Pursuing to Article 34 paragraph 2 of the Law on Interoperability of the Railway System ("Official Gazette of the RS", No 41/18),

the Acting Director of the Directorate for Railways has adopted

Rulebook on the Specification of the Register of Railway Infrastructure

Article 1

This rulebook sets out the specification and data format of the Register of Infrastructure (hereinafter referred to as: RINF), architecture of the information system supporting RINF, use of RINF and deadlines for submission of data.

Article 2

For the purpose of this rulebook the different terms shall have the following meaning:

1) *section of line* (SoL) means the part of line between adjacent operational points and may consist of several tracks;

3) *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 may also be any location at boundaries between two states or two infrastructure managers;

3) *running track* means any track used for train service movements; it does not include passing loops and meeting loops on plain line or track connections only required for train operation;

4) *siding* means any track within an operational point, which is not used for operational routing of a train.

Article 3

RINF shall be kept electronically in XML format, according to the specification given in the Annex 1 - RINF Specification, which is joint to this rulebook and forms its integral part.

The RINF Specification shall include the data on the following subsystems:

1) infrastructure;

2) energy;

3) control-command and signaling – trackside part.

Article 4

For the purposes of the RINF, railway network shall be divided into sections of line and operational points.

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 element „running track“.

Items to be published for „operational point“ related to infrastructure subsystem shall be assigned to the elements „running track“ and „siding“.

Article 5

Railway network shall be presented by a certain number of operational points connected by sections of lines.

Presentation of a railway line can be:

1) detailed;

2) simple.

Figure 1 shows an example of a detailed and simple presentation of a railway line.

Figure 1: Detailed and simple presentation of a line



**Major operational point**

**Operational point**

**Section of line**

**Section of line**

Article 6

RINF is available for use through an information system that supports RINF, in the form of a user interface, or an Internet application that allows access to data contained in RINF.

The architecture of the information system that supports RINF is given in Annex 2 - Architecture of the information system that supports RINF, which is printed with this rulebook and is an integral part of it.

Article 7

Data on main lines shall be collected and entered into the RINF no later than one year from the date of entry into force of this Rulebook.

Data on regional and local railway lines shall be collected and entered into the RINF no later than two years from the date of entry into force of this Rulebook.

Data relating to industrial tracks shall be collected and entered into the RINF no later than three years from the date of entry into force of this Rulebook.

Data relating to railway lines and industrial tracks put into operation after the date of entry into force of this Rulebook shall be entered in the RINF immediately after putting into service.

Article 8

Rulebook on the Specification of the Register of Infrastructure "Official Gazette of the RS", No 10/17 shall be repealed with effect from the date of entry into force of this rulebook.

Article 9

This rulebook enters into force on the eighth day from the day of its publication in the "Official Gazette of the Republic of Serbia".

No 340-815/2021

In Belgrade, 26 July 2021

Acting Director

 Lazar Mosurović

**Annex 1**

**RINF Specification**

Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Number** | **Title** | **Data presentation** | **Definition** | **Further information** |
| **1** | **STATE** |   |
| **1.1** | **SECTION OF LINE** |   |
| **1.1.0.0.0** | **Generic information** |   |
| 1.1.0.0.0.1 | Infrastructure manager (IM)'s code | [NNNN] | Infrastructure manager means anybody or undertaking that is responsible in particular for establishing and maintaining railway infrastructure or a part thereof. |   |
| 1.1.0.0.0.2 | Line identification | Character String | Unique line identification or unique line number within the state. |   |
| 1.1.0.0.0.3 | Operational point at start of section of line | Predefined Character String | Unique OP ID at start of section of line (kilometres increasing from start OP to the end OP). |   |
| 1.1.0.0.0.4 | Operational point at end of section of line | Predefined Character String | Unique OP ID at end of section of line (kilometres increasing from start OP to the end OP) |   |
| 1.1.0.0.0.5 | Length of section of line | Predefined Character String | Length between operational points at start and end of section of line. |   |
| 1.1.0.0.0.6 | 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. |   |
| **1.1.1** | **RUNNING TRACK** |   |
| **1.1.1.0.0** | **Generic information** |   |
| 1.1.1.0.0.1 | Identification of track | Character String | Unique track identification or unique track number within section of line |   |
| 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 |

|  |  |
| --- | --- |
| — | the opposite to the direction defined by the start and end of the SoL |

|  |  |
| --- | --- |
| — | both directions |

 | N— same direction as in SoLO— opposite direction to as in SoLB— both directions N and O |
| **1.1.1.1** | **Infrastructure subsystem** | **Parameters of this group are not mandatory if ‘Link’ is selected for 1.1.0.0.0.6** |
| **1.1.1.1.1** | **Declarations of verification for track** |   |
| 1.1.1.1.1.1 | EC declaration of verification for track (INF) | Predefined Character String:[CC/RRRRRRRRRRRRRR/YYYY/NNNNNN] | Unique number for EC declarations following format requirements specified in the ‘Document about practical arrangements for transmitting interoperability documents’[1](https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1588579658137&uri=CELEX:32014D0880#ntr1-L_2014356EN.01049201-E0001) | Indicate if an EC Declaration was issued: Y/NIn case of Y, provide data. |
| 1.1.1.1.1.2 | EI declaration of demonstration of track compliance0 (INF) | Predefined Character String:[CC/RRRRRRRRRRRRRR/YYYY/NNNNNN] | Unique number for EI declarations following the same format requirements as specified in the ‘Document about practical arrangements for transmitting interoperability documents’. | Indicate if an EI Declaration was issued: Y/NIn case of Y, provide data. |
| **1.1.1.1.2** | **Performance parameters** |   |
| 1.1.1.1.2.1 | 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 line belongs to. |   |
| 1.1.1.1.2.2 | Category of line | Single selection from the predefined list | Classification of a line according to the INF TSI | Indicate if track is included in technical scope of the TSI: Y/NIn case of Y, provide data. |
| 1.1.1.1.2.3 | Part of a Railway Freight Corridor | Single selection from the predefined list:Rhine-Alpine RFC (RFC 1)/North Sea-Mediterranean RFC (RFC 2)/Scandinavian — Mediterranean RFC (RFC 3)/Atlantic RFC (RFC 4)/Baltic-Adriatic RFC (RFC 5)/Mediterranean RFC (RFC 6)/Orient-EastMed RFC (RFC 7)/North Sea-Baltic RFC (RFC 8)/Czech-Slovak RFC (RFC 9) | Indication whether the line is designated to a Railway Freight Corridor | Indicate if track is designated to a RFC: Y/NIn case of Y, provide data |
| 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 |   |
| 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. |   |
| 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 SRPS EN. |   |
| 1.1.1.1.2.7 | Maximum altitude | [+/–][NNNN] | Highest point of the section of line above sea level in reference to *Normal Amsterdams Peil* (NAP). |   |
| 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 or normal according SRPS EN. |   |
| **1.1.1.1.3** | **Line layout** |   |
| 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 SRPS EN. |   |
| 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 SRPS EN. | Mandatory if the answer selected in 1.1.1.1.3.1 is ‘none’ |
| 1.1.1.1.3.3 | National gauges | Single selection from the predefined list | Domestic gauge as defined in SRPS EN or other local gauge. | Mandatory if the answer selected in 1.1.1.1.3.2 is ‘none’. |
| 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. | Indicate if the track belongs to route for combined transport: Y/NIn case of Y, provide data. |
| 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. | Indicate if the track belongs to route for combined transport: Y/NIn case of Y, provide data. |
| 1.1.1.1.3.6 | Gradient profile | Predefined CharacterString:[± NN.N] ([NNN.NNN]repeated as many times as necessary | Sequence of gradient values and locations of change in gradient |   |
| 1.1.1.1.3.7 | Minimum radius of horizontal curve | [NNNNN] | Radius of the smallest horizontal curve of the section in metres. |   |
| **1.1.1.1.4** | **Track parameters** |   |
| 1.1.1.1.4.1 | Nominal track gauge | Single selection from the predefined list750/1 000/1 435/1 520/1 524/1 600/1 668/other | A single value expressed in millimetres that identifies the track gauge. |   |
| 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. |   |
| 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 |   |
| 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. | Mandatory if the permitted speed of the track (parameter 1.1.1.1.2.5) is greater than or equal to 200 km/h. |
| **1.1.1.1.5** | **Switches and crossings** |   |
| 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. |   |
| 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. |   |
| **1.1.1.1.6** | **Track resistance to applied loads** |   |
| 1.1.1.1.6.1 | Maximum train deceleration | [N.N] | Limit for longitudinal track resistance given as a maximum allowed train deceleration and expressed in metres per square second. | Indicate if track is included in geographical scope of the TSI: Y/NIn case of Y, provide data. |
| 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. |   |
| 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. |   |
| **1.1.1.1.7** | **Health, safety and environment** |   |
| 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. |   |
| 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. |   |
| 1.1.1.1.7.3 | Acceleration allowed at level crossing | [N.N] | Limit for acceleration of train if stopping close to a level crossing expressed in metres per square second. | Indicate if ‘Y’: is selected in parameter 1.1.1.1.7.2: Y/NIn case of Y, provide data. |
| **1.1.1.1.8** | **Tunnel** |   |
| 1.1.1.1.8.1 | IM's code | [NNNN] | Infrastructure Manager means any body or undertaking that is responsible in particular for establishing and maintaining railway infrastructure or a part thereof. |   |
| 1.1.1.1.8.2 | Tunnel identification | Character String | Unique tunnel identification or unique number within Member State |   |
| 1.1.1.1.8.3 | Start of tunnel | Predefined Character String:[Latitude (NN.NNNN) + Longitude(± NN.NNNN) + km(NNN.NNN)] | Geographical coordinates in decimal degrees and km of the line at the beginning of a tunnel. |   |
| 1.1.1.1.8.4 | End of tunnel | Predefined Character String:[Latitude (NN.NNNN) + Longitude(± NN.NNNN) + km(NNN.NNN)] | Geographical coordinates in decimal degrees and km of the line at the end of a tunnel. |   |
| 1.1.1.1.8.5 | EC declaration of verification for tunnel (SRT) | Predefined Character String:[CC/RRRRRRRRRRRRRR/YYYY/NNNNNN] | Unique number for EC declarations following format requirements specified in the ‘Document about practical arrangements for transmitting interoperability documents’ | Indicate if an EC Declaration was issued: Y/NIn case of Y, provide data. |
| 1.1.1.1.8.6 | EI declaration of demonstration[(2)](https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1588579658137&uri=CELEX:32014D0880#ntr2-L_2014356EN.01049201-E0002) for tunnel (SRT) | Predefined CharacterString:[CC/RRRRRRRRRRRRRR/YYYY/NNNNNN] | Unique number for EI declarations following the same format requirements as specified in the ‘Document about practical arrangements for transmitting interoperability documents’. | Indicate if an EI Declaration was issued: Y/NIn case of Y, provide data. |
| 1.1.1.1.8.7 | Length of tunnel | [NNNNN] | Length of a tunnel in metres from entrance portal to exit portal. | Mandatory only if the length of the tunnel is 100M or more |
| 1.1.1.1.8.8 | Cross section area | [NNN] | Smallest cross section area in square metres of the tunnel |   |
| 1.1.1.1.8.9 | Existence of emergency plan | Single selection from predefined list:Y/N | Indication whether emergency plan exists. |   |
| 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. | Indicate if the tunnel is less than 1 km: Y/NIn case of N, provide data. |
| 1.1.1.1.8.11 | National fire category of rolling stock required | Character String | Categorisation on how a passenger train with a fire on board will continue to operate for a defined time period. | Mandatory only if ‘none’ is selected for parameter 1.1.1.1.8.10Indicate if respective national rules exist: Y/NIn case of Y, provide data. |
| **1.1.1.2** | **Energy subsystem** | **Parameters of this group are not mandatory if ‘Link’ is selected for 1.1.0.0.0.6,** |
| **1.1.1.2.1** | **Declarations of verification for track** |   |
| 1.1.1.2.1.1 | EC declaration of verification for track (ENE) | Predefined Character String:[CC/RRRRRRRRRRRRRR/YYYY/NNNNNN] | Unique number for EC declarations following format requirements specified in the ‘Document about practical arrangements for transmitting interoperability documents’[(1)](https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1588579658137&uri=CELEX:32014D0880#ntr1-L_2014356EN.01049201-E0001) | Indicate if an EC Declaration was issued: Y/NIn case of Y, provide data. |
| 1.1.1.2.1.2 | EI declaration of demonstration[(2)](https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1588579658137&uri=CELEX:32014D0880#ntr2-L_2014356EN.01049201-E0002) for track (ENE) | Predefined CharacterString:[CC/RRRRRRRRRRRRRR/YYYY/NNNNNN] | Unique number for EI declarations following the same format requirements as specified in the ‘Document about practical arrangements for transmitting interoperability documents’. | Indicate if an EI Declaration was issued: Y/NIn case of Y, provide data. |
| **1.1.1.2.2** | **Contact line system** |   |
| 1.1.1.2.2.1.1 | Type of contact line system | Single selection from the predefined list:Overhead contact line (OCL)Third RailFourth RailNot electrified | Indication of the type of the contact line system. |   |
| 1.1.1.2.2.1.2 | Energy supply system (Voltage and frequency) | Single selection from the predefined list:

|  |  |
| --- | --- |
|   | AC 25kV-50Hz/ |

|  |  |
| --- | --- |
|   | AC 15kV-16,7 Hz/ |

|  |  |
| --- | --- |
|   | DC 3kV/ |

|  |  |
| --- | --- |
|   | DC 1,5 kV/ |

|  |  |
| --- | --- |
|   | DC (Specific Case FR)/ |

|  |  |
| --- | --- |
|   | DC 750V/ |

|  |  |
| --- | --- |
|   | DC 650V/ |

|  |  |
| --- | --- |
|   | DC 600V/ |

|  |  |
| --- | --- |
|   | other |

 | Indication of the traction supply system (nominal voltage and frequency) | Indicate if ‘not electrified’ is selected in parameter 1.1.1.2.2.1.1: Y/NIn case of N, provide data. |
| 1.1.1.2.2.2 | Maximum train current | [NNNN] | Indication of the maximum allowable train current expressed in amperes. | Indicate if ‘not electrified’ is selected in parameter 1.1.1.2.2.1.1: Y/NIn case of N, provide data. |
| 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. | Indicate if ‘Overhead contact line (OCL)’ is selected for 1.1.1.2.2.1.1 and if the supply system is selected in parameter 1.1.1.2.2.1.2 is a DC system: Y/NIn case of Y, provide data. |
| 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. | Indicate if ‘not electrified’ is selected in parameter 1.1.1.2.2.1.1: Y/NIn case of N, provide data. |
| 1.1.1.2.2.5 | Maximum contact wire height | [N.NN] | Indication of the maximum contact wire height expressed in metres. | Indicate if ‘Overhead contact line (OCL)’ is selected in parameter 1.1.1.2.2.1.1: Y/NIn case of Y, provide data. |
| 1.1.1.2.2.6 | Minimum contact wire height | [N.NN] | Indication of the minimum contact wire height expressed in metres. | Indicate if ‘Overhead contact line (OCL)’ is selected in parameter 1.1.1.2.2.1.1: Y/NIn case of Y, provide data. |
| **1.1.1.2.3** | **Pantograph** |   |
| 1.1.1.2.3.1 | Accepted TSI compliant pantograph heads | Single selection from the predefined list:

|  |  |
| --- | --- |
|   | 1 950 mm (Type 1)/ |

|  |  |
| --- | --- |
|   | 1 600 mm (EP)/ |

|  |  |
| --- | --- |
|   | 1 000 mm – 2 260 mm/ |

|  |  |
| --- | --- |
|   | none |

 | Indication of TSI compliant pantograph heads which are allowed to be used. | Indicate if ‘Overhead contact line (OCL)’ is selected in parameter 1.1.1.2.2.1.1: Y/NIn case of Y, provide data. |
| 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 | Indicate if ‘Overhead contact line (OCL)’ is selected in parameter 1.1.1.2.2.1.1: Y/NIn case of Y, provide data. |
| 1.1.1.2.3.3 | Requirements for number of raised pantographs and spacing between them, at the given speed | Predefined Character String:[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. | Indicate if ‘Overhead contact line (OCL)’ is selected in parameter 1.1.1.2.2.1.1: Y/NIn case of Y, provide data. |
| 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. | Indicate if ‘Overhead contact line (OCL)’ is selected in parameter 1.1.1.2.2.1.1: Y/NIn case of Y, provide data. |
| **1.1.1.2.4** | **OCL separation sections** |   |
| 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. | Indicate if ‘Overhead contact line (OCL)’ is selected in parameter 1.1.1.2.2.1.1: Y/NIn case of Y, provide data. |
| 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 | Indicate if ‘Y’ is selected in parameter 1.1.1.2.4.1.1: Y/NIn case of Y, provide data. |
| 1.1.1.2.4.2.1 | System separation | Single selection from predefined list:Y/N | Indication of existence of system separation | Indicate if ‘Overhead contact line (OCL)’ is selected in 1.1.1.2.2.1.1: Y/NIn case of Y, provide data. |
| 1.1.1.2.4.2.2 | Information on system separation | Predefined Character String:length [NNN] + switch off breaker [Y/N] + lower pantograph [Y/N] + change supply system [Y/N] | Indication of required several information on system separation | Indicate if ‘Y’ is selected in parameter 1.1.1.2.4.2.1.: Y/N;In case of Y, provide data. |
| **1.1.1.2.5** | **Requirements for rolling stock** |   |
| 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. | Indicate if ‘not electrified’ is selected in parameter 1.1.1.2.2.1.1: Y/NIn case of N, provide data. |
| 1.1.1.2.5.2 | Contact force permitted | Character String | Indication of contact force allowed expressed in newtons. | Indicate if ‘not electrified’ is selected in parameter 1.1.1.2.2.1.1: Y/NIn case of N, provide data.The force is either given as a value of the static force and of the maximum force expressed in newtons, or as a formula for function of the speed. |
| 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. | Indicate if ‘not electrified’ is selected in parameter 1.1.1.2.2.1.1: Y/NIn case of N, provide data. |
| **1.1.1.3** | **Control — command and signalling subsystem** | **Parameters of this group are not mandatory if ‘Link’ is selected for 1.1.0.0.0.6,** |
| **1.1.1.3.1** | **Declarations of verification for track** |   |
| 1.1.1.3.1.1 | EC declaration of verification for track (CCS) | Predefined CharacterString:[CC/RRRRRRRRRRRRRR/YYYY/NNNNNN] | Unique number for EC declarations following format requirements specified in the ‘Document about practical arrangements for transmitting interoperability documents’ | Indicate if an EC Declaration was issued: Y/NIn case of Y, provide data. |
| **1.1.1.3.2** | **TSI compliant train protection system (ETCS)** |   |
| 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. |   |
| 1.1.1.3.2.2 | ETCS baseline | Single selection from the predefined list:prebaseline 2/baseline 2/baseline 3 | ETCS baseline installed lineside. | Indicate if ‘N’ is selected in parameter 1.1.1.3.2.1: Y/NIn case of N, provide data |
| 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. | Indicate if ‘N’ is selected in parameter 1.1.1.3.2.1: Y/NIn case of N, provide data |
| 1.1.1.3.2.4 | ETCS infill installed line-side | Single selection from the predefined list:None/Loop/GSM-R/Loop & GSM-R | Information about installed trackside equipment capable to transmit infill information by loop or GSM-R for level 1 installations. | Indicate if ‘N’ is selected in parameter 1.1.1.3.2.1: Y/NIn case of N, provide data |
| 1.1.1.3.2.5 | ETCS national application implemented | Single selection from the predefined list:Y/N | Indication whether data for national applications is transmitted between track and train. | Indicate if ‘N’ is selected in parameter 1.1.1.3.2.1: Y/NIn case of N, provide data |
| 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. | Indicate if ‘N’ is selected in parameter 1.1.1.3.2.1: Y/NIn case of N, provide data |
| 1.1.1.3.2.7 | Optional ETCS functions | Character String | Optional ETCS functions which might improve operation on the line. | Indicate if ‘N’ is selected in parameter 1.1.1.3.2.1: Y/NIn case of N, provide data |
| **1.1.1.3.3** | **TSI compliant radio (GSM-R)** |   |
| 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 line-side. |   |
| 1.1.1.3.3.2 | Advised number of active GSM-R mobiles (EDOR) on board for ETCS level 2 | Single selection from the predefined list:0/1/2 | Number of mobiles for ETCS data transmission (EDOR) advised for a smooth running of the train. This relates to the RBC handling of communication sessions. Not safety critical and no matter of interoperability. | Indicate if ‘none’ is selected in parameter 1.1.1.3.3.1 and if ERTMS level 2 is installed: Y/NIn case of N, provide data |
| 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. | Indicate if ‘none’ is selected in parameter 1.1.1.3.3.1: Y/NIn case of N, provide data |
| **1.1.1.3.4** | **Train detection systems fully compliant with the TSI** |   |
| 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. |   |
| **1.1.1.3.5** | **Train protection legacy systems** |   |
| 1.1.1.3.5.1 | Existence of other train protection, control and warning systems installed | Single selection from the predefined list:Y/N | Indication if other train protection, control and warning systems in normal operation are installed line-side. | Only mandatory if the selected option is ‘N’ for 1.1.1.3.2.1 |
| 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:Y/N | Indication whether more than one train protection, control and warning system is required to be on-board and active simultaneously. | Only mandatory if the selected option is ‘N’ for 1.1.1.3.2.1 |
| **1.1.1.3.6** | **Other radio systems** |   |
| 1.1.1.3.6.1 | Other radio systems installed | Single selection from the predefined list:Y/N | Indication if other radio systems in normal operation are installed line-side. | Only mandatory if the selected option is ‘none’ in parameter 1.1.1.3.3.1: Y/NIn case of N, provide data |
| **1.1.1.3.7** | **Train detection systems not fully compliant with the TSI** |   |
| 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. |   |
| 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. |   |
| 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. | Indicate if ‘TSI not compliant’ is selected in parameter 1.1.1.3.7.2.1: Y/NIn case of Y, provide data |
| 1.1.1.3.7.3 | Minimum permitted distance between two consecutive axles | [NNNN] | Indication of distance given in millimetres. | Indicate if ‘wheel detector’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 1.1.1.3.7.4 | Minimum permitted distance between first and last axle | [NNNNN] | Indication of distance given in millimetres. | Indicate if ‘track circuit’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 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. | Indicate if ‘wheel detector’ or ‘track circuit’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 1.1.1.3.7.6 | Minimum permitted width of the rim | [NNN] | Indication of width given in millimetres. | Indicate if ‘wheel detector’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 1.1.1.3.7.7 | Minimum permitted wheel diameter | [NNN] | Indication of wheel diameter given in millimetres. | Indicate if ‘wheel detector’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 1.1.1.3.7.8 | Minimum permitted thickness of the flange | [NN.N] | Indication of flange thickness given in millimetres. | Indicate if ‘wheel detector’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 1.1.1.3.7.9 | Minimum permitted height of the flange | [NN.N] | Indication of height of flange given in millimetres. | Indicate if ‘wheel detector’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 1.1.1.3.7.10 | Maximum permitted height of the flange | [NN.N] | Indication of height of flange given in millimetres. | Indicate if ‘wheel detector’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 1.1.1.3.7.11 | Minimum permitted axle load | [N.N] | Indication of load given in tons. | Indicate if ‘wheel detector’ or ‘track circuit’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 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. | Indicate if ‘wheel detector’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 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. | Indicate if ‘loop’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 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. | Indicate if ‘wheel detector’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 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. | Indicate if ‘track circuit’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 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 | Indicate if ‘TSI not compliant’ is selected in parameter 1.1.1.3.7.15.1: Y/NIn case of Y, provide data |
| 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 | Indicate if ‘track circuit’ in parameter 1.1.1.3.7.1 and ‘Y’ in parameter 1.1.1.3.7.18: are selected: Y/NIn case of Y, provide data |
| 1.1.1.3.7.17 | Maximum sanding output | [NNNNN] | Maximum value of sanding output for 30s given in grams accepted on the track | Indicate if ‘TSI not compliant’ is selected in parameter 1.1.1.3.7.16: Y/NIn case of Y, provide data |
| 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. | Indicate if ‘track circuit’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 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. | Indicate if ‘track circuit’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 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. | Indicate if ‘track circuit’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 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. | Indicate if ‘track circuit’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 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. | Indicate if ‘track circuit’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 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. | Indicate if ‘track circuit’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| **1.1.1.3.8** | **Transitions between systems** |   |
| 1.1.1.3.8.1 | Existence of switch over between different protection, control and warning systems | Single selection from the predefined list:Y/N | Indication whether a switch over between different systems whilst running exist | Indicate if at least two different systems exist: Y/NIn case of Y, provide data |
| 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 | Indicate if at least two different radio systems exist: Y/NIn case of Y, provide data |
| **1.1.1.3.9** | **Parameters related to electromagnetic interferences** |   |
| 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. | Indicate if ‘wheel detector’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| 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. | Indicate if ‘wheel detector’ or ‘track circuit’ is selected in parameter 1.1.1.3.7.1: Y/NIn case of Y, provide data |
| **1.1.1.3.10** | **Line-side system for degraded situation** |   |
| 1.1.1.3.10.1 | ETCS level for degraded situation | Single selection from the predefined list:none/1/2/3 | ERTMS/ETCS application level for degraded situation related to the track side equipment. | Indicate if ‘N’ is selected in parameter 1.1.1.3.2.1: Y/NIn case of N, provide data |
| 1.1.1.3.10.2 | Other train protection, control and warning systems for degraded situation | Single selection from the predefined list:Y/N | Indication of existence of other system than ETCS for degraded situation. | Mandatory if ‘none’ is selected in parameter 1.1.1.3.10.1: |
| **1.1.1.3.11** | **Brake related parameters** |   |
| 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. |   |
| **1.1.1.3.12** | **Other CCS related parameters** |   |
| 1.1.1.3.12.1 | Tilting supported | Single selection from the predefined list:Y/N | Indication whether tilting functions are supported by ETCS. | Indicate if ‘N’ is selected in parameter 1.1.1.3.2.1: Y/NIn case of N, provide data |
| **1.2** | **OPERATIONAL POINT** |   |
| **1.2.0.0.0** | **Generic information** |   |
| 1.2.0.0.0.1 | Name of operational point | CharacterString | Name normally related to the town or village or to traffic control purpose |   |
| 1.2.0.0.0.2 | Unique OP ID | Predefined CharacterString:[AA+AAAAA] | Code composed of country code and alphanumeric OP code. |   |
| 1.2.0.0.0.3 | OP TAF TAP primary code | Predefined CharacterString:[AANNNNN] | Primary code developed for TAF/TAP. |   |
| 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. |   |
| 1.2.0.0.0.5 | Geographical location of operational point | Predefined Character String:[Latitude (NN.NNNN) + Longitude(± NN.NNNN)] | Geographical coordinates in decimal degrees normally given for the centre of the OP. |   |
| 1.2.0.0.0.6 | Railway location of operational point | Predefined Character String:[NNNN.NNN] + [Character String] | Kilometre related to line identification defining the location of the OP. This will normally be in the centre of the OP. |   |
| **1.2.1** | **RUNNING TRACK** |   |
| **1.2.1.0.0** | **Generic information** |   |
| 1.2.1.0.0.1 | Infrastructure manager’s code | [NNNN] | Infrastructure manager means any body or undertaking that is responsible in particular for establishing and maintaining railway infrastructure or a part thereof. |   |
| 1.2.1.0.0.2 | Identification of track | Character String | Unique track identification or unique track number within OP |   |
| **1.2.1.0.1** | **Declarations of verification for track** |   |
| 1.2.1.0.1.1 | EC declaration of verification for track (INF) | Predefined CharacterString:[CC/RRRRRRRRRRRRRR/YYYY/NNNNNN] | Unique number for EC declarations following format requirements specified in the ‘Document about practical arrangements for transmitting interoperability documents’ | Indicate if an EC Declaration was issued: Y/NIn case of Y, provide data. |
| 1.2.1.0.1.2 | EI declaration of demonstration[(2)](https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1588579658137&uri=CELEX:32014D0880#ntr2-L_2014356EN.01049201-E0002) for track (INF) | Predefined CharacterString:[CC/RRRRRRRRRRRRRR/YYYY/NNNNNN] | Unique number for EI declarations following the same format requirements as specified in the ‘Document about practical arrangements for transmitting interoperability documents’. | Indicate if an EI Declaration was issued: Y/NIn case of Y, provide data. |
| **1.2.1.0.2** | **Performance parameters** |   |
| 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. |   |
| 1.2.1.0.2.2 | Category of line: | Single selection from the predefined list | Classification of a line according to the INF TSI. | Indicate if track is included in technical scope of the TSI: Y/NIn case of Y, provide data. |
| 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 | Indicate if track is designated to a RFC: Y/NIn case of Y, provide data |
| **1.2.1.0.3** | **Line layout** |   |
| 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 SRPS EN |   |
| 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 SRPS EN | Only mandatory if ‘none’ is selected in 1.1.1.1.3.1 |
| 1.2.1.0.3.3 | National gauges | Single selection from the predefined list | Domestic gauge as defined in SRPS EN or other local gauge. | Only mandatory if ‘none’ is selected in 1.1.1.1.3.2 is |
| **1.2.1.0.4** | **Track parameters** |   |
| 1.2.1.0.4.1 | Nominal track gauge | Single selection from the predefined list:750/1 000/1 435/1 520/1 524/1 600/1 668/other | A single value expressed in millimetres that identifies the track gauge. |   |
| **1.2.1.0.5** | **Tunnel** |   |
| 1.2.1.0.5.1 | IM's code | [NNNN] | Infrastructure manager means any body or undertaking that is responsible in particular for establishing and maintaining railway infrastructure or a part thereof. |   |
| 1.2.1.0.5.2 | Tunnel identification | Character String | Unique tunnel identification or unique tunnel number within MS |   |
| 1.2.1.0.5.3 | EC declaration of verification for tunnel (SRT) | Character String:[CC/RRRRRRRRRRRRRR/YYYY/NNNNNN] | Unique number for EC declarations following format requirements specified in the ‘Document about practical arrangements for transmitting interoperability documents’ | Indicate if an EC Declaration was issued: Y/NIn case of Y, provide data. |
| 1.2.1.0.5.4 | EI declaration of demonstration[(2)](https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1588579658137&uri=CELEX:32014D0880#ntr2-L_2014356EN.01049201-E0002) for tunnel (SRT) | Predefined Character String:[CC/RRRRRRRRRRRRRR/YYYY/NNNNNN] | Unique number for EI declarations following the same format requirements as specified in the ‘Document about practical arrangements for transmitting interoperability documents’. | Indicate if an EI Declaration was issued: Y/NIn case of Y, provide data. |
| 1.2.1.0.5.5 | Length of tunnel | [NNNNN] | Length of a tunnel in metres from entrance portal to exit portal. | Only mandatory if the length of the tunnel is 100 metres or more |
| 1.2.1.0.5.6 | Existence of emergency plan | Single selection from the predefined list:Y/N | Indication whether emergency plan exists. |   |
| 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 | Indicate if the length of the tunnel is 1 km or more: Y/NIn case of Y, provide data. |
| 1.2.1.0.5.8 | National fire category of rolling stock required | Character String | 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 | Indicate if respective national rules exist: Y/NIn case of Y, provide data. |
| **1.2.1.0.6** | **Platform** |   |
| 1.2.1.0.6.1 | IM's code | [NNNN] | Infrastructure manager means any body or undertaking that is responsible in particular for establishing and maintaining railway infrastructure or a part thereof. |   |
| 1.2.1.0.6.2 | Identification of platform | Character String | Unique platform identification or unique platform number within OP |   |
| 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. |   |
| 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. |   |
| 1.2.1.0.6.5 | Height of platform | Single selection from the predefined list:250/280/550/760/300-380/200/580/680/685/730/840/900/915/920/960/1 100/other | Distance between the upper surface of platform and running surface of the neighbouring track. It is the nominal value expressed in millimetres. |   |
| 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. |   |
| 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. |   |
| **1.2.2** | **SIDING** |   |
| **1.2.2.0.0** | **Generic information** |   |
| 1.2.2.0.0.1 | IM's code | [NNNN] | Infrastructure manager means any body or undertaking that is responsible in particular for establishing and maintaining railway infrastructure or a part thereof. |   |
| 1.2.2.0.0.2 | Identification of siding | CharacterString | Unique siding identification or unique siding number within OP |   |
| 1.2.2.0.0.3 | TEN Classification of siding | 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. |   |
| **1.2.2.0.1** | **Declaration of verification for siding** |   |
| 1.2.2.0.1.1 | EC declaration of verification for siding (INF) | Predefined Character String:[CC/RRRRRRRRRRRRRR/YYYY/NNNNNN] | Unique number for EC declarations following format requirements specified in the ‘Document about practical arrangements for transmitting interoperability documents’ | Indicate if an EC Declaration was issued: Y/NIn case of Y, provide data. |
| 1.2.2.0.1.2 | EI declaration of demonstration[(2)](https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1588579658137&uri=CELEX:32014D0880#ntr2-L_2014356EN.01049201-E0002) for siding (INF) | Predefined Character String:[CC/RRRRRRRRRRRRRR/YYYY/NNNNNN] | Unique number for EI declarations following the same format requirements as specified in the ‘Document about practical arrangements for transmitting interoperability documents’. | Indicate if an EI Declaration was issued: Y/NIn case of Y, provide data. |
| **1.2.2.0.2** | **Performance parameter** |   |
| 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. |   |
| **1.2.2.0.3** | **Line layout** |   |
| 1.2.2.0.3.1 | Gradient for stabling tracks | [N.N] | Maximum value of the gradient expressed in millimetres per metre. | Mandatory only if it is above TSI value |
| 1.2.2.0.3.2 | Minimum radius of horizontal curve | [NNN] | Radius of the smallest horizontal curve, expressed in metres. | Mandatory only if it is below TSI value |
| 1.2.2.0.3.3 | Minimum radius of vertical curve | [NNN+NNN] | Radius of the smallest vertical curve expressed in metres. | Mandatory only if it is below TSI values |
| **1.2.2.0.4** | **Fixed installations for servicing trains** |   |
| 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. |   |
| 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. |   |
| 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. |   |
| 1.2.2.0.4.4 | Existence of refueling | Single selection from the predefined list:Y/N | Indication whether exists an installation of refueling (fixed installation for servicing trains) as defined in INF TSIs. |   |
| 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). |   |
| 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). |   |
| **1.2.2.0.5** | **Tunnel** |   |
| 1.2.2.0.5.1 | IM's code | [NNNN] | Infrastructure manager means any body or undertaking that is responsible in particular for establishing and maintaining railway infrastructure or a part thereof. |   |
| 1.2.2.0.5.2 | Tunnel identification | CharacterString | Unique tunnel identification or unique number within Member State |   |
| 1.2.2.0.5.3 | EC declaration of verification for tunnel (SRT) | Predefined CharacterString:[CC/RRRRRRRRRRRRRR/YYYY/NNNNNN] | Unique number for EC declarations following format requirements specified in the ‘Document about practical arrangements for transmitting interoperability documents’ | Indicate if an EC Declaration was issued: Y/NIn case of Y, provide data. |
| 1.2.2.0.5.4 | EI declaration of demonstration[(2)](https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1588579658137&uri=CELEX:32014D0880#ntr2-L_2014356EN.01049201-E0002) for tunnel (SRT) | Predefined CharacterString:[CC/RRRRRRRRRRRRRR/YYYY/NNNNNN] | Unique number for EI declarations following the same format requirements as specified in the ‘Document about practical arrangements for transmitting interoperability documents’. | Indicate if an EI Declaration was issued: Y/NIn case of Y, provide data. |
| 1.2.2.0.5.5 | Length of tunnel | [NNNNN] | Length of a tunnel in metres from entrance portal to exit portal. | Mandatory only if the length of the tunnel is 100 metres or more |
| 1.2.2.0.5.6 | Existence of emergency plan | Single selection from the predefined list:Y/N | Indication whether emergency plan exists. |   |
| 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. | Indicate if the length of the tunnel is 1km or more: Y/NIn case of Y, provide data. |
| 1.2.2.0.5.8 | National fire category of rolling stock required | Character String | 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. | Only mandatory if ‘none’ is selected in parameter 1.1.1.1.8.10Indicate if respective national rules exist: Y/NIn case of Y, provide data. |

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**Annex 2**

**Architecture of the Information System Supporting RINF**

**Common user interface**

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**Minimum required functionality of the common user interface (CUI)**

The CUI shall provide at least the following functionalities:

* User management: 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;
* Search for RINF data including OPSs and or SoLs with particular RINF characteristics;
* 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;
* Validation, upload and reception of the full RINF data sets.

**Operating mode**

The RINF system provides two main interfaces via the CUI:

* One is used in order to provide/upload copies of full 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.

The RINF data shall be regularly updated, at least every three months. One update coincide with the annual publication of the Network Statement.

**Availability**

The Common User Interface shall be available seven days a week, from 2:00 GMT to 21:00 GMT. The unavailability of the system shall be minimal during maintenance.