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## 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
4.0	29/05/2020	Updated values for ESC/RSC SE. Reserved values for RSC UK, RSC IT.
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
9.0	26/02/2021	Update of ESC & RSC voice BE Infrabel Update of ESC DK Banedanmark

		General clarification of the status values “valid” and “reserved” and reorganisation of the RSC-EU-0 values to have a clear separation between the “valid” ones and the “reserved” ones.
10.0	30/03/2021	Update of ESC AT OEBS Infra

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## 1. Introduction

This is a technical document prepared by the European Union Agency for Railways with the sets of checks for “ESC/RSC types” based on information received from Infrastructure Managers in accordance with the provisions 6.1.2.3 and 6.1.2.4 of Annex A 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

### 2.2. References

[1] – Commission Regulation (EU) 2016/919 of 27 May 2016 on the technical specification for interoperability relating to control-command and signalling subsystems of the rail system in the European Union<sup>1</sup> and its amendments<sup>2</sup>.

## 3. ESC/RSC checks

### 3.1. Use of this document

Infrastructure Managers, with the support of the ETCS and/or GSM-R suppliers for their networks, shall submit to the Agency the definition of the necessary checks (as defined in CCS TSI [1] section 4.2.17) on their network by 16 January 2020 at the latest.

For submitting the ESC-RSC, please send it to us by e-mail: [esc-rsc@era.europa.eu](mailto:esc-rsc@era.europa.eu).

After an IM notifies ERA of an ESC/RSC Type, the Agency should make sure that the information received is correct and complete, in which case the Agency will assign a unique identifier to each ESC/RSC type which will be communicated to the Infrastructure Manager. The Agency will provide an interim updated version of the technical document containing all the ESC/RSC checks submitted up to that moment (pending further revision) notifying the IM within 5 Agency’s working days. These values will be in status “reserved” until the complete revision by the Agency.

Only the ESC/RSC identifiers with “valid” status shall be considered as “published” to fulfil the CCS TSI requirements (e.g. Table 6.3 and Table 7.1).

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<sup>1</sup> OJ L158, 15.6.2016, p.1.

<sup>2</sup> At the time of publishing this document, the latest amendment is Commission Implementing Regulation (EU) 2020/387 of 10 March 2020 (OJ L73, 10.3.2020, p. 6.)

The format of the identifiers will be:

<ESC or RSC>-<Member State code or EU for more than one Member States codes>-<00 two digits sequential numbering>-<In case of RSC V for voice and/or D for data>-<Specific coding provided by the IM>. As example: ESC-FR-01-AA.

The Agency will proceed to publish regularly updates of the document at the Agency website and to inform the relevant working parties, to allow the sector (especially the VA applicants) to plan their activities accordingly. The new version published will include all the ESC/RSC Types notified and checked by ERA until the publication date.

The corresponding identifiers will be also included in the predefined list of values to be selected in RINF and ERATV. The IM will be informed when this is available

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 in the technical document.

Infrastructure Managers shall submit to the Agency any changes on the referred checks 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.

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: <https://www.era.europa.eu/content/etcs-system-compatibility-esc-documents>
- Radio System Compatibility: <https://www.era.europa.eu/content/radio-system-compatibility-rsc-voice-and-data-documents>

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## 4. ESC checks table

The following table includes the defined identifiers for ESC.

Status indicates if the identifier is “reserved”, “valid” or it has been “canceled” by the IM.

Reserved values that the ESC identifier has been assigned but the content of the ESC is still under revision.

Only the ESC identifier with “valid” status shall be considered as “published” to fulfil the CCS TSI requirements (e.g. Table 6.3 and Table 7.1).

ESC 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 7.4a 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	<i>None</i>	No ESC needed to be performed to demonstrate technical compatibility. Subsystem certificates are sufficient.	16/01/2020	Valid	
ESC-AT-01	Austria/OEBB	50.02.05 Leitfaden Betriebsführung ETCS v4b Anhang 1 zum Leitfaden Betriebsführung ETCS LF 50.02.05 (v02) Anhang 2 zum Leitfaden Betriebsführung ETCS LF 50.02.05 (v02)	01/03/2021	Valid	
ESC-BE-01-L1FS	Belgium / Infrabel	PSI (TC,ETCSsys,z) ESC TST PLN 1.4E PSI (TC,ETCSsys.L1FS,z) ESC TST DSC 1.1 E PSI (TC,ETCSsys,z) ESC TST DSC 1.1 E	11/02/2021	Valid	ETCS level 1 Full Supervision

