the same expected value
4. all error terms have the same variance
5. error terms do not correlate with each other
6. error terms are normally distributed

Condition 5 only applies to series data, e.g. time series. Line section cross-section materials cannot be arranged as a series, so condition 5 cannot be applied.

Conditions 1 to 4 and 6 are met with the drawn up model. The tests related to the modelling are described in Appendix 2.

The explanation rate of the econometric model determining the basic component of the basic infrastructure charge is 0.5998. The explanation rate states to what extent the infrastructure management costs can be attributed to performance (gross tonne-kilometres and length of line sections). The model is estimated to have a high explanation rate.

5.2 Evaluation of the additional charge for the use of electric supply equipment

Determining the electric supply equipment costs directly resulting from traffic is based on a detailed classification of the cost of electrified railway infrastructure management and detailed and documented interviews with ten experts. The views of these experts reinforce the earlier view that most of the direct costs resulting from the use of electric supply equipment are related to the equipment and components that are in directly contact with the rolling stock. The main differences in the views among the experts were related to factors affected by regional weather conditions.

The international comparison of network statements has not yet provided methodological support or comparative information to determine the additional charge for the use of electric supply equipment. The calculation method used in Finland is similar to the method used in France, which, like the Finnish system, is based on the classification of costs and the percentage-based assessment of the manner in which the cost depend on train traffic. In international comparisons, the difference between the charges paid by traffic using electric supply equipment and other traffic is small in Finland.

Appendix 1. Results of cost function estimation

Modelling result:

```
Coefficients:
 Estimate Std. Error t value Pr(>|t|)
(Intercept) 8.91007 0.66304 13.438 < 2e-16 ***
ln_brt 0.24523 0.03802 6.450 3.50e-09 ***
ln_rd_km 0.72405 0.07477 9.684 3.14e-16 ***
---
Signif. codes: 0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.6716 on 105 degrees of freedom
Multiple R-squared: 0.5998,         Adjusted       R-squared:
0.5922
F-statistic: 78.68 on 2 and 105 DF, p-value: < 2.2e-16
```

The model parameters differ significantly from zero. Explanation rate of the model is 0.5998.

Checking heteroscedasticity:

```
Studentized Breusch-Pagan test

BP = 0.27185, df = 2, p-value = 0.8729
```

As the test statistics (BP) are less than 4.99, there is no heteroscedasticity in the dataset.

Variance analysis (ANOVA):

```
Analysis of Variance Table

Response: ln_eur
 Df Sum Sq Mean Sq F value Pr(>F)
ln_brt 1 28.680 28.680 63.577 2.001e-12 ***
ln_rd_km 1 42.306 42.306 93.783 3.137e-16 ***
Residuals 105 47.366 0.451
Signif. codes: 0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

Both independent variables of the model explain a large proportion of the modelled variation.

Normal distribution of residual (error) term:

```
Jarque-Bera-test

X-squared = 1.891834
```

As the X-squared is less than 4.99, the residual terms of the dataset are distributed in a normal manner.

Multi-collinearity of explanatory variables

```
Variable Inflation Factors (VIF)
ln_brt ln_rd_km
1.022454 1.022454
```

There is no limit value defined for the VIF estimate for explanatory variables. The VIF value is defined by variable pair VIF = 1 / (1 - R^2). If the VIF value is greater than five, the explanatory variables are considered too multiple-collinear. Based on the test, the variables explaining the model do not have multi-collinearity.

Appendix 2. Calculation code

```
library(tidyverse)
library(lmtest)
library(readr)
library(tseries)
library(caret)

rm(list = ls(all.names = TRUE))

data <- read_delim("lähtödata.csv", ";", escape_double = FALSE, locale = locale(decimal_mark = ",", grouping_mark = " "), trim_ws = TRUE)

mallidata <- data %>% select(rd_km, rt_km, brt_yht, eur_yht, vuosi) %>%
 mutate(ln_brt = (log(brt_yht)), ln_eur = log(eur_yht), ln_rd_km = log(rd_km))
mallidata <- mallidata[mallidata$ln_brt > -Inf, ]
mallidata <- mallidata[mallidata$ln_eur > -Inf, ]

mallinnus <- lm('ln_eur ~ ln_brt + ln_rd_km', data=mallidata)
varianssi <- var(resid(mallinnus))
coeffs <- coef(mallinnus)

mallidata <- mallidata %>%
 mutate(MC = 100 * coeffs[2] * exp(coeffs[1] + coeffs[2] * ln_brt + coeffs[3] * ln_rd_km + 0.5* varianssi) / (brt_yht * rt_km)) %>%
 mutate(wMC = MC*(brt_yht*rt_km))

rajakust = sum(mallidata$wMC)/sum(mallidata$brt_yht*mallidata$rt_km)

summary(mallinnus)
bptest(mallinnus)
anova(mallinnus)
Jarque.bera.test(resid(mallinnus))$statistic
car::vif(mallinnus)
```

Service description: Electricity transmission service

1 General information

1.1 Introduction

This service description specifies the electricity transmission service provided in the state-owned rail network. The service is an additional service referred to in point 3 of Annex II to Directive 2012/34/EU.

1.2 Service manager

Service manager:

Finnish Transport Infrastructure Agency, Track and Rolling Stock Technology
Opastinsilta 12 A, 00520 Helsinki
kirjaamo@vayla.fi

1.3 Validity period and updating process

This document is updated annually in connection with the publication of the Network Statement. If required, changes may also be made on the statement's revision dates during the timetable period.

2 Services

2.1 Electricity transmission service

The infrastructure manager provides the transfer of electricity required for traction current to the railway network and provides the balance management of the contact-line network, which gives the railway operator the basis to acquire its own electric power. Under section 4 of the Government decree (1489/2015), traction current and preheating of passenger carriages are additional services.

3 Service description

3.1 List of service parts

Finland's electrified railway network is described in Appendix 3A to the Network Statement and in the map service.

3.2 Naming the service

3.2.1 Location

The electricity transmission service is provided on the electrified railway network. The electrified tracks at traffic operating points are specified in the track diagram.

3.2.2 Opening hours

The electrified railway network, heating and socket points are accessible on a 24/7 basis. Any temporary voltage cut-offs are indicated in capacity management information systems (LIIKE, JETI).

3.2.3 Technical characteristics

The technical characteristics of the power supply systems are described in the instructions issued by the Finnish Transport Infrastructure Agency (The documents are in Finnish).

3.2.4 Planned changes in technical characteristics

The service will be continuously developed in cooperation with rail operators.

4 Charges

4.1 Information on charges

The transfer costs comprise the transfer fees paid to the grid companies outside the electrified railway network and dissipation in the contact-line network, as well as the measurements, assessment services and balance management related to transmission of electricity in the network.

In September 2021, the Finnish Transport Infrastructure Agency prepared an estimate of the prices of transport services based on the Network Statement for the 2023 timetable period, based on the actual and measured energy consumption of the transfer fees for the previous 12 months. The Finnish Transport Infrastructure Agency charges monthly for the use of the service based on these prices. As the service is invoiced in a cost-proportional manner, the estimated invoicing will be checked in spring 2024 with a compensatory invoice to correspond to the invoicing of network companies, the costs of dissipated energy and EREX costs. The invoiced amount is monitored at access agreement monitoring meetings held during the timetable period.

Electricity transmission price list 1 January 2023–31 December 2023

	Basic fee	**Transfer fee for high-voltage networks**		**Fee for contact-line dissipation**
		Winter months*)	**Other months**	
Unit price	EUR 42/month/traction unit	EUR 10.90/MWh	EUR 6.30/MWh	EUR 42/MWh

*) The winter months are December, January and February.
The currently effective value-added tax is added to the transfer fee for high-voltage networks

and fee for contact-line dissipation.

The transfer fee comprises the basic fee specified for the traction unit, the average transfer fee for high-voltage networks in winter months/other months, and the contact-line dissipation costs.

- The basic fee specified for the traction unit is based on the measurement and reporting services required for the purchase of

  electric power. The basic fee is invoiced based on the estimated total number of the railway operator's electric traction units. The unit price of the basic fee may change if the number of traction units belonging to the Erex system changes.
- The transfer fee for high-voltage networks is based on the transfer fees for the main grid and high-voltage distribution networks. An average transfer fee is used in the whole rail network. A different price is set for the winter months because network services also charge a higher transfer fee in winter.
- The net consumption of the individual consumption targets subtracted from the net consumption of feeder stations equals the contact-line dissipation. The dissipation cost is based on the actual price of electric power purchased by the infrastructure manager in 2023. The price given in the transfer invoicing price list is an estimate of the average price for 2023.

4.2 Information on discounts

No discounts are granted.

5 Access conditions

5.1 Legal requirements

The use and terms of use of electricity transmission service are set out in the network access agreement.

The prerequisite for using the electricity transmission service is a valid contract with an electricity supplier. The use of infrastructure capacity includes the railway operator's right to use the infrastructure manager's electric power supply network for electric stock on the electrified line sections for the purpose of traction current for rolling stock and heating of wagons and for the use of electrical supply equipment. The infrastructure manager does not, however, provide electricity, and the railway operator should enter into an agreement on the supply of power with a service provider.

5.2 Technical conditions

All new or significantly modernised electric traction units must be equipped with an energy measurement system compliant with the requirements for billing according to standard 50463-1…-5 (2017). Data transmission to the Finnish

Transport Infrastructure Agency's measurement and balance management system must comply with part 4 in Standard EN 50463. Data can also be transmitted in a UTILTS message.

For more information on the subject, see section 2.3.9 of the Network Statement and the instructions regarding electricity transmission systems (in Finnish).

6 Capacity allocation

The electricity transmission service is included in the access rights to railway capacity and it is agreed upon in the network access agreement. An estimate of the number of traction units during the timetable period is needed for the access agreement.

Service description: Traffic control service for shunting operations

1 General information

1.1 Introduction

The service description describes the traffic control services supplied by the Finnish Transport Infrastructure Agency to railway operators that are not covered by the basic infrastructure charge but fall within the scope of a separate service charge.

This appendix to the Network Statement and the guidelines issued by the infrastructure manager specify the procedures for traffic control service for shunting operations in Finnish railway yards. The operations and specific features of each traffic operating point must, if necessary, also be described and agreed on in the network access agreement and in the separate railway yard agreements enclosed in the access agreement (chapter 3.3 of the Network Statement). The access agreement's enclosure concerning the traffic control service for shunting operations and railway yard agreements regarding specific traffic operating points may be updated during the agreement period.

The Finnish Transport Infrastructure Agency has prepared this service facility document in compliance with the requirements set in the Commission Implementing Regulation (EU) 2017/2177. In accordance with Appendix II to Directive 2012/34 of the European Parliament and of the Council, the service facility's type is c) marshalling yards and train formation facilities, including shunting facilities.

1.2 Operator of the service facility

Finnish Transport Infrastructure Agency, Infrastructure Access, Opastinsilta 12 A, FI-00520 Helsinki.

The contact details of railway yard contact persons are also available in the Railway Information Extranet of the Finnish Transport Infrastructure Agency at: https://vayla.fi/palveluntuottajat/aineistot/ratatiedon-extranet (in Finnish).

1.3 Validity period and updating process

This document is updated annually in connection with the publication of the Network Statement. If required, minor changes may also be made on the statement's revision dates during the timetable period.

2 Services

2.1 Pricing of the traffic control service for shunting operations

Traffic control in railway yards in shunting (Traffic control service for shunting operations) means the shunting work in railway yards other than that required

for moving on railway lines. It includes formation of rolling stock, coupling of wagons and the need for traffic control arising from shunting locomotives. The following operations are covered by the charge: arrangements necessitated by defective rolling stock (excluding removal of suddenly damaged rolling stock from a train), transferring parts of incoming sets of wagons to other departure tracks or maintenance as well as sorting sets of wagons for service or storage.

3 Service facility description

3.1 List of installations

The traffic control service for shunting operations is provided in the train formation yards of the state-owned railway network. The train formation yards owned by the Finnish Transport Infrastructure Agency are marked with 'Shunting' in Appendix 2B to the Network Statement. The largest train formation yards are located in Tampere and Kouvola and they also provide incline services for train formation. For the service facility description of the train formation yards, see Appendix 7F and the service facility description of the incline services, see Appendix 7G.

3.2 Name of installation

Railway yard tracks are named so that the abbreviation of the traffic operating point comes first, followed by the track number (= track identifier). The track identifiers are shown in the infrastructure capacity management systems and in track diagrams (see also section 5.2).

3.2.1 Location

The locations of traffic operating points in the state-owned railway network are specified in Appendix 2B to the Network Statement and in the map service. The track locations in traffic operating points are specified in track diagrams.

3.2.2 Opening hours

Railway yard tracks are available on a 24/7 basis and can be used as agreed. The service times differing from this rule can be found in the infrastructure capacity management system and in the Railway Information Extranet. The information can also be requested as a list from palveluaika@fintraffic.fi.

3.2.3 Technical characteristics

Traffic control service for shunting in railway yards is primarily the responsibility of traffic controllers of Fintraffic Railway Ltd. However, limited area traffic control (RLO) is in use in a number or railway yards. The Finnish Transport Infrastructure Agency maintains a list of limited area traffic operating points and/or their parts on its website (https://vayla.fi/palveluntuottajat/ammattiliikennerailteilla/rataverkon-kaytto/rajoitetunalueenliikenteenohjaus) (in Finnish). Limited area traffic control supports the actual traffic control work. Limited area traffic control participates in protecting routes and securing track works in its area on the basis of traffic control's orders. Within its area, limited area traffic control may issue permits related to shunting operations. It takes care of turnout operation and the use of safety devices.

3.2.4 Planned changes in technical characteristics

No changes have been planned to technical characteristics.

4 Charges

4.1 Information on charges

The pricing of the traffic control service for shunting that is not included in the infrastructure charge is based on the number of the shunting routes required by railway operators. The traffic control performance is defined as a shunting route in one direction. The time spent by traffic control for safeguarding the routes is specified for each traffic operating point. The price is determined on the basis of the number of performances and the time required for each performance.

Pricing of the traffic control service for shunting operations

- The railway operator must inform the Finnish Transport Infrastructure Agency of its traffic control needs in a mutually agreed manner. The quantity describing the control need is

  determined on a case-by-case basis (for example, shunting route quantity, time, xx).
- The time used for the traffic control performance and the performance quantity are specified/confirmed at least twice a year on the basis of the weekly follow-up carried out by Fintraffic Railway Ltd. The time spent on the autumn follow-up is taken into account in the charges of the following year's first six months (January–June) and the spring follow-up in the charges of the last six months (July–December). The practices of any other follow-up times are set out in the network access agreement.
- A 12% margin is added to the results of the weekly follow-ups in order to ensure availability of the service and flexibility in situations that change daily without having to reserve resources in advance.

The information submitted by the railway operator can be checked/verified on the basis of the weekly follow-ups carried out by Fintraffic Railway Ltd. If there are any changes in traffic control in the railway yard, the performance and invoicing procedure is examined on the basis of the changed situation.

Traffic control during shunting operations in railway yards is a fixed-price service under public law and it is laid down in the Decree of the Ministry of Transport and Communications on the chargeable services of the Finnish Transport Infrastructure Agency. The charge has been set until the end of 2023 and amounts to EUR 70/hour. The Finnish Transport Infrastructure Agency invoices the services on a monthly basis during the agreement period, unless otherwise agreed in the network access agreement.

4.2 Discounts

No discounts are granted.

5 Terms of use

5.1 Legal requirements

The use of the traffic control service for shunting operations must be agreed separately for each timetable period with the Finnish Transport Infrastructure Agency in the network access agreement.

If required, a railway yard agreement is prepared for railway yards used by several railway operators. For more information, see chapter 2.3 of the Network Statement.

5.2 Technical conditions

Track-specific maximum length and axle load of the rolling stock arriving at the service facility as well as the need for diesel traction on each track are given in the track diagrams published in the Railway Information Extranet (in Finnish).

5.3 Self-supply of rail-related services

The Finnish Transport Infrastructure Agency does not provide train formation services except for the protection of routes. Railway operators can carry out train formation operations themselves.

5.4 IT systems

Railway yard tracks can be viewed in the data systems of Fintraffic Railway Ltd, such as the capacity management system LIIKE and its modules. More information about the information systems (in Finnish).

6 Capacity allocation

6.1 Requests for access or services

Traffic control services not covered by the infrastructure charge must be separately agreed on with the Finnish Transport Infrastructure Agency.

The need to use railway yard tracks and the right to use train formation yards are discussed and agreed in the access agreement. The railway operator or another capacity applicant must deliver to the infrastructure manager a free-form estimate of their train formation yard needs at each traffic operating point before the start of access agreement negotiations. The application must also state the applicant's need for traffic control services for shunting operations. Based on the track access requirements reported by the railway operators, the infrastructure manager estimates whether it is necessary to prepare separate railway yard agreements for specific traffic operating points or if other capacity management procedures are required.

If the operation of a railway operator is, during the timetable period, subject to such changes to track requirements that affect the matters agreed upon in the access agreement or its enclosures, the railway operator must contact the infrastructure manager regarding the matter as soon as possible.

Any railway yard-specific operating methods are described in the access agreement's enclosures specific to each traffic operating point (railway yard agreement) with respect to the common management of situational information on tracks.

6.2 Response to requests

Applications concerning train formation yard needs are answered within 30 days from receiving sufficient information for processing the application. Any urgent needs are responded to as soon as possible, but no later than within five working days from receiving all necessary information for processing the application. With respect to processing applications, the contact person for access agreements and railway yard agreements is the person responsible for agreements at Infrastructure Access (see section 1.2).

The priority criteria for operation, granting of permits and track use in railway yards are specified in section 6.2.2 (Congested infrastructure and priority criteria) of the Network Statement. Where necessary, other applicable priority orders may have been agreed upon with respect to specific railway yards in railway yard agreements. In addition to the priority order, the granted route access rights related to the applied services, the capability to use the applied capacity and the valid railway yard agreements are taken into account (Article 11 of Regulation 2017/2177).

The infrastructure manager and the traffic control company as its service provider are responsible for the traffic control at traffic operating points. Limited area traffic control in railway yards is performed by service providers. Detailed information (contact information, procedures and roles regarding the granting of permits) can be found in the Railway Information Extranet (in Finnish) at Liikenteenohjauksen yhteystiedot (Traffic control contact information).

In case of conflicting needs for track use, the aim is to find solutions through negotiations and coordination and, if required, in collaboration with other service facility operators and infrastructure managers. Other viable alternatives, such as an alternative location or time for the formation of rolling stock, may be proposed to the applicant (Article 10 of Regulation 2017/2177).

6.3 Information on available capacity and temporary capacity restrictions

Information on available capacity and temporary capacity restrictions is visible to all operators in the infrastructure capacity management system (LIIKE/SAAGA). In addition, information may be requested from Fintraffic Railway Ltd traffic planning or traffic control.

Service description: Use of buildings and land areas

1 General information

1.1 Introduction

This service description specifies access to and terms of use of buildings and land areas owned by the infrastructure manager of the state-owned railway network. As a rule, the Finnish Transport Infrastructure Agency manages and maintains the ground areas under passenger platforms and the state-owned railway network. The service is an additional service referred to in point 3 of Annex II to Directive 2012/34/EU.

At passenger stations and areas surrounding them, the land ownership varies. In station areas, in addition to the Finnish Transport Infrastructure Agency, the land may be owned by, for example, VR Group Ltd, Senate Station Properties Ltd, local authorities and private owners.

Separate service descriptions have been prepared for the rental of Finnish Transport Infrastructure Agency's passenger station facilities and the use of timber loading facilities.

In general, the maintenance of buildings and land areas belongs to the landowner. However, the exact maintenance area limits vary by area/case.

The Finnish Transport Infrastructure Agency leases or grants access rights to land areas managed by it in so far as it does not endanger traffic or infrastructure management (section 36 of the Railway Act).

1.2 Service manager

Service manager:

Finnish Transport Infrastructure Agency
Property Unit and Railway Maintenance Service Unit
Opastinsilta 12 A
FI-00520 Helsinki
kirjaamo@ftia.fi

1.3 Validity period and updating process

This document is updated annually in connection with the publication of the Network Statement. If required, changes may also be made on the statement's revision dates during the timetable period.

2 Services

2.1 Use of buildings and land areas

The Finnish Transport Infrastructure Agency leases or grants access rights to land areas managed by it in so far as it does not endanger traffic or infrastructure management (section 36 of the Railway Act). In general, the Finnish Transport Infrastructure Agency manages and maintains the land areas under railway platforms and the railways.

3 Description

3.1 List of service parts

No list is published on the buildings and land areas owned by the infrastructure manager of the state-owned railway network. The property boundaries of railway areas can be checked through the open interfaces of the National Land Survey of Finland, such as the www.paikkatietoikkuna.fi service. However he boundaries between state-owned properties in railway areas and rental and right of use area are not yet publicly accessible. When planning operations for a railway area or in its immediate vicinity, the operator must ask the FTIA for the boundary of the area managed by the FTIA.

The land areas of the state-owned rail network are divided into railway areas and loading and maintenance areas for technical equipment rooms and infrastructure management serving their needs. Passenger platforms, park-and-ride areas, access roads to stations and service road connections are also regarded as railway areas. These areas are leased or the right to use them is granted to external operators for very compelling reasons only. However, wires, structures and equipment other than those related to infrastructure management may be placed in these areas upon agreement on access rights and the execution of measures with the infrastructure manager; additional information.

The state-owned railway network also includes areas other than those directly intended for railway operations. These areas are leased to external operators as deemed appropriate.

The Finnish Transport Infrastructure Agency manages only a small proportion of passenger station buildings in Finland, and, in some of them, rents out vacant premises as office and business space. In addition, the Finnish Transport Infrastructure Agency also owns station buildings at stations where the train does not stop. These buildings are used by railway infrastructure management, and these premises are not rented out to external operators.

3.2 Name of service part

The buildings and land areas are named by location, property identifier and address, with a qualifier added to the name, if necessary.

3.2.1 Location

This service description applies to the entire state-owned railway network as well as the buildings and land areas managed by the Finnish Transport Infrastructure Agency in station areas. The locations of the buildings are described in appendix 3Q of the Network Statement and in the map service.

3.2.2 Opening hours

3.2.3 Technical characteristics

3.2.4 Planned changes in technical characteristics

In general, no changes have been planned to the technical characteristics of buildings and land areas. Information on the changes being planned or implemented in the railway infrastructure or platform areas can be found at www.vayla.fi/hankkeet.

4 Charges

4.1 Information on charges

The Finnish Transport Infrastructure Agency leases land areas and parts of buildings at market prices.

The fair rental rate of the facilities is determined before each lease. The rental level is based on the actual price level in the area.

As regards the wires and cables placed in railway areas, the Finnish Transport Infrastructure Agency's fixed price list valid at any given time will apply. For more information, click here (in Finnish).

4.2 Information on discounts

No discounts are granted.

5 Access conditions

5.1 Legal requirements

A lease agreement is prepared for the use of buildings and land areas. An access agreement is prepared for the placement of wires and cables.

The lease agreements and access agreements are concluded for a fixed term or for an indefinite period.

5.2 Technical conditions

The technical terms and conditions of the agreements are described in the lease and access agreements.

5.3 Self-supply of rail-related services

The infrastructure manager of the state-owned railway network does not impose any general restrictions on the use of buildings and land areas. The use of the facilities is set out in connection with the conclusion of the lease agreement.

6 Capacity allocation

6.1 Requests for access or services

In general, the rental of buildings or the use of land areas does not affect the allocation of capacity. The use of land areas only impacts train traffic in exceptional cases, for example, in connection with site construction.

The lessee of buildings or land areas must submit to the infrastructure manager a free-form enquiry on the leasing of buildings or land areas. The enquiry must include the relevant information for the processing of applications for the leasing of buildings or land areas, such as the applicant's contact details, the name and address of the building or the area to be leased, the surface area to be leased, the purpose of use, the lease period.

Click here to view the instructions for the right to use wires and cables and for application instructions (The website is in Finnish).
Any lease enquiries shall be sent to the Finnish Transport Infrastructure Agency's Property Unit by e-mail: kirjaamo@ftia.fi.

6.2 Response to requests

Enquiries related to the use and leasing of land areas are answered no later than 30 days from receiving sufficient information for processing the application. Any urgent needs are responded to as soon as possible, but no later than within five working days from receiving all necessary information for processing the application.

The lease matters and access agreements of the buildings and land areas in the state-owned railway network are prepared by the Property Unit of the Finnish Transport Infrastructure Agency.

No principles of primacy have been set for leasing of land areas and building facilities.

If there are conflicting requests for leased facilities, every effort will be made to reconcile them through discussion and coordination, if necessary, with other service providers operating in the same area. Other viable alternatives, such as alternative locations or dates, may also be proposed to the applicant (Article 10 of Regulation 2017/2177).

6.3 Information on available capacity and temporary capacity restrictions

Information on facilities available for rent can be obtained from the infrastructure manager of the state-owned railway network.

Service description: Rail Training Centre (RTC)

1 General information

1.1 Introduction

This service description specifies the services of the Rail Training Centre, which is located in Kouvola.

The Rail Training Centre (RTC) provides the certification and continuing training required by rail operators in cooperation with service providers. The RTC offers service providers a modern learning and development environment.

1.2 Operator of the service facility

Operator of the service facility:

Rail Training Centre RTC
Hallituskatu 19, Kouvola

1.3 Validity period and updating process

This document is updated annually in connection with the publication of the Network Statement. If required, changes may also be made on the statement's revision dates during the timetable period.

2 Services

2.1 RTC

The Rail Training Centre (RTC) provides the certification and continuing training required by rail operators in cooperation with service providers. The RTC offers service providers a modern learning and development environment. More information about the Rail Training Centre.

3 Description

The facilities of the Rail Training Centre are described on the RTC website (The information is in Finnish).

3.1 Name of service

The traffic operating points of the Rail Training Centre have been named according to the locality in question.

3.1.1 Location

Kouvola, Hallituskatu 19. Inquiries.

3.1.2 Opening hours

The Rail Training Centre is open during training, rental use and events.

3.1.3 Technical characteristics

The RTC area is isolated from the state-owned railway network with iron gates and thus it does not require a permit issued by the Finnish Transport and Communications Agency Traficom. The tracks in the RTC area are state-owned, even though they are operated in the same manner as private tracks. The tracks are described in the track diagram of the Kouvola railway yard, which can be viewed in the Railway Information Extranet (in Finnish)

3.1.4 Planned changes in technical characteristics

The Finnish Transport Infrastructure Agency determines the annual maintenance needs and replacement intervals of track sections at the RTC No changes are planned to the technical characteristics of the RTC.

4 Charges

4.1 Information on charges

For the rent rates, see the RTC website. The price list is based on the Act on Criteria for Charges Payable to the State and the appraisal document commissioned on the property.

4.2 Information on discounts

No discounts are granted.

5 Access conditions

5.1 Legal requirements

The RTC users must have a valid liability insurance. An external training institute using the RTC facilities must have received induction to the use of the facility's technology (induction is provided by the infrastructure manager).

The use of intoxicants is prohibited in the RTC facilities.

5.2 Technical conditions

Any technical conditions are described in the track diagram.

5.3 Self-supply of rail-related services

The Rail Training Centre provides the certification and continuing training required by rail operators in cooperation with service providers.

5.4 IT systems

The e-learning environment Eerokki is used in the training provided by the Rail Training Centre. After enrolment on a course, the trainees will receive user IDs to Eerokki.

6 Capacity allocation

6.1 Requests for access or services

The courses provided by the Rail Training Centre are described on the RTC website. Trainees can enrol on the courses through the website.

6.2 Response to requests

For more information, visit https://rok.vayla.fi

6.3 Information on available capacity and temporary capacity restrictions

For more information, visit https://rok.vayla.fi

Service description: Traffic Quality Control Centre and rolling stock monitoring devices

1 General information

1.1 Introduction

This service facility description specifies the Traffic Quality Control Centre service commissioned by the infrastructure manager (Finnish Transport Infrastructure Agency) and the rolling stock monitoring equipment used as part of the service. The Finnish Transport Infrastructure Agency orders supervision services for railway network rolling stock, tunnels and properties from Fintraffic Railway Ltd. as a service.

The purpose of the Traffic Quality Control Centre and the monitoring devices is to improve the safety and punctuality in the state-owned railway network and to contribute to the management of disruptions and accidents.

The Finnish Transport Infrastructure Agency has prepared this service facility document in compliance with the requirements set in the Commission Implementing Regulation (EU) 2017/2177. The service facility is an ancillary service referred to in point 4 c) of Annex II to Directive 2012/34/EU.

1.2 Operator of the service facility

Operator of the service facility:

Fintraffic Railway
029 450 7000
info@fintraffic.fi

1.3 Validity period and updating process

This document is updated annually in connection with the publication of the Network Statement. If required, minor changes may also be made on the statement's revision dates during the timetable period.

2 Services

2.1 Traffic Quality Control Centre

The Traffic Quality Control Centre is responsible for supervising the rolling stock monitoring systems on Finland's railways as well as the tunnel and facilities management systems on the Ring Rail Line and the Vuosaari railway line.

The Traffic Quality Control Centre has two main duties: The rolling stock monitoring systems involve the monitoring of the data control process and its quality, data analysis, and the measures resulting from the analysis. The purpose is to monitor properties of the rolling stock that have a direct or indirect interface with the rail infrastructure. Rolling stock monitoring devices are located in all parts of the state-owned railway network.

The second task is to monitor tunnel and facilities management systems and to take the required measures in both normal and exceptional situations. The alarms received from the systems are relayed to the partners of the Technical Control Centre on a case-by-case basis. These partners include the fire and rescue authorities, the police, system maintenance providers, traffic controllers as well as the Security Control Centre and the operating centre.

The Traffic Quality Control Centre uses rolling stock monitoring systems to monitor the alarms given by malfunctioning stock and forwards access restrictions to the rolling stock as indicated by the alarms. The aim is to reduce accidents and the wear and tear caused to the rail infrastructure by malfunctioning stock and to avoid disruptions. The monitoring equipment located in the railway network is owned by the Finnish Transport Infrastructure Agency. The information system compiling the alarms (VALTSU) is the property of Fintraffic Railway Ltd. Unnecessary alarms and the frequency and causes of failures can be analysed with the help of the alarms given by monitoring system. The objective is to use data analytics to reduce susceptibility to disruptions and delays in train traffic.

The monitoring system is also used to examine and monitor wheel loads, the temperature of bearings and the condition of pantographs. Furthermore, at border crossing points, analytics can be used to monitor the condition of foreign rolling stock and on this basis, more detailed border checks can be carried out on rolling stock units.

2.2 Rolling stock monitoring equipment

Hot box detectors have been placed on the network at intervals of approximately 50 kilometres. Intervals may be longer on line sections where the maximum permitted speed is 160 km/h. The devices have been installed on the track and to ensure that they function as intended, rolling stock and the infrastructure must be interoperable as laid down in the acceptance requirements. The alarms given by the system are transmitted to the traffic control supervising the line section in question and to the Technical Control Centre.

Wheel load checkpoints are positioned as comprehensively as possible so that the rolling stock crosses at least one measuring instrument on its normal routes. The instruments measure the static and dynamic load from the wheelset to the rail. Based on these measurement results, defects in the wheel tread (such as wheel flats) and incorrect loading can be detected. Critical alarms from these track-mounted instruments are transmitted via the Traffic Quality Control Centre to the Rail Traffic Management Centre.

Traffic control will notify the train driver of hot box and wheel load alarms and provide them with the necessary instructions. The measures are described in the instruction 'Junaturvallisuuden ja vaihtotyön turvallisuussäännöt' (Jt) issued by the Finnish Transport Infrastructure Agency.

The condition of the pantograph contact carbon is monitored using cameras installed on a number of bridges. Active pantographs approaching the measuring station are scanned, the images are analysed and faulty pantographs are reported to the undertaking operating the vehicle. Traffic control will notify the train driver if the condition of the pantograph requires immediate measures and provide further instructions in order to avoid damage to the electrified track or rolling stock.

A bogie detector and a wheel profile detector have been installed in the railway network for trial purposes.

Equipping rolling stock with the system used by the infrastructure manager with interoperable radio frequency identification (RFID) will enable the rapid transmission of the control data to the correct vehicle and the party responsible for its maintenance. The RFID system is described in part 21 of the RATO instructions.

Appendix 5G contains a map showing the location of the rolling stock monitoring equipment and more detailed information is available on the Railway Information Extranet, which requires registration.

The Traffic Quality Control Centre monitors and maintains the functioning of the monitoring system. The VALTSU system used by the Technical Control Centre collects the measurement data produced by the monitoring system, combines it with the available RFID reading and further distributes this data to actors who need it. Operators can obtain information on their trains supplied by the monitoring devices from the VALTSU system.

3 Description of the service

3.1 The Traffic Quality Control Centre's operational area

The operating area of the Traffic Quality Control Centre covers the entire state-owned railway network.

3.2 Supervision by the Traffic Quality Control Centre

The Traffic Quality Control Centre monitors:

- rolling stock pantographs, overheating of bearings and wheels and alarms on wheel loads and excess loads;
- the condition of the wheel profiles and bogies;
- technical alarms from railway tunnels and agreed properties.

3.2.1 Opening hours

The Traffic Quality Control Centre provides services on a 24/7 basis, 365 days a year.

3.2.2 Joining the service

Fintraffic Railway Ltd provides the Finnish Transport Infrastructure Agency with the Traffic Quality Control Centre services . The services are provided and notifications on alarms are forwarded to all other users of the state-owned railway network with the help of a specific notification procedure.

4 Charges

4.1 Information on charges

For the time being, the services of the Traffic Quality Control Centre and the operator-specific data produced in the monitoring systems in rolling stock and stored in the VALTSU system are provided free of charge.

4.2 Information on discounts

Discounts are not applied to the service.

5 Terms of use

5.1 Legal requirements

Every message submitted to the operator about an alarm due to a defect in the rolling stock must result in inspecting the condition of the rolling stock concerned.

The alarms given by rolling stock may lead to imposing restrictions on the rolling stock, such as speed limits or to issuing an order to drive the stock to an assigned location for inspection.

5.2 Technical conditions

5.3 Self-supply of rail-related services

The data produced by the Finnish Transport Infrastructure Agency's monitoring system is collected in the VALTSU system of Fintraffic Railway Ltd. Fintraffic Railway Ltd can share the data with operators as agreed, via system interfaces. Each operator only receives data concerning their own equipment, taking account of data protection and business secrets.

A separate agreement on the sharing of information is made with each operator.

6 Capacity allocation

6.1 Requests for access or services

The operators do not need to request for the service separately; the service is included in the access to infrastructure capacity.

6.2 Response to requests

Monitoring of rolling stock

Rolling stock monitoring equipment

The location of the rolling stock monitoring devices in the railway network is illustrated in Figure 1.

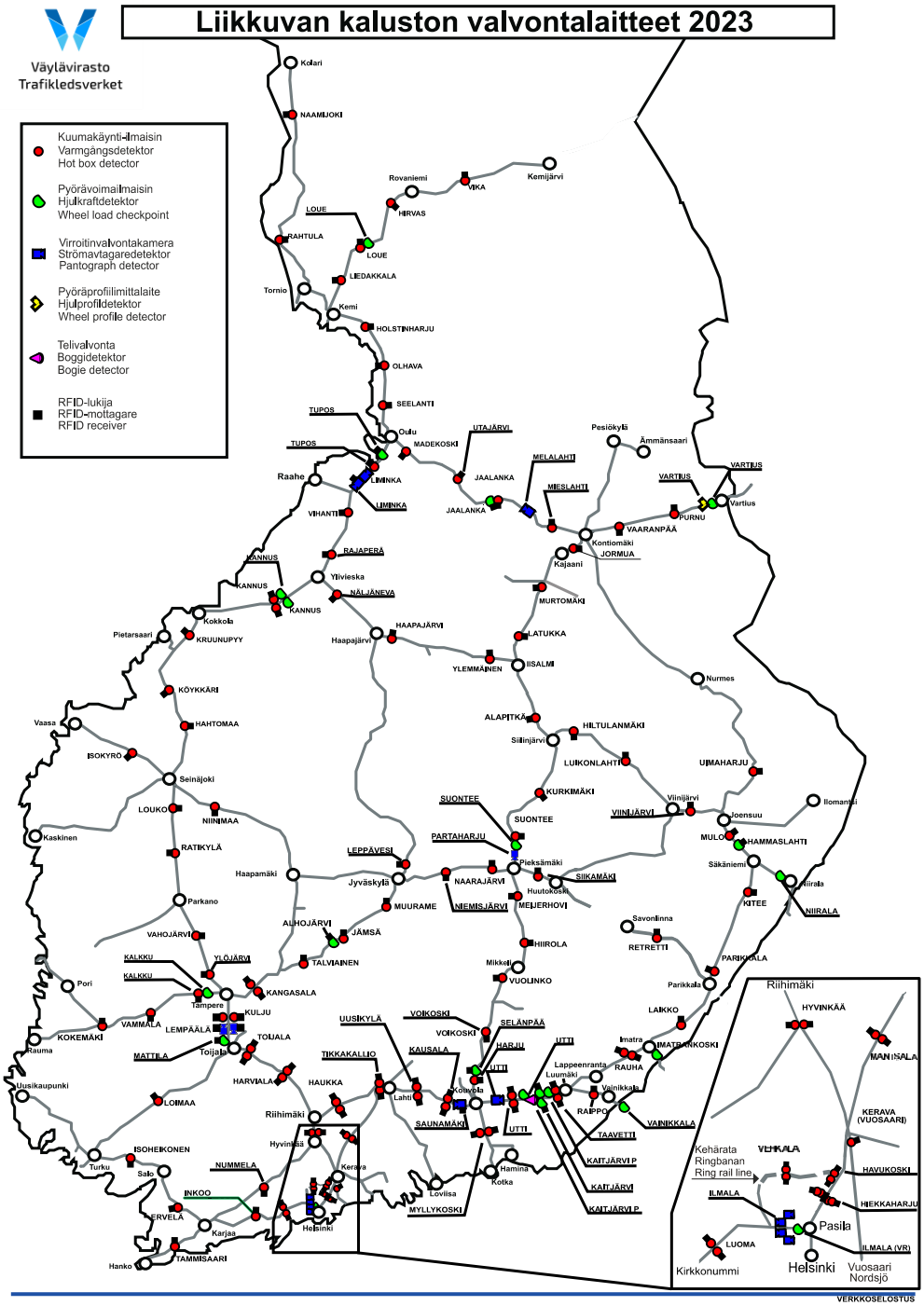

Figure 1. Rolling stock monitoring devices.

Service description: Security Control Centre

1 General information

1.1 Introduction

This appendix specifies the Security Control Centre services commissioned by the infrastructure manager of the state-owned railway network. The Finnish Transport Infrastructure Agency commissions the monitoring service for the railway network's safety systems from Traffic Management Finland Oy and its subsidiary Fintraffic Ltd.

The aim of the Security Control Centre is to improve the attractiveness, safety, comfort and customer experience of public transport by means of security services, security guards and technical supervision. The centralised Security Control Centre service has been implemented in cooperation with various parties to prevent threats against passenger safety and vandalization of property, and to prevent disruptions in the ground areas, platforms and station areas of the state-owned railway network.

1.2 Operator of the service facility

Operator of the service facility:

Fintraffic Ltd
+358 29 450 7000
info@fintraffic.fi

Contact person in the Finnish Transport Infrastructure Agency: Arto Muukkonen
firstname.lastname@ftia.fi

1.3 Validity period and updating process

This document is updated annually in connection with the publication of the Network Statement. If required, minor changes may also be made on the statement's revision dates during the timetable period.

2 Services

2.1 Security Control Centre

The Security Control Centre is mainly responsible for improving railway passenger safety at stations and on platform areas and protecting railway infrastructure from vandalism. The Security Control Centre is responsible for monitoring the situation, receiving messages and creating a situational picture as well as for guiding security officers, security guards or, if necessary, authorities to the location where help is needed. Operational activities in the field are managed from the Security Control Centre.

The main duties of the Security Control Centre are

- Maintaining situation awareness on security
- Camera surveillance and handing over of recordings to authorities
- Assisting the authorities in security and rescue duties
- Granting photography and event permits in the state-owned railway network
- Reporting offences against the assets of the Finnish Transport Infrastructure Agency and Fintraffic
- Maintaining order and security in the platform areas, station areas and other separately agreed areas

3 Service description

3.1 Operating area of the Security Control Centre

The operating area of the Security Control Centre covers the entire state-owned railway network. The main focus of operations is on the railway stations in the Helsinki region. The Security Control Centre serves as the operational and control centre for security guard services and camera surveillance.

3.2 Parties to the Security Control Centre agreement

The operations of the Security Control Centre are based on a framework agreement on the maintenance of order and security guard services at passenger stations. The parties to the agreement are Fintraffic Ltd, Helsinki Region Transport (HSL), Helsinki City Transport (HKL) and the cities of Espoo and Vantaa. The Finnish Transport Infrastructure Agency orders the comprehensive services from Fintraffic.

VR Group Plc also partially covers the costs of the processing of the recordings on vandalism.

When it comes to maintenance of order and security guard services, each party commissions the services independently. The Security Control Centre is the same for all parties.

3.2.1 Opening hours

The Security Control Centre provides services on a 24/7 basis, 365 days a year.

3.2.2 Joining the service

Negotiations about joining the agreement can be initiated by contacting the service provider or the Finnish Transport Infrastructure Agency. Each operator places an individual order with the service provider.

4 Charges

4.1 Information on charges

Each party is an independent customer and pays the costs according to the scope of services they have ordered. For common areas, such as the station areas, a certain percentage of the costs is jointly allocated to each party to the agreement.

4.2 Information on discounts

No discounts are granted in the agreement.

5 Access conditions

5.1 Legal requirements

Each participant to the agreement places its own order with the service provider and provides information on its own part to Fintraffic Ltd, which acts as the administrator of the main agreement.

All parties to the agreement are bound by the same confidentiality obligations.

5.2 Technical conditions

5.3 Self-supply of rail-related services

The infrastructure manager of the state-owned railway network (Finnish Transport Infrastructure Agency) determines the boundaries of the provision of security services in its areas.

6 Capacity allocation

6.1 Requests for access or services

Any parties willing to join the agreement should contact the Fintraffic Ltd or the Finnish Transport Infrastructure Agency. The parties agree jointly upon the accession of a new operator to the agreement, the scope of service to be provided to the operator concerned and the division of costs.

6.2 Response to requests

Fintraffic Ltd and the Finnish Transport Infrastructure Agency will respond to the notifications within a reasonable time.

Performance scheme

This appendix specifies the compensations and compensation criteria of the performance scheme applied by the infrastructure manager and the railway undertakings as of 1 January 2023. The system described in the Network Statement 2022 will remain in effect until 31 December 2022.

In addition to the issues contained in the performance scheme, the parties may agree, in connection with the monitoring of the performance scheme, to separately monitor other issues arising from railway traffic disruption records, such as freight traffic running ahead of schedule.

1.1 Deviations within the infrastructure manager's responsibilities

Based on the performance scheme, the infrastructure manager pays the railway undertaking a compensation for a deviation caused by a reason attributable to the infrastructure manager or traffic control following a case-by-case examination in the following cases:

- H302 Reason related to the personnel of another operator
  - If, according to the specification, the delay is clearly caused by a reason attributable to the infrastructure manager or traffic control company.
- L6 Delay related to waiting for the departure of a train, excluding the following level 2 reason codes:
  - L606 Escort delay caused by an infrastructure fault.
  - L608 Other delay related to departure in case the reason falls within the infrastructure manager's responsibilities.
- L7 Traffic management error.
- P1 Rail infrastructure equipment faults, excluding the following level 2 reason code:
  - P116 Equipment faults other than those for which the infrastructure manager is responsible.
- P2 Information system faults, excluding the following level 2 reason codes:
  - P201 Missing departure data in case the fault occurred in the railway undertaking's system.
  - P202 Technical fault in making a departure readiness notification.
  - P203 Other information system faults within the operator's responsibilities.
  - P204 Information system or telecommunications faults within the responsibilities of an external party.
- P3 Monitoring equipment fault.
- P4 Communication/telecommunication faults.
  - P401 RAILI service only with respect to the RAILI network.
  - P403 Other communications device/connection faults in case the fault occurred in a communications device/connection within the responsibilities of traffic control or the infrastructure manager.
- S1 Interruption in electricity supply, excluding the following level 2 reason codes:
  - S102 Power restriction.
  - S103 Main grid fault/restriction.

- S2 Electrified railway fault.
- T3 Damaged/blocked track.
- R2 Exceeding the agreed period for track works.
- R3 Traffic restriction following railway works.
- R4 The performance of track works deviates from the plan.
- I4 Other reason.
  - If, according to the specification, the delay is clearly caused by a reason attributable to the infrastructure manager or traffic control company.

1.2 Deviations within the responsibilities of the railway undertaking

Based on the performance scheme, the railway undertaking pays the infrastructure manager a compensation for a deviation caused by a reason attributable to the railway undertaking following a case-by-case examination in the following cases:

- H1 Absence of operator's personnel, excluding the following level 2 reason codes:
  - H104 Train driver from a delayed train.
  - H105 Conductor from a delayed train.
  - H106 Other personnel of the operator from a delayed train.
- H2 Departure readiness notification or departure deviation notification has not been made.
- H301 Other reason related to the operator's personnel.
- J1 Train formation delay.
- K1 Lack of rolling stock.
- K2 Equipment faults, excluding the following level 2 reason code:
  - K207 Wheel flat.
- K4 Coupling.
- K5 Decoupling.
- K6 Uninspected rolling stock.
- V1 Lack of locomotive.
- V2 Locomotive faults, excluding the following level 2 reason code:
  - V207 Wheel flat.
- V3 Reduction of speed due to traction power or lack of power.
- V4 Uninspected traction stock.
- A2 Timetable planning error, excluding the following level 2 reason code:
  - A201 Travel and/or stopping times are cumulatively longer than planned.
- L6 Delay related to waiting for the departure of a train, excluding the following level 2 reason codes:
  - L604 Escort delay caused by a rolling stock or locomotive fault.
  - L605 Escort delay caused by train formation.
  - L608 Other delay related to departure in case the reason falls within the railway undertaking's responsibilities.
- P116 Equipment faults other than those for which the infrastructure manager is responsible if the reason falls within the railway undertaking's responsibilities.
- P2 Information system faults, excluding the following level 2 reason codes:

  - P201 Missing departure data in case the fault occurred in the railway undertaking's system.
  - P202 Technical fault in making a departure readiness notification.
  - P203 Other information system faults within the operator's responsibilities.
- P4 Communication/telecommunication faults, excluding the following level 2 reason codes:
  - P401 RAILI service in case the fault is caused by the railway undertaking's RAILI phone.
  - P403 Other communications device/connection faults in case the fault occurred in a communications device/connection within the railway undertaking's responsibilities.
- I4 Other reason.
  - If, according to the specification, the delay is clearly caused by a reason attributable to the railway undertaking.

1.3 Determining the compensation

Monitoring stations for trains have been specified with the purpose of checking that they run on schedule (Appendix 5K). In addition, the train's departure and destination station is always automatically a monitoring station. Trains may be affected by additional delays between two monitoring stations or at a single monitoring station A single reason code is assigned to such single instance of additional delay to indicate the reason for the delay.

In the performance scheme, trains are divided into three categories:

- Helsinki Area commuter traffic (trains ordered by the HSL)
- Other passenger trains
- Freight trains

A penalty is paid when the additional delay caused by reasons specified in sections 1.1 and 1.2 of this appendix between two monitoring stations or at a monitoring station is equal or greater than

- 3 minutes for Helsinki Area commuter traffic.
- 15 minutes for other passenger trains.
- 30 minutes for freight trains.
- or when a Helsinki Area commuter traffic train or other passenger train is cancelled at a short notice for other similar reasons.

The amount of penalty is determined as follows:

- a delayed Helsinki Area commuter traffic train EUR 23/minute of delay, at maximum for 60 minutes per single instance of delay.
- other delayed passenger train EUR 40/minute of delay, at maximum for 180 minutes per single instance of delay.
- a delayed freight train EUR 3.5/minute of delay, at maximum for 360 minutes per single instance of delay.
- a cancelled Helsinki Area commuter traffic train EUR 1,000/train
- other cancelled passenger train EUR 1,500/train

The penalty will be based on all minutes of the additional delay and not only the minutes exceeding the threshold value.

The reason codes that had lower sanctions in timetable period 2022 will be fully sanctioned in timetable period 2023. The exception is reason code J1, Train formation delay. The penalties for J1 reason codes are 50% of the normal sanction for delays assigned level 2 and full (100%) for delays assigned level 1. A full penalty fee will be charged for cancellations recorded assigned the J1 code.

The specific description for J1 reason codes and any corrections must be made no later than 21 days after the event to which the reason code applies, after which the sanction level is not changed. Two-level sanctions encourage railway undertakings to be more specific in assigning J1 reason codes and to develop operating processes related to train formation and monitoring.

1.4 Specifications to the application of the performance scheme

In certain cases, a track availability deviation or a disruption in a railway undertaking's operation may be caused by a factor not attributable to the infrastructure manager or the railway undertaking but to a third party or a force majeure event, for example.

A compensation based on the performance scheme shall not be paid for reasons attributable to third parties. Cases falling outside the sphere of the performance scheme as the disturbance is caused by an external factor include, for example:

- Vandalism (e.g. vandalization of safety devices or rolling stock).
- Road, air or water transport accident.
- Private landowner.
- Works performed close to the railway by a party other than the FTIA.
- Safety device fault caused by a public network power outage of more than 6 hours or several successive outages. The performance scheme does not concern the part of the fault's overall duration which exceeds six hours.

In addition, disturbances in performance attributable to force majeure events do not fall within the sphere of the performance scheme. When discussing the compensations of the performance scheme, the parties shall agree on which availability deviations and disturbances in the railway undertaking's operation are considered to be caused by a force majeure event. Force majeure events include, for example, exceptional natural conditions and accidents.

Other clarifications:

- Exceeding the agreed period of track works does not fall within the sphere of the performance scheme if the start of the track possession has been delayed due to delayed train operation in case the delay has been caused by a reason that does not fall within the sphere of the infrastructure manager's performance scheme. In that case, the period falling outside the sphere of the performance scheme is at maximum equal to the time by which the start of the track possession was delayed.

- If a cancellation is made in order to shorten a delay, and the passengers are transported by replacement transport, the cancellation does not fall within the sphere of the performance scheme.

- As a rule, secondary cancellations do not fall within the sphere of the performance scheme (e.g. rolling stock could not reach its point of departure because it had not finished its previous journey due to damage sustained or a safety device fault). Cases related to escort delays or cancellations caused by train formation, equipment or infrastructure faults are covered by the performance scheme.
- Cancelling a train departure and replacing it with a bus transport that complies with the train's timetable does not fall within the sphere of the performance scheme.
- When two separate passenger trains are run due to failed coupling, both of the trains fall within the sphere of the performance scheme.
- A delay caused by a temporary voltage cut-off of an electrified railway network (due to a disconnection) or opening the main switch of the train unit does not fall within the sphere of the performance scheme, unless the situation emerges as a result of a fault in the electrified railway network or the rolling stock.
- In the case of extensive weather-related disturbances, delays are marked with the reason code I1 (exceptional weather conditions). A separate decision on the use of this reason code is made jointly with the Rail Traffic Management Centre, the operators, traffic control and, if required, the HSL. As the situation develops, the Rail Traffic Management Centre provides traffic control with information on where and over what time period the I1 reason code may be marked as the reason of the delay. In connection with discussing performance scheme compensations, the parties shall agree, on a case-by-case basis, when the weather-related disturbance marked with reason code I1 is considered to constitute a force majeure event.
- When a passenger traffic reduction plan has been decided upon on the previous day due to a weather phenomenon, trains cancelled in accordance with the plan do not fall within the sphere of the performance scheme. The decision on the traffic reduction plan is made jointly by the Rail Traffic Management Centre, the operators, traffic control and, if required, the HSL.

Performance scheme monitoring stations (S)

Traffic operating point	Abbreviation	Long-distance traffic	Commuter traffic	Freight traffic	Machinery	On-board unit	Trial run
Espoo	EPO		S				
Haapajärvi	HPJ	S					
Haapamäki	HPK	S		S	S	S	S
Hamina	HMA			S	S	S	S
Hanko asema	HNK	S					
Hanko tavara	HNKT			S	S	S	S
Heinävaara	HÄV			S	S	S	S
Helsinki asema	HKI	S	S				
Huopalahti	HPL		S				
Hyrynsalmi	HYS			S	S	S	S
Hämeenlinna	HL	S	S	S	S	S	S
Iisalmi	ILM	S		S	S	S	S
Ilomantsi	ILO			S	S	S	S
Imatra asema	IMR	S					
Imatra tavara	IMT			S	S	S	S
Inkeroinen	IKR	S		S	S	S	S
Joensuu asema	JNS	S		S	S	S	S
Joensuu Peltola	PLT			S	S	S	S
Joensuu Sulkulahti	SUL			S	S	S	S
Juurikorpi	JRI	S		S	S	S	S
Jyväskylä	JY	S		S	S	S	S
Jämsä	JÄS	S		S	S	S	S
Kajaani	KAJ	S		S	S	S	S
Kannonkoski	KSI			S	S	S	S
Karjaa	KR	S	S	S	S	S	S
Kauppilanmäki	KPL				S	S	
Keitelepohja	KTP			S	S	S	S
Kemi	KEM	S		S	S	S	S
Kemijärvi	KJÄ	S		S	S	S	S
Kerava asema	KE		S				
Keuruu	KEU	S					
Kirkkonummi	KKN	S	S				
Kirkniemi	KRN			S	S	S	S
Kitee	KIT	S		S	S	S	S
Kokemäki	KKI	S		S	S	S	S
Kokkola	KOK	S		S	S	S	S
Kolari	KLI	S		S	D		S
Kommila	KMM			S	S	S	S
Kontiomäki	KON	S		S	S	S	S
Kotka Hovinsaari	HOS			S	S	S	S
Kotka Mussalo	MSS			S	S	S	S
Kotkan satama	KTS	S		S	S	S	S
Kouvola asema	KV	S	S	S	S	S	S
Kouvola lajittelu	KVLA			S	S	S	S
Kouvola Oikoraide	OIK			S	S	S	S
Kouvola tavara	KVT			S	S	S	S
Kuopio asema	KUO	S		S	S	S	S
Kuopio tavara	KUOT			S	S	S	S
Kuusankoski	KUK			S	S	S	S

Performance scheme monitoring stations (S)

Traffic operating point	Abbreviation	Long-distance traffic	Commuter traffic	Freight traffic	Machinery	On-board unit	Trial run
Kymi	KY			S	S	S	S
Lahnaslampi	LHN			S	S	S	S
Lahti	LH	S	S	S	S	S	S
Lapinjärvi	LPJ			S	S	S	S
Lappeenranta	LR	S					
Lappohja	LPO			S	S	S	S
Lentoasema	LEN		S				
Leppävaara	LPV	S	S				
Lieksa	LIS	S					
Loimaa	LM	S					
Luumäki	LÄ	S		S	S	S	S
Maanselkä	MLK			S	S	S	S
Mikkeli	MI	S		S	S	S	S
Moskova	MVA	S					
Myllyoja	MYL			S	S	S	S
Mynttilä	MYT			S	S	S	S
Mäntsälä	MLÄ		S				
Mänttä	MÄN			S	S	S	S
Mäntyharju	MR	S					
Niirala	NRL	S		S	S	S	S
Nurmes	NRM	S		S	S	S	S
Orivesi	OV	S		S	S	S	S
Oulainen	OU				S	S	
Oulu asema	OL	S		S	S	S	S
Oulu Nokela	NOK			S	S	S	S
Oulu tavara	OLT			S	S	S	S
Oulunkylä	OLK		S				
Parikkala	PAR	S		S	S	S	S
Parkano	PKO	S					
Pello	PEL	S					
Pesiökylä	PSK			S	S	S	S
Pieksämäki asema	PM	S		S	S	S	S
Pieksämäki lajittelu	PMLA			S	S	S	S
Pieksämäki tavara	PMT			S	S	S	S
Pieksämäki Temu	TMU			S	S	S	S
St. Petersburg	PTR	S					
Pietarsaari	PTS			S	S	S	S
Pihtipudas	PP			S	S	S	S
Pitkämäki	PTK			S	S	S	S
Pori	PRI	S		S	S	S	S
Pyhäsalmi	PHÄ			S	S	S	S
Pännäinen	PNÄ	S					
Raahe	RHE			S	S	S	S
Rauma	RMA			S	S	S	S
Riihimäki asema	RI	S	S	S	S	S	S
Riihimäki lajittelu	RILA			S	S	S	S
Riihimäki tavara	RIT			S	S	S	S
Ristijärvi	RJV			S	S	S	S
Rovaniemi	ROI	S		S			S

Performance scheme monitoring stations (S)

Traffic operating point	Abbreviation	Long-distance traffic	Commuter traffic	Freight traffic	Machinery	On-board unit	Trial run
Saarijärvi	SRJ			S	S	S	S
Salo	SLO	S					
Savonlinna asema	SL	S					
Seinäjoki asema	SK	S		S	S	S	S
Siilinjärvi asema	SIJ	S		S	S	S	S
Sköldvik	SLD			S	S	S	S
Suonenjoki	SNJ	S					
Tampere asema	TPE	S	S	S	S	S	S
Tampere tavara	TPET			S	S	S	S
Tampere Viinikka	VKA			S	S	S	S
Tikkurila asema	TKL	S	S				
Toijala	TL	S	S				
Tornio-Itäinen	TRI	S					
Turku asema	TKU	S		S	S	S	S
Turku satama	TUS	S					
Turku tavara	TKUT			S	S	S	S
Tuupovaara	TPV			S	S	S	S
Uimaharju	UIM			S	S	S	S
Vaala	VAA	S					
Vaasa	VS	S		S	S	S	S
Vainikkala asema	VNA	S		S	S	S	S
Valtimo	VLM			S	S	S	S
Vammala	VMA	S					
Vantaankoski	VKS		S				
Varkaus	VAR	S					
Vartius	VUS			S	S	S	S
Vihanti	VTI	S					
Vilppula	VLP	S		S	S	S	S
Vuokatti	VKT			S	S	S	S
Ylivieska	YV	S		S	S	S	S
Ämmänsaari	ÄM			S	S	S	S
Äänekoski	ÄKI			S	S	S	S

Service description: Heating of rolling stock and electrical outlet points (1500 V and 400 V)

1 General information

1.1 Introduction

This service description describes the heating and electricity supply service for rolling stock on state-owned railway infrastructure. The service is an additional service referred to in point 3 of Annex II to Directive 2012/34/EU.

1.2 Service manager

Service manager:

Finnish Transport Infrastructure Agency, Track and Rolling Stock Technology
Opastinsilta 12 A, 00520 Helsinki
kirjaamo@vayla.fi

1.3 Validity period and updating process

This document is updated annually in connection with the publication of the Network Statement. If required, changes may also be made on the statement's revision dates during the timetable period.

2 Services

2.1 Wagon heating points (1500 V)

The infrastructure manager provides 1500 V heating points at the Ilmala rail yard for railway operators. Under section 4 of the Government decree (1489/2015), the preheating of passenger carriages is an additional service.

2.2 Socket points (400 V)

The infrastructure manager provides 400 V socket points for railway operators. Some of the electrical outlet points on the state-owned railway network are owned by VR Group. Under section 4 of the Government decree (1489/2015), electrical outlet points are an additional service.

3 Service description

3.1 List of service parts

The list of heating and socket points is provided in Appendix 2B to the Network Statement.

3.2 Naming the service

The heating and socket points are named after their track location, and a specifier is added to the name, if necessary.

3.2.1 Location

The 400 V and 1,500 V power supply facilities for rolling stock are indicated in Appendix 2B to the Network Statement, in the track diagrams and in the map service.

3.2.2 Opening hours

The electrified railway network, heating and electrical outlet points are accessible on a 24/7 basis.

3.2.3 Technical characteristics

The technical characteristics of the power supply systems are described in the instructions issued by the Finnish Transport Infrastructure Agency (The documents are in Finnish).

3.2.4 Planned changes in technical characteristics

There are no planned changes to the service.

4 Charges

The fees for accessing heating of rolling stock and electrical outlet points are agreed on a case-by-case basis.

5 Access conditions

The use and terms of use for heating of rolling stock and electrical outlet points are agreed on a case-by-case basis.

6 Capacity allocation

6.1 Requests for access or services

Reservations for using heating and socket points are made by reserving the track on which the service is located.

6.2 Response to requests

Track reservation requests for heating and socket points are answered as specified in chapter 4.2.1 of the Network Statement.

6.3 Information on available capacity and temporary capacity restrictions

No known capacity constraints.

Operational responsibilities

The general requirements for railway operations are described in chapter 3.2.1 of the Network Statement. In a multi-operator environment, the roles and responsibilities of operative work of the various parties also depend on the agreements between the various actors. The infrastructure manager must treat all parties equally and assume operational responsibility for traffic control. In operational work (24/7):

The operator's responsibilities include

- Production planning, which may include, depending on the purchase agreement, for example, the planning of schedules, stock rotation, depot services and depot personnel rotation, marketing and sales, traffic operation, preparedness for disruptions as well as the organisation of substitutive transport services.
- Submitting the information on schedules, stock rotations, train configurations and related operational changes in order to manage the data regarding the access to tracks in accordance with the instructions of the infrastructure manager.
- Close collaboration with traffic control in order to move stock off the track or out of an area in the railway yard when necessary, for instance, in case of infrastructure or equipment failure.
- Receiving notifications from traffic control on temporary, changed circumstances, such as sudden restrictions on available capacity, and adapting the operations accordingly (depending on the purchase agreement, for example, by applying for ad hoc capacity, cancelling allocated capacity, informing passengers before arriving at the station and on the trains).
- Operating the trains in accordance with the plans drawn up in advance and reporting on any deviations and their reasons in accordance with the reason code classification as well as aiming to operate as scheduled.
- Complying with the instructions given in the network statement and in the instructions of infrastructure maintenance of the infrastructure manager and informing on any safety deviations in accordance with the instructions given by the infrastructure manager.
- Participating in the work of the operational group (see chapter 6.2.3).

The responsibilities of traffic control include

- Maintaining situation awareness and anticipating disruptions.
- Deciding on convening the operational group that includes the operational actors.
- Managing traffic situations and the infrastructure fault repair situations and communicating them to other operational actors.
- Controlling traffic and managing track and line capacity, putting limitations on capacity if necessary.
- Informing passengers at the stations and platforms on train departures and arrivals as well as on the tracks used by the trains.
- Providing real-time data for the use of the operators via interfaces.

Safety issues

Reporting safety incidents and providing safety information

The infrastructure manager is responsible for the safety of its railway network. A railway operator must report any accident, safety-related anomaly or incident that it has detected to railway traffic control which must relay the information to the Rail Traffic Management Centre. The notification must normally be submitted during the working day on which the safety-related anomaly has occurred. Serious safety-related anomalies must be reported immediately. The incident must be reported regardless of whether the anomaly is related to the operator's operations or if it is a party to causing the anomaly. The report must include information on whether the anomaly has occurred on the state-owned railway network or on another railway network.

All railway operators must submit reports on accidents and incidents related to train and shunting traffic (safety anomaly data) to the infrastructure manager's TURI system in accordance with the up-to-date classification instructions issued by the Finnish Transport Infrastructure Agency.

The provision of information may take the form of data transfer between systems, or the railway operator may record safety-related anomalies directly in the TURI system. Similarly, safety-related anomalies from the TURI system that apply to the railway operator may be submitted to the railway operator in a separately agreed on manner.

If the railway operator is responsible for the performance of traffic control for shunting operations using the infrastructure manager's traffic control system, the railway operator must also send the infrastructure manager the written reports and analyses on any safety anomalies that have occurred during its performance of traffic control.

Reporting damage

Railway operators must without delay inform the infrastructure manager's traffic control of any damage to the railway network or malfunctioning of the infrastructure. In order to investigate the events, the railway operator must contact the infrastructure manager's track manager. The infrastructure manager must notify railway operators of any observations it makes of damage to the rolling stock or malfunctioning of rolling stock operated railway operators.

Occupational safety in railway yards

The infrastructure manager is responsible for ensuring that the infrastructure of Finland's railway yards is in operable condition and in accordance with the relevant legislation, regulations and instructions including the Railway Engineering Guidelines (RATO) as well as with occupation safety conditions.

Railway operators are responsible for the condition of the rolling stock that they use in railway yards and for the safety of its movement.

In its role as an employer, the railway operator is responsible for the occupational safety of its employees in railway yards. They are also responsible for the management of equipment and rolling stock in their ownership from the perspective of safety.

When storing rolling stock, railway operators must ensure that the trains that they operate remain stationary and that stop blocks are used and stored appropriately.

Preparedness of railway operators

A railway operator must prepare for accidents and exceptional situations as provided in legislation. The infrastructure manager cooperates with railway operators in preparedness matters. The infrastructure manager publishes the OVRO instructions for railway operators on how to prepare for railway accidents. The railway operator must integrate the actions outlined in the OVRO instructions into its own operations. Railway operators must also comply with the other instructions related to preparedness and exceptional situations issued by the infrastructure manager.

Service facility description: Passenger stations

1 General information

1.1 Introduction

This service facility description specifies access to and terms of use of passenger stations in the state-owned railway network and their buildings and other facilities.

The Finnish Transport Infrastructure Agency has prepared this service facility document in compliance with the requirements set in the Commission Implementing Regulation (EU) 2017/2177. The service is a basic service referred to in point 2 of Annex II to Directive 2012/34/EU.

1.2 Operator of the service facility

Operator of the service facility:

Finnish Transport Infrastructure Agency

Property Unit and Railway Maintenance Services Unit

Opastinsilta 12 A

FI-00520 Helsinki

kirjaamo@ftia.fi

1.3 Validity period and updating process

This document is updated annually in connection with the publication of the Network Statement. If required, minor changes may also be made on the statement's revision dates during the timetable period.

2 Services

2.1 Passenger stations

In its capacity as the infrastructure manager of the state-owned railway network, the Finnish Transport Infrastructure Agency owns and provides access to the tracks and passenger platforms at all passenger stations. Traffic operating points used for passenger traffic and the lengths of their platforms are listed in Appendix 2B. The platforms that are not maintained by the infrastructure manager are also listed in Appendix 2B (in brackets). The safety of and public access to these platforms is the responsibility of the railway operator using the platform. All passenger stations are listed in the map service.

Details of the station buildings and other facilities at passenger stations owned by the Finnish Transport Infrastructure Agency that are available for rent (such

as ticket-selling facilities and the placing of ticket-vending machines) are presented in Appendix 7B. The facilities owned by other parties and their contact details are presented in Appendix 7C.

Open data bank on the development of railway station areas.

2.2 Passenger information and public address system

The Finnish Transport Infrastructure Agency is responsible for the information systems at stations and in platform areas, which include signs directing to locations, signs for station name and track numbers as well as timetable display cabinets. The information provided in timetable display cabinets is the responsibility of the railway operator or HSL. The railway operator is responsible for information related to the availability of transport as well as information provided on trains. Fintraffic is responsible for the information systems at stations and in platform areas, which include timetable displays and public address systems. The passenger information system is maintained by Fintraffic Ltd.

In order to provide a passenger information service, the railway operator must produce the following information for the passenger information centre or system:

- Basic information: Train type, train number, line ID, route, commercial stops, planned time of arrival and departure, track and sectoral information and train composition
- From bypass stations: Planned arrival and departure time, track, train composition
- Change information: Replacement transport and type (bus/taxi), number of transport units, route, schedule, station specific departure, ticket eligibility
- Train connection: Replacement train connection (train number, line ID) and ticket eligibility
- Traffic information: Exceptional traffic, reduction in frequency/discontinued traffic, additional/chartered traffic, changes to the basic structure of traffic, such as changes in the timetable period
- Specific information concerning communication: Dual capacity train connections, international traffic, other issues requiring specific communication.

3 Service facility description

3.1 List of all installations

Traffic operating points owned by the Finnish Transport Infrastructure Agency and used for passenger traffic are listed in Appendix 2B.

The passenger stations owned by the Finnish Transport Infrastructure Agency and their facilities that are available for rent are listed in Appendix 7B to the Network Statement. The facilities that can be rented out are divided into waiting areas, office spaces, social facilities and business premises.

3.2 Name of installation

The passenger stations are named after their locality, and a specifier is added to the name, if necessary.

3.3 Position

Traffic operating points owned by the Finnish Transport Infrastructure Agency and used for passenger traffic are listed in Appendix 2B.

The addresses of the passenger stations owned by the manager of the state-owned railway network are presented in Appendix 7B to the Network Statement and in the map service.

3.4 Opening hours

The traffic operating points owned by the Finnish Transport Infrastructure Agency and used for passenger traffic are open on a 24/7 basis. The opening hours for facilities at passenger stations maintained by the Finnish Transport Infrastructure Agency are decided on site-specifically.

In general, the tenant decides on the opening hours of the rental facilities of passenger stations. If necessary, the opening hours are agreed upon in the lease agreement.

3.5 Technical characteristics

Details of the facilities at passenger stations available for rent and their technical characteristics are given in Appendix 7B to the Network Statement.

3.6 Planned changes in technical characteristics

No changes have been planned to the technical characteristics of passenger stations.

4 Charges

4.1 Information on charges

The approximate rental rates of the passenger stations owned by the infrastructure manager are presented in Appendix 7B.

The fair rental rate of the facilities is determined before each lease. The rental level is based on the actual price level in the area.

4.2 Information on discounts

Discounts are not granted on the rents of passenger stations. In return for renovations done in the buildings, discounts may be considered on a case-by-case basis.

5 Access conditions

5.1 Legal requirements

A rental agreement is drawn up on the use of passenger stations.

5.2 Technical conditions

Technical conditions and information regarding individual service facilities at each specific station are presented in Appendix 7B to the Network Statement.

5.3 Self-supply of rail-related services

The infrastructure manager of the state-owned railway network does not impose any general restrictions on the use of passenger stations. The use of the facilities and the terms of use are set out when the rental agreement is made.

6 Capacity allocation

6.1 Requests for access or services

An applicant wishing to rent passenger station facilities must submit to the infrastructure manager a free-form enquiry regarding the renting of passenger station facilities. The enquiry must include the relevant information for the processing of applications for the renting of passenger station facilities, such as the applicant's contact details, the name and address of the building, the surface area to be rented, the purpose of use, the rental period.

Lease enquiries shall be sent to the Finnish Transport Infrastructure Agency's Property Unit by email: kirjaamo@ftia.fi.

6.2 Response to requests

Applications for renting facilities at passenger stations are answered within the deadlines set by the Rail Regulatory Body (reg. no. TRAFICOM/270984/03.06.04/2019) no later than within 30 days from receiving sufficient information for processing the application.

Any urgent needs are responded to as soon as possible, but no later than within five working days from receiving all necessary information for processing the application. Renting out passenger station facilities often includes viewings, condition surveys and suitability assessments of the premises. These are agreed on separately in connection with each rental.

Matters related to the rental of passenger stations in the state-owned railway network are prepared by the Property Unit of the Finnish Transport Infrastructure Agency.

No principles of priority have been set for the rental of passenger stations.

If there are conflicting requests for leased facilities, every effort will be made to reconcile them through discussion and coordination, if necessary, with other

service providers operating in the same area. Other viable alternatives, such as alternative locations or dates for renting passenger stations, may also be proposed to the applicant (Article 10 of Regulation 2017/2177).

6.3 Information on available capacity and temporary capacity restrictions

Information on facilities available for rent on passenger stations can be obtained from the infrastructure manager of the state-owned railway network. The information is maintained in Appendix 7B in connection with the publication and updating of the Network Statement.

Station buildings owned by the Finnish Transport Infrastructure Agency at passenger stations - situation in September 2020

Leases of the facilities owned by the Finnish Transport Infrastructure Agency are prepared by Railway Maintenance Services.
For rental matters, contact: **kirjaamo@ftia.fi**

The fair rental rate of the facilities is determined before each lease. The rental level is based on the actual price level in the area.

*(accuracy +/- 50%, depending on the condition of the premises)

								Waiting area				Office space				Break room/staff facilities				Commercial space			
Building	Postal code	Location	Street address	Valid contract (no.)	Total space for rent (m2)	Vacant premises yes/no	Additional information	Vacant premises yes/no	M2	rent* EUR/m2/ month	Additional information	Vacant premises yes/no	M2	rent* EUR/m2/month	Additional information	Vacant premises yes/no	M2	rent* EUR/m2/month	Additional information	Vacant premises yes/no	M2	rent* EUR/m2/month	Additional information
HELSINKI HUOPALAHTI	00320	HELSINKI	KYLÄTIE 25		Less than 100	yes	Empty premises for rent in the station hall. The premises are in poor condition and require extensive repairs.				Unheated station hall, adjacent outdoor area. Not leased									yes	ss than 100 r	15	
HELSINKI MALMIN VANHA ASEMA	00700	HELSINKI	LATOKARTANONTIE 1		229,00	yes	Vacant sales premises and empty office, storage and work space. Fairly far off from the station, next to the Jokeri line. Must be renovated before use.					yes	Not known	15						yes	Not known	15	
HELSINKI PUKINMÄKI	007200	HELSINKI	PUKINMÄENAUKIO 1	61344	125,00	no	Currently used as a pizzeria; could be suitable for passenger services, at tunnel level and thus not adjacent to the station.													no	125,00	15	Currently leased
HELSINKI PUISTOLA	00750	HELSINKI	TAPULIKAUPUNGINTIE 1	90183	31,00	no	Currently used as a pizzeria. Commercial premises (station upper level); four customer places.													no	31,00	15-20	Currently leased
VANTAA TIKKURILA (NEW STATION BRIDGE	01300	VANTAA	RATATIE 11		-		Leases are managed by YIT through a long-term contract.																
VANTAA KOIVUKYLÄ	01360	VANTAA	KOIVUKYLÄN PUISTOTIE	61426	262,00	no	A former kiosk has been leased for other use. Not adjacent to the station; ground floor would be suitable for passenger use but extensive repairs are required.	no	See 'Break room/staff facilities'	8	Currently leased					no	220,00	8	The floor space includes the hall and break room/staff facilities. Currently leased.	no	42,00	10	Currently leased
HELSINKI-VANTAA AIRPORT	01530	VANTAA	TELETIE 6			no	No facilities up for rent. The airport's underground facilities owned by the Finnish Transport Infrastructure Agency.	no				no				no				no			
JÄMSÄ	42100	JÄMSÄ	ASEMAKATU 5	5495	70,00	yes	Empty, closed to the public	yes	40,00	8	Waiting area and toilet	yes	30,00	8									
LAPUA	62100	LAPUA	ASEMAKATU 7	90077	121,00	yes	Empty, closed to the public	yes	43,00	8	Waiting area and two toilets	yes	78,00	8		yes	Not known	7					
KAUHAVA	62200	KAUHAVA	ASEMAKUJA 3	90076	89,00	yes	Empty, closed to the public	yes	64,00	8	Waiting area and two toilets	yes	25,00	8		yes	Not known	7					
PÄNNÄINEN	68910	PÄNNÄINEN	ASEMATIE 13	90004	Not known	yes	The station was renovated in the 2010s. Vacant premises in addition to the waiting room.	no	48,70	8	Waiting room and two toilets. Currently leased.	yes	Not known	8		yes	Not known	7		yes	Not known	8	
HÄRMÄ	62300	HÄRMÄ	PIIRTOLANTIE 6		Not known	yes	The station building would have to be renovated. There may be vacant premises in the building (in addition to the waiting room).	yes	Not known											yes	Not known	8	

Passenger stations not owned by the Finnish Transport Infrastructure Agency

Traffic operating point	Building	Operator of the service facility	Timetable display	More information on railway premises available for lease
Akaa, Toijala	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Espoo	Station bridge	City of Espoo, Premises Department	Yes	No vacant premises Inquiries: City of Espoo, Premises Department
Espoo, Kauklahti	Station building	Senate Station Properties Ltd	Yes	https://www.senaatti.fi/asema-alueet/en/
Hamina	Traffic operating point building	VR-Group plc	No	VR Network Statement, passenger stations (vacant premises and prices)[1]
Hanko	Station building	Privately owned	No	Not in passenger use
Helsinki, Kannelmäki	Railway station	Helsinki City Transport HKL	Yes	HKL, property management
Helsinki, Malmi	Station building	Senate Station Properties Ltd	Yes	https://www.senaatti.fi/asema-alueet/en/
Helsinki, Malminkartano	Tunnel station	Helsinki City Transport HKL	Yes	HKL, property management
Helsinki, Pasila	New station building	Kiinteistö Oy Uusi Pasilan Asema	Yes	Service description (in Finnish): https://vayla.fi/ammattiliikenne-raiteilla/rautateiden-verkkoselostus/rataverkon-palvelun-tarjonta
Helsinki, Pohjois-Haaga	Railway station	Helsinki City Transport HKL	Yes	HKL, property management
Helsinki	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Hyvinkää	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Hämeenlinna	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Iisalmi	Station building	Senate Station Properties Ltd	Yes	https://www.senaatti.fi/asema-alueet/en/
Imatra	Imatra	VR-Group plc	No	VR Network Statement, passenger stations (vacant premises and prices)[1]
Imatra	Imatra	Kiinteistö Oy Imatran keskusasema	Yes	REIM Imatra Oy
Joensuu	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Jyväskylä	Jyväskylä	Jyväs-Parkki Oy	Yes	Jyväs-Parkki Oy, property matters (vacant premises and prices)
Järvenpää	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Kajaani	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Kannus	Station building	Senate Station Properties Ltd	?	https://www.senaatti.fi/asema-alueet/en/
Kauniainen	Station building	Senate Station Properties Ltd	No	https://www.senaatti.fi/asema-alueet/en/
Kemi	Station building	Senate Station Properties Ltd	Yes	https://www.senaatti.fi/asema-alueet/en/
Kemijärvi	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Kerava	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Kirkkonummi	Station building	Senate Station Properties Ltd	No?	https://www.senaatti.fi/asema-alueet/en/
Kokkola	Station building	Senate Station Properties Ltd	Yes	https://www.senaatti.fi/asema-alueet/en/
Kolari	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Kotka	Station building	VR-Group plc	No	VR Network Statement, passenger stations (vacant premises and prices)[1]
Kouvola	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Kuhmo, Vartius	Station building	VR-Group plc	No	VR Network Statement, passenger stations (vacant premises and prices)[1]
Kuopio	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Lahti	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Lapinlahti	Station building	Nelson House Oy	Yes	Nelson House Oy, Lapinlahti. No vacant premises
Lappeenranta	Station and customs office building	Senate Station Properties Ltd	Yes	https://www.senaatti.fi/asema-alueet/en/
Mikkeli	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Oulainen	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Oulu	Station building	Senate Station Properties Ltd	Yes	https://www.senaatti.fi/asema-alueet/en/
Parikkala	Station building	Municipality of Parikkala	Yes	Municipality of Parikkala, construction manager
Parkano	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Pieksämäki	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Pori	Station building	Senate Station Properties Ltd	Yes	https://www.senaatti.fi/asema-alueet/en/
Raasepori	Station building	Senate Station Properties Ltd	Yes	https://www.senaatti.fi/asema-alueet/en/
Riihimäki	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Rovaniemi	Station building	Senate Station Properties Ltd	Yes	https://www.senaatti.fi/asema-alueet/en/
Seinäjoki	Station building	Senate Station Properties Ltd	Yes	https://www.senaatti.fi/asema-alueet/en/
Siilinjärvi	Station building	VR-Group plc	No	VR Network Statement, passenger stations (vacant premises and prices)[1]
Tampere	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Tohmajärvi, Niirala	Station building	VR-Group plc	No	VR Network Statement, passenger stations (vacant premises and prices)[1]
Turku	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Turku, Kupittaa	Station building	VR-Group plc	Yes	VR Network Statement, passenger stations (vacant premises and prices)[1]
Tuusula, Jokela	Station building	VR-Group plc	No	VR Network Statement, passenger stations (vacant premises and prices)[1]
Vaasa	Station building, new waiting room	City of Vaasa	Yes	Airaksinen Capital Oy, Vaasa. Vacant premises
Vantaa	Station bridge, halt	City of Vantaa	Yes	City of Vantaa, housing and premises rental
Vantaa, Kivistö	Station building	City of Vantaa	Yes	City of Vantaa, housing and premises rental
Vantaa, Leinelä	Station bridge, halt	City of Vantaa	Yes	City of Vantaa, housing and premises rental

Passenger stations not owned by the Finnish Transport Infrastructure Agency

Vantaa, Louhela	Station building	City of Vantaa	Yes	City of Vantaa, housing and premises rental
Vantaa, Martinlaakso	Station building	City of Vantaa	Yes	City of Vantaa, housing and premises rental
Vantaa, Myyrmäki	Station building	City of Vantaa	Yes	City of Vantaa, housing and premises rental
Vantaa, Vantaankoski	Station bridge, halt	City of Vantaa	Yes	City of Vantaa, housing and premises rental
Varkaus	Station building	Varkauden keskusliikenneasema Oy	Yes	Realia isännöinti Oy, Varkaus.
Ylivieska	Station building	Senate Station Properties Ltd	Yes	https://www.senaatti.fi/asema-alueet/en/

[1] https://www.vrgroup.fi/fi/vrgroup/yrityksemme/liiketoiminta/kiinteistot/yksityisraiteiden-verkkoselostus/palvelukuvaukset/tilanvuokraustoiminta/matkustaja-asemat-ja-muut-asema-alueen-tilat/

Service facility description: Timber loading facilities

1 General information

1.1 Introduction

This service facility description specifies access to and terms of use of timber loading facilities owned by the Finnish Transport Infrastructure Agency in the state-owned railway network.

The Finnish Transport Infrastructure Agency has prepared this service facility document in compliance with the requirements set in the Commission Implementing Regulation (EU) 2017/2177. The service is a basic service referred to in point 2 of Annex II to Directive 2012/34/EU.

1.2 Operator of the service facility

Operator of the service facility:

Finnish Transport Infrastructure Agency
Infrastructure Access Department
Opastinsilta 12 A
FI-00520 Helsinki
kirjaamo@vayla.fi

The FTIA's Maintenance Department is the party to contact in matters concerning the use and rental of state-owned railway network loading facilities as well as the condition of loading facilities and sidings. The contact information is listed on the infrastructure manager's website.

The contact point in matters concerning track access to loading areas in the state-owned railway network and their use is Infrastructure Access Department of the Finnish Transport Infrastructure Agency.

1.3 Validity period and updating process

This document is updated annually in connection with the publication of the Network Statement. If required, changes may also be made on the statement's revision dates during the timetable period.

2 Services

2.1 Timber loading facilities

The timber loading facilities of the Finnish Transport Infrastructure Agency are used for storing and/or loading timber. As a rule, the Finnish Transport Infrastructure Agency owns the land areas and sidings in these facilities. There may also be loading facilities owned by private operators in the private sidings connected to the state-owned railway network.

The timber loading facilities of the Finnish Transport Infrastructure Agency are described in Appendices 2B and 7E to the Network Statement, and in the map service.

3 Service facility description

3.1 List of all installations

Most of the freight terminals in the state-owned railway network, marked with 'K' in the table in Appendix 2B, are used for loading timber. The marking 'Y' means a private loading area leased by the facility owner.

Appendix 7E contains a list and more detailed information on the Finnish Transport Infrastructure Agency's loading facilities.

3.2 Name of installation

The timber loading facilities are named after the locality of the railway traffic operating point, and a specifier is added to the name, if necessary.

3.3 Location

The locations of the timber loading facilities of the state-owned railway network are described in Appendices 2B and 7E to the Network Statement and in the map service. A connection to a private siding provided at a traffic operating point in the state-owned railway network is indicated in the tables of Appendices 2B and 7E.

3.4 Opening hours

As a rule, the timber loading facilities in the state-owned railway network are accessible on a 24/7 basis all year round. There may be restrictions on traffic and loading/unloading operations in certain timber loading facilities. For more information, contact the FTIA's Maintenance Department. (see section 1.2).

3.5 Technical characteristics

The loading facilities are available to railway operators and charterers for the purpose of loading timber wagons. The number and length of the loading tracks and the provision for using electric traction is presented in the track diagrams for each specific track.

The availability of loading facilities for unloading cargo is examined on a case-by-case basis, as needed.

3.6 Planned changes in technical characteristics

No major changes are planned to the technical characteristics of the current loading sites. At the Pello loading facility, the siding has been extended and the loading area has been expanded during 2022. Loading areas have also been expanded in Kitee and Kontiomäki during 2022. The rail profiles for siding at the

Ilomantsi loading facility will be increased in 2022-2023, so that the load-carrying capacity of loading wagons can be increased to 225 kN. Information on the construction of new loading facilities and changes in the current loading facilities is given in Appendix 7E to the Network Statement. Note:
New loading sites will be built in Seinäjoki and Vaala (Nuojua) in 2024. New loading facilities will be completed in 2023 in Oulainen and Haapajärvi, and the current loading facilities will be decommissioned in autumn 2023. The names of the loading sites will remain unchanged. A new loading site will be completed in Pesiökylä in 2023.

The target status and development of the timber loading point network is discussed in the publication 'The situation and future view of the loading site network for timber on the railway network.' (Publications of the Finnish Transport Infrastructure Agency 29/2022; in Finnish).

4 Charges

4.1 Information on charges

Access to the timber loading facilities in the railway network is covered by the basic infrastructure charge. A rent is payable for the storage areas provided as part of the loading facilities with the same national rate. The rent for storage is EUR 0.38/m^2/year. The exception is the Patokangas loading facility in Kemijärvi where rent for storage is EUR 0.60/m^2/year. The rent for the storage area does not include maintenance costs that are charged from the leaseholder as agreed in the lease agreement. No significant changes are expected in the rents set out in the lease agreements.

4.2 Information on discounts

No discounts are granted.

5 Terms of use

5.1 Legal requirements

Track access to and the terms of use of timber loading facilities are agreed upon in the network access agreements. If several railway operators use the same loading facility, a railway yard agreement is prepared for the facility under the Finnish Transport Infrastructure Agency if necessary. For more information, see chapter 2.3 of the Network Statement.

An agreement on the rent charged for the timber loading facilities and on the right to use the facilities is concluded between the user and the FTIA. The contact point is the FTIA's Maintenance Department (see section 1.2).

5.2 Technical conditions

Information on the maximum length and axle load of rolling stock arriving at a service facility, the length of loading tracks and the provision for using electric

traction on each specific track can be found in the track diagrams available in the Railway Information Extranet (in Finnish).

The loading contractors operating in the loading facilities must purchase their own power connection for their own use. As a rule, the connection must be located outside the area owned by the infrastructure manager. If, however, it must be placed in the land area administered by the infrastructure manager, a location permit for the connection must be prepared. The loading contractors operating in the loading facilities must also purchase their own data connection for their own use.

The placement of possible other services must be agreed upon with the FTIA's Maintenance Department.

5.3 Self-supply of rail-related services

The Finnish Transport Infrastructure Agency does not provide services in these service facilities. The supply of services is based on the operations of each service facility user. The placement of possible services must be agreed upon with the FTIA's Maintenance Department.

There may be loading facilities owned by various private operators in the private sidings connected to the state-owned railway network. Connecting a private siding to the state-owned railway network requires the preparation of a private siding agreement in accordance with the agreement template used by the Finnish Transport Infrastructure Agency. More information on private siding agreements (in Finnish).

5.4 IT systems

The arrival/departure tracks of loading facilities can be viewed in Fintraffic's data systems, such as the capacity management system LIIKE and its modules. Data systems for rail capacity management are being developed, and the railway yard capacity management will gradually be transferred to a new information system (SAAGA).

6 Capacity allocation

6.1 Requests for access or services

Track access to timber loading facilities is agreed on in the of the network access agreements.

For the purpose of access agreement negotiations, the railway operator or another capacity applicant must deliver to the infrastructure manager a free-form estimate of their loading facility needs at each traffic operating point annually by the end of September. Based on the track access requirements reported by the railway operators, the infrastructure manager estimates whether it is necessary to prepare separate railway yard agreements for specific traffic operating points or if other capacity management procedures are required.

If there are any changes in the railway operators' operations that affect both the needs for access to loading facilities during the timetable period and the issues described in this appendix or in the access agreement, they should contact the infrastructure manager in good time (at least two months before the capacity is needed), so that the negotiations about access to the capacity of the loading facilities and the related practical arrangements can be commenced. The infrastructure manager must also be notified if the need for capacity ends or is reduced during the timetable period.

Any railway yard-specific operating methods are described in the access agreement's enclosures specific to each traffic operating point (railway yard agreement) with respect to the common management of situational information on tracks. In addition, railway operators may participate in regional meetings for planning snow clearing operations or other cooperation procedures which are organised each autumn.

The railway operator must consider the longitudinal gradient of the loading track presented in the track diagram and ensure that the rolling stock stays in place.

Applications concerning the leasing of storage sites are sent to the FTIA's Maintenance Department. (see chapter 1.2).

6.2 Response to requests

Applications for track access at loading facilities are answered within the deadlines set by the Rail Regulatory Body (reg. no. TRAFICOM/270984/03.06.04/2019) no later than within 30 days from receiving sufficient information for processing the application.

Any urgent needs are responded to as soon as possible, but no later than within five working days from receiving all necessary information for processing the application. With respect to processing applications, the contact person for agreement matters is the person responsible for agreements at Infrastructure Access Department. Fintraffic's traffic planning should be contacted in matters regarding ad hoc capacity needs (see chapters 1.2 and 6.1).

Applications concerning the leasing of storage sites should be sent to the FTIA's Maintenance Department. (see chapter 1.2).

In case of conflicting needs of access to loading facilities, the aim is to find solutions through negotiation and coordination, if necessary, in collaboration with the operators and infrastructure managers of other service facilities.

6.3 Information on available capacity and temporary capacity restrictions

Information on available rail capacity and temporary capacity restrictions is visible to all operators in the data system for rail capacity management (LIIKE/SAAGA). Information on traffic planning or traffic control can also be requested from Fintraffic. Further information on the availability of storage areas will be provided by the FTIA's Maintenance Department (see section 1.2).

Updated 15 June 2023

Timber loading facilities in the railway network (Finnish Transport Infrastructure Agency)	Line section	Track kilometre	Loading tracks	Rail weight	Length of the loading track	Provision for electric traction	Private siding
Akaa => see Toijala	~~Toijala–Valkeakoski~~	~~149+400~~	~~r061~~	~~60E1~~	~~650~~	~~yes~~	
Akaa => see. Toijala	~~Toijala–Valkeakoski~~	~~149+400~~	~~r062~~	~~60E1~~	~~650~~	~~yes~~	
Alapitkä	Pieksämäki–Kontiomäki	505+840	r004	K30	237	no	
Alavus	Orivesi–Seinäjoki	373+445	r834	K30	664	no	
Arola	Kontiomäki–Vartius-raja	707+668	r464	54E1	705	no	
Eno	Joensuu–Nurmes	660+170	r253	K43	625	no	
Haapajärvi*	Iisalmi–Ylivieska	649+205	r007	K30	698	no	
Haapajärvi*	Iisalmi–Ylivieska	649+205	r014	K30	275	no	
Haapajärvi*	Iisalmi–Ylivieska	649+205	r009	K30	718	no	
Haapajärvi*	Iisalmi–Ylivieska	649+205	r015	K30	225	no	
Haapajärvi, new*	Iisalmi–Ylivieska		r571	54E1	650	yes	
Haapajärvi, new*	Iisalmi–Ylivieska		r572	54E1	650	yes	
Haapamäki	Orivesi–Seinäjoki	300+235	r410	54E1	721	no	
Hammaslahti	Kouvola–Joensuu	602+199	r004	54E1	657	yes	
Hankasalmi	Jyväskylä–Pieksämäki	418+089	r304	54E1	483	yes	yes
Heinola	Lahti–Heinola	167+607	r008	K43	469	no	
Heinävaara	Joensuu–Ilomantsi	648+408	r002	K30	684	no	
Heinävaara	Joensuu–Ilomantsi	648+408	r003	K30	234	no	
Humppila	Toijala–Turku	188+778	r634	54E1	413	no	
Hyrynsalmi	Kontiomäki–Ämmänsaari	704+601	r004	60E1	588	no	
Hyrynsalmi	Kontiomäki–Ämmänsaari	704+601	r012	60E1	875	no	
Hämeenlinna	Riihimäki–Tampere	107+559	r007	54E1	599	yes	
Hämeenlinna	Riihimäki–Tampere	107+559	r008	54E1	293	yes	
Härmä	Seinäjoki–Oulu	472+940	r574	54E1	635	no	
Ilomantsi	Joensuu–Ilomantsi	695+203	r002	54E1	753	no	
Ilomantsi	Joensuu–Ilomantsi	695+203	r003	54E1	633	no	
Ilomantsi	Joensuu–Ilomantsi	695+203	r004	54E1	496	no	
Immola/Imatra	Kouvola–Joensuu	332+699	r682	54E1	581	no	
Immola/Imatra	Kouvola–Joensuu	332+699	r683	54E1	518	no	
Immola/Imatra	Kouvola–Joensuu	332+699	r684	54E1	540	no	
Isokyrö	Seinäjoki–Vaasa	447+488	r603	K30	189	no	
Joroinen	Huutokoski–Savonlinna	414+617	r272	54E1	881	no	
Jämsä	Tampere–Jyväskylä	284+084	r009	54E1	302	no	
Kalvitsa	Kouvola–Pieksämäki	330+634	r784	54E1	944	yes	
Kannonkoski	Äänekoski–Haapajärvi	488+694	r002	K30	736	no	
Kannonkoski	Äänekoski–Haapajärvi	488+694	r011	K30	243	no	
Karjaa	Hyvinkää–Karjaa	87+056/157+817	r35	54E1	352	yes	
Karjaa	Hyvinkää–Karjaa	87+056/157+817	r36	54E1	428	yes	
Karjaa	Hyvinkää–Karjaa	87+056/157+817	r38	54E1	448	no	
Kauppilanmäki	Pieksämäki–Kontiomäki	568+751	r393	54E1	489	no	
Keitelepohja	Äänekoski–Haapajärvi	519+256	r002	K30	670	no	
Keitelepohja	Äänekoski–Haapajärvi	519+256	r003	K30	674	no	
Kerimäki	Savonlinna–Parikkala	495+531	r673	K43	454	no	
Kitee	Kouvola–Joensuu	460+016	r004	54E1	603	yes	
Kitee	Kouvola–Joensuu	460+016	r031	54E1	578	yes	
Kiuruvesi	Iisalmi–Ylivieska	583+985	r284	54E1	443	no	
Kiuruvesi	Iisalmi–Ylivieska	583+985	r285	54E1	678	no	
Kokemäki	Lielahti–Kokemäki	284+442	r085	K43	592	no	
Kolari	Tornio–Kolari	1067+206	r605	54E1	1204	no	
Kolari	Tornio–Kolari	1067+206	r604	54E1	1029	no	
Kontiomäki	Pieksämäki–Kontiomäki	658+786	r884	54E1	664	yes	
Kontiomäki	Pieksämäki–Kontiomäki	658+786	r883	K43	645	yes	
Kontiomäki	Pieksämäki–Kontiomäki	658+786	r881	K43	636	yes	
Korkeakoski	Orivesi–Seinäjoki	247+910	r104	K43	299	no	yes
Kouvola lajittelu	Riihimäki–Kouvola	192+570	r162	54E1	282	no	yes
Kouvola lajittelu	Riihimäki–Kouvola	192+570	r163	54E1	282	no	yes
Kurkimäki	Pieksämäki–Kontiomäki	444+074	r005	54E1	535	no	
Kurkimäki	Pieksämäki–Kontiomäki	444+074	r006	54E1	534	no	
Kyrö	Toijala–Turku	232+875	r433	K43	596	no	
Lapinlahti	Pieksämäki–Kontiomäki	525+604	r004	K30	556	no	
Lapinlahti	Pieksämäki–Kontiomäki	525+604	r011	K30	379	no	
Lapua	Seinäjoki–Oulu	441+094	r454	54E1	317	no	
Lieksa	Joensuu–Nurmes	728+121	r555	K43	576	no	yes
Lohja	Hyvinkää–Karjaa	122+965	r469	54E1	338	no	
Lohja	Hyvinkää–Karjaa	122+965	r468	54E1	377	no	
Lohja	Hyvinkää–Karjaa	122+965	r470	54E1	287	no	
Luikonlahti	Siilinjärvi–Viinijärvi	557+061	r503	K30	353	no	
Luikonlahti	Siilinjärvi–Viinijärvi	557+061	r504	K30	214	no	
Naarajärvi	Jyväskylä–Pieksämäki	449+862	r503	K43	657	no	
Niirala	Niirala-raja–Säkäniemi	555+846	r013	K60	634	no	
Niirala	Niirala-raja–Säkäniemi	555+846	r019	K43	613	no	

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Timber loading facilities in the railway network (Finnish Transport Infrastructure Agency)	Line section	Track kilometre	Loading tracks	Rail weight	Length of the loading track	Provision for electric traction	Private siding
~~Nivala~~ (r683 will be discontinued 10/2023)	~~Iisalmi–Ylivieska~~	~~676+878~~	~~r683~~	~~K30~~	~~511~~	~~no~~	
Nivala	Iisalmi–Ylivieska	676+878	r684	K43	507	no	
Nummela	Hyvinkää–Karjaa	109+368	r363	K43	510	no	
Orivesi	Tampere–Jyväskylä	228+276	r537	K43	586	no	
Oulainen	Seinäjoki–Oulu	657+850	r021	54E1	413	no	
Oulainen	Seinäjoki–Oulu	657+850	r022	54E1	396	no	
Oulainen*	Seinäjoki–Oulu					yes	
Parkano	Tampere–Seinäjoki	262+483	r006	54E1	716	yes	
Parkano	Tampere–Seinäjoki	262+483	r007	54E1	790	yes	
Patokangas	Kemijärvi–Patokangas	1064+591	r904	54E1	581	yes	yes
Patokangas	Kemijärvi–Patokangas	1064+591	r905	54E1	581	yes	yes
Patokangas	Kemijärvi–Patokangas	1064+591	r906	54E1	627	yes	yes
Pello	Tornio–Kolari	1002+632	r403	54E1	630	no	yes
Pesiökylä*	Kontiomäki–Pesiökylä						
Petäjävesi	Haapamäki–Jyväskylä	343+357	r673	K43	483	no	
Pihtipudas	Äänekoski–Haapajärvi	540+605	r002	K30	784	no	
Pihtipudas	Äänekoski–Haapajärvi	540+605	r003	K30	797	no	
Piikkiö	Helsinki–Turku satama	182+785	r003	54E1	310	no	
Pitkämäki	Nurmes–Kontiomäki	789+619	r902	60E1	610	no	yes
Poiksilta	Kouvola–Joensuu	416+728	r011	54E1	737	no	
Pori	Kokemäki–Pori	322+278	r822	K43	803	no	
Pyhäsalmi*	Iisalmi–Ylivieska	615+934	r484	K30	552	no	
Pyhäsalmi	Iisalmi–Ylivieska	615+934	r488	54E1	319	no	
Pyhäsalmi	Iisalmi–Ylivieska	615+934	r489	54E1	169	no	
Rahkola (Seinäjoki)*							
Rantasalmi	Huutokoski–Savonlinna	445+165	r473	54E1	850	no	
Ristiina	Mynttilä–Ristiina	291+162	r002	K30	888	no	
Rovaniemi	Laurila–Kemijärvi	971+775	r664	K43	846	yes	
Rovaniemi	Laurila–Kemijärvi	971+775	r666	K43	766	yes	
Rovaniemi	Laurila–Kemijärvi	971+775	r669	K43	762	yes	
Ruukki	Seinäjoki–Oulu	705+228	r555	K30	602	no	
Ruukki	Seinäjoki–Oulu	705+228	r556	K30	459	no	
Saarijärvi	Äänekoski–Haapajärvi	452+723	r004	K30	576	no	
Salo	Helsinki–Turku satama	143+981	r101	54E1	404	no	
Salo	Helsinki–Turku satama	143+981	r102	54E1	401	no	
Sukeva	Pieksämäki–Kontiomäki	589+222	r494	54E1	536	no	
Suolahti	Jyväskylä–Äänekoski	417+796	r394	54E1	625	no	
Sysmäjärvi	Siilinjärvi–Viinijärvi	669+601	r602	K43	640	no	
Teuva*	Seinäjoki–Kaskinen	497+474	r542	54E1	560	no	
Sänkimäki	Siilinjärvi–Viinijärvi	504+505	r252	K30	693	no	
Tohmajärvi	Niirala-raja–Säkäniemi	571+752	r273	K43	462	no	
Tohmajärvi	Niirala-raja–Säkäniemi	571+752	r274	K43	455	no	
Toijala (Akaa)	Toijala–Valkeakoski	149+400	r061	60E1	650	yes	
Toijala (Akaa)	Toijala–Valkeakoski	149+400	r062	60E1	650	yes	
Turku tavara*	Helsinki–Turku satama	200+460	r354	K43	345	no	yes
Tuupovaara	Joensuu–Ilomantsi	668+672	r002	K30	603	no	
Tuupovaara	Joensuu–Ilomantsi	668+672	r003	K30	605	no	
Uimaharju	Joensuu–Nurmes	674+451	r359	54E1	527	no	yes
Vaajakoski	Jyväskylä–Pieksämäki	384+866	r103	54E1	336	no	
Vaajakoski	Jyväskylä–Pieksämäki	384+866	r107	K43	312	no	
Varkaus	Pieksämäki–Joensuu	424+685	r109	K43	347	no	yes
Varkaus	Pieksämäki–Joensuu	424+685	r111	K43	307	no	yes
Varkaus	Pieksämäki–Joensuu	424+685	r112	K30	404	no	yes
Vartius	Kontiomäki–Vartius-raja	753+755	r665	54E1	381	yes	
Vilppula	Orivesi–Seinäjoki	274+760	r206	K43	587	no	
Vuokatti	Nurmes–Kontiomäki	868+838	r004	54E1	577	no	
Vuokatti	Nurmes–Kontiomäki	868+838	r005	54E1	363	no	
Vuokatti	Nurmes–Kontiomäki	868+838	r008	54E1	345	no	
Vuokatti	Nurmes–Kontiomäki	868+838	r011	54E1	312	no	
Ykspihlaja väliratapiha	Kokkola–Ykspihlaja	555+511	r011	54E1	902	no	yes
Ylivieska	Seinäjoki–Oulu	630+343	r603	K43	402	no	
Ylivieska	Seinäjoki–Oulu	630+343	r604	K43	389	no	
Ylämylly	Pieksämäki–Joensuu	638+981	r803	K43	579	no	
Ylöjärvi	Tampere–Seinäjoki	200+753	r004	54E1	230	no	
Ypykkävaara	Kontiomäki–Vartius-raja	729+780	r563	54E1	775	no	
Ämmänsaari*	Kontiomäki–Ämmänsaari	750+448	r001	K30	721	no	
Ämmänsaari*	Kontiomäki–Ämmänsaari	750+448	r003	K30	597	no	

* A new loading facility will be constructed in Haapajärvi in 2023 and its commissioning schedule will be specified separately.
The use of the current Haapajärvi loading facilities will end in October 2023; the timetable will be specified separately.
* Oulainen is a new loading site, which will be completed in 2023 and whose commissioning schedule will be specified separately.
* The Pesiökylä loading site will be completed in autumn 2023, with the aim of commissioning at the beginning of September 2023. Note: the loading site is available at reduced speeds (loading site, line track) until the turn of the year/winter 2024 when the signalling system upgrade is completed.
* Pyhäsalmi r484: possible restrictions in use from October 2023, to be specified.

* Rahkola is a new loading site and it will be completed in 2024. Its commissioning schedule will be specified separately.
* Usability of the Teuva loading site will depend on the operability of the line section Seinäjoki–Kaskinen.
It is estimated that the use of the Turku tavara loading site will be terminated in spring 2024.
* Ammänsaari: the use of the new loading facilities in Pesiökylä are due to be discontinued at the beginning of 2024. The schedule will be specified separately.

Service facility description: Train formation yards

1 General information

1.1 Introduction

This service description describes the different uses of train formation yards in the state-owned railway network and the terms and conditions for accessing them.

Separate service descriptions have been prepared on the traffic control service for shunting operations and the use of maintenance equipment, inclines and storage sidings.

The Finnish Transport Infrastructure Agency has prepared this service facility document in compliance with the requirements set in the Commission Implementing Regulation (EU) 2017/2177. The service is a basic service referred to in point 2 of Annex II to Directive 2012/34/EU.

1.2 Operator of the service facility

Operator of the service facility:

Finnish Transport Infrastructure Agency
Infrastructure Access Department
Opastinsilta 12 A
FI-00520 Helsinki
kirjaamo@vayla.fi

The contact details for railway yards can be viewed in the Finnish Transport Infrastructure Agency's Alfresco workspace.

1.3 Validity period and updating process

This document is updated annually in connection with the publication of the Network Statement. If required, changes may also be made on the statement's revision dates during the timetable period.

2 Services

2.1 Use of marshalling yards

Train formation yards owned by the infrastructure manager may be used for recomposing of train wagons, train formation and temporary storage of rolling stock.

The infrastructure manager and the traffic control company as its service provider are responsible for the traffic control at traffic operating points. At railway

yards, limited area traffic control is performed by the service provider responsible for maintenance in that specific area. Detailed information (contact information, procedures and roles regarding the granting of permits) can be found in the Railway Information Extranet (in Finnish) at Liikenteenohjauksen yhteystiedot (Traffic control contact information).

3 Service facility description

3.1 List of all installations

The train formation yards owned by the infrastructure manager are marked with 'Shunting' in Appendix 2B to the Network Statement.

3.2 Name of installation

The official names and abbreviations of the names of the train formation yards owned by the infrastructure manager are listed in Appendix 2B and in the map service.

3.3 Location

The location of the train formation yards in the state-owned railway network is given in Appendix 2B (marked with 'Shunting') and in the map service.

3.4 Opening hours

All train formation yards are open on a 24/7 basis. Traffic control service hours are given in the infrastructure capacity management system and in the Railway Information Extranet. The information can also be requested as a list from palveluaika@fintraffic.fi.

3.5 Technical characteristics

The technical characteristics of the train formation yards are specified in the track diagrams available in the Railway Information Extranet (in Finnish).

Not all train formation yards are electrified. Information on electrified tracks can be viewed on the Finnish Transport Infrastructure Agency's Extranet pages.

3.6 Planned changes in technical characteristics

More information on the plans to develop train formation yards and projects under way .

4 Charges

4.1 Information on charges

No charges are collected for the use of train formation yards. Pricing of the traffic control service for shunting operations is described in the relevant service description.

4.2 Information on discounts

No discounts are granted.

5 Terms of use

5.1 Legal requirements

Access to and the terms of use of train formation yards are laid out in the network access agreements.

If several railway operators use the same train formation yard, a railway yard agreement will be prepared for the yard under the supervision of the Finnish Transport Infrastructure Agency. For more information, see chapter 2.3 of the Network Statement.

5.2 Technical conditions

Track-specific maximum length and axle load of the rolling stock arriving at the service facility as well as the need for diesel traction on each track are given in the track diagrams published in the Railway Information Extranet (in Finnish).

The railway operator must consider the longitudinal gradient presented in the track diagram and ensure that the rolling stock stays in place.

The national procedures for track access in Finnish train formation yards are described in the Network Statement and in the guidelines issued by the infrastructure manager (such as 'Junaliikenteen ja vaihtotyön turvallisuussäännöt' (Jt)). If necessary, the operations and specific features of each traffic operating point are also described and agreed on in the network access agreement and in the separate railway yard agreements enclosed in the network access agreement.

Carriage of dangerous goods is discussed in chapter 2.4.3 of the Network Statement.

Operating permits and access to shunting frames are granted by the traffic operator/the person issuing permits in the respective area. The traffic operator issues operating permits within the limits of the allocated rail capacity. The area limits where these permits are applicable are described in the track diagram of each traffic operating point. The communication regarding the operating permits must comply with the infrastructure manager's guidelines and the Network Statement.

Staff working in train formation yards must report any malfunctions that they have observed to the traffic controller of the traffic operating point. The traffic controller must decide on the necessary restrictions affecting operations on the basis of the malfunction reports before any corrective action is taken. The traffic controller must notify all parties of malfunctions affecting operations.

In general, train formation yards are not used for the maintenance or cleaning of rolling stock. If such a need arises, the use of the facility for such purposes must be separately agreed with the infrastructure manager. The infrastructure manager examines the impacts of maintenance and cleaning activities on a case-by-case basis and may also refuse from concluding an agreement.

5.3 Self-supply of rail-related services

The Finnish Transport Infrastructure Agency does not provide train formation services except for the protection of routes by the traffic controller. The supply of services is based on the operations of each service facility user.

5.4 IT systems

Railway yard tracks can be viewed in Fintraffic data systems, such as the capacity management system LIIKE and its modules. Data systems for rail capacity management are being developed, and the railway yard capacity management will gradually be transferred to a new information system (SAAGA).

6 Capacity allocation

6.1 Requests for access or services

The access to train formation yards is laid out in the network access agreements.

For the purpose of access agreement negotiations, the railway operator or another capacity applicant must deliver to the infrastructure manager a free-form estimate of their train formation yard needs at each traffic operating point annually by the end of September. Based on the track access requirements reported by the railway operators, the infrastructure manager estimates whether it is necessary to prepare separate railway yard agreements for specific traffic operating points or if other capacity management procedures are required.

If there are any changes in the railway operators' operations that affect both the needs for track access in train formation yards during the timetable period and the issues described in this appendix or set out in the access agreement, they must contact the infrastructure manager in good time (at least two months before the capacity is needed), so that the negotiations about access to railway yard capacity and the related practical arrangements can be commenced. The infrastructure manager must also be notified if the need for capacity ends or is reduced during the timetable period.

Any railway yard-specific operating methods are described in the access agreement's enclosures specific to each traffic operating point (railway yard agreement) with respect to the common management of situational information on tracks. In addition, railway operators may participate in regional meetings in the autumn, which are intended for planning snow clearing operations or other co-operation procedures.

6.2 Response to requests

Applications for access to train formation yards are answered within the deadlines set by the Rail Regulatory Body (reg. no. TRAFICOM/270984/03.06.04/2019) no later than within 30 days from receiving sufficient information for processing the application.

Any urgent needs are responded to as soon as possible, but no later than within five working days from receiving all necessary information for processing the application.

With respect to processing applications, the contact person for agreement matters is the person responsible for agreements at Infrastructure Access Department. Fintraffic's traffic planning should be contacted in matters regarding ad hoc capacity needs (see sections 1.2 and 6.1).

In case of conflicting needs of access to train formation yards, the aim is to find solutions through negotiation and coordination, if necessary, in collaboration with other service facility operators and infrastructure managers.

The priority criteria for operations, issuing of permits and track access applied in the train formation yards are described (in Finnish) in 'Junaliikenteen ja vaihtotyön turvallisuussäännöt' (Jt). Where necessary, other applicable priority orders may have been agreed upon with respect to specific railway yards in railway yard agreements. In addition to the priority order, the granted route access rights related to the applied services, the capability to use the applied capacity and the valid railway yard agreements are taken into account (Article 11 of Regulation 2017/2177).

6.3 Information on available capacity and temporary capacity restrictions

Information on temporary capacity constraints is visible to all operators via the JETI system. Information on the available track capacity can be found in the SAAGA system as the capacity control function expands nationally. Information on traffic planning or traffic control can also be requested from Fintraffic.

Service facility description: Inclines

1 General information

1.1 Introduction

This service facility description specifies access to and terms of use of inclines in the state-owned railway network.

The Finnish Transport Infrastructure Agency has prepared this service facility document in compliance with the requirements set in the Commission Implementing Regulation (EU) 2017/2177. This service facility is a basic service referred to in point 2 of Annex II to Directive 2012/34/EU.

1.2 Operator of the service facility

Operator of the service facility:

Finnish Transport Infrastructure Agency, Infrastructure Access
Opastinsilta 12 A, 00520 Helsinki
kirjaamo@vayla.fi

1.3 Validity period and updating process

This document is updated annually in connection with the publication of the Network Statement. If required, minor changes may also be made on the statement's revision dates during the timetable period.

2 Services

2.1 Incline

At the traffic operating points in Kouvola and Tampere, the railway operators have access to inclines for the recomposing of train wagons.

The infrastructure manager and the traffic control company as its service provider are responsible for the traffic control at traffic operating points. In railway yards, limited area traffic control is performed by the service provider responsible for maintenance in that specific area. Detailed information (contact information, procedures and roles regarding the granting of permits) can be found in the Railway Information Extranet (in Finnish) at Liikenteenohjauksen yhteystiedot (Traffic control contact information).

3 Service facility description

3.1 List of all installations

The tracks of the inclines are described in the track diagrams published in the Railway Information Extranet (in Finnish) .

For more information on the parts and technical characteristics of the inclines, see the operating instructions for inclines (in Finnish).

3.2 Name of installation

The inclines are named after their locality, and a specifier is added to the name, if necessary.

3.2.1 Location

Kouvola lajittelu
Tampere Viinikka

3.2.2 Opening hours

As a rule, the inclines are open on a 24/7 basis. The railway undertaking decides when the incline is accessible for train formation. When the hours of access are determined, it should be ensured that maintenance operators are able to carry out the necessary maintenance measures.

3.2.3 Technical characteristics

The number and length of marshalling tracks are shown in the track diagrams. The operating instructions for inclines will provide more detailed descriptions of their technical characteristics.

3.2.4 Planned changes in technical characteristics

No planned changes.

4 Charges

4.1 Information on charges

No charges are collected for using the inclines. The charges for the traffic control service for shunting operations are specified in the relevant service description.

4.2 Information on discounts

No discounts are granted.

5 Access conditions

5.1 Legal requirements

Access to and the terms of use of inclines are agreed upon in the access agreements, and operating instructions specific to each incline are to be followed.

The railway operator is responsible for ensuring that the operating personnel use the incline, tracks and the relevant systems and equipment in accordance with the operating instructions.

The infrastructure manager is responsible for the technical functionality, maintenance and development of the tracks and the relevant systems and equipment.

5.2 Technical conditions

Track-specific maximum length and axle load of the rolling stock arriving at the service facility as well as the need for diesel traction on each track are given in the track diagrams published in the Railway Information Extranet (in Finnish).

5.3 Self-supply of rail-related services

The Finnish Transport Infrastructure Agency does not provide services in these service facilities. The supply of services is based on the operations of each service facility user.

5.4 IT systems

The systems used for controlling inclines are described in the operating instructions for inclines.

6 Capacity allocation

6.1 Requests for access or services

The access to inclines is agreed upon in the network access agreements.

The railway operator or another capacity applicant must deliver to the infrastructure manager a free-form estimate of their incline needs at each traffic operating point before the start of access agreement negotiations. Based on the track access requirements reported by the railway operators, the infrastructure manager estimates whether it is necessary to prepare separate railway yard agreements for specific traffic operating points or if other capacity management procedures are required.

If any changes happen in the railway operators' operations that affect both the needs for track access to inclines during the timetable period and the issues described in this appendix or agreed upon in the access agreement, they must contact the infrastructure manager in good time (at least two months before the capacity is needed), so that the negotiations about access to incline capacity of the railway yards and the related practical arrangements can be commenced.

Any railway yard-specific operating methods are described in the access agreement's enclosures specific to each traffic operating point (railway yard agreement) with respect to the common management of situational information on tracks. In addition, railway operators may participate in regional meetings for planning snow clearing operations or other cooperation procedures which are organised each autumn.

For more information on the handling of dangerous goods, see chapter 2.4.3 of the Network Statement and the operating instructions for inclines.

Ad hoc capacity requests:

Decisions on meeting urgent need of access to inclines are made by Fintraffic's traffic planning, the traffic controller or, if necessary, by the Rail Traffic Management Centre, based on situational awareness (this includes reviewing of the situation with the various actors in the railway yard, if needed).

6.2 Response to requests

Applications for access to inclines are answered within the deadlines set by the Rail Regulatory Body (reg. no. TRAFICOM/270984/03.06.04/2019) no later than within 30 days from receiving sufficient information for processing the application.

Any urgent needs are responded to as soon as possible, but no later than within five working days from receiving all necessary information for processing the application. With respect to processing applications, the contact person for agreement matters is the person responsible for agreements at Infrastructure Access. Fintraffic's traffic planning should be contacted in matters regarding ad hoc capacity needs (see chapters 1.2 and 6.1).

In case of conflicting needs of access to inclines, the aim is to find solutions through negotiation and coordination, if necessary, in collaboration with the operators and infrastructure managers of other service facilities.

6.3 Information on available capacity and temporary capacity restrictions

Information on available capacity and temporary capacity restrictions is visible to all operators in the data system for rail capacity management (LIIKE). In addition, information may be requested from Fintraffic's traffic planning or traffic control.

Service facility description: Storage sidings

1 General information

1.1 Introduction

This appendix describes the operations and collaboration regarding traffic operating points in the state-owned railway network as well as track access in railway yards. This appendix to the Railway Network Statement and the infrastructure manager's guidelines specify the procedures for track access in Finnish railway yards. The operations and specific features of each traffic operating point are, if necessary, also described and agreed upon in the network access agreement and in the separate railway yard agreements enclosed in the access agreement as well as in agreements concluded with museum train traffic operators on the storage of rolling stock (section 2.3 of the Network Statement). Enclosures regarding specific traffic operating points may be added to the access agreement during the agreement period.

The Finnish Transport Infrastructure Agency has prepared this service facility document in compliance with the requirements set in the Commission Implementing Regulation (EU) 2017/2177. The service is a basic service referred to in point 2 of Annex II to Directive 2012/34/EU.

1.2 Operator of the service facility

Operator of the service facility:

Finnish Transport Infrastructure Agency
Infrastructure Access Department
Opastinsilta 12 A
FI-00520 Helsinki
kirjaamo@ftia.fi

The contact details for railway yards can be viewed in the Finnish Transport Infrastructure Agency's Alfresco workspace.

1.3 Validity period and updating process

This document is updated annually in connection with the publication of the Network Statement. If required, changes may also be made on the statement's revision dates during the timetable period.

2 Services

2.1 Storage of rolling stock

Storage sidings are primarily intended for the parking of wagons and coaches waiting to be used in transport services. In general, storage siding requirements can be divided into long-term and temporary storage needs.

Long-term storage of rolling stock is described in section 3.3 of the Network Statement.

Storage sidings may also be used for other purposes required by train traffic. Storage sidings are not intended for the maintenance or cleaning of rolling stock. If such a need arises, the use of the storage sidings for such purposes must be separately agreed with the Finnish Transport Infrastructure Agency. Only railway operators may park wagons on storage sidings. The Finnish Transport Infrastructure Agency determines which tracks can be used as storage sidings.

3 Service facility description

3.1 List of all installations

Storage sidings at each traffic operating point are listed in Appendix 2B to the Network Statement.

3.2 Name of installation

Storage sidings are named so that the abbreviation of the traffic operating point comes first, followed by the track number (= track identifier). The track identifiers are shown in the infrastructure capacity management systems and in track diagrams (see also section 5.2).

3.3 Location

The locations of traffic operating points in the state-owned railway network are specified in Appendix 2B to the Network Statement and in the map service. The locations of storage sidings in traffic operating points are specified in track diagrams.

3.4 Opening hours

Storage sidings are available on a 24/7 basis and they can be used as agreed. The service times (traffic control, railway yard traffic control or signal box operator service) differing from this rule can be found in the LIIKE system. The details can also be requested as a list from palveluaika@fintraffic.fi.

3.5 Technical characteristics

Sidings: number and length (in metres) of storage sidings are stated in Appendix 2B to the Network Statement (see also section 5.2).

3.6 Planned changes in technical characteristics

No changes are planned to the technical characteristics of storage sidings.

4 Charges

4.1 Information on charges

No charges are collected for using storage sidings. The access charge for the Ilmala railway yard is given in Appendix 7K (Maintenance facilities and equipment).
If the use of storage sidings involves the lease of land areas, a lease is charged in accordance with the service description in Appendix 5D.

4.2 Information on discounts

No discounts are granted on the use of storage sidings.

5 Access conditions

5.1 Legal requirements

If required, a railway yard agreement is prepared for railway yards used by several railway operators. The railway yard agreements are timetable period-specific, and they must be renegotiated prior to the start of each timetable period. A railway yard agreement may also be renegotiated during the timetable period.

If required, information on railway yards subject to a valid railway yard agreement and the models of valid agreements may be requested from Infrastructure Access Department. However, it should be noted that the agreement model may change for the timetable period of the Network Statement in question.

A new capacity management function and the SAAGA system will be introduced for the management of railway yards in stages starting from the timetable period 2022.

SAAGA is an information system entity used to request, process and grant capacity in railway yards and on the line. The SAAGA track view shows tracks visually, trains arriving and departing, track reservations and advance notifications.

The aim is to ensure an equal situational picture for all railway yard operators. The operating models will change as implementation progresses nationally, and contacts related to track use planning will be transferred from traffic planning and traffic control to capacity management.

5.2 Technical conditions

Track-specific maximum length and axle load of the rolling stock arriving at the service facility as well as the need for diesel traction on each track are given in the track diagrams published in the Railway Information Extranet (in Finnish). The number and lengths of the storage sidings are also given in Appendix 2B.

5.3 Self-supply of rail-related services

Rolling stock may also be stored on private sidings connected to the state-owned railway network. Connecting a private siding to the state-owned railway network requires the preparation of a private siding agreement in accordance with the agreement template used by the Finnish Transport Infrastructure Agency.

5.4 IT systems

Railway yard tracks can be viewed in Fintraffic data systems, such as the capacity management system LIIKE and its modules. The Advance Information System JETI is used for temporary and fixed-term reservation of storage sidings. Later, the SAAGA System will be used. More information about the information systems (in Finnish).

As the infrastructure manager, the Finnish Transport Infrastructure Agency provides further information on railway yard storage sidings. If the need to use storage sidings is continuous, a railway yard agreement must be concluded among the operators under the supervision of the Finnish Transport Infrastructure Agency, if required. See chapter 6.

6 Capacity allocation

6.1 Requests for access or services

Agreement level

The need and the right to access railway yard tracks are discussed and agreed in the access agreement. The railway operator or another capacity applicant must deliver to the infrastructure manager a free-form estimate of their rolling stock storage needs (track reservations) at each traffic operating point before the start of access agreement negotiations. Based on the track access requirements reported by the railway operators, the infrastructure manager estimates whether it is necessary to prepare separate railway yard agreements for specific traffic operating points or if other capacity management procedures are required.

If the operation of a railway operator is, during the timetable period, subject to such changes to track requirements that affect the matters described in this appendix or agreed upon in the access agreement or its enclosures, the railway operator must contact the infrastructure manager regarding the matter as soon as possible.

If a museum train traffic operator needs to store its rolling stock in the state-owned railway network, an agreement on the storage of the rolling stock must be concluded with the infrastructure manager. The agreement concerns a single timetable period and each agreement must be considered on a case-by-case basis. The infrastructure manager may, for justifiable reasons, refuse to enter into such an agreement.

Any railway yard-specific operating methods are described in the access agreement's enclosures specific to each traffic operating point (railway yard agreement) with respect to the common management of situational information on tracks. In addition, railway operators may participate in regional meetings for planning snow clearing operations or other cooperation procedures which are organised each autumn.

Storage of dangerous goods is discussed in more detail in chapter 2.4.3 of the Network Statement.

Ad hoc capacity requests

During the timetable period, railway operators may report their temporary and fixed-term needs for storage sidings with an advance plan in the JETI system or a rail reservation in the SAAGA information system in which case Fintraffic's traffic planning will check the suitability of the storage siding. Decisions on meeting urgent storage needs are made by Fintraffic's traffic planning, the traffic controller or, where necessary, the Rail Traffic Management Centre, based on current situation (incl. examining the railway yard's situation in the required extent with the various operators using the railway yard).

The information required for processing storage siding applications include the duration and date of the storage need as well as the location and required quantity (required train length). The railway operator must consider the longitudinal gradient presented in the track diagram and ensure that the rolling stock stays in place.

The storage needs are also listed in the LIIKE or SAAGA System as advance notifications, which means that the railway operators must enter the information in the JETI System and ensure that the notifications are removed from JETI as soon as the storage need ends. If the storage need continues after the end date, the railway operator must submit a new JETI notification or it must immediately notify the traffic control or the Rail Traffic Management Centre of the matter. The traffic planning or the Rail Traffic Management Centre may, however, refuse to grant the storage permit, if the situation so requires. In that case, the railway operator must, within a reasonable time, move the rolling stock to another storage location designated for the purpose

6.2 Response to requests

Applications concerning storage siding needs are answered within 30 days from receiving sufficient information for processing the application. Any urgent rolling stock storage needs are responded to as soon as possible, but no later than within five working days after all necessary information for processing the application has been received. With respect to processing of requests, the contact person for railway yard agreements and agreements on the storage of museum train traffic operators' rolling stock is the person responsible for agreements at Infrastructure Access. Please contact Fintraffic's traffic planning in matters regarding temporary storage needs (see chapters 1.2 and 6.1).

The priority criteria for operation, granting of permits and track use in railway yards are specified in section 6.2.2 (Congested infrastructure and priority criteria) of the Network Statement. Where necessary, other applicable priority orders may have been agreed upon with respect to specific railway yards in railway yard agreements. In addition to the priority order, the granted route access rights related to the applied services, the capability to use the applied capacity and the valid railway yard agreements are taken into account (Article 11 of Regulation 2017/2177).

The infrastructure manager and the traffic control company as its service provider are responsible for the traffic control at traffic operating points. At railway yards, limited area traffic control is performed by the service provider responsi-

ble for maintenance in that specific area. Detailed information (contact information, procedures and roles regarding the granting of permits) can be found in the Railway Information Extranet (in Finnish) at Liikenteenohjauksen yhteystiedot (Traffic control contact information).

In case of conflicting needs for track use, the aim is to find solutions through negotiations and coordination and, if required, in collaboration with other service facility operators and infrastructure managers. Other viable alternatives, such as an alternative location or time for the storage of rolling stock, may be proposed to the applicant (Article 10 of Regulation 2017/2177).

6.3 Information on available capacity and temporary capacity restrictions

Information on temporary capacity constraints is visible to all operators via the JETI system. Information on the available track capacity can be found in the SAAGA system as the capacity control function expands nationally. Information on traffic planning or traffic control can also be requested from Fintraffic.

Service facility description: Use of storage sidings for wagons loaded with dangerous goods in national railway yards handling dangerous goods in the state-owned railway network

1 General information

1.1 Introduction

As laid down in the decree, the Finnish Transport and Communications Agency Traficom has designated the national railway yards handling dangerous goods in its regulation (RVI/2120/ 090/2007, 15.1.2008). The railway yards designated as railway yards handling dangerous goods are managed by the Finnish Transport Infrastructure Agency. The operations of these railway yards are supervised by Traficom.

Under the Act on the Transport of Dangerous Goods (719/1994), a railway undertaking must prepare a safety assessment for a railway yard designated by Traficom as a railway yard handling substantial amounts of dangerous goods, and keep the document up to date. The Finnish Transport Infrastructure Agency prepares a safety assessment for the railway yard as a whole using the railway operators' safety assessments as a basis and ensures that the activities described in the safety assessment comprise a smoothly functioning entity for safety purposes.

A risk assessment and a rescue plan for the railway yard are appended to the safety assessment. Dangers to humans, the environment and property and the likelihood of a major accident are considered in the risk assessment. The rescue plan prepared for the railway yard supplements the safety assessment and it describes the preparedness for accidents in the railway yard. Thermal radiation and spreading models for serious accidents and instructions for accident situations are also detailed in the plan.

1.2 Operator of the service facility

Finnish Transport Infrastructure Agency
Infrastructure Access, Safety and Information Division
Opastinsilta 12 A
FI-00520 Helsinki

Fintraffic Ltd
Palkkatilanportti 1
FI-00240 Helsinki

For the contact details of Fintraffic's traffic planning, visit the websites of the Finnish Transport Infrastructure Agency and Fintraffic (in Finnish).

1.3 Validity period and updating process

This document is updated annually in connection with the publication of the Network Statement. If required, minor changes may also be made on the statement's revision dates during the timetable period.

2 Services

2.1 Handling and parking of wagons loaded with dangerous goods

The storage sidings for wagons loaded with dangerous goods are railway yard tracks primarily intended for the parking of wagons loaded with dangerous goods and waiting to be used in transport services. The railway operator is responsible for the handling and storage of dangerous goods in railway yards designated for the purpose and their parts.

The Traficom-designated national railway yards handling dangerous goods are located in Hamina, Joensuu, Kotka, Kouvola, Kokkola, Niirala, Oulu, Riihimäki, Sköldvik, Tampere, Turku and Vainikkala (see Appendix 2B). The storage of dangerous goods is permitted in railway yards designated for handling dangerous goods and in temporary storage locations agreed on between the infrastructure manager and the railway operator: Harjavalta (VR tracks 303-308), Pieksämäki (VR tracks 843-847) and Talvivaara (VR tracks 995, 995, 997, 998).

The document 'Junaliikenteen ja vaihtotyön turvallisuussäännöt' (Jt) of the Finnish Transport Infrastructure Agency must be observed when wagons loaded with dangerous goods are moved and stored. The railway operator's personnel must be familiar with the contents of the safety assessments and rescue plans prepared for railway yards handling dangerous goods and the requirements relevant to their own work laid out in the documents. The rescue plans and the safety assessments can be viewed in the Railway Information Extranet of the Finnish Transport Infrastructure Agency.

The railway operator is responsible for familiarising its personnel working in the area with the requirements.

The composition of the trains carrying dangerous goods must be known to the traffic control at all times so that it can take the necessary action during accidents and rescue operations. The composition data comprises the numbers of the trains and of the wagons parked in the railway yard as well as the total length and weight of the trains. The details of the dangerous goods carried in each wagon and their amounts (including the UN numbers) must also be available.

In case of temporary congestion of wagons loaded with dangerous goods, the railway operators must move other wagons to temporary storage sidings designated by the Finnish Transport Infrastructure Agency or Fintraffic's traffic planner. The Finnish Transport Infrastructure Agency or Fintraffic's traffic planner will notify the operators of the need to move the wagons.

3 Service facility description

3.1 Service facility description

The storage sidings for wagons loaded with dangerous goods in national railway yards handling dangerous goods are listed in Appendix 2B to the Network Statement.

The Finnish Transport Infrastructure Agency or (in operational situations) Fintraffic's traffic planning or traffic controller may also restrict the movements of other units in the areas described above, considering the safety of dangerous goods. The restrictions do not apply to rerouting of units in connection with preplanned track work or in unanticipated operational situations.

3.2 Name of installation

Storage sidings for wagons loaded with dangerous goods are named so that the abbreviation of the traffic operating point comes first, followed by the track number (= track identifier). The track identifiers are shown in the infrastructure capacity management systems and in track diagrams (see also section 5.2).

3.3 Position

The locations of the storage sidings for wagons loaded with dangerous goods are given in Appendix 2B to the Network Statement and in the map service.

3.4 Opening hours

Storage sidings for wagons loaded with dangerous goods are available on a 24/7 basis and can be used as agreed. The service times (traffic control, railway yard traffic control or signal box operator service) differing from this rule can be found in the LIIKE system. The details can also be requested as a list from palveluaika@fintraffic.fi.

3.5 Technical characteristics

The number of storage sidings for wagons loaded with dangerous goods and their length (in metres) are given in Appendix 2B to the Network Statement.

3.6 Planned changes in technical characteristics

No changes are planned to the technical characteristics of storage sidings.

4 Charges

4.1 Information on charges

The use of storage sidings for wagons loaded with dangerous goods is currently free of charge.

4.2 Information on discounts

No discounts are granted on the use of storage sidings.

4.3 Terms of use

4.4 Legal requirements

If several railway operators use the same railway yard for wagons loaded with dangerous goods, a railway yard agreement will be prepared for the facility under the supervision of the Finnish Transport Infrastructure Agency if necessary. The railway yard agreements are timetable period-specific, and they must be renegotiated prior to the start of each timetable period. A railway yard agreement may also be renegotiated during the timetable period.

If required, information on railway yards subject to a valid railway yard agreement and the models of valid agreements may be requested from Railway Network Access Unit. However, it should be noted that the agreement model may change for the timetable period of the Network Statement in question.

A new capacity management function and the SAAGA system will be introduced for the management of railway yards in stages starting from the timetable period 2022. it will replace separate railway yard agreements. However, if necessary, a separate railway yard agreement can be prepared and the SAAGA system can be used parallel to the agreement.

4.5 Technical conditions

The track-specific maximum length and axle load of the rolling stock arriving at the service facility as well as the need for diesel traction for each track are given in the track diagrams published in the Railway Information Extranet https://vayla.fi/palveluntuottajat/aineistot/ratatiedon-extranet (in Finnish). The lengths of the storage sidings for wagons loaded with dangerous goods are also given in Appendix 2B.

4.6 IT systems

Railway yard tracks can be viewed in Fintraffic's data systems, such as the capacity management system (LIIKE/SAAGA) and its modules. Temporary and fixed-term reservations of storage sidings for wagons loaded with dangerous goods are made using the JETI system for advance information on train traffic or the SAAGA system. Further information on data systems is available (in Finnish) at https://www.fintraffic.fi/fi/raide/tietojarjestelmat .

As the infrastructure manager, the Finnish Transport Infrastructure Agency provides further information on railway yard storage sidings. If the need to use storage sidings is continuous, a railway yard agreement must be concluded among the operators under the supervision of the Finnish Transport Infrastructure Agency, if required (see chapter 6).

5 Capacity allocation

5.1 Requests for access or services

Agreement level

The need and the right to access tracks in railway yards handling dangerous goods are specified in the network access agreement The needs are considered in conjunction with the other needs to access tracks in the railway yard. The railway operator or another capacity applicant must deliver to the infrastructure manager a free-form estimate of their rolling stock storage needs (track reservations) at each traffic operating point before the start of access agreement negotiations. Based on the track access requirements reported by the railway operators, the infrastructure manager estimates whether it is necessary to prepare separate railway yard agreements for specific traffic operating points or if other capacity management procedures are required.

If the operation of a railway operator is, during the timetable period, subject to such changes to track requirements that affect the matters described in this appendix or agreed upon in the access agreement or its enclosures, the railway operator must contact the infrastructure manager regarding the matter as soon as possible.

Any railway yard-specific operating methods are described in the access agreement's enclosures specific to each traffic operating point (railway yard agreement) with respect to the common management of situational information on tracks. In addition, railway operators may participate in regional meetings for planning snow clearing operations or other cooperation procedures which are organised each autumn.

Ad hoc capacity requests

During the timetable period, railway operators may report their temporary and fixed-term needs for storage sidings with an advance plan in the JETI system or the SAAGA information system whereby Fintraffic's traffic planning checks the suitability of the storage siding. Decisions on meeting urgent storage needs are made by Fintraffic's traffic planning, the traffic controller or, if necessary, by the Rail Traffic Management Centre, based on current situation (incl. examining the railway yard's situation in the required extent with the operators using the railway yard).

The information required for processing storage siding applications include the duration and date of the storage need as well as the location and required quantity (required train length). The railway operator must consider the longitudinal gradient presented in the track diagram and ensure that the rolling stock stays in place. The temporary storage of dangerous goods can be carried out at railway yards designated by Traficom or as described in chapter 2.1 of this appendix.

5.2 Response to requests

Applications concerning storage siding needs are answered within 30 days from receiving sufficient information for processing the application. Any urgent rolling stock storage needs are responded to as soon as possible, but no later than

within five working days after all necessary information for processing the application has been received. With respect to processing applications, the contact person for railway yard agreement matters is the person responsible for agreements at the Railway Network Access Unit, and Fintraffic's traffic planning should be contacted in matters regarding ad hoc capacity needs (see chapters 1.2 and 6.1).

The priority criteria for operation, granting of permits and track use in railway yards are specified in section 6.2.2 (Congested infrastructure and priority criteria) of the Network Statement. Where necessary, other applicable priority orders may have been agreed upon with respect to specific railway yards in railway yard agreements. In addition to the priority order, the granted route access rights related to the applied services, the capability to use the applied capacity and the valid railway yard agreements are taken into account (Article 11 of Regulation 2017/2177).

The infrastructure manager and the traffic control company as its service provider are responsible for the traffic control at traffic operating points. At railway yards, limited area traffic control is performed by the service provider responsible for maintenance in that specific area. Detailed information (contact information, procedures and roles regarding the granting of permits) can be found in the Railway Information Extranet (in Finnish) at Liikenteenohjauksen yhteystiedot (Traffic control contact information).

In case of conflicting needs for track use, the aim is to find solutions through negotiations and coordination and, if required, in collaboration with other service facility operators and infrastructure managers. Other viable alternatives, such as an alternative location or time for the storage of rolling stock, may be proposed to the applicant (Article 10 of Regulation 2017/2177).

5.3 Information on available capacity and temporary capacity restrictions

Information on available capacity and temporary capacity restrictions is visible to all operators in the data system for rail capacity management (LIIKE/SAAGA). Information on traffic planning or traffic control can also be requested from Fintraffic.

Service facility description: Maintenance facilities and equipment

1 General information

1.1 Introduction

This service facility description specifies access to and terms of use of rolling stock maintenance facilities and equipment owned by the Finnish Transport Infrastructure Agency in the state-owned railway network.

The Finnish Transport Infrastructure Agency has prepared this service facility document in compliance with the requirements set in the Commission Implementing Regulation (EU) 2017/2177. The service is a basic service referred to in point 2 of Annex II to Directive 2012/34/EU.

1.2 Operator of the service facility

Operator of the service facility:

Finnish Transport Infrastructure Agency
Railway Maintenance Services
Opastinsilta 12 A
FI-00520 Helsinki
kirjaamo@ftia.fi

1.3 Validity period and updating process

This document is updated annually in connection with the publication of the Network Statement. If required, minor changes may also be made on the statement's revision dates during the timetable period.

2 Services

2.1 Maintenance facilities and equipment

The Ilmala railway yard, owned by the Finnish Transport Infrastructure Agency, places rolling stock maintenance facilities and equipment at the disposal of railway operators. Access to the maintenance equipment in the Ilmala railway yard is included in the basic services.

The maintenance platforms at the Ilmala depot are services provided by the Finnish Transport Infrastructure Agency. Services available on the maintenance tracks include filling of thin oil and water tanks, feeding of heavy current, electrical rooms, compressed air outlets, heating points, brake trials using compressed air and vacuum emptying of septic tanks. In addition, there are separate tracks for washing rolling stock and applying traction sand to locomotive wheels. The oil-changing points are equipped with oil-absorbing mats to protect the environment.

The Finnish Transport Infrastructure Agency does not provide maintenance services for the technical maintenance of rolling stock. VR Group's Helsinki depot, which accommodates garages, maintenance and washing facilities, locomotive depots and lathes, is also situated in the Ilmala railway yard area. The services provided by VR Group Ltd and their prices can be found in the company's Network Statement.

3 Service facility description

3.1 List of all installations

The maintenance equipment owned by the Finnish Transport Infrastructure Agency and located in the Ilmala railway yard are shown in the track diagram and in the map service of the Network Statement.

The tracks of the Ilmala railway yard are described in the track diagrams published in the Railway Information Extranet (in Finnish)

3.2 Name of installation

Helsinki depot, Ilmala railway yard

3.3 Location

Location of and access to the services and facilities of the Ilmala railway yard are shown in the track diagram.

3.4 Opening hours

The Ilmala railway yard is accessible on a 24/7 basis all year round.

3.5 Technical characteristics

Railway operators have access to the maintenance facilities and equipment owned by the Finnish Transport Infrastructure Agency for the purpose of rolling stock maintenance. The number and length of maintenance tracks and the services available are described in track diagrams. More information on the technical characteristics is provided by the service facility operator (see chapter 1.2).

3.6 Planned changes in technical characteristics

No significant changes are planned

4 Charges

4.1 Information on charges

The access to the Ilmala railway yard is invoiced based on the capacity allocated to the transfer, excluding cancelled capacity. The access charge is EUR 16.20/transfer. The sum of the access charge is determined on the basis of the actual investment and maintenance costs.

The above-mentioned transfers do not correspond to the transfers referred to in the Rail Transport Act as the transfers detailed in this section mean the transfer of rolling stock as a train or as shunting by the railway undertaking to the Ilmala railway yard from such locations as the Helsinki Central Railway Station.

The number of incoming transfers is calculated for each railway undertaking separately on the basis of the infrastructure manager's reporting system, by halving the number of transfers so that double invoicing can be avoided (incoming and outgoing transfers). The invoicing is carried out on a monthly basis when the figures for the previous month have become available, unless otherwise agreed in the access agreement.

In return for paying the network access charge, railway undertakings may use the tracks in the Helsinki depot at Ilmala, their brake-testing systems, as well as the maintenance platforms and their equipment (including 1500 V feeder points and 400 V socket points), and move to the railway yard services.

The access charge does not cover the supply of water, electricity, oil, sand or other similar items or the processing or transport of the waste resulting from the use of the services. Other operators in the Ilmala railway yard may also charge fees for the use of their services (such as the maintenance facilities and lathes) and their pricing is not described in this document (for more information, see the network statement of VR Group Ltd and other operators).

The same index adjustment procedure is applied to the access charge as to the basic infrastructure charge. In addition to the annual index adjustments, other adjustments can also be made to the access charge for special reasons, and advance notification of these is given in the same manner as for the basic infrastructure charge.

4.2 Information on discounts

No discounts are granted.

5 Access conditions

5.1 Legal requirements

The tracks and services of the Finnish Transport Infrastructure Agency are available to all operators. Access to the tracks and services is laid out in the network access agreements. The procedure for more detailed agreement on track use in the Ilmala railway yard is described in Appendix 4A.

The maintenance, cleaning and repair of rolling stock must be carried out at appropriate places to be agreed upon with the infrastructure manager before operations begin on tracks in the state-owned railway network.

If necessary, the infrastructure manager will provide railway undertakings with guidance and instructions for the use of the equipment and structures referred to in this section. After having been notified by the railway undertaking of damage or malfunctioning of equipment or structures, the infrastructure manager will ensure that the equipment and structures will be restored, without undue delay, to a good working condition.

Railway undertakings must plan and implement the use of the equipment and structures so that all regulations concerning occupational and train safety are observed. Railway undertakings must provide all persons using the equipment or structures on behalf of the undertakings with adequate training in their use. Railway undertakings must ensure that their own personnel or the personnel working on behalf of the undertakings use the equipment and structures with care and in accordance with any guidance provided for their use and that the equipment and structures do not malfunction or become damaged for reasons arising from their use.

The use of services provided by VR Group Ltd or other service providers must be agreed upon with the service provider.

5.2 Technical conditions

The track-specific maximum length and axle load of the rolling stock arriving at the service facility as well as the need for diesel traction for each track are given in the track diagrams published in the Railway Information Extranet (in Finnish).

5.3 Self-supply of rail-related services

Agreements on access to maintenance services must be made with the maintenance providers. The infrastructure manager does not provide maintenance services. More information can be found on the VR website.

5.4 IT systems

For more information on the use of capacity management systems, visit the Finrail Ltd website (in Finnish):

6 Capacity allocation

6.1 Requests for access or services

The procedures related to requests for access to and supply of services in the Ilmala railway yard are described in Appendix 4A to the Network Statement. The railway undertaking must deliver to the infrastructure manager an estimate of the annual service needs, or the monthly number of transfers, by the time of access agreement negotiations.

6.2 Response to requests

The applications for the supply of services provided by the Finnish Transport Infrastructure Agency are answered within the deadlines set by the Rail Regulatory Body (reg. no. TRAFICOM/270984/03.06.04/2019) no later than within 30 days from receiving sufficient information for processing the application.

Any urgent needs are responded to as soon as possible, but no later than within five working days from receiving all necessary information for processing the application. With respect to processing applications, the contact person for agreement matters is the person responsible for agreements at Infrastructure

Access Department. Fintraffic's traffic planning should be contacted in matters regarding ad hoc capacity needs (see chapters 1.2 and 6.1).

In case of conflicting needs for supply of services, the aim is to find solutions through negotiation and coordination, if necessary, in collaboration with the operators and infrastructure managers of other service facilities. For more information on the procedures applied to the Ilmala railway yard, see Appendix 4A.

6.3 Information on available capacity and temporary capacity restrictions

Information on available capacity and temporary capacity restrictions is visible to all operators in the data system for rail capacity management. Information on traffic planning or traffic control can also be requested from Fintraffic.

Updated 15 June 2023

Finnish Transport
Infrastructure Agency

ISSN 2490-0745
ISBN 978-952-317-909-7
www.vayla.fi