

Draft

Commission Implementing [ACT]

on

the common specifications of the register of railway infrastructure referred to in Article 49 of Directive (EU) 2016/797 and repealing Decision 2014/880/EU

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Directive (EU) 2016/797 of the European Parliament and of the Council of 11 May 2016 on the interoperability of the rail system within the European Union, in particular Article 49 thereof,

Having regard to Regulation (EU) 2016/796 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 May 2016 on the European Union Agency for Railways and repealing Regulation (EC) No 881/2004 and in particular Article 37 thereof,

Whereas:

- (1) On the basis of Article 35 of Directive 2008/57/EC, the Commission adopted Implementing Decision 2014/880/EU of 26 November 2014 on the common specifications of the register of railway infrastructure. National data of these registers held by the Member States are publicly available for consultation via a computerised common user interface set up and managed by the European Union Agency for Railways (the “Agency”).
- (2) Article 49 of Directive (EU) 2016/797 states that the values of the parameters recorded in the register of infrastructure shall be used in combination with the values of the parameters recorded in the vehicle authorisation for placing on the market to check the technical compatibility between vehicle and network.
- (3) Article 49 of Directive (EU) 2016/797 requires also the Commission to adopt by means of implementing acts the common specifications for the register of infrastructure relating to content, data format, functional and technical architecture, operating mode and rules for data input and consultation.

- (4) Article 37 of Regulation (EU) 2016/796 requires the Agency to act as the system authority for all registers and databases referred to in particular in Directive (EU) 2016/797. In such capacity the Agency may address recommendations to the Commission regarding improvements to the existing registers.
- (5) The Agency has issued a Recommendation to the Commission regarding improvements to the Decision 2014/880/EU that needs to be repealed.

The measures provided for in this Decision are in accordance with the opinion of the Committee referred to in Article 51 of Directive (EU) 2016/797.

HAS ADOPTED THIS [DECISION/REGULATION]:

Article 1

Subject matter

1. The common specifications for the register of railway infrastructure as referred to in Article 49 of Directive (EU) 2016/797 are set out in the Annex to this [Decision].

Article 2

Architecture

1. The registers of infrastructure of Member States shall be made available for consultation via the common user inter-face set up and managed by the Agency.
2. The common user interface referred to in paragraph 1 is the web-based application facilitating access to the data contained in the registers of infrastructure developed according to Decision 2014/880/EU. It shall be updated according to the requirements of the common specifications referred to in Article 1 and operational not later than [1st December 2019].
3. The registers of Member States are considered to be available for consultation and linked to the Common User Interface as soon their data are uploaded and imported in this interface.

Article 3

Application guide

The Agency shall publish a guide on the application of the common specifications for the register of infrastructure not later than 15 days after the date of application and shall keep it up to date. This application guide shall provide, if appropriate, a reference to the relevant provisions of the Technical Specifications of Interoperability (TSIs) for each parameter.

Article 4
Further developments

When progress in the development of TSIs or in the implementation of the registers of infrastructure so requires or when developments in digitalisation so facilitate, the Agency shall recommend updates of the common specifications. In particular, the Agency shall assess the conditions of describing the network with accurate geometry for the sections of lines and the introduction of connectivity information providing details regarding the possibility to change from one line to another inside an operational point, at the latest two years after the date of application.

Article 5
Migration and keeping up to date

1. Member States shall ensure that their register of infrastructure fulfils the requirements of the common specifications referred to in Article 1 not later than [1st January 2020].
2. Member States shall ensure that the data collected and inserted before the date of application remain available via the common user interface developed according to Decision 2014/880/EU. They shall ensure that these data are reliable and up to date.
3. Member States shall ensure that the necessary data are collected and inserted in the register of infrastructure in accordance with paragraph 4 to 5. They shall ensure that these data are reliable and up to date.
4. Data defined in the Annex to this Decision shall be collected and inserted in the register of infrastructure in accordance with the national implementation plan referred to in Article 6(1) by [1st December 2020] at the latest.
5. Data relating to infrastructures placed in service after the date of application of this Decision shall be inserted in the register of infrastructure as soon as the infrastructures are placed into service and as soon as the updated common user interface becomes operational.

Article 6
National registration entity and national plan

1. Each Member State shall revise the national plan and the timetable developed according to Decision 2014/880/EU for the implementation of the obligations referred to in Article 5. The national implementation plan shall be submitted to the Commission not later than 2 months after the date of application.
2. Each Member State shall nominate or confirm its entity in charge of setting up and coordinating the Member State's register of infrastructure submission and notify the Commission thereof not later than one month after the date of application.

These entities shall send to the Agency three months after the date of their notification and henceforth every six months, a progress report on the implementation of the register of infrastructure.

3. The Agency shall coordinate, monitor and support the implementation of the registers of infrastructure. It shall set up a group composed of representatives of the entities in charge of setting up and maintaining the registers of infrastructure and coordinate its works. The Agency shall regularly report to the Commission on progress in implementing this Decision.

Article 7
Repeal

Decision 2014/880/EC is repealed with effect from the date of application set out in Article 8.

Article 8
Entry into force and application

This Decision shall enter into force on the _____ day following that of its publication in the Official Journal of the European Union. It shall apply from _____ 2019.

Article 9

This [Decision/Regulation] is addressed to the Member States and to the European Union Agency for Railways.

Done at Brussels, [...]

For the Commission
[...]

ANNEX

1. INTRODUCTION

1.1 Technical scope

1.1.1 These specifications concerns data about the following structural subsystems of the Union rail system:

- (a) the infrastructure subsystem,
- (b) the energy subsystem, and
- (c) the trackside control-command and signalling subsystem.

1.1.2 These subsystems are included in the list of subsystems in Annex II (1) to Directive (EU) 2016/797.

1.2 Geographical scope

The geographical scope of these specifications is the European Union rail system as determined by Directive (EU) 2016/797. It excludes the cases referred to in Article 1(3) and the infrastructures referred to in Article 1(4) (a) to (c) of Directive (EU) 2016/797.

2. PURPOSE

2.1 General

The main purpose of the register of infrastructure provided for in Article 49 of Directive (EU) 2016/797 (RINF) is to provide transparency on the characteristics of the network and to be used as a reference database. The RINF supports the processes described hereafter.

2.2 Designing Rolling Stock subsystems

Parameters from the RINF shall be used to identify infrastructure characteristics for the intended use of the rolling stock.

2.3 Ensuring technical compatibility for fixed installations

2.3.1 The notified body checks the conformity of the subsystems with the applicable TSI(s). Verification of interfaces for technical compatibility with the network into which a subsystem is incorporated may be ensured by consulting the RINF.

2.3.2 The body designated by each Member State checks the conformity of the subsystems when national rules apply and the RINF may be consulted to verify the interfaces for technical compatibility in these cases.

2.34 Publishing national rules of local nature

Member States may mention rules and restrictions of a strictly local nature in the RINF.

2.5 Monitoring progress of interoperability of the European Union railway network

Transparency about the progress of interoperability shall be ensured to monitor regularly the

development of a European Union interoperable network.

2.6 Checking feasibility of train service

The railway undertaking consults the register of infrastructure in order to identify where its business can be performed and to check which type of vehicle could be used to develop its train services taking into account its intended routes.

2.7 Checking the compatibility before the use of authorized vehicle by railway undertaking

Before a railway undertaking uses an authorised vehicle, it checks that the vehicle is compatible with the route looking at the information in the register of infrastructure or provided by the infrastructure manager. The railway undertakings performs the route compatibility check according to the procedure defined in its SMS and in interface with the IM, using the information provided in the appendices *[please add here reference of the OPE TSI relevant appendix]* and D of the technical specification for interoperability relating to the ‘operation and traffic management’ subsystem (OPE TSI) and the information available in the accompanying file attached to the authorisation of vehicles.

The railway undertaking shall also check that the combination of vehicles forming the train complies with the technical constraints of the route concerned.

2.8 Reference database

The RINF can be used as reference database:

- To draft the section of the network statement setting out the nature of the infrastructure which is available to railway undertakings and to produce the maps related to the infrastructure description;
- To allow the network statement to make references to the RINF;
- For the topology of the railway infrastructure network when applicable in other databases.

3. COMMON FEATURES

The features set out in this Annex are common to all registers of infrastructure of the Member States.

3.1 Definitions

For the purpose of these specifications:

- (a) ‘section of line’ (SoL) means the part of line between adjacent operational points and may consist of several tracks;
 - (b) ‘operational point’(OP) means any location for train service operations, where train services may begin and end or change route and where passenger or freight services may be provided; ‘operational point’ means also any location at boundaries between Member States or infrastructure managers;
- ‘location point’(LP) means any specific point on a track of a SoL where value of a

parameter changes.

- (c) ‘running track’ means any track used for train service movements; passing loops and meeting loops on plain line or track connections only required for train operation are not published;
- (d) ‘siding’ means any track within an operational point, which is not used for operational routing of a train.

3.2 Railway network structure for the RINF

- 3.2.1 For the purpose of the RINF, each Member State shall subdivide its railway network into sections of line and operational points.
- 3.2.2 Items to be published for ‘section of line’ related to infrastructure, energy and track-side control-command and signalling subsystems shall be assigned to the infrastructure element ‘running track’.
- 3.2.3 Items to be published for ‘operational point’ related to infrastructure subsystem shall be assigned to the infrastructure elements ‘running track’ and ‘siding’.

3.3 Items for the RINF

- 3.3.1 Items and format of items shall be published in accordance with Table 1.
- 3.3.2 The RINF Application Guide referred to in Article 3 shall define the specific format and the governance process of the data listed in Table 1 presented as:
 - (a) a single or multiple selection from a predefined list,
 - (b) a `CharacterString` or the predefined `CharacterString` or
 - (c) a number indicated inside square brackets
- 3.3.3 Provision of an item is mandatory when it corresponds to a core requirement or when the corresponding item exists on the network that is described. Each item is identified by any of the following marks: “new”, “not changed” when it already exists in Decision 2014/880-EU, “updated” when it has been modified or “deleted” when it does not exist anymore. Parameters required for Route compatibility checks are indicated as “Needed for RC” with reference with appendix D1 of new OPE TSI.

Any information relevant to the parameters is provided in Table 1.

Table 1
Items for the Register of Infrastructure

1	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
2	1	MEMBER STATE					
3	1.1	SECTION OF LINE					
4	1.1.0.0.0	Generic information					
5	1.1.0.0.0.1	IM's code	[AAAA]	Infrastructure manager means anybody or undertaking that is responsible in particular for establishing and maintaining railway infrastructure or a part thereof.	X		Not changed
6	1.1.0.0.0.2	National line identification	CharacterString	Unique line identification or unique line number within Member State.	X		Not changed
7	1.1.0.0.0.3	Operational point at start of section of line	Predefined CharacterString	Unique OP ID at start of section of line (kilometres increasing from start OP to the end OP).	X		Not changed
8	1.1.0.0.0.4	Operational point at end of section of line	Predefined CharacterString	Unique OP ID at end of section of line (kilometres increasing from start OP to the end OP)	X		Not changed
9	1.1.0.0.0.5	Length of section of line	Predefined CharacterString	Length between operational points at start and end of section of line.	X		Not changed

1	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter	
10	1.1.0.0.6	Nature of Section of Line	Single selection from the predefined list: Regular SoL / Link	Kind of Section of Line expressing size of presented data which depends on fact whether it connects OPs generated by division of a big node into several OPs or not.	X		Not changed	
11	1.1.1	RUNNING TRACK						
12	1.1.1.0.0	Generic information						
13	1.1.1.0.0.1	Identification of track	CharacterString	Unique track identification or unique track number within section of line	X		Not changed	
14	1.1.1.0.0.2	Normal running direction	Single selection from the predefined list: N / O / B	The normal running direction is: - the same as the direction defined by the start and end of the SoL: (N) - the opposite to the direction defined by the start and end of the SoL: (O) - both directions: (B)	X		Not changed	
15	1.1.1.1	Infrastructure subsystem						
16	1.1.1.1.1	Declarations of verification for track						
17	1.1.1.1.1.1	EC declaration of verification for track (INF)	Predefined CharacterString: [CC/RRRRRRRRR RRRRR/YYYY/NN NNNN]	Unique number for EC declarations following format requirements specified in the 'Document about practical arrangements for transmitting interoperability documents' ^[2]			Not changed	

1	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
18	1.1.1.1.1.2	EI declaration of demonstration ^[2] for track (INF)	Predefined CharacterString: [CC/RRRRRRRRR RRRRR/YYYY/NN NNNN]	Unique number for EI declarations following the same format requirements as specified in the 'Document about practical arrangements for transmitting interoperability documents'.			Not changed
19	1.1.1.1.2	Performance parameters					
20	1.1.1.1.2.1	TEN classification of track	Single selection from the predefined list:	Indication of the part of the trans-European network the line belongs to.	X		Not changed
21	1.1.1.1.2.1.2	TEN GIS identity	CharacterString	Indication of the GIS identity (GIS ID) of the section of TEN-T database to which the track belongs			New
22	1.1.1.1.2.2	Category of line	Single selection from the predefined list	Classification of a line according to the INF TSI	X		Not changed
23	1.1.1.1.2.3	Part of a Railway Freight Corridor	Single selection from the predefined list:	Indication whether the line is designated to a Railway Freight Corridor			Not changed
24	1.1.1.1.2.4	Load capability	Single selection from the predefined list	A combination of the line category and speed at the weakest point of the track	X	X	Not changed
25	1.1.1.1.2.4.1	National classification for load capability	Characterstring	National classification for load capability		X	New
26	1.1.1.1.2.5	Maximum permitted speed	[NNN]	Nominal maximum operational speed on the line as a result of INF, ENE and CCS subsystem characteristics expressed in kilometres/hour.	X	X	Not changed

1	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
27	1.1.1.1.2.6	Temperature range	Single selection from the predefined list: T1 (-25 to +40) T2 (-40 to +35) T3 (-25 to +45) Tx (-40 to +50)	Temperature range for unrestricted access to the line according to European standard.	X	X	Not changed
28	1.1.1.1.2.7	Maximum altitude	[+/-][NNNN]	Highest point of the section of line above sea level in reference to Normal Amsterdam's Peil (NAP).	X		Not changed
29	1.1.1.1.2.8	Existence of severe climatic conditions	Single selection from the predefined list: Y / N	Climatic conditions on the line are severe according to European standard.	X	X	Not changed
30	1.1.1.1.3	Line layout					
31	1.1.1.1.3.1	Interoperable gauge	Single selection from the predefined list: GA / GB, / GC / G1 / DE3 / S / IRL1 / none	Gauges GA, GB, GC, G1, DE3, S, IRL1 as defined in European standard.			deleted
32	1.1.1.1.3.2	Multinational gauges	Single selection from the predefined list: G2 / GB1 / GB2 / none	Multilateral gauge or international gauge other than GA, GB, GC, G1, DE3, S, IRL1 as defined in European standard.			deleted
33	1.1.1.1.3.3	National gauges	Single selection from the predefined list	Domestic gauge as defined in European standard or other local gauge.			deleted
34	1.1.1.1.3.1.1	Gauging	Single selection from the predefined list:	Gauges as defined in European standard or other local gauges, including lower or upper part.	X	X	New

	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
1							
35	1.1.1.1.3.4	Standard combined transport profile number for swap bodies	Single selection from the predefined list	Coding for combined transport with swap bodies as defined in UIC Code (if the line belongs to the Trans European Network (TEN)).	X		Not changed
36	1.1.1.1.3.5	Standard combined transport profile number for semi-trailers	Single selection from the predefined list	Coding for combined transport for semi-trailers as defined in UIC Code (if the line belongs to the Trans European Network (TEN)).	X		Not changed
37	1.1.1.1.3.5.1	Specific information	Characterstring	Any specific information from the IM			New
38	1.1.1.1.3.6	Gradient profile	Predefined CharacterString: [±NN.N] [±NNNN.NNN] repeated as many times as necessary	Sequence of gradient values and locations of change in gradient	X	X	Not changed
39	1.1.1.1.3.7	Minimum radius of horizontal curve of	[NNNNN]	Radius of the smallest horizontal curve of the track in metres.	X	X	Not changed
40	1.1.1.1.4	Track parameters					
41	1.1.1.1.4.1	Nominal track gauge	Single selection from the predefined list 750 / 1000 / 1435 / 1520 / 1524 / 1600 / 1668 / other	A single value expressed in millimetres that identifies the track gauge.	X	X	Not changed
42	1.1.1.1.4.2	Cant deficiency	[+/-] [NNN]	Maximum cant deficiency expressed in millimetres defined as difference between the applied cant and a higher equilibrium cant the line has been designed for.	X	X	Not changed

	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
43	1.1.1.1.4.3	Rail inclination	[NN]	An angle defining the inclination of the head of a rail relative to the running surface	X	X	Not changed
44	1.1.1.1.4.4	Existence of ballast	Single selection from the predefined list: Y / N	Specifies whether track construction is with sleepers embedded in ballast or not.			Not changed
45	1.1.1.1.5	Switches and crossings					
46	1.1.1.1.5.1	TSI compliance of in service values for switches and crossings	Single selection from the predefined list: Y / N	Switches and crossings are maintained to in service limit dimension as specified in TSI.	X		Not changed
47	1.1.1.1.5.2	Minimum wheel diameter for fixed obtuse crossings	[NNN]	Maximum unguided length of fixed obtuse crossings is based on a minimum wheel diameter in service expressed in millimetres.	X	X	Not changed
48	1.1.1.1.6	Track resistance to applied loads					
49	1.1.1.1.6.1	Maximum deceleration train	[N.N]	Limit for longitudinal track resistance given as a maximum allowed train deceleration and expressed in metres per square second.	X	X	Not changed
50	1.1.1.1.6.2	Use of eddy current brakes	Single selection from the predefined list: Allowed/allowed under conditions/ allowed only for emergency brake/ allowed under conditions only for emergency brake /not allowed	Indication of limitations on the use of eddy current brakes.	X	X	Not changed

	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
1							
51	1.1.1.1.6.3	Use of magnetic brakes	Single selection from the predefined list: Allowed/ allowed under conditions/ allowed under conditions only for emergency brake/ allowed only for emergency brake/ not allowed	Indication of limitations on the use of magnetic brakes.	X	X	Not changed
52	1.1.1.1.7	Health, safety and environment					X
53	1.1.1.1.7.1	Use of flange lubrication forbidden	Single selection from the predefined list : Y/N	Indication whether the use of on-board device for flange lubrication is forbidden.	X		Not changed
54	1.1.1.1.7.2	Existence of level crossings	Single selection from the predefined list: Y/N	Indication whether level crossings exist on the section of line.	X	X	Not changed
55	1.1.1.1.7.3	Acceleration allowed at level crossing	[N.N]	Existence of limit for acceleration of train if stopping close to a level crossing expressed in metres per square second.	X	X	Not changed
56	1.1.1.1.7.4	Existence of trackside HABD	Single selection from the predefined list: Y/N	Existence of trackside hot axle box detector (HABD)	X	X	New
57	1.1.1.1.7.5	Trackside HABD TSI compliant	Single selection from the predefined list: Y/N	Trackside hot axle box detector TSI compliant	X	X	New
58	1.1.1.1.7.6	Identification of trackside HABD	Characterstring	Identification of trackside hot axle box detector	X	X	New

	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
1							
59	1.1.1.1.7.7	Generation of trackside HABD	Single selection from the predefined list:	Generation of trackside hot axle box detector	X	X	New
60	1.1.1.1.7.8	Localisation of trackside HABD		Localisation of trackside hot axle box detector	X	X	New
61	1.1.1.1.7.9	Direction of measurement of trackside HABD		Direction of measurement of trackside hot axle box detector	X	X	New
62	1.1.1.1.7.10	Belonging to a quieter route	Single selection from the predefined list: : Y/N	Belonging to a “quieter route” as define in article 5a of the Recommendation 006REC1072 amending the TSI Noise	X		New
63	1.1.1.1.8	Tunnel					
64	1.1.1.1.8.1	IM’s code[RD5]	[AAAA]	Infrastructure Manager means anybody or undertaking that is responsible in particular for establishing and maintaining railway infrastructure or a part thereof.	X		Not changed
65	1.1.1.1.8.2	Tunnel identification	CharacterString	Unique tunnel identification or unique number within Member State	X		Not changed
66	1.1.1.1.8.3	Start of tunnel	Predefined CharacterString: [Latitude (NN.NNNN) + Longitude(±NN.NN NN) + km(±N NNN.NNN)]	Geographical coordinates in decimal degrees and km of the line at the beginning of a tunnel.	X		Not changed

	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
67	1.1.1.1.8.4	End of tunnel	Predefined CharacterString: [Latitude (NN.NNNN) + Longitude(±NN.NN NN) + km(±N NNN.NNN)]	Geographical coordinates in decimal degrees and km of the line at the end of a tunnel.	X		Not changed
68	1.1.1.1.8.5	EC declaration of verification for tunnel (SRT)	Predefined CharacterString: [CC/RRRRRRRRR RRRRR/YYYY/NN NNNN]	Unique number for EC declarations following format requirements specified in the 'Document about practical arrangements for transmitting interoperability documents' ^[4]			Not changed
69	1.1.1.1.8.6	EI declaration of demonstration ^[5] for tunnel (SRT)	Predefined CharacterString: [CC/RRRRRRRRR RRRRR/YYYY/NN NNNN]	Unique number for EI declarations following the same format requirements as specified in the 'Document about practical arrangements for transmitting interoperability documents'.			Not changed
70	1.1.1.1.8.7	Length of tunnel	[NNNNN]	Length of a tunnel in metres from entrance portal to exit portal.	X		Not changed
71	1.1.1.1.8.8	Cross section area	[NNN]	Smallest cross section area in square metres of the tunnel			Not changed
72	1.1.1.1.8.8;1	Reference of a document available from the IM with precise description of the tunnel	Characterstring				New
73	1.1.1.1.8.9	Existence of emergency plan	Single selection from predefined list: Y/N	Indication whether emergency plan exists.	X		Not changed
74	1.1.1.1.8.10	Fire category of rolling stock required	Single selection from the predefined list: A / B / none	Categorisation on how a passenger train with a fire on board will continue to operate for a defined time period.	X	X	Not changed

1	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
75	1.1.1.1.8.11	National fire category of rolling stock required	CharacterString	Categorisation on how a passenger train with a fire on board will continue to operate for a defined time period.	X	X	Not changed
76	1.1.1.2	Energy subsystem					
77	1.1.1.2.1	Declarations of verification for track					
78	1.1.1.2.1.1	EC declaration of verification for track (ENE)	Predefined CharacterString: [CC/RRRRRRRRR RRRRR/YYYY/NN NNNN]	Unique number for EC declarations following format requirements specified in the 'Document about practical arrangements for transmitting interoperability documents' ^[6]			Not changed
79	1.1.1.2.1.2	EI declaration of demonstration ^[2] for track (ENE)	Predefined CharacterString: [CC/RRRRRRRRR RRRRR/YYYY/NN NNNN]	Unique number for EI declarations following the same format requirements as specified in the 'Document about practical arrangements for transmitting interoperability documents'.			Not changed
80	1.1.1.2.2	Contact line system					X
81	1.1.1.2.2.1.1	Type of contact line system	Single selection from the predefined list: Overhead contact line (OCL) Third Rail Fourth Rail Not electrified	Indication of the type of the contact line system.	X	X	Not changed

1	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
82	1.1.1.2.2.1.2	Energy supply system (Voltage and frequency)	Single selection from the predefined list: AC 25kV-50Hz / AC 15kV-16.7Hz / DC 3kV / DC 1.5kV / DC (Specific Case FR) / DC 750V / DC 650V / DC 600V / other	Indication of the traction supply system (nominal voltage and frequency)		X	Not changed
83	1.1.1.2.2.1.2.1	Energy supply system TSI compliant	Single selection from predefined list: Y/N			X	New
84	1.1.1.2.2.1.3	Umin2	[NNNNNN]	Lowest non-permanent voltage according to EN 50163		X	New
85	1.1.1.2.2.1.4	Umax2	[NNNNNN]	Highest non-permanent voltage according to EN50163		X	New
86	1.1.1.2.2.2	Maximum train current	[NNNN]	Indication of the maximum allowable train current expressed in amperes.			Not changed
87	1.1.1.2.2.3	Maximum current at standstill per pantograph	[NNN]	Indication of the maximum allowable train current at standstill for DC systems expressed in amperes.		X	Not changed
88	1.1.1.2.2.4	Permission for regenerative braking	Single selection from the predefined list: Y / N	Indication whether regenerative braking is permitted or not.		X	Not changed

	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
1							
89	1.1.1.2.2.5	Maximum contact wire height	[N.NN]	Indication of the maximum contact wire height expressed in metres.		X	Not changed
90	1.1.1.2.2.6	Minimum contact wire height	[N.NN]	Indication of the minimum contact wire height expressed in metres.		X	Not changed
91	1.1.1.2.3	Pantograph					
92	1.1.1.2.3.1	Accepted TSI compliant pantograph heads	Single selection from the predefined list:	Indication of TSI compliant pantograph heads which are allowed to be used.		X	Not changed
93	1.1.1.2.3.2	Accepted other pantograph heads	Single selection from the predefined list	Indication of pantograph heads which are allowed to be used		X	Not changed
94	1.1.1.2.3.3	Requirements for number of raised pantographs and spacing between them, at the given speed	Predefined CharacterString: [N] [NNN] [NNN]	Indication of maximum number of raised pantographs per train allowed and minimum spacing centre line to centre line of adjacent pantograph heads, expressed in metres, at the given speed.		X	Not changed
95	1.1.1.2.3.4	Permitted contact strip material	Single selection from the predefined list	Indication of which contact strip materials are permitted to be used.		X	Not changed
96	1.1.1.2.4	OCL separation sections					
97	1.1.1.2.4.1.1	Phase separation	Single selection from predefined list: Y / N	Indication of existence of phase separation and required information.			Not changed

1	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
98	1.1.1.2.4.1.2	Information on phase separation	Predefined CharacterString: length [NNN] + switch off breaker [Y/N] + lower pantograph [Y/N]	Indication of required several information on phase separation			Not changed
99	1.1.1.2.4.2.1	System separation	Single selection from predefined list: Y / N	Indication of existence of system separation			Not changed
100	1.1.1.2.4.2.2	Information on system separation	Predefined CharacterString: length [NNN] + switch off breaker [Y/N] + lower pantograph [Y/N] + change supply system [Y/N]	Indication of required several information on system separation			Not changed
101	1.1.1.2.5	Requirements for rolling stock					
102	1.1.1.2.5.1	Current or power limitation on board required	Single selection from predefined list: Y / N	Indication of whether an on board current or power limitation function on vehicles is required.		X	Not changed
103	1.1.1.2.5.2	Contact force permitted	CharacterString	Indication of contact force allowed expressed in newtons.		X	Not changed
104	1.1.1.2.5.3	Automatic dropping device required	Single selection from predefined list: Y / N	Indication of whether an automatic dropping device (ADD) required on the vehicle.		X	Not changed
105	1.1.1.3	Control - command and signalling subsystem					

1	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
106	1.1.1.3.1	Declarations of verification for track					
107	1.1.1.3.1.1	EC declaration of verification for track (CCS)	Predefined CharacterString: [CC/RRRRRRRRR RRRRR/YYYY/NN NNNN]	Unique number for EC declarations following format requirements specified in the 'Document about practical arrangements for transmitting interoperability documents' ^[8]			Not changed
108	1.1.1.3.2	TSI compliant train protection system (ETCS)					
109	1.1.1.3.2.1	ETCS level	Single selection from the predefined list: N / 1 / 2 / 3	ERTMS / ETCS application level related to the track side equipment.	X		Not changed
110	1.1.1.3.2.2	ETCS baseline	Single selection from the predefined list: prebaseline 2 / baseline 2 / baseline 3	ETCS baseline installed lineside.			Not changed
111	1.1.1.3.2.3	ETCS infill necessary for line access	Single selection from the predefined list: Y / N	Indication whether infill is required to access the line for safety reasons.			Not changed
112	1.1.1.3.2.4	ETCS infill installed line-side	Single selection from the predefined list: None / Loop / GSM-R infill / Loop & GSM-R infill	Information about installed trackside equipment capable to transmit infill information by loop or GSM-R for level 1 installations.			Not changed
113	1.1.1.3.2.5	ETCS national packet 44 application implemented	Single selection from the predefined list: Y / N	Indication whether data for national applications is transmitted between track and train.			Not changed

	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
114	1.1.1.3.2.6	Existence of operating restrictions or conditions	Single selection from the predefined list: Y / N	Indication whether restrictions or conditions due to partial compliance with the CCS TSI exist.			Not changed
115	1.1.1.3.2.7	Optional ETCS functions	CharacterString	Optional ETCS functions which might improve operation on the line.			deleted
116	1.1.1.3.2.8	Train integrity confirmation from on-board necessary for line access	Single selection from the predefined list: Y / N	Indication whether train confirmation from on-board is required to access the line for safety reasons.		X	New
117	1.1.1.3.2.9	ETCS system compatibility	Single selection from the predefined list:	ETCS requirements used for demonstrating technical compatibility		X	New
118	1.1.1.3.2.10	ETCS M_version	Single selection from the predefined list:	ETCS M_version according to SRS 7.5.1.9			New
119	1.1.1.3.3	TSI compliant radio (GSM-R)					
120	1.1.1.3.3.1	GSM-R version	Single selection from the predefined list: none / previous version to Baseline 0 / Baseline 0 r3 / Baseline 0 r4	GSM-R FRS and SRS version number installed lineside.	X		Not changed
121	1.1.1.3.3.2	Required number of active GSM-R mobiles (EDOR) or simultaneous communication session on board for ETCS level 2 (or level 3)	Single selection from the predefined list: 1 / 2	Number of mobiles for ETCS data transmission (EDOR) advised required for a smooth running of the train. This relates to the RBC handling of communication sessions. Not safety critical and no matter of interoperability.			Not changed

	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
122	1.1.1.3.3.3	Optional GSM-R functions	Single selection from the predefined list:	Use of optional GSM-R functions which might improve operation on the line. They are for information only and not for network access criteria.			Not changed
123	1.1.1.3.3.3.1	Additional information on network characteristics	[characterstring]	Any additional information on network characteristics or reference of the corresponding document available in the IM , e.g.; interference level, leading to the recommendation of additional on-board protection			New
124	1.1.1.3.3.3.2	GPRS for ETCS	Y/N	Indication if GPRS can be used for ETCS and in which areas in the "Other information" box.			New
125	1.1.1.3.3.4	Use of group 555	Y/N	Indication if group 555 is used		X	New
126	1.1.1.3.3.5	GSM-R networks covered by a roaming agreement	Single selection from the predefined list:	list of GSM-R networks which are covered by a roaming agreement		X	New
127	1.1.1.3.3.6	Existence of Roaming to public networks	Y/N In case of Y, provide the name of the public network:	Existence of roaming to a public networks		X	New
128	1.1.1.3.3.7	Details on roaming to public networks	Character string	If roaming to public networks is configured, please indicate to which networks, for which users and in which areas.		X	New
129	1.1.1.3.3.8	No GSMR coverage	selection from the predefined list: Y/N			X	New

	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
130	1.1.1.3.3.9	Radio system compatibility voice	Single selection from the predefined list:	Radio requirements used for demonstrating technical compatibility voice		X	New
131	1.1.1.3.3.10	Radio system compatibility data	Single selection from the predefined list:	Radio requirements used for demonstrating technical compatibility data		X	New
132	1.1.1.3.4	Train detection systems fully compliant with the TSI					
133	1.1.1.3.4.1	Existence of train detection system fully compliant with the TSI:	Single selection from the predefined list: Y / N	Indication if there is any train detection system installed and fully compliant with the CCS TSI requirements.	X	X	Not changed
134	1.1.1.3.5	Train protection legacy systems					
135	1.1.1.3.5.1	Existence of other train protection, control and warning systems installed Train protection system	Single selection from the predefined list: Y / N	Indication if other train protection, control and warning systems in normal operation are installed lineside.			deleted
136	1.1.1.3.5.2	Need for more than one train protection, control and warning system required on board	Single selection from the predefined list:	Indication whether more than one train protection, control and warning system is required to be on board and active simultaneously.			deleted
137	1.1.1.3.5.3	Train protection legacy system	Single selection from the predefined list	Indication of which class B system is installed	X	X	New
138	1.1.1.3.6	Radio Legacy Systems					

	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
139	1.1.1.3.6.1	Other radio systems installed (Radio Legacy Systems)	Single selection from the predefined list:	Indication of radio legacy systems installed.	X	X	Updated
140	1.1.1.3.7	Train detection systems not fully compliant with the TSI					
141	1.1.1.3.7.1	Type of train detection system	Single selection from the predefined list: track circuit / wheel detector / loop	Indication of types of train detection systems installed.	X	X	Not changed
142	1.1.1.3.7.2.1	TSI compliance of maximum permitted distance between two consecutive axles	Single selection from the predefined list: TSI compliant / TSI not compliant	Indication whether required distance is compliant with the TSI.	X		Not changed
143	1.1.1.3.7.2.2	Maximum permitted distance between two consecutive axles in case of TSI non-compliance	[NNNNN]	Indication of maximum permitted distance between two consecutive axles in case of TSI non-compliance, given in millimetres.			Not changed
144	1.1.1.3.7.3	Minimum permitted distance between two consecutive axles	[NNNN]	Indication of distance given in millimetres.			Not changed
145	1.1.1.3.7.4	Minimum permitted distance between first and last axle	[NNNNN]	Indication of distance given in millimetres.			Not changed
146	1.1.1.3.7.5	Maximum distance between end of train and first axle	[NNNN]	Indication of maximum distance between end of train and first axle given in millimetres applicable for both sides (front and rear) of a vehicle or train.			Not changed
147	1.1.1.3.7.6	Minimum permitted width of the rim	[NNN]	Indication of width given in millimetres.			Not changed

	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
148	1.1.1.3.7.7	Minimum permitted wheel diameter	[NNN]	Indication of wheel diameter given in millimetres.			Not changed
149	1.1.1.3.7.8	Minimum permitted thickness of the flange	[NN.N]	Indication of flange thickness given in millimetres.			Not changed
150	1.1.1.3.7.9	Minimum permitted height of the flange	[NN.N]	Indication of height of flange given in millimetres.			Not changed
151	1.1.1.3.7.10	Maximum permitted height of the flange	[NN.N]	Indication of height of flange given in millimetres.			Not changed
152	1.1.1.3.7.11	Minimum permitted axle load	[NN.N]	Indication of load given in tons.			Not changed
153	1.1.1.3.7.12	TSI compliance of rules for metal-free space around wheels	Single selection from the predefined list: TSI compliant / not TSI compliant	Indication whether rules are compliant with the TSI.			Not changed
154	1.1.1.3.7.13	TSI compliance of rules for vehicle metal construction	Single selection from the predefined list: TSI compliant / not TSI compliant	Indication whether rules are compliant with the TSI.			Not changed
155	1.1.1.3.7.14	TSI compliance of ferromagnetic characteristics of wheel material required	Single selection from the predefined list: TSI compliant / not TSI compliant	Indication whether rules are compliant with the TSI.			Not changed

	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
156	1.1.1.3.7.15.1	TSI compliance of maximum permitted impedance between opposite wheels of a wheelset	Single selection from the predefined list: TSI compliant / not TSI compliant	Indication whether rules are compliant with the TSI.			Not changed
157	1.1.1.3.7.15.2	Maximum permitted impedance between opposite wheels of a wheelset when not TSI compliant	[N.NNN]	The value of maximum permitted impedance given in ohm in case of TSI non-compliance			Not changed
158	1.1.1.3.7.16	TSI compliance of sanding	Single selection from predefined list: TSI compliant / not TSI compliant	Indication whether rules are compliant with the TSI or not			Not changed
159	1.1.1.3.7.17	Maximum sanding output	[NNNNN]	Maximum value of sanding output for 30s given in grams accepted on the track			Not changed
160	1.1.1.3.7.18	Sanding override by driver required	Single selection from the predefined list: Y / N	Indication whether possibility to activate/deactivate sanding devices by driver, according to instructions from the Infrastructure Manager, is required or not.			Not changed
161	1.1.1.3.7.19	TSI Compliance of rules on sand characteristics	Single selection from the predefined list: TSI compliant / not TSI compliant	Indication whether rules are compliant with the TSI.			Not changed
162	1.1.1.3.7.20	Existence of rules on on-board flange lubrication	Single selection from the predefined list: Y / N	Indication whether rules for activation or deactivation of flange lubrication exist.			Not changed
163	1.1.1.3.7.21	TSI compliance of rules on the use of composite brake blocks	Single selection from the predefined list: TSI compliant / not TSI compliant	Indication whether rules are compliant with the TSI.			Not changed

	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
164	1.1.1.3.7.22	TSI compliance of rules on shunt assisting devices	Single selection from the predefined list: TSI compliant / not TSI compliant	Indication whether rules are compliant with the TSI.			Not changed
165	1.1.1.3.7.23	TSI compliance of rules on combination of RST characteristics influencing shunting impedance	Single selection from the predefined list: TSI compliant / not TSI compliant	Indication whether rules are compliant with the TSI.			Not changed
166	1.1.1.3.8	Transitions between systems					
167	1.1.1.3.8.1	Existence of switch over between different protection, control and warning systems while running	Single selection from the predefined list: Y / N	Indication whether a switch over between different systems whilst running exist			Not changed
168	1.1.1.3.8.2	Existence of switch over between different radio systems	Single selection from the predefined list: Y / N	Indication whether a switch over between different radio systems and no communication system whilst running exist			Not changed
169	1.1.1.3.9	Parameters related to electromagnetic interferences					
170	1.1.1.3.9.1	Existence and TSI compliance of rules for magnetic fields emitted by a vehicle	Single selection from the predefined list: none / TSI compliant / not TSI compliant	Indication whether rules exist and are compliant with the TSI.			Not changed
171	1.1.1.3.9.2	Existence and TSI compliance of limits in harmonics in the traction current of vehicles	Single selection from the predefined list: none / TSI compliant / not TSI compliant	Indication whether rules exist and are compliant with the TSI.			Not changed

1	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
172	1.1.1.3.10	Line-side system for degraded situation					
173	1.1.1.3.10.1	ETCS level for degraded situation	Single selection from the predefined list:	ERTMS / ETCS application level for degraded situation related to the track side equipment.			Not changed
174	1.1.1.3.10.2	Other train protection, control and warning systems for degraded situation	Single selection from the predefined list:	Indication of existence of other system than ETCS for degraded situation.			Not changed
175	1.1.1.3.11	Brake related parameters					
176	1.1.1.3.11.1	Maximum braking distance requested	[NNNN]	The maximum value of the braking distance [in metres] of a train shall be given for the maximum line speed.	X	X	Not changed
177	1.1.1.3.11.2	Availability by the IM of additional information	Single selection from the predefined list: Y/N	Availability by the IM of additional information as defined in TSI OPE 4.2.2.6.2 (2)	X	X	New
178	1.1.1.3.11.3	Reference of the documents available by the IM	characterstring	Reference of the documents available by the IM providing additional information as defined in TSI OPE 4.2.2.6.2 (2)	X	X	New
179	1.1.1.3.12	Other CCS related parameters					
180	1.1.1.3.12.1	Tilting supported	Single selection from the predefined list: Y/N	Indication whether tilting functions are supported by ETCS.			deleted

	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
181	1.1.1.4	Rules and restrictions					
182	1.1.1.4.1	Existence of rules and restrictions of a strictly local nature	Single selection from the predefined list: Y/N				New
183	1.2	OPERATIONAL POINT					
184	1.2.0.0.0	Generic information					
185	1.2.0.0.0.1	Name of operational point	CharacterString	Name normally related to the town or village or to traffic control purpose	X		Not changed
186	1.2.0.0.0.2	Unique OP ID	Predefined CharacterString: [AA+AAAAAAAAAA]	Code composed of country code and alphanumeric OP code.	X		Not changed
187	1.2.0.0.0.3	OP TAF TAP primary code	Predefined CharacterString: [AANNNNN]	Primary code developed for TAF/TAP.			Not changed
188	1.2.0.0.0.4	Type of operational point	Single selection from the predefined list	Type of facility in relation to the dominating operational functions.	X		Not changed
189	1.2.0.0.0.4.1	Type of track gauge changeover facility	Characterstring	Type of track gauge changeover facility		X	New

	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter	
190	1.2.0.0.5	Geographical location of operational point	Predefined CharacterString: [Latitude (NN.NNNN) + Longitude(±NN.NN NN)]	Geographical coordinates in decimal degrees normally given for the centre of the OP.	X	X	Not changed	
191	1.2.1	RUNNING TRACK						
192	1.2.1.0.0	Generic information						
193	1.2.1.0.0.1	IM's code	[AAAA]	Infrastructure manager means any body or undertaking that is responsible in particular for establishing and maintaining railway infrastructure or a part thereof.	X		Not changed	
194	1.2.1.0.0.2	Identification of track	CharacterString	Unique track identification or unique track number within OP	X		Not changed	
195	1.2.1.0.1	Declarations of verification for track						
196	1.2.1.0.1.1	EC declaration of verification for track (INF)	Predefined CharacterString: [CC/RRRRRRRRR RRRRR/YYYY/NN NNNN]	Unique number for EC declarations following format requirements specified in the 'Document about practical arrangements for transmitting interoperability documents' ^[9]			Not changed	
197	1.2.1.0.1.2	EI declaration of demonstration ^[9] for track (INF)	Predefined CharacterString: [CC/RRRRRRRRR RRRRR/YYYY/NN NNNN]	Unique number for EI declarations following the same format requirements as specified in the 'Document about practical arrangements for transmitting interoperability documents'.			Not changed	

1	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
198	1.2.1.0.2	Performance parameters					
199	1.2.1.0.2.1	TEN classification of track	Single selection from the predefined list: Part of the TEN-T Comprehensive Network / Part of the TEN-T Core Freight Network / Part of the TEN-T Core Passenger Network / Off-TEN	Indication of the part of the trans-European network the track belongs to.	X		Not changed
200	1.2.1.0.2.2	Category of line:	Single selection from the predefined list	Classification of a line according to the INF TSI.	X		Not changed
201	1.2.1.0.2.3	Part of a Railway Freight Corridor	Single selection from the predefined list	Indication whether the line is designated to a Railway Freight Corridor			Not changed
202	1.2.1.0.3	Line layout					
203	1.2.1.0.3.1	Interoperable gauge	Single selection from the predefined list: GA / GB / GC / G1 / DE3 / S / IRL1 / none	Gauges GA, GB, GC, G1, DE3, S, IRL1 as defined in European standard.			deleted
204	1.2.1.0.3.2	Multinational gauges:	Single selection from the predefined list: G2 / GB1 / GB2 / none	Multilateral gauge or international gauge other than GA, GB, GC, G1, DE3, S, IRL1 as defined in European standard.			deleted

	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
1							
205	1.2.1.0.3.3	National gauges	Single selection from the predefined list	Domestic gauge as defined in European standard or other local gauge.			deleted
206	1.2.1.0.3.4	Gauging	Single selection from the predefined list:	Gauges as defined in European standard or other local gauges, including lower or upper part.	X	X	New
207							
208	1.2.1.0.4	Track parameters					
209	1.2.1.0.4.1	Nominal track gauge	Single selection from the predefined list: 750 / 1000 / 1435 / 1520 / 1524 / 1600 / 1668/other	A single value expressed in millimetres that identifies the track gauge.	X	XI	Not changed
210	1.2.1.0.5	Tunnel					
211	1.2.1.0.5.1	IM's code	[AAAA]	Infrastructure manager means any body or undertaking that is responsible in particular for establishing and maintaining railway infrastructure or a part thereof.	X		Not changed
212	1.2.1.0.5.2	Tunnel identification	CharacterString	Unique tunnel identification or unique tunnel number within MS	X		Not changed

1	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
213	1.2.1.0.5.3	EC declaration of verification for tunnel (SRT)	CharacterString: [CC/RRRRRRRRR RRRRR/YYYY/NN NNNN]	Unique number for EC declarations following format requirements specified in the 'Document about practical arrangements for transmitting interoperability documents' ^[11]			Not changed
214	1.2.1.0.5.4	EI declaration of demonstration ^[12] for tunnel (SRT)	Predefined CharacterString: [CC/RRRRRRRRR RRRRR/YYYY/NN NNNN]	Unique number for EI declarations following the same format requirements as specified in the 'Document about practical arrangements for transmitting interoperability documents'.			Not changed
215	1.2.1.0.5.5	Length of tunnel	[NNNNN]	Length of a tunnel in metres from entrance portal to exit portal.	X		Not changed
216	1.2.1.0.5.6	Existence of emergency plan	Single selection from the predefined list: Y / N	Indication whether emergency plan exists.	X		Not changed
217	1.2.1.0.5.7	Fire category of rolling stock required	Single selection from the predefined list: A / B / none	Categorisation how a passenger train with a fire on board will continue to operate for a defined time period	X	X	Not changed
218	1.2.1.0.5.8	National fire category of rolling stock required	CharacterString	Categorisation how a passenger train with a fire on board will continue to operate for a defined time period - according to national rules if they exist	X	X	Not changed
219	1.2.1.0.6	Platform					
220	1.2.1.0.6.1	IM's code	[AAAA]	Infrastructure manager means any body or undertaking that is responsible in particular for establishing and maintaining railway infrastructure or a part thereof.	X		Not changed

1	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
221	1.2.1.0.6.2	Identification of platform	CharacterString	Unique platform identification or unique platform number within OP	X		Not changed
222	1.2.1.0.6.3	TEN Classification of platform	Single selection from the predefined list: Part of the TEN-T Comprehensive Network / Part of the TEN-T Core Freight Network / Part of the TEN-T Core Passenger Network / Off-TEN	Indicates the part of the trans-European network the platform belongs to.	X		Not changed
223	1.2.1.0.6.4	Usable length of platform	[NNNN]	The maximum continuous length (expressed in metres) of that part of platform in front of which a train is intended to remain stationary in normal operating conditions for passengers to board and alight from the train, making appropriate allowance for stopping tolerances.	X	X	Not changed
224	1.2.1.0.6.5	Height of platform	Single selection from the predefined list: 250 / 280 / 550 / 760 / 300-380 / 200 / 580 / 680 / 685 / 730 / 840 / 900 / 915 / 920 / 960 / 1100 / other	Distance between the upper surface of platform and running surface of the neighbouring track. It is the nominal value expressed in millimetres.	X	X	Not changed
225	1.2.1.0.6.6	Existence of platform assistance for starting train	Single selection from the predefined list; Y / N	Indication of existence of equipment or staff supporting the train crew in starting the train.	X		Not changed
226	1.2.1.0.6.7	Range of use of the platform boarding aid	[NNNN]	Information of the train access level for which the boarding aid can be used.	X		Not changed

1	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
227	1.2.2	SIDING					
228	1.2.2.0.0	Generic information					
229	1.2.2.0.0.1	IM's code	[AAAA]	Infrastructure manager means any body or undertaking that is responsible in particular for establishing and maintaining railway infrastructure or a part thereof.	X		Not changed
230	1.2.2.0.0.2	Identification of siding	CharacterString	Unique siding identification or unique siding number within OP	X		Not changed
231	1.2.2.0.0.3	TEN siding Classification of	Single selection from the predefined list: Part of the TEN-T Comprehensive Network / Part of the TEN-T Core Freight Network / Part of the TEN-T Core Passenger Network / Off-TEN	Indicates the part of the trans-European network the siding belongs to.	X		Not changed
232	1.2.2.0.1	Declaration of verification for siding					
233	1.2.2.0.1.1	EC declaration of verification for siding (INF)	Predefined CharacterString: [CC/RRRRRRRRR RRRRR/YYYY/NN NNNN]	Unique number for EC declarations following format requirements specified in the 'Document about practical arrangements for transmitting interoperability documents' ^[13]			Not changed

	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
1							
234	1.2.2.0.1.2	EI declaration of demonstration ^[14] for siding (INF)	Predefined CharacterString: [CC/RRRRRRRRR RRRRR/YYYY/NN NNNN]	Unique number for EI declarations following the same format requirements as specified in the 'Document about practical arrangements for transmitting interoperability documents'.			Not changed
235	1.2.2.0.2	Performance parameter					
236	1.2.2.0.2.1	Usable length of siding	[NNNN]	Total length of the siding/stabling track expressed in metres where trains can be parked safely.	X	X	Not changed
237	1.2.2.0.3	Line layout					
238	1.2.2.0.3.1	Gradient for stabling tracks	[NN.N]	Maximum value of the gradient expressed in millimetres per metre.	X	X	Not changed
239	1.2.2.0.3.2	Minimum radius of horizontal curve	[NNN]	Radius of the smallest horizontal curve, expressed in metres.	X	X	Not changed
240	1.2.2.0.3.3	Minimum radius of vertical curve	[NNN+NNN]	Radius of the smallest vertical curve expressed in metres.	X	X	Not changed
241	1.2.2.0.4	Fixed installations for servicing trains					
242	1.2.2.0.4.1	Existence of toilet discharge	Single selection from the predefined list: Y / N	Indication whether exists an installation of toilet discharge (fixed installation for servicing trains) as defined in INF TSIs.	X		Not changed

1	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
243	1.2.2.0.4.2	Existence of external cleaning facilities	Single selection from the predefined list: Y / N	Indication whether exists an installation of external cleaning facility (fixed installation for servicing trains) as defined in INF TSIs.	X		Not changed
244	1.2.2.0.4.3	Existence of water restocking	Single selection from the predefined list: Y / N	Indication whether exists an installation of water restocking (fixed installation for servicing trains) as defined in INF TSIs.	X		Not changed
245	1.2.2.0.4.4	Existence of refuelling	Single selection from the predefined list: Y / N	Indication whether exists an installation of refuelling (fixed installation for servicing trains) as defined in INF TSIs.	X		Not changed
246	1.2.2.0.4.5	Existence of sand restocking	Single selection from the predefined list: Y / N	Indication whether an installation of sand restocking exists (fixed installation for servicing trains).	X		Not changed
247	1.2.2.0.4.6	Existence of electric shore supply	Single selection from the predefined list: Y / N	Indication whether exists an installation of electric shore supply (fixed installation for servicing trains).	X		Not changed
248	1.2.2.0.5	Tunnel					
249	1.2.2.0.5.1	IM's code	[AAAA]	Infrastructure manager means any body or undertaking that is responsible in particular for establishing and maintaining railway infrastructure or a part thereof.	X		Not changed
250	1.2.2.0.5.2	Tunnel identification	CharacterString	Unique tunnel identification or unique number within Member State	X		Not changed

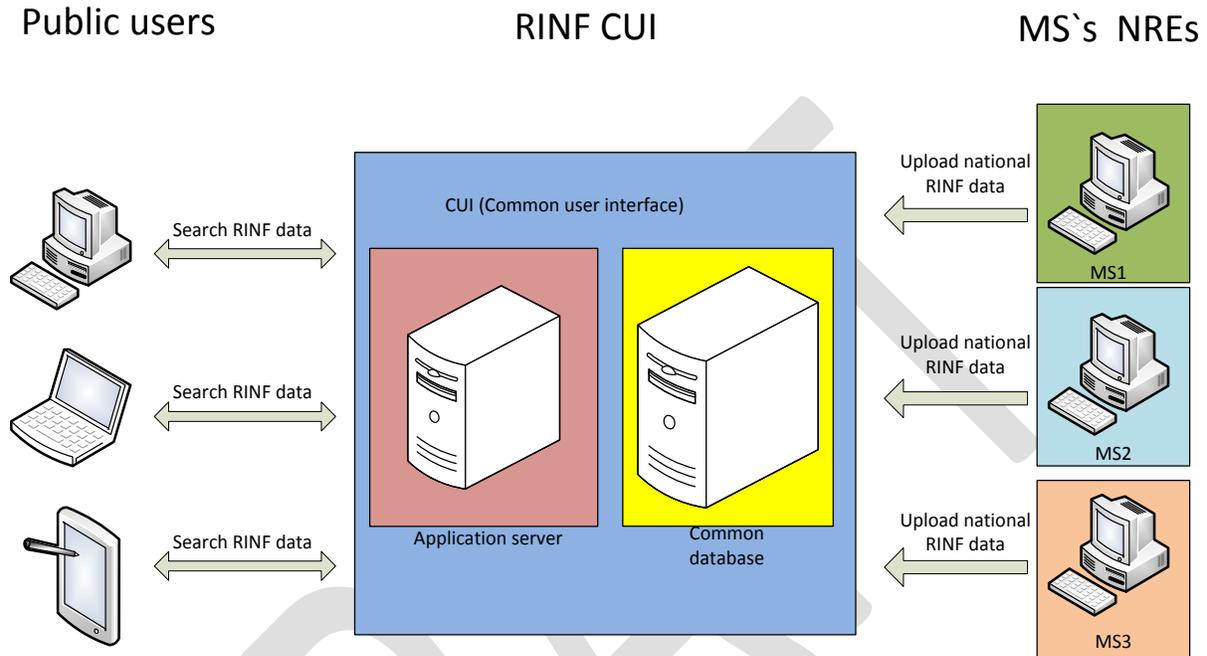
	Number	Title	Data presentation	Definition	core parameter	Needed for RC	New parameter
1							
251	1.2.2.0.5.3	EC declaration of verification for tunnel (SRT)	Predefined CharacterString: [CC/RRRRRRRRR RRRRR/YYYY/NN NNNN]	Unique number for EC declarations following format requirements specified in the 'Document about practical arrangements for transmitting interoperability documents' ^[15]	X		Not changed
252	1.2.2.0.5.4	EI declaration of demonstration ^[16] for tunnel (SRT)	Predefined CharacterString: [CC/RRRRRRRRR RRRRR/YYYY/NN NNNN]	Unique number for EI declarations following the same format requirements as specified in the 'Document about practical arrangements for transmitting interoperability documents'.	X		Not changed
253	1.2.2.0.5.5	Length of tunnel	[NNNNN]	Length of a tunnel in metres from entrance portal to exit portal.	X		Not changed
254	1.2.2.0.5.6	Existence of emergency plan	Single selection from the predefined list: Y / N	Indication whether emergency plan exists.	X		Not changed
255	1.2.2.0.5.7	Fire category of rolling stock required	Single selection from the predefined list: A / B/ none	Categorisation how a passenger train with a fire on board will continue to operate for a defined time period.	X	X	Not changed
256	1.2.2.0.5.8	National fire category of rolling stock required	CharacterString	Categorisation how a passenger train with a fire on board will continue to operate for a defined time period - according to national rules if they exist.	X	X	Not changed
257	1.2.3	Rules and restrictions					
258	1.2.3.1	Existence of rules and restrictions of a strictly local nature	Single selection from the predefined list: Y / N				New

4. HIGH LEVEL SYSTEM OVERVIEW

4.1 RINF system

The architecture of the RINF system is presented in Figure 1.

Figure 1: RINF system



4.2 Administration of the Common User Interface

The common user interface (CUI) shall be a web based application set up, managed and maintained by the Agency.

The Agency shall make available to the national registration entities (NREs) the following files and documents to be used for the setting up of the registers of infrastructure and connecting them with the common user interface (CUI);

- User manual
- Specification of the structure of the files for the transmission of data.
- Description of codes for preparing the files
- Guide describing the validation process of the transmitted files

The Agency shall make available to the RINF users an Application Guide describing the functionalities and utilities provided by the CUI. Where appropriate, this guide will be updated.

4.3 Minimum required functionality of the CUI

The CUI shall provide at least the following functionalities:

- User Management: the CUI administrator must be able to manage users' access rights.
- Information Auditing: the CUI administrator must be able to view the logs of all user activity performed on the CUI as a list of the activities that have been performed by CUI users within a particular timeframe.
- Connectivity and Authentication: the registered CUI users must be able to connect to the CUI via Internet and use its functionalities according to their rights.
- Prepare files for IM users
- Merge files or NRE users
- Search for RINF data including OPs and/or SoLs with particular RINF characteristics, including data validity.
- Select an OP or a SoL and view its RINF details: the CUI users must be able to define a geographical area using the map interface and the CUI provides the available RINF data requested by the users for this area.
- View RINF information for a specified subset of lines and OPs in a defined area via a map interface.
- Visual Representation of RINF items on digital map: the users, through the CUI, must be able to navigate, select an item depicted on the map and retrieve any relevant RINF information.
- Visual Representation of RINF data allowing publication of thematic maps
- List SoLs and OPs which are part of a route defined by the user and export the corresponding characteristics.
- Deliver certificate each time the export of characteristics resulting from a search is intended to be used by the RU for checking the compatibility according to art 23 of IOD.
- Application Programming Interface (API) to be defined

- Validation, Upload & Reception of the full RINF data sets provided by a national register entity.

4.4 Operating mode

The RINF system provides two main interfaces via the CUI:

- One is used by Member States in order to submit their full set of RINF data;
- The other is used by CUI users in order to connect to the RINF system and retrieve RINF information.

The CUI central database will be fed with copies of the full sets of RINF data maintained by each Member State. In particular, NREs shall undertake the responsibility to create files that encapsulate the full set of RINF data following the specifications of Table 1 of this Annex and submit it to the CUI, at least once every three months. One update should coincide with the annual publication of the Network Statement.

Then NREs shall upload the files to the CUI through a dedicated interface provided for this operation. A specific module will facilitate the validation and uploading of data provided by NREs.

The CUI central database shall make data sent by NREs publicly available without any modification.

The basic functionality of the CUI shall allow users to searches and retrieves RINF data.

The CUI shall retain the complete historical record of all the data made available by NREs. Those records shall be stored for 2 years from the date of withdrawal of the data.

The Agency, as administrator of the CUI, shall provide access to users upon request.

Answers to the queries initiated by the CUI users shall be provided within 24 hours from the moment the query was initiated.

4.5 Availability

The Common User Interface shall be available 7 days a week. The unavailability of the system shall be minimal during maintenance.

In the case of failure outside the normal working hours of the Agency, the actions to restore the service shall start the next Agency working day.

5. APPLICATION GUIDE FOR THE COMMON SPECIFICATIONS

The application guide for the common specifications referred to in Article 3 of this Decision shall

be made publicly available by the Agency on its website. It shall contain:

- (a) items and their corresponding description as specified as section 3.3 and in Table 1. For each field, at least its format, limit of value, conditions under which parameter is applicable and mandatory, railway technical rules for parameters values, reference to TSIs and other technical documents related to items of the register of infrastructure as set out in Table 1 of this Decision;
- (b) detailed definitions and specifications for concepts and parameters,
- (c) presentation of provisions for modelling the network for the purpose of RINF and collecting data with relevant explanations and examples;
- (d) procedures for validation and submission of RINF data from registers of infrastructure of the Member States to the CUI.

The Application Guide shall provide explanations on the specifications referred to in the Annex to this Decision which are necessary for the proper development of the RINF system.

DRAFT