ESC Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-BE-02-L2FS	Belgium / Infrabel	PSI (TC,ETCSsys,z) ESC TST PLN 1.4 E PSI (TC,ETCSsys.L2,z) ESC TST DSC 1.1E PSI (TC,ETCSsys,z) ESC TST DSC 1.1 E	31/08/2020	Valid	ETCS level 2 Full Supervision conventional network
ESC-BE-03-L1LS	Belgium / Infrabel	PSI (TCETCSsysz) ESC TST PLN 1.4 E PSI (TP,ETCSsys.L1LS,z) ESC TST DSC 1.2E PSI (TC,ETCSsys,z) ESC TST DSC 1.1 E	31/08/2020	Valid	ETCS level 1 Limited Supervision
ESC-BE-04-LGV3_4	Belgium / Infrabel	PSI (TC,ETCSsys,z) ESC TST PLN 1.4 E PSI (TC,ETCSsys.L2HSL,z) ESC TST DSC 1.1 E PSI (TC,ETCSsys,z) ESC TST DSC 1.1 E	11/02/2021	Valid	High speed lines
ESC-CZ-01	Czech Republic / SŽDC	Dopis ESC2_AJ SŽDC PPD-2-2018_20180901_Eng_final		Reserved	Kolín – Česká Třebová – Břeclav – state border CZ/AT and CZ/SK
ESC-DK-01-East	Denmark / Banedanmark	ETCS System Compatibility Process ( SPOP-1442693290) v3.0 ESC - ERTMS L2 - Generic Operational Test Cases Data Sheets (SP-EMO-P2-002008) V3.2	08/02/2021	Valid	
ESC-DK-02-West	Denmark / Banedanmark	ETCS System Compatibility Process ( SPOP-1442693290) v3.0 ESC - ERTMS L2 - Generic Operational Test Cases Data Sheets (SP-EMO-P2-002008) V3.2	08/02/2021	Valid	
ESC-DE-01	Germany / DB Netz			Reserved	
ESC-FR-01-LB	France / SNCF Réseau / OC'VIA	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Also applicable for CNM line (see document CNM-OCVIA-000001 – C)
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 Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
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-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 Erquellines-Jeumont(B). Only the execution of the transition is part of ESC check

ESC Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
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-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 Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
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	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Also applicable for CNM line (see document CNM-OCVIA-000001 – C)
ESC-FR-23-LB	France / SNCF Réseau / OC'VIA	203T055-RaiC Ed 2.0 Liste ESC	23/06/2020	Valid	Also applicable for CNM line (see document CNM-OCVIA-000001 – C)
ESC-FR-01-LGVEE	France / SNCF Réseau	20-3T017-PEEE liste ESC LGVEE	02/07/2020	Valid	
ESC-FR-02-LGVEE	France / SNCF Réseau	20-3T017-PEEE liste ESC LGVEE	02/07/2020	Valid	
ESC-FR-03-LGVEE	France / SNCF Réseau	20-3T017-PEEE liste ESC LGVEE	02/07/2020	Valid	
ESC-FR-04-LGVEE	France / SNCF Réseau	20-3T017-PEEE liste ESC LGVEE	02/07/2020	Valid	
ESC-FR-05-LGVEE	France / SNCF Réseau	20-3T017-PEEE liste ESC LGVEE	02/07/2020	Valid	
ESC-FR-06-LGVEE	France / SNCF Réseau	20-3T017-PEEE liste ESC LGVEE	02/07/2020	Valid	
ESC-IT-01-RFI-1.0_L2_AVp_R MNA_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 B + Allegato 1 Allegato 2 Allegato 3	03/12/2020	Valid	Roma-Napoli line
ESC-IT-02-RFI-1.0_L2_AVp_MIBO_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 B + Allegato 1 Allegato 2 Allegato 3	03/12/2020	Valid	Milano-Bologna line

ESC Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-IT-03-RFI-1.0_L2_AVp_B OFI_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 B + Allegato 1 Allegato 2 Allegato 3	03/12/2020	Valid	Bologna-Firenze line
ESC-IT-04-RFI-1.0_L2_AVp_T OMI_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 B + Allegato 1 Allegato 2 Allegato 3	03/12/2020	Valid	Torino-Milano line
ESC-IT-05-RFI-1.0_L2_AVp_T RBR_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 B + Allegato 1 Allegato 2 Allegato 3	03/12/2020	Valid	Treviglio-Brescia line
ESC-IT-06-RFI-1.0_L2_AVp_D D_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 B + Allegato 1 Allegato 2 Allegato 3	03/12/2020	Valid	Firenze-Roma "Direttissima (DD)" line
ESC-IT-07-RFI-2.0_L1-Cs_ISD O_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 B + Allegato 1 Allegato 2 Allegato 3	03/12/2020	Valid	Iselle-Domodossola Domodossola 2 line
ESC-IT-08-RFI-2.0_L1-Cs_DO NO_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 B + Allegato 1 Allegato 2 Allegato 3	03/12/2020	Valid	Domodossola-Novara line
ESC-IT-09-RFI-2.0_L1-Cs_CHI ASSO_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 B + Allegato 1 Allegato 2 Allegato 3	03/12/2020	Valid	Transition in the station of Chiasso / Monte Olimpino 1 and Monte Olimpino 2
ESC-IT-10-RFI-2.1_L2-Cs_NO PD_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 B + Allegato 1 Allegato 2 Allegato 3	03/12/2020	Valid	Novara-Padova line
ESC-IT-11-RFI-2.0_L1-Cs_PTL U_01	Italy / RFI	RFI DTCPNE ST AV 03 001 1 B + Allegato 1 Allegato 2 Allegato 3	03/12/2020	Valid	Pino Tronzano-Luino line

ESC Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-NO-01	Norway / Bane NOR <sup>3</sup>	ERTMS Programme Norwegian ETCS System Compatibility Test Specification ERP-00-Q-00054_01E_004.pdf	30/06/2020	Valid	For the Østfoldbanens Østre line.
ESC-PL-01-L1	Poland / PKP PLK	Definicja i zakres testów ESC dla systemu ERTMS/ETCS poziom 1 ECS-PL-L1-01	12/05/2020	Valid	L1
ESC-PL-02-L1LS	Poland / PKP PLK	Definicja i zakres testów ESC dla systemu ERTMS/ETCS poziom 1 Limited Supervision ECS-PL-L1LS-01	12/05/2020	Valid	L1LS
ESC-PL-03-L2	Poland / PKP PLK	Definicja i zakres testów ESC dla systemu ERTMS/ETCS poziom 2 ECS-PL-L2-01	12/05/2020	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 ECS-PL-L2-02	12/05/2020	Valid	level 2 used on section E30 Legnica — Opole
ESC-RO-01	Romania / CFR			Reserved	
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-01	Spain / ADIF			Reserved	
ESC-ES-02	Spain / ADIF			Reserved	
ESC-ES-03	Spain / ADIF			Reserved	
ESC-ES-04	Spain / ADIF			Reserved	
ESC-ES-05	Spain / ADIF			Reserved	
ESC-ES-06	Spain / ADIF			Reserved	
ESC-ES-07	Spain / ADIF			Reserved	
ESC-ES-08	Spain / ADIF			Reserved	
ESC-ES-09	Spain / ADIF			Reserved	
ESC-ES-10	Spain / ADIF			Reserved	

<sup>3</sup> For Information only.

ESC Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-SE-01-HiL2	Sweden / Trafikverket	TRV2019_131529 Checks required to demonstrate technical compatibility for Trafikverket ERTMS network, and classification of types in RINF  ERTMS19-0593 SE Trackside – Generic OBU Compatibility v2.4  Appendix A to ERTMS19-0593 Test record TBD OBU VS. TBD TRACKSIDE according to Swedish trackside – Generic OBU compatibility test specification v2.8	07/05/2020	Valid	
ESC-SE-02-BoL2	Sweden / Trafikverket	TRV2019_131529 Checks required to demonstrate technical compatibility for Trafikverket ERTMS network, and classification of types in RINF  ERTMS19-0593 SE Trackside – Generic OBU Compatibility v2.4  Appendix A to ERTMS19-0593 Test record TBD OBU VS. TBD TRACKSIDE according to Swedish trackside – Generic OBU compatibility test specification v2.8	07/05/2020	Valid	
ESC-SE-03-L3	Sweden / Trafikverket	TRV2019_131529 Checks required to demonstrate technical compatibility for Trafikverket ERTMS network, and classification of types in RINF  ERTMS19-0593 SE Trackside – Generic OBU Compatibility v2.4  Appendix A to ERTMS19-0593 Test record TBD OBU VS. TBD TRACKSIDE according to Swedish trackside – Generic OBU compatibility test specification v2.8	07/05/2020	Valid	

ESC Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-SE-04-HiL2B3	Sweden / Trafikverket	TRV2019_131529 Checks required to demonstrate technical compatibility for Trafikverket ERTMS network, and classification of types in RINF  ERTMS19-0593 SE Trackside – Generic OBU Compatibility v2.4  Appendix A to ERTMS19-0593 Test record TBD OBU VS. TBD TRACKSIDE according to Swedish trackside – Generic OBU compatibility test specification v2.8	07/05/2020	Valid	
ESC-SE-05-BoL2B3	Sweden / Trafikverket	TRV2019_131529 Checks required to demonstrate technical compatibility for Trafikverket ERTMS network, and classification of types in RINF  ERTMS19-0593 SE Trackside – Generic OBU Compatibility v2.4  Appendix A to ERTMS19-0593 Test record TBD OBU VS. TBD TRACKSIDE according to Swedish trackside – Generic OBU compatibility test specification v2.8	07/05/2020	Valid	
ESC-CH-01-L1LS	Switzerland / SBB <sup>4</sup>	13_TEST_Betr_IOP Anhang A Anhang D		Reserved	Exceptional BL3 vehicles cases like vehicles operating only in border sections
ESC-CH-02-L2	Switzerland / SBB <sup>4</sup>	13_TEST_Betr_IOP Anhang A Anhang D		Reserved	For BL2 vehicles, operating either with the Class B or under ETCS L2
ESC-CH-03-L1LSL2	Switzerland / SBB <sup>4</sup>	13_TEST_Betr_IOP Anhang A Anhang D		Reserved	Nominal case for BL3 equipped vehicles

<sup>4</sup> For Information only.

ESC Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-NL-01	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	Class B track Betuweroute connections (Meteren / Elst)
ESC-NL-02	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	Class B track Betuweroute connections (Zevenaar)
ESC-NL-03	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	Class B track Hanzelijn connections
ESC-NL-04	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	Class B track Hanzelijn overlay Level 2
ESC-NL-05	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	Class B track HSL-South connections
ESC-NL-06	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	Class B track Amsterdam-Utrecht connections
ESC-NL-07	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	Class B track Amsterdam-Utrecht overlay Level 2
ESC-NL-08	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	Class B track border Germany
ESC-NL-09	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	Class B track border Belgium
ESC-NL-10	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	ERTMS track Havenspoorlijn – Kijfhoek
ESC-NL-11	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	ERTMS track Havenspoorlijn – Kijfhoek transition from/to ATB
ESC-NL-12	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	ERTMS track Kijfhoek – BetuweRoute transition Level 1 from/to Level 2
ESC-NL-13	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	ERTMS track BetuweRoute – Zevenaar Oost
ESC-NL-14	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	ERTMS track BetuweRoute – Zevenaar Oost transition Meteren and Elst

ESC Identifier	Member State / Infrastructure Manager	Document	Date of latest update	Status	Notes
ESC-NL-15	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	ERTMS track BetuweRoute – Zevenaar Oost transition Zevenaar
ESC-NL-16	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	ERTMS track Zevenaar Oost – border Germany
ESC-NL-17	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	ERTMS track Hanzelijn
ESC-NL-18	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	ERTMS track Hanzelijn transitions Level 2
ESC-NL-19	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	ERTMS track HSL-South
ESC-NL-20	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	ERTMS track HSL-South transitions
ESC-NL-21	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	ERTMS track HSL-South border Belgium
ESC-NL-22	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	ERTMS track Amsterdam – Utrecht
ESC-NL-23	The Netherlands / ProRail	RLN00445 V001	14/05/2020	Valid	ERTMS track Amsterdam – Utrecht transitions Level 2
ESC-UK-01-NR1	United Kingdom / Network Rail <sup>5</sup>	GB ESC Checks Part 2 Cambrian		Reserved	
ESC-UK-02-NR2	United Kingdom / Network Rail <sup>5</sup>	GB ESC Checks Part 3 Watton-at-Stone v1-0		Reserved	
ESC-UK-03-NR3	United Kingdom / Network Rail <sup>5</sup>	GB ESC Checks Part 4 Thameslink		Reserved	
ESC-UK-04-NR4	United Kingdom / Network Rail <sup>5</sup>	GB ESC Checks Part 5 Great Western 0-12		Reserved	
ESC-UK-05-NR5	United Kingdom / Network Rail <sup>5</sup>	GB ESC Checks Part 6 Future Roll Out		Reserved	

<sup>5</sup> For information only

## 5. RSC voice checks table

The following table includes the defined identifiers for RSC voice.

Status indicates if the identifier is reserved, valid or it has been removed by the IM.

Reserved values indicate that the RSC identifier has been assigned but the content of the RSC checks is still under revision.

Only the RSC voice identifier with “valid” status shall be considered as “published” to fulfil the CCS TSI requirements (e.g. Table 6.3 and Table 7.1).

RSC 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 7.4a 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-EU-0	Italy / RFI, Norway/ Bane NOR <sup>6</sup> , The Netherlands / ProRail, Slovakia / ŽSR.  The values for Czech Republic / SŽDC and Germany / DB Netz are still reserved.	No RSC needed to be performed to demonstrate technical compatibility. Subsystem certificates are sufficient.	30/03/2020	Valid  Reserved	The values for Czech Republic / SŽDC and Germany / DB Netz are 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-BE-01-V	Belgium / Infrabel	Cab Radio Technical Compatