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safe railway system without frontiers

## ESC/RSC technical document

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### Document History

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1.0	30/01/2020	First version for publication
2.0	09/03/2020	Update following received inputs. Values for ESC FR, IT and for RSC ES.
3.0	30/03/2020	Update of RSC for NL
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4.1	02/06/2020	Included "Valid" Status for ESC-SE-04-HiL2B3
5.0	19/06/2020	Update of ESC NL and RSC FR
5.1	24/06/2020	Included information for RSC voice in the Figueras-Perpignan line as part of the Adif GSM-R network
5.2	06/07/2020	Updated values for ESC/RSC NO.
5.3	12/08/2020	Updated values for ESC AT,FR,IT and RSC ES,SK,IT
6.0	02/09/2020	Update of ESC BE,IT
7.0	20/11/2020	Update of ESC PL
8.0	22/01/2021	Update of ESC IT RFI Update of ESC FR OC'VIA Update of RSC SNCF-R
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		have a clear separation between the “valid” ones and the “reserved” ones.
10.0	30/03/2021	Update of ESC AT OEBB Infra
11.0	13/07/2021	Update of ESC FR for BPL, SEA and SNCF-R Update of RSC FR for SEA Update of ESC IT for RFI Update ESC/RSC PL for PKP Update of ESC CZ for SZDC Update of ESC/RSC RO for CFR Update of RSC ES for ADIF
12.0	11/10/2021	Update for ESC-DE-01 and 02 as “valid”. ESC-DE-03 as “reserved”. Update for ESC-LU and ESC-FRES as “reserved”.
13.0	12/11/2021	RSC PL update for PKP ESC SE update for Trafikverket
14.0	17/02/2022	Corrected typo in ESC-LU-01 ESC-NO-02 as “valid” Update of RSC for ES, including new RSC-Data types Update of ESC for BE
15.0	17/03/2022	Update of ESC IT for RFI.
16.0	31/03/2022	Draft ESC ES for ADIF. Update of RSC ES correcting the value for two lines.
17.0	11/04/2022	RSC DE for DB Netz ESC DE for DB Netz RSC GR for OSE net ESC GR for OSE net
18.0	31/05/2022	RSC LU for CFL
19.0	01/07/2022	Update of ESC BE for Infrabel
20.0	26/07/2022	Update of ESC/RSC for Switzerland
21.0	20/10/2022	Update of ESC for Denmark Correction of RSC data typo for ES ESC-LU-01-RFN and ESC-LU-02-MSM as “valid”
22.0	20/12/2022	RSC-EU-0 for BDK Updated links to ESC/RSC documents
23.0	14/02/2023	Update of ESC IT for RFI
24.0	01/03/2023	Update of ESC BE for Infrabel
25.0	16/05/2023	Update of ESC AT for OEBB Included RSC voice PT Updated of RSC data for ES
26.0	13/06/2023	Update of RSC FR
27.0	10/10/2023	Update of ESC SE Included ESC ES as Valid (except Hitachi) Update references to CCS TSI (EU) 2023/1695
28.0	24/10/2023	Update of ESC BE for Infrabel
29.0	21/03/2024	Update of ESC IT for RFI
30.0	23/05/2024	Update of ESC LU for CFL

		Update of ESC PL for PKM ESC-EU-0 assigned to Ireland ESC-IT-09-RFI (update of specification reference to version G)
31.0	31/07/2024	Editorial/structural updates Update of ESC/RSC UK for RSSB
32.0	02/09/2024	Update of ESC DE: <ul style="list-style-type: none"> <li>- ESC-DE-08-B3-L2 : new type</li> <li>- ESC-DE-01-B2_L2 and ESC-DE-02-B3_L2 -: editorial updated + remove of some test cases</li> </ul>
33.0	26/11/2024	Belgium: Corrected version of document "PSI (TP,ETCSsys.L1LS,z) ESC TST DSC" Luxembourg: Update version of document "GI.II.STC-VF" with no impact of the ESC definition Bulgaria: ESC-EU-0, RSC-EU-0 assigned Spain: Update of the RSC version for ES lines to v7.1. No new or modified RSC type only new lines using the defined ones. Germany: Addition of the ESC-DE-05-B3-L2
34.0	11/12/2024	Spain: Addition of ESC-ES-442 and correction of typo in "Notes" for ESC-ES-441. Main document and excel file updated to v3.2. Zip files remains at v2.3. Italy: Addition of 4 reserved types. Documentation updated for the other types to version H, only for improvement/removal/wording and to extend applicability to existing types to lines.
35.0	14/03/2025	Italy: <ul style="list-style-type: none"> <li>- Document reference update from version G to version H of ESC-IT-32-FI_2.0_L1_Cs_PTLU_IT_01</li> <li>- Cancellation of temporary valid types: <ul style="list-style-type: none"> <li>o ESC-IT-01-RFI-1.0_L2_AVp_RMNA_01</li> <li>o ESC-IT-02-RFI-1.0_L2_AVp_MIBO_01</li> <li>o ESC-IT-03-RFI-1.0_L2_AVp_BOFI_01</li> <li>o ESC-IT-04-RFI-1.0_L2_AVp_TOMI_01</li> <li>o ESC-IT-05-RFI-1.0_L2_AVp_TRBR_01</li> <li>o ESC-IT-07-RFI-2.0_L1_Cs_ISDO_01</li> <li>o ESC-IT-08-RFI-2.1_L1_Cs_DONO_01</li> <li>o ESC-IT-10-RFI-2.1_L2_Cs_NOPD_01</li> <li>o ESC-IT-11-RFI-2.0_L1_Cs_PTLU_01</li> <li>o ESC-IT-14-RFI_2.1_L1_Cs_VENTIMIGLIA_01</li> <li>o ESC-IT-16-RFI_2.1_L1_Cs_VIVO_01</li> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>○ ESC-IT-17-RFI_2.1_L2_Cs_MIMOCH_01</li> <li>○ ESC-IT-18-RFI_2.1_L2_Cs_NOPD_02</li> </ul> <p>Slovenia: Publication of ESC-SI-01</p> <p>Introduction of Appendix A containing all cancelled types</p>
36.0	25/04/2025	<p>Germany:</p> <ul style="list-style-type: none"> <li>• Publication of ESC-DE-03-B3_L1LS</li> </ul> <p>The Netherlands</p> <ul style="list-style-type: none"> <li>• Document reference update from V001 to V004 of RLN00445.</li> <li>• Cancellation of ESC types: <ul style="list-style-type: none"> <li>○ ESC-NL-04</li> <li>○ ESC-NL-07</li> <li>○ ESC-NL-08</li> <li>○ ESC-NL-09</li> </ul> </li> <li>• New ESC types: <ul style="list-style-type: none"> <li>○ ESC-NL-24</li> <li>○ ESC-NL-25</li> <li>○ ESC-NL-26</li> <li>○ ESC-NL-27</li> <li>○ ESC-NL-28</li> </ul> </li> </ul> <p>Belgium: minor corrections, removals or simplifications of ESC checks brought by new versions of documents:</p> <ul style="list-style-type: none"> <li>• PSI (TC,ETCSsys,z) ESC TST PLN 1.9 E</li> <li>• PSI (TC,ETCSsys,z) ESC TST DSC 1.4 E</li> <li>• PSI (TC,ETCSsys.L1FS,z) ESC TST DSC 1.6 E</li> <li>• PSI (TP,ETCSsys.L1LS,z) ESC TST DSC 1.7 E</li> <li>• PSI (TC,ETCSsys.L2,z) ESC TST DSC 1.5 E</li> <li>• PSI (TC,ETCSsys.L2HSL,z) ESC TST DSC 1.4 E</li> <li>• PSI (TC,ETCSsys,z) Borders ESC TST DSC NL 1.2 E</li> </ul>
37.0	03/07/2025	Poland: RSC-PL-01-V status change to valid
38.0	17/09/2025	<p>Germany:</p> <ul style="list-style-type: none"> <li>• Extension of applicability of ESC-DE-05-B3-L2</li> </ul> <p>Norway:</p> <ul style="list-style-type: none"> <li>• ESC-NO-02 extension for Stage 2 lines</li> </ul> <p>Spain:</p> <ul style="list-style-type: none"> <li>• ESC documentation updated to v3.3. No new ESC type defined, updated lines were applicable and clarifications.</li> </ul>
39.0	22/09/2025	Germany:

		<ul style="list-style-type: none"> <li>Correction of test catalogue version 1.7 instead of 1.6) coming together with update performed in version 38.0</li> </ul>
40.0	26/11/2025	<p>Germany:</p> <ul style="list-style-type: none"> <li>Update version of “Testfallkatalog_ESC-DE_L1LS” only for formal reasons, no content change</li> <li>Removal of the RSC-DE-01-V. No RSC are longer required, so DE included under RSC-EU-0.</li> </ul> <p>Italy</p> <ul style="list-style-type: none"> <li>Publication of the 4 following reserved types: <ul style="list-style-type: none"> <li>ESC-IT-33- RFI_B3_L2p_PR_01</li> <li>ESC-IT-34- RFI_B3_L2p_HR_01</li> <li>ESC-IT-35- RFI_B3_L2p_AF_01</li> <li>ESC-IT-36- RFI_B3_L2p_MM_01</li> </ul> </li> <li>Documentation updated for the other types to version I, only for improvement/removal/wording and to extend applicability to types to lines</li> </ul> <p>Spain</p> <ul style="list-style-type: none"> <li>Update of RSC document to v8, reflecting the migration of types RSC-ES-03 for voice and data to types RSC-ES-05.</li> </ul>
41.0	09/12/2025	<p>Portugal</p> <ul style="list-style-type: none"> <li>Update of RSC document to v2, migrating all the network to the type RSC-PT-02-V. The type RSC-PT-01-V is cancelled.</li> </ul> <p>Slovenia</p> <ul style="list-style-type: none"> <li>Update of the reference document, so change of the ESC check content.</li> </ul> <p>Norway</p> <ul style="list-style-type: none"> <li>Change of document names. No content change: <ul style="list-style-type: none"> <li>2000004807_004 → ESC-NO-02</li> <li>erp-00-q-00054_01e_004 → ESC-NO-01</li> </ul> </li> </ul>

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## 1. Introduction

This is a technical document prepared by the European Union Agency for Railways which lists the “ESC/RSC types” based on information received from Infrastructure Managers in accordance with the provisions 4.2.17 of Annex I of the CCS TSI [1].

## 2. Abbreviations, Acronyms and References

### 2.1. Abbreviations and acronyms

CCS	Control Command and Signalling
ERATV	European Register of Authorised Types of Vehicles
ESC	ETCS System Compatibility
RINF	Register of infrastructure
RSC	Radio System Compatibility
TSI	Technical Specification for Interoperability

### 2.2. References

[1] – Commission Implementing Regulation (EU) 2023/1695 of 10 August 2023 on the technical specification for interoperability relating to the control-command and signalling subsystems of the rail system in the European Union and repealing Regulation (EU) 2016/919.

## 3. Use of this document

By 28 March 2024, Infrastructure managers shall submit to the Agency (by email to [esc-rsc@era.europa.eu](mailto:esc-rsc@era.europa.eu)) the definition of the checks for the compatibility of vehicles with the infrastructure regarding the ETCS system and the radio system for the existing lines equipped with ERTMS or GSM-R in operation.

The Agency shall update this technical document within 10 working days after positive assessment. The Agency will assign a unique identifier to each ESC/RSC type which will be communicated to the Infrastructure Manager.

The format of the identifiers will be:

*<ESC or RSC>-<Member State code or EU for more than one Member States codes>-<two digits sequential numbering>-<In case of RSC, V for voice and/or D for data>-<Optionally, specific coding provided by the IM>.* As example: ESC-FR-01-AA.

The corresponding identifiers will be also included in the predefined list of values to be selected in RINF and ERATV.

Infrastructure Managers shall classify the lines according to ESC/RSC types in RINF, using the provided identifier. ERATV users shall also include the ESC/RSC types that have been checked for the vehicles, using the identifiers from this technical document.

Infrastructure Managers shall submit to the Agency any changes on the referred type(s) for their networks, by using the same email ([esc-rsc@era.europa.eu](mailto:esc-rsc@era.europa.eu)) and making reference to the modified ESC/RSC type(s).

The Agency will publish regular updates of this document on the Agency website and will inform the relevant working parties, to allow the sector (especially the VA applicants) to plan their activities accordingly.

The latest version of the files with the definition of the checks corresponding to each ESC and RSC types submitted by each Infrastructure Manager can be found in the Agency webpage under the section ERTMS:

- ETCS System Compatibility: ETCS System Compatibility (ESC) documents | European Union Agency for Railways (europa.eu)

- Radio System Compatibility: Radio System Compatibility (RSC) voice and data documents | European Union Agency for Railways (europa.eu)

## 4. Content of the document

The following chapters contain tables gathering the types:

- *ESC - Chapter 5*
- *RSC Voice - Chapter 6*
- *RSC Data - Chapter 7*

The type status can be:

- *“Valid”.*
- *“Reserved” meaning that the ESC/RSC identifier has been assigned but the content of the ESC/RSC is still under revision.*
- *“Cancelled” meaning that this type cannot be used anymore.*
- *“For information” meaning that the Agency did not perform any assessment/verification of the checks.*

A type with a status “Valid until dd/mm/yyyy” means that it can be used for demonstration of compatibility, by means of an ESC (or RSC) Statement, until the given date. After the date, the status of the type will be changed to “Cancelled”.

The column “Notes” provides additional information, e.g., on the lines on which the ESC or RSC type is applicable. The up-to-date information shall be recorded by IM in RINF.

For clarity in the tables of chapters 5, 6 and 7, Appendix A gathers all types that have been cancelled.



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## 5. ESC types table

The following table includes the defined identifiers for ESC types.

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
Not applicable	All Union	When ETCS is not installed or not authorised.	16/01/2020	Valid	Only to be used in ERATV
Not defined	All Union	No ESC submitted	16/01/2020	Valid	Only to be used in RINF
ESC-NP-CCS7.4a	Each Member State of the Union	Technical compatibility demonstrated according to CCS TSI Section 7.5 or National Procedure. Reference to the National Procedure to be recorded as non-coded restriction.	16/01/2020	Valid	Only to be used in ERATV
ESC-EU-0	<ul style="list-style-type: none"> <li>- <i>Greece/OSE net</i></li> <li>- <i>Ireland/Irish Rail</i></li> <li>- <i>Bulgaria/NRIC</i></li> </ul>	No ESC needed to be performed to demonstrate technical compatibility. Subsystem certificates are sufficient.	26/11/2024	Valid	

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-AT-01	Austria/OEBB	50.02.05 Leitfaden Betriebsführung ETCS v4c Anhang 1 zum Leitfaden Betriebsführung ETCS LF 50.02.05 (v03) Anhang 2 zum Leitfaden Betriebsführung ETCS LF 50.02.05 (v03)	06/02/2023	Valid	
ESC-BE-01-L1FS	Belgium / Infrabel	PSI (TC,ETCSsys,z) ESC TST PLN 1.9 E PSI (TC,ETCSsys.L1FS,z) ESC TST DSC 1.6 E PSI (TC,ETCSsys,z) ESC TST DSC 1.4 E PSI (TC,ETCSsys,z) BORDER ESC TST DSC 1.4 E PSI (TC,ETCSsys,z) Borders ESC TST DSC D 1.1 E PSI (TC,ETCSsys,z) Borders ESC TST DSC FR 1.1 E PSI (TC,ETCSsys,z) Borders ESC TST DSC L 1.1 E	25/04/2025	Valid	ETCS level 1 Full Supervision
ESC-BE-02-L2FS	Belgium / Infrabel	PSI (TC,ETCSsys,z) ESC TST PLN 1.9 E PSI (TC,ETCSsys.L2,z) ESC TST DSC 1.5 E PSI (TC,ETCSsys,z) ESC TST DSC 1.4 E PSI (TC,ETCSsys,z) BORDER ESC TST DSC 1.4 E PSI (TC,ETCSsys,z) Borders ESC TST DSC NL 1.2 E	25/04/2025	Valid	ETCS level 2 Full Supervision conventional network

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-BE-03-L1LS	Belgium / Infrabel	PSI (TC,ETCSsys,z) ESC TST PLN 1.9 E PSI (TP,ETCSsys.L1LS,z) ESC TST DSC 1.7 E PSI (TC,ETCSsys,z) ESC TST DSC 1.4 E PSI (TC,ETCSsys,z) BORDER ESC TST DSC 1.4 E PSI (TC,ETCSsys,z) Borders ESC TST DSC FR 1.1 E PSI (TC,ETCSsys,z) Borders ESC TST DSC NL 1.2 E	25/04/2025	Valid	ETCS level 1 Limited Supervision
ESC-BE-04-LGV3_4	Belgium / Infrabel	PSI (TC,ETCSsys,z) ESC TST PLN 1.9 E PSI (TC,ETCSsys.L2HSL,z) ESC TST DSC 1.4 E PSI (TC,ETCSsys,z) ESC TST DSC 1.4 E PSI (TC,ETCSsys,z) BORDER ESC TST DSC 1.4 E PSI (TC,ETCSsys,z) Borders ESC TST DSC NL 1.2 E	25/04/2025	Valid	High speed lines
ESC-CZ-01	Czech Republic / SŽDC	Letter 48510/2020- SŽ-GR-O14 SŽ PPD-2/2018 as amended by Change No. 1	28/04/2021	Valid	Kolín (inclusive) – Česká Třebová – Adamov (inclusive), Modřice (exclusive) – Břeclav – state border with Austria/Slovakia
ESC-CZ-02	Czech Republic / SŽDC	Letter 48510/2020- SŽ-GR-O14 SŽ PPD-2/2018 as amended by Change No. 1	28/04/2021	Valid	Petrovice u Karviné – Břeclav, Česká Třebová (exclusive) – Přerov, Český Brod – Praha-Malešice – Praha-Uhřetěves

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-DK-01-East	Denmark / Banedanmark	ETCS System Compatibility Process (SPOP-1442693290) v4.0 ESC - ERTMS L2 - Generic Operational Test Cases Data Sheets (SP-EMO-P2-002008) V3.4	17/08/2022	Valid	
ESC-DK-02-West	Denmark / Banedanmark	ETCS System Compatibility Process (SPOP-1442693290) v4.0 ESC - ERTMS L2 - Generic Operational Test Cases Data Sheets (SP-EMO-P2-002008) V3.4	17/08/2022	Valid	
ESC-FR-01-LB	France / SNCF Réseau / OC'VIA	SNCF Réseau document : 203T055-RaiC Ed 2.0 Liste ESC OC'VIA document: CNM-OCVIA-000001 – C	18/05/2021	Valid	Generic ETCS L1 ESC type is applicable for SNCF Réseau and OC'VIA
ESC-FR-02-LB	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section Bettembourg(LU)-Zoufftgen. Only the execution of the transition is part of ESC check
ESC-FR-03-LB	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section Rodange(LU)-Mont St Martin. Only the execution of the transition is part of ESC check
ESC-FR-04-LB	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section Aubange(BE)-Mont St Martin. Only the execution of the transition is part of ESC check
ESC-FR-05-LB	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section Kehl(DE)-Strasbourg Port du Rhin. Only the execution of the transition is part of ESC check
ESC-FR-06-LB	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section St Johann(CH)—St Louis. Only the execution of the transition is part of ESC check

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-FR-07-SF	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section Mouscron-Toucoing(B). Only the execution of the transition is part of ESC check
ESC-FR-08-SF	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section Froyennes-Baisieux(B). Only the execution of the transition is part of ESC check
ESC-FR-09-SF	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section Quévy-Hautmont(B). Only the execution of the transition is part of ESC check
ESC-FR-10-SF	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section Erquelines-Jeumont(B). Only the execution of the transition is part of ESC check
ESC-FR-11-SF	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section Perl-Apach(DE). Only the execution of the transition is part of ESC check
ESC-FR-12-SF	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section Saarbrücken Hbf-Forbach(DE). Only the execution of the transition is part of ESC check
ESC-FR-13-SF	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section Kehl-Strasbourg-Neudorf(DE). Only the execution of the transition is part of ESC check
ESC-FR-14-SF	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section Neuenburg Bad-Bantzenheim(DE). Only the execution of the transition is part of ESC check

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-FR-15-SF	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section Basel-St Louis(CH). Only the execution of the transition is part of ESC check
ESC-FR-16-SF	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section Boncourt-Delle(CH). Only the execution of the transition is part of ESC check
ESC-FR-17-SF	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section Les Verrières-Pontarlier(CH). Only the execution of the transition is part of ESC check
ESC-FR-18-SF	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section Vallorbe-Les Longevilles Rochejan(CH). Only the execution of the transition is part of ESC check
ESC-FR-19-SF	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section La Plaine-Longeray-Léaz(CH). Only the execution of the transition is part of ESC check
ESC-FR-20-SF	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section Genève Eaux Vives-Annemasse(CH). Only the execution of the transition is part of ESC check
ESC-FR-21-SF	France / SNCF Réseau	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Border section TP ferro(ES). Only the execution of the transition is part of ESC check
ESC-FR-22-LB	France / SNCF Réseau / OC'VIA	SNCF Réseau document : 203T055-RaiC Ed 2.0 Liste ESC OC'VIA document : CNM-OCVIA-000001 – C	18/05/2021	Valid	Transition to/from KVB ESC type is applicable for SNCF Réseau and OC'VIA

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-FR-23-LB	France / SNCF Réseau / OC'VIA	SNCF Réseau document : 203T055-RaiC Ed 2.0 Liste ESC OC'VIA document : CNM-OCVIA-000001 – C	18/05/2021	Valid	Transition to/from TVM430 ESC type is applicable for SNCF Réseau and OC'VIA
ESC-FR-24-AA	France / EIFFAGE	ERE-D-QSE2-N61-E	07/04/2021	Valid	Generic ETCS L1
ESC-FR-25-AD	France / EIFFAGE	ERE-D-QSE2-N61-E	07/04/2021	Valid	Transition to/from KVB
ESC-FR-26-AE	France / EIFFAGE	ERE-D-QSE2-N61-E	07/04/2021	Valid	Transition to/from TVM430
ESC-FR-27-LGVVEE	France / SNCF Réseau / LISEA / EIFFAGE	SNCF Réseau document : 20-3T017-PEEE-liste_ESC_LGVVEE_V4 LISEA document : INS-LIDOP-RS2802-A1 EIFFAGE document : ERE-D-QSE2-N60-B	09/07/2021	Valid	Generic ETCS L2 ESC type is applicable for SNCF Réseau, SEA and BPL lines (type named ESC-FR-01-LGVVEE in previous versions of this document)
ESC-FR-28-LGVVEE	France / SNCF Réseau	20-3T017-PEEE liste ESC LGVVEE	02/07/2020	Valid	Transition KVB -> ETCS L2 on HSL EE (type named ESC-FR-02-LGVVEE in previous versions of this document)
ESC-FR-29-LGVVEE	France / SNCF Réseau	20-3T017-PEEE liste ESC LGVVEE	02/07/2020	Valid	Transition ETCS L2 -> KVB on HSL EE (type named ESC-FR-03-LGVVEE in previous versions of this document)
ESC-FR-30-LGVVEE	France / SNCF Réseau	20-3T017-PEEE liste ESC LGVVEE	02/07/2020	Valid	Transition ETCS L2 -> KVB on HSL EE (at Vaires) (type named ESC-FR-04-LGVVEE in previous versions of this document)
ESC-FR-31-LGVVEE	France / SNCF Réseau	20-3T017-PEEE liste ESC LGVVEE	02/07/2020	Valid	Transition ETCS L2 <-> TVM on HSL EE (type named ESC-FR-05-LGVVEE in previous versions of this document)
ESC-FR-32-LGVVEE	France / SNCF Réseau	20-3T017-PEEE liste ESC LGVVEE	02/07/2020	Valid	Transition ETCS L1 <-> ETCS L2 on HSL EE (type named ESC-FR-06-LGVVEE in previous versions of this document)

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-FR-33-SEA	France / LISEA	INS-LIDOP-RS2802-A1	18/05/2021	Valid	Transition KVB <-> ETCS L2
ESC-FR-34-SEA	France / LISEA	INS-LIDOP-RS2802-A1	18/05/2021	Valid	Transition TVM <-> ETCS L2
ESC-FR-35-BPL	France / EIFFAGE	ERE-D-QSE2-N60-B	18/05/2021	Valid	Transition KVB <-> ETCS L2
ESC-FR-36-BPL	France / EIFFAGE	ERE-D-QSE2-N60-B	18/05/2021	Valid	Transition TVM <-> ETCS L2
ESC-FRES-01	France – Spain / LFP Perthus	Section 7.7.3 of SFE-SCE 01.05.01.00.00 V-02 EXE.pdf		Reserved	
ESC-DE-01-B2_L2	Germany / DB InfraGO AG	Testfallkatalog_ESC-DE_L2_v1.7 Anlage ESC-DE-01.zip	02/09/2024	Valid	Currently is valid for the following routes: 5919: section Leipzig Messe - Breitengüßbach 6340: section Halle Hbf - Halle Ammendorf 6394: section Halle Ammendorf - Halle Planena 6340: section Erfurt Hbf - Eisenach 6291: section Erfurt Hbf - Neudietendorf
ESC-DE-02-B3_L2	Germany / DB InfraGO AG	Testfallkatalog_ESC-DE_L2_v1.7 Anlage ESC-DE-02.zip	02/09/2024	Valid	Currently is valid for the following routes: 6135: section Neuhof (bei Zossen) - Rückersdorf 4813: section Ulm Hbf - Wendlingen Rübholz 4615: Wendlingen Rübholz - Wendlingen 3601: section Darmstadt Süd - Laudenbach (Bergstr)
ESC-DE-03-B3_L1LS	Germany / DB InfraGO AG	Testfallkatalog_ESC-DE_L1LS_v1.4 Anlage ESC-DE-03.zip	25/04/2025	Valid	ETCS Level 1 Limited Supervision for the Swiss border operation lines



ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-DE-05-B3-L2	Germany / DB InfraGO AG	Testfallkatalog_ESC-DE_L2_v1.7  Anlage ESC-DE-05.zip	17/09/2025	Valid	Currently is valid for the following routes: 4000: Section Abzw Gundelfingen – Haltingen 4280: Section Abzw Schliengen Nord – Haltingen 2324: Section Unkel Station – Leutesdorf Station 3507: Section Oberlahnstein Station – Assmannshausen Station and routes of the Digitaler Knoten Stuttgart (DKS)
ESC-DE-08-B3_L2	Germany / DB InfraGO AG	Testfallkatalog_ESC-DE_L2_v1.7  Anlage ESC-DE-08.zip	02/09/2024	Valid	Currently is valid for the following routes: 6207: section Horka Gbf – Knappenrode 4010: section Walldorf – Mannheim-Waldhof
ESC-IT-06-RFI-1.0_L2_AVp_DD_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 I + Allegato 1 Allegato 2 Allegato 3 Allegato 4	11/12/2024	Valid	Firenze-Roma “Direttissima (DD)” line
ESC-IT-09-RFI-2.0_L1-Cs_CHIASSO_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 I + Allegato 1 Allegato 2 Allegato 3 Allegato 4	11/12/2024	Valid	Transition in the station of Chiasso / Monte Olimpino 1

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-IT-12-RFI-2.0_L1-Cs_ISDO_CH_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 I + Allegato 1 Allegato 2 Allegato 3 Allegato 4	11/12/2024	Valid	This type can be used only for cross-border shuttle service from Switzerland to Domodossola station
ESC-IT-13-RFI-2.0_L1-Cs_PTLU_CH_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 I + Allegato 1 Allegato 2 Allegato 3 Allegato 4	11/12/2024	Valid	This type can be used only for cross-border shuttle service from Switzerland to Luino station
ESC-IT-15-RFI_2.1_L1-Cs_VENTIMIGLIA_FR_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 I + Allegato 1 Allegato 2 Allegato 3 Allegato 4	11/12/2024	Valid	This type can be used only for cross-border shuttle service from France to Ventimiglia station
ESC-IT-24-RFI_B2_L2AV_AF_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 I + Allegato 1 Allegato 2 Allegato 3 Allegato 4	11/12/2024	Valid	
ESC-IT-25-RFI_B2_L2AV_HR_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 I + Allegato 1 Allegato 2 Allegato 3 Allegato 4	11/12/2024	Valid	
ESC-IT-26-RFI_B3_L2s_HR_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 I + Allegato 1 Allegato 2 Allegato 3 Allegato 4	11/12/2024	Valid	

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-IT-27- RFI_B3_L2s_AF_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 I + Allegato 1 Allegato 2 Allegato 3 Allegato 4	11/12/2024	Valid	
ESC-IT-28- RFI_2.1_L1_Cs_VENTIMIGLIA_IT_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 I + Allegato 1 Allegato 2 Allegato 3 Allegato 4	11/12/2024	Valid	Cross-border shuttle service from Italy to Ventimiglia station
ESC-IT-29- RFI_B3_L1LS_NAZIONALE_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 I + Allegato 1 Allegato 2 Allegato 3 Allegato 4	11/12/2024	Valid	
ESC-IT-30- RFI_B3_L1RI_NAZIONALE_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 I + Allegato 1 Allegato 2 Allegato 3 Allegato 4	11/12/2024	Valid	
ESC-IT-31- RFI_2.0_L1_Cs_ISDOT_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 I + Allegato 1 Allegato 2 Allegato 3 Allegato 4	11/12/2024	Valid	Cross-border shuttle service from Italy to Domodossola station
ESC-IT-32- RFI_2.0_L1_Cs_PTLU_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 I + Allegato 1 Allegato 2 Allegato 3 Allegato 4	11/12/2024	Valid	Cross-border shuttle service from Italy to Luino station

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-IT-33- RFI_B3_L2p_PR_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 I + Allegato 1 Allegato 2 Allegato 3 Allegato 4	26/11/2025	Valid	
ESC-IT-34- RFI_B3_L2p_HR_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 I + Allegato 1 Allegato 2 Allegato 3 Allegato 4	26/11/2025	Valid	
ESC-IT-35- RFI_B3_L2p_AF_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 I + Allegato 1 Allegato 2 Allegato 3 Allegato 4	26/11/2025	Valid	
ESC-IT-36- RFI_B3_L2p_MM_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 I + Allegato 1 Allegato 2 Allegato 3 Allegato 4	26/11/2025	Valid	
ESC-LU-01-RFN	Luxembourg / CFL	Section 23.4 in GI_II_STC-VF (e11).pdf	21/03/2024	Valid	ETCS Level 1 mainline network Luxembourg
ESC-LU-02-MSM	Luxembourg / CFL	Section 23.4 in GI_II_STC-VF (e11).pdf	21/03/2024	Valid	Rodange – Mont-Saint-Martin
ESC-LU-03-IG	Luxembourg / CFL	Section 23.4 in GI_II_STC-VF (e11).pdf	21/03/2024	Valid	Border crossing Wasserbillig (ETCS) - Igel (PZB)
ESC-NO-01	Norway / Bane NOR	ERTMS Programme Norwegian ETCS System Compatibility Test Specification ETCS-NO-01.pdf	30/06/2020	Valid	For the Østfoldbanens Østre pilot line B2 L2.

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-NO-02	Norway / Bane NOR	ERTMS PROGRAMME NORWEGIAN ETCS SYSTEM COMPATIBILITY TEST SPECIFICATION FOR ESC-NO-02 ETCS-NO-02.pdf	17/09/2025	Valid	For the B3 L2 Stage 1 and 2 lines.
ESC-PL-01-L1	Poland / PKP PLK	Definicja i zakres testów ESC dla systemu ERTMS/ETCS poziom 1 ESC-PL-01-L1 v1.1	22/06/2021	Valid	L1
ESC-PL-02-L1LS	Poland / PKP PLK	Definicja i zakres testów ESC dla systemu ERTMS/ETCS poziom 1 Limited Supervision ESC-PL-02-L1LS v1.1	22/06/2021	Valid	L1LS
ESC-PL-03-L2	Poland / PKP PLK	Definicja i zakres testów ESC dla systemu ERTMS/ETCS poziom 2 ESC-PL-03-L2 v1.1	22/06/2021	Valid	level 2 used on section E30 Legnica – Węgliniec
ESC-PL-04-L2	Poland / PKP PLK	Definicja i zakres testów ESC dla systemu ERTMS/ETCS poziom 2 ESC-PL-04-L2 v1.1	22/06/2021	Valid	level 2 used on section E30 Legnica – Opole
ESC-PL-05-L2	Poland / PKP PLK	Definicja i zakres testów ESC dla systemu ERTMS/ETCS poziom 2 ESC-PL-05-L2 v1.0	22/06/2021	Valid	line E65, section Warszawa Praga Transit – Prabuty (Prabuty – Susz route)
ESC-PL-06-L2	Poland / PKP PLK / PKM	Definicja i zakres testów ESC dla systemu ERTMS/ETCS poziom 2 ESC-PL-06-L2 v1.0	28/03/2024	Valid	line E65, Prabuty – Gdynia Chylonia PKM line : line 248, Gdańsk Wrzeszcz - Gdańsk Osowa
ESC-RO-01	Romania / CFR	Letter 1/246/20.01.2020 from CFR on definitions of the checks and annexes	20/01/2020	Valid	

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-SI-01	Slovenia/ Slovenske Železnice	ESC_SLO_L1_V3_04_11_25	09/12/2025	Valid	ETCS level 1 Full Supervision
ESC-SK-01-L1	Slovakia/ŽSR	SCENARIOS for ETCS L1		Reserved	
ESC-SK-01-L2	Slovakia/ŽSR	Testy kompatibility ETCS L2 platné v podmienkach ŽSR		Reserved	Žilina (mimo) – Čadca - št. hranica SK/CZ
ESC-ES-111	Spain / ADIF			Reserved	Hitachi – L1 – Lines 050, 052, 054, 056, 060, 068.
ESC-ES-112	Spain / ADIF			Reserved	Hitachi – L2 – Lines 050, 052, 054, 056, 060, 068.
ESC-ES-122	Spain / ADIF			Reserved	Hitachi – L2 – Lines 046, 354.
ESC-ES-132	Spain / ADIF			Reserved	Hitachi – L2 – Lines 984, 896, 130.
ESC-ES-211	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Hitachi (ex-Thales) – L1 – Lines 050, 066, 640.
ESC-ES-221	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Hitachi (ex-Thales) – L1 – Line 050.
ESC-ES-231	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Hitachi (ex-Thales) – L1 – Lines 080, 072, 076, 982.
ESC-ES-232	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Hitachi (ex-Thales) – L2 – Line 080, 072.
ESC-ES-241	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.2_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Hitachi (ex-Thales) – L1 – Line 082.

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-ES-251	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.2_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Hitachi (ex-Thales) – L1 – Lines 920, 500, 300.
ESC-ES-262	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Hitachi (ex-Thales) – L2 – Lines 822, 890, 892, 982, 190.
ESC-ES-271	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Hitachi (ex-Thales) – L1 – Lines 040, 010.
ESC-ES-281	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Hitachi (ex-Thales) – L1 – Lines 400, 406.
ESC-ES-292	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Hitachi (ex-Thales) – L2 – Lines 080, 076.
ESC-ES-311	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Siemens – L1 – Lines 030, 032, 014, 036.
ESC-ES-312	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Siemens – L2 – Lines 030, 032, 014, 036.
ESC-ES-321	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Siemens – L1 – Lines 024, 040, 042, 308, 338.

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-ES-332	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Siemens – L2 – Line 036.
ESC-ES-341	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Siemens – L1 – Lines 082, 800, 818, 822, 824, 826, 830, 842.
ESC-ES-351	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Siemens – L1 – Lines 102, 104.
ESC-ES-381	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Siemens – L1 – Lines 400, 422, 444, 456.
ESC-ES-412	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Alstom – L2 – Line 042, 046, 048.
ESC-ES-422	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Alstom – L2 – Lines 080, 084, 158, 170, 180, 186.
ESC-ES-432	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Alstom – L2 – Lines 080, 136.
ESC-ES-441	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Alstom – L1 – Lines 818, 824, 828, 850.



ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-ES-442	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	Alstom – L2 – Lines 200, 220, 240, 250, 270, 276.
ESC-ES-511	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	CAF – L1 – Line 640.
ESC-ES-521	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	CAF – L1 – Line 600, 632.
ESC-ES-541	Spain / ADIF	Adif_Adifav_esc_v3.3.pdf Adif_adifav_esc_v3.3_annexes.xlsx adif esc checks DS v2.3.zip suppliers esc cheks v2.3.zip	18/07/2025	Valid	CAF – L1 – Line 824, 848, 850.
ESC-SE-01-HiL2	Sweden / Trafikverket	TRV2019_131529 Checks required to demonstrate technical compatibility for Trafikverket ERTMS network, and classification of types in RINF - October 2023  ERTMS19-0593 SE Trackside – Generic OBU Compatibility v3.0  Appendix A to ERTMS19-0593 Test record TBD OBU VS. TBD TRACKSIDE according to Swedish trackside – Generic OBU compatibility test specification v5.0	12/06/2023	Valid	ETCS trackside version V4.3U  Test cases BL2

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-SE-03-L3	Sweden / Trafikverket	TRV2019_131529 Checks required to demonstrate technical compatibility for Trafikverket ERTMS network, and classification of types in RINF - October 2023  ERTMS19-0593 SE Trackside – Generic OBU Compatibility v3.0  Appendix A to ERTMS19-0593 Test record TBD OBU VS. TBD TRACKSIDE according to Swedish trackside – Generic OBU compatibility test specification v5.0	12/06/2023	Valid	ETCS trackside version Regional SR7.1
ESC-SE-04-HiL2B3	Sweden / Trafikverket	TRV2019_131529 Checks required to demonstrate technical compatibility for Trafikverket ERTMS network, and classification of types in RINF - October 2023  ERTMS19-0593 SE Trackside – Generic OBU Compatibility v3.0  Appendix A to ERTMS19-0593 Test record TBD OBU VS. TBD TRACKSIDE according to Swedish trackside – Generic OBU compatibility test specification v5.0	12/06/2023	Valid	ETCS trackside version V5.2.1  Test cases FP5.2.1+

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-SE-05-BoL2B3	Sweden / Trafikverket	TRV2019_131529 Checks required to demonstrate technical compatibility for Trafikverket ERTMS network, and classification of types in RINF - October 2023  ERTMS19-0593 SE Trackside – Generic OBU Compatibility v3.0  Appendix A to ERTMS19-0593 Test record TBD OBU VS. TBD TRACKSIDE according to Swedish trackside – Generic OBU compatibility test specification v5.0	16/06/2023	Valid	ETCS trackside version SR8.2U v14.3  Test cases FP5.2.1
ESC-SE-06	Sweden / Trafikverket			Reserved	
ESC-SE-07	Sweden / Trafikverket	TRV2019_131529 Checks required to demonstrate technical compatibility for Trafikverket ERTMS network, and classification of types in RINF - October 2023  ERTMS19-0593 SE Trackside – Generic OBU Compatibility v3.0  Appendix A to ERTMS19-0593 Test record TBD OBU VS. TBD TRACKSIDE according to Swedish trackside – Generic OBU compatibility test specification v5.0	12/06/2023	Valid	ETCS trackside version SR8.4.0 v15.0  Test cases FP5.4
ESC-SE-08	Sweden / Trafikverket			Reserved	

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-SE-09	Sweden / Trafikverket			Reserved	
ESC-CH-01-L1LS	Switzerland / SBB	Sections §9.3.1, §9.3.2.1 and §9.3.2.2 of 20_SF_ETCS_CH_RAMSiNa_Konzept_V3.1	26/07/2022	Valid <sup>1</sup>	Exceptional cases for BL3 and higher vehicles which e.g. only run on border operating routes/lines.
ESC-CH-02-L2	Switzerland / SBB	Sections §9.3.1, §9.3.2.1 and §9.3.2.2 of 20_SF_ETCS_CH_RAMSiNa_Konzept_V3.1	26/07/2022	Valid <sup>11</sup>	For BL2 vehicles
ESC-CH-03-L1LSL2	Switzerland / SBB	Sections §9.3.1, §9.3.2.1 and §9.3.2.2 of 20_SF_ETCS_CH_RAMSiNa_Konzept_V3.1	26/07/2022	Valid <sup>11</sup>	Nominal case for BL3 and higher equipped vehicles
ESC-NL-01	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	Class B track Betuweroute connections (Meteren / Elst)
ESC-NL-02	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	Class B track Betuweroute connections (Zevenaar)
ESC-NL-03	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	Class B track Hanzelijn connections
ESC-NL-05	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	Class B track HSL-South connections
ESC-NL-06	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	Class B track Amsterdam-Utrecht connections

<sup>1</sup> Disclaimer: As the description and content of the test protocols have not been communicated to the Agency for all ESC checks, the status of the ESC types as "valid" only applies for the checks that do not export any constraint to a TSI compliant ETCS on-board.

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ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-NL-10	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	ERTMS track Havenspoorlijn – Kijfhoek
ESC-NL-11	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	ERTMS track Havenspoorlijn – Kijfhoek transition from/to ATB
ESC-NL-12	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	ERTMS track Kijfhoek – BetuweRoute transition Level 1 from/to Level 2
ESC-NL-13	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	ERTMS track BetuweRoute – Zevenaar Oost
ESC-NL-14	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	ERTMS track BetuweRoute – Zevenaar Oost transition Meteren and Elst
ESC-NL-15	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	ERTMS track BetuweRoute – Zevenaar Oost transition Zevenaar
ESC-NL-16	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	ERTMS track Zevenaar Oost – border Germany
ESC-NL-17	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	ERTMS track Hanzelijn
ESC-NL-18	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	ERTMS track Hanzelijn transitions Level 2
ESC-NL-19	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	ERTMS track HSL-South

ESC type Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-NL-20	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	ERTMS track HSL-South transitions
ESC-NL-21	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	ERTMS track HSL-South border Belgium
ESC-NL-22	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	ERTMS track Amsterdam – Utrecht
ESC-NL-23	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	ERTMS track Amsterdam – Utrecht transitions Level 2
ESC-NL-24	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	Class B track border Germany - specific border crossings
ESC-NL-25	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	Class B track border Germany - Venlo
ESC-NL-26	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	Class B track border Germany - Landgraaf
ESC-NL-27	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	Class B track border Belgium - Roosendaal
ESC-NL-28	The Netherlands / ProRail	RLN00445 V004	01/01/2025	Valid	ERTMS track NCBG border Belgium - Weert
ESC-UK-xx	United Kingdom / Network Rail	Refer to Network Rail webpage.  <a href="https://www.networkrail.co.uk/industry-and-commercial/etcs-and-radio-system-compatibility/">https://www.networkrail.co.uk/industry-and-commercial/etcs-and-radio-system-compatibility/</a>	31/07/2024	For information	



## 6. RSC voice types table

The following table includes the defined identifiers for RSC Voice types.

RSC type Identifier	Member State	Document	Date of latest update	Status	Notes
Not applicable	All Union	When Radio is not installed or not authorised.	16/01/2020	Valid	Only to be used in ERATV
Not defined	All Union	No RSC submitted	16/01/2020	Valid	Only to be used in RINF
RSC-NP-CCS7.4a	Each Member State of the Union	Technical compatibility demonstrated according to CCS TSI Section 7.a5 or National Procedure. Reference to the National Procedure to be recorded as non-coded restriction.	16/01/2020	Valid	Only to be used in ERATV



RSC type Identifier	Member State	Document	Date of latest update	Status	Notes
RSC-EU-0	<ul style="list-style-type: none"> <li>- <i>Italy / RFI</i></li> <li>- <i>Norway/Bane NOR</i></li> <li>- <i>The Netherlands / ProRail</i></li> <li>- <i>Slovakia / ŽSR</i></li> <li>- <i>Poland / PKP PLK / PKM</i></li> <li>- <i>Greece / OSE net</i></li> <li>- <i>Denmark / Banedanmark</i></li> <li>- <i>Bulgaria / NRIC</i></li> <li>- <i>Germany / DB Infra Go</i></li> </ul> <p>The value for Czech Republic / SŽDC is still reserved.</p>	No RSC needed to be performed to demonstrate technical compatibility. Subsystem certificates are sufficient.	26/11/2024	Valid	The value for Czech Republic / SŽDC is still reserved.
RSC-AT-01-V	Austria/ ÖBB Infrastruktur AG	RSC-AT Funk System Kompatibilität (Radio System Compatibility) V1.0	29/01/2021	Valid	

RSC type Identifier	Member State	Document	Date of latest update	Status	Notes
RSC-BE-01-V	Belgium / Infrabel	Cab Radio Technical Compatibility Checks (RCOM-TS-INT-00373) V2.0	08/02/2021	Valid	
RSC-FR-01-V	France / SNCF Réseau/LISEA	SNCF Réseau document: Demonstration of RSC compatibility on SNCF network v5.0 LISEA document: INS-LIDOP-R2801-A1	13/06/2023	Valid	RSC type is applicable for SNCF Réseau and LISEA lines
RSC-LU-01-V	Luxembourg/CF L	CFL RSC 2020 version ERA v1.2 (s)	31/05/2021	Valid	
RSC-PL-01-V	Poland / PKP PLK	05.2025 Testy_RSC_PKP_PLK_Poland_v2.2	08/05/2025	Valid	
RSC-PT-02-V	Portugal / IP	GR.IT.TEL.003_V02	29/10/2025	Valid	
RSC-RO-01-V	Romania / CFR	Letter 1/246/20.01.2020 from CFR on definitions of the checks and annexes	20/01/2020	Valid	
RSC-ES-03-V	Spain / ADIF	RSC – ADIF_v8.0	06/11/2025	Valid	Migration to type RSC-ES-05-V in progress
RSC-ES-04-V	Spain / ADIF	RSC – ADIF_v8.0	06/11/2025	Valid	Includes the line Figueras-Perpignan
RSC-ES-05-V	Spain / ADIF	RSC – ADIF_v8.0	06/11/2025	Valid	
RSC-SE-01-V	Sweden / Trafikverket	TRV2019_131529 Checks required to demonstrate technical compatibility for Trafikverket ERTMS network, and classification of types in RINF	07/05/2020	Valid	
RSC-CH-01-V	Switzerland / SBB	Section §9.3.2.3 of 20_SF_ETCS_CH_RAMSiNa_Konzept_V3.1	26/07/2022	Valid	Relevant for lines equipped with ETCS L1 LS or ETCS L2. Tests already executed at IC level do not need to be repeated
RSC-UK-xx-V	United Kingdom / Network Rail	Refer to Network Rail webpage  <a href="https://www.networkrail.co.uk/industry-and-commercial/etcs-and-radio-system-compatibility/">https://www.networkrail.co.uk/industry-and-commercial/etcs-and-radio-system-compatibility/</a>	31/07/2024	For information	

## 7. RSC data types table

The following table includes the defined identifiers for RSC Data types.

Some IM require that ESC checks are done with operational radio that implicitly checks RSC for ETCS data. They are indicated with (\*). Please refer to the definition in each ESC type.

RSC type Identifier	Member State	Document	Date of latest update	Status	Notes
Not applicable	All Union	When Radio is not installed or not authorised.	16/01/2020	Valid	Only to be used in ERATV
Not defined	All Union	No RSC submitted	16/01/2020	Valid	Only to be used in RINF
RSC-NP-CCS7.4a	Each Member State of the Union	Technical compatibility demonstrated according to CCS TSI Section 7.5 or National Procedure. Reference to the National Procedure to be recorded as non-coded restriction.	16/01/2020	Valid	Only to be used in ERATV

RSC type Identifier	Member State	Document	Date of latest update	Status	Notes
RSC-EU-0	<ul style="list-style-type: none"> <li>- <i>Italy / RFI</i></li> <li>- <i>Norway / Bane NOR</i></li> <li>- <i>The Netherlands / ProRail</i></li> <li>- <i>Slovakia / ŽSR</i></li> <li>- <i>Belgium/ Infrabel</i></li> <li>- <i>Germany/ DB Netz</i></li> <li>- <i>Greece / OSE net</i></li> <li>- <i>Denmark/B anedanmark</i></li> <li>- <i>Poland / PKM</i></li> <li>- <i>Bulgaria / NRIC</i></li> </ul> <p>The values for Czech Republic / SŽDC and Romania / CFR are still reserved.</p>	No RSC needed to be performed to demonstrate technical compatibility. Subsystem certificates are sufficient.	26/11/2024	Valid	The values for Czech Republic / SŽDC and Romania / CFR are still reserved.
RSC-AT-01-D	Austria/ ÖBB Infrastruktur AG	RSC-AT Funk System Kompatibilität (Radio System Compatibility) V1.0	29/01/2021	Valid	

RSC type Identifier	Member State	Document	Date of latest update	Status	Notes
RSC-FR-01-D	France / SNCF Réseau/LISEA	SNCF Réseau document: Demonstration of RSC compatibility on SNCF network v5.0 LISEA document: INS-LIDOP-R2801-A1	13/06/2023	Valid	RSC type is applicable for SNCF Réseau and LISEA lines
RSC-PL-01-D	Poland / PKP	Scenariusze testowe kompatybilności systemu radiowego GSM-R w części radiowa wymiana danych dla potrzeb ETCS 2 v2.1	21/10/2021	Valid	
RSC-ES-03.GENERAL-D	Spain / ADIF	RSC – ADIF_v8.0	06/11/2025	Valid	Migration to type RSC-ES-05.GENERAL-D in progress.
RSC-ES-03.SPECIFIC-D	Spain / ADIF	RSC – ADIF_v8.0	06/11/2025	Valid	Migration to type RSC-ES-05.GENERAL-D in progress.
RSC-ES-04.GENERAL-D	Spain / ADIF	RSC – ADIF_v8.0	06/11/2025	Valid	
RSC-ES-05.GENERAL-D	Spain / ADIF	RSC – ADIF_v8.0	06/11/2025	Valid	
RSC-SE-01-D	Sweden / Trafikverket	TRV2019_131529 Checks required to demonstrate technical compatibility for Trafikverket ERTMS network, and classification of types in RINF	07/05/2020	Valid	
RSC-CH-01-D	Switzerland / SBB	Section §9.3.2.4 of 20_SF_ETCS_CH_RAMSiNa_Konzept_V3.1	26/07/2022	Valid	Due to the end-to-end specifications between end devices and ERTMS network in SUBSET-093, test results (O-2475) cannot be assigned to the end device alone. The execution, not the test results in detail, is to be considered for the RSC type to be considered as “Passed”. Tests already executed at IC level do not need to be repeated.

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## 8. Appendix A – Cancelled types

For memory reasons, the following table contains all types that have been cancelled.

ESC/RSC V/RSC D	Type identifier	Member State	Notes
ESC	ESC-IT-01-RFI- 1.0_L2_AVp_RMNA_01	Italy / RFI	-
ESC	ESC-IT-02-RFI- 1.0_L2_AVp_MIBO_01	Italy / RFI	-
ESC	ESC-IT-03-RFI- 1.0_L2_AVp_BOFI_01	Italy / RFI	-
ESC	ESC-IT-04-RFI- 1.0_L2_AVp_TOMI_01	Italy / RFI	-
ESC	ESC-IT-05-RFI- 1.0_L2_AVp_TRBR_01	Italy / RFI	-
ESC	ESC-IT-07-RFI- 2.0_L1_Cs_ISDO_01	Italy / RFI	Replaced by: ESC-IT-12-RFI_2.0_L1_Cs_ISDO_CH_01 and ESC-IT-31-RFI-2.0_L1_Cs_ISDO_IT_01
ESC	ESC-IT-08-RFI- 2.1_L1_Cs_DONO_01	Italy / RFI	Replaced by: ESC-IT-30-RFI_B3_L1RI_NAZIONALE_01
ESC	ESC-IT-10-RFI- 2.1_L2_Cs_NOPD_01	Italy / RFI	Replaced by: ESC-IT-26-RFI_B3_L2s_HR_01
ESC	ESC-IT-11-RFI- 2.0_L1_Cs_PTLU_01	Italy / RFI	Replaced by: ESC-IT-13-RFI_2.0_L1_Cs_PTLU_CH_01 and ESC-IT-32-RFI-2.0_L1_Cs_PTLU_IT_01
ESC	ESC-IT-14- RFI_2.1_L1_Cs_VENTIMIGLIA_01	Italy / RFI	Replaced by: ESC-IT-15- RFI_2.1_L1_Cs_VENTIMIGLIA_FR_01 and ESC-IT-28- RFI_2.1_L1_Cs_VENTIMIGLIA_IT_01
ESC	ESC-IT-16- RFI_2.1_L1_Cs_VIVO_01	Italy / RFI	Replaced by: ESC-IT-30- RFI_B3_L1RI_NAZIONALE_01
ESC	ESC-IT-17- RFI_2.1_L2_Cs_MIMOCH_01	Italy / RFI	Replaced by: ESC-IT-27-RFI_B3_L2s_AF_01
ESC	ESC-IT-18- RFI_2.1_L2_Cs_NOPD_02	Italy / RFI	Replaced by: ESC-IT-26- RFI_B3_L2s_HR_01
ESC	ESC-IT-19- RFI_1.0_L2_AVp_AGGR01_01	Italy / RFI	
ESC	ESC-IT-20- RFI_1.0_L2_AVp_AGGR02_01	Italy / RFI	
ESC	ESC-IT-21- RFI_2.0_L1_Cs_AGGR03_01	Italy / RFI	
ESC	ESC-IT-22- RFI_1.0_L1_Cs_AGGR04_01	Italy / RFI	
ESC	ESC-IT-23- RFI_2.1_L1_Cs_AGGR05_01	Italy / RFI	

ESC/RSC V/RSC D	Type identifier	Member State	Notes
ESC	ESC-SE-02-Bol2	Sweden / Trafikverket	ETCS trackside version SR7.3 is no longer in service and will not be commissioned or used further in Trafikverket infrastructure.
ESC	ESC-NL-04	The Netherlands / ProRail	Cancelled on the update to RLN00445 v004.
ESC	ESC-NL-07	The Netherlands / ProRail	Cancelled on the update to RLN00445 v004.
ESC	ESC-NL-08	The Netherlands / ProRail	Cancelled on the update to RLN00445 v004.
ESC	ESC-NL-09	The Netherlands / ProRail	Cancelled on the update to RLN00445 v004.
RSC V	RSC-ES-01-V	Spain / ADIF	Replaced by RSC-ES-03 & RSC-ES-04
RSC V	RSC-ES-02-V	Spain / ADIF	Replaced by RSC-ES-03 & RSC-ES-04
RSC V	RSC-DE-01-V	Germany/ DB Netz	Cancelled. No RSC required, replaced with RSC-EU-0.
RSC V	RSC-PT-01-V	Portugal / IP	Cancelled due to migration to RSC-PT-02-V.
RSC D	RSC-ES-01-D	Spain / ADIF	Replaced by RSC-ES-03 & RSC-ES-04
RSC D	RSC-ES-02-D	Spain / ADIF	Replaced by RSC-ES-03 & RSC-ES-04
RSC D	RSC-ES-03.ALBALI -D	Spain / ADIF	Replaced by RSC-ES-03.GENERAL-D
RSC D	RSC-ES-03.ANTGRA-D	Spain / ADIF	Replaced by RSC-ES-03.GENERAL-D
RSC D	RSC-ES-03.CHATO-D	Spain / ADIF	Replaced by RSC-ES-03.GENERAL-D
RSC D	RSC-ES-03.BAFI-D	Spain / ADIF	Replaced by RSC-ES-03.GENERAL-D
RSC D	RSC-ES-03.CORMAL-D	Spain / ADIF	Replaced by RSC-ES-03.SPECIFIC-D
RSC D	RSC-ES-03.SAGTOL-D	Spain / ADIF	Replaced by RSC-ES-03.GENERAL-D
RSC D	RSC-ES-03.MADBCN-D	Spain / ADIF	Replaced by RSC-ES-03. SPECIFIC -D
RSC D	RSC-ES-03.MADVLL-D	Spain / ADIF	Replaced by RSC-ES-03. SPECIFIC -D
RSC D	RSC-ES-03.MONMUR-D	Spain / ADIF	Replaced by RSC-ES-03.GENERAL-D
RSC D	RSC-ES-03.MOTVLCALB-D	Spain / ADIF	Replaced by RSC-ES-03.GENERAL-D
RSC D	RSC-ES-03.OLMPED-D	Spain / ADIF	Replaced by RSC-ES-03.GENERAL-D
RSC D	RSC-ES-03.TORMOT-D	Spain / ADIF	Replaced by RSC-ES-03.GENERAL-D
RSC D	RSC-ES-03.VALLEOBUR-D	Spain / ADIF	Replaced by RSC-ES-03.GENERAL-D
RSC D	RSC-ES-03.VILTAR-D	Spain / ADIF	Replaced by RSC-ES-03.GENERAL-D
RSC D	RSC-ES-04.LAXAVA-D	Spain / ADIF	Replaced by RSC-ES-04.GENERAL-D
RSC D	RSC-ES-04.ORESAN-D	Spain / ADIF	Replaced by RSC-ES-04.GENERAL-D
RSC D	RSC-ES-04.ARAVIL-D	Spain / ADIF	Replaced by RSC-ES-04.GENERAL-D
RSC D	RSC-ES-05.LEOPOL-D	Spain / ADIF	Replaced by RSC-ES-05.GENERAL-D
RSC D	RSC-ES-05.PEDORE-D	Spain / ADIF	Replaced by RSC-ES-05.GENERAL-D
RSC D	RSC-ES-05.PLACACBAD-D	Spain / ADIF	Replaced by RSC-ES-05.GENERAL-D
RSC D	RSC-ES-05.HOSMAT-D	Spain / ADIF	Replaced by RSC-ES-05.GENERAL-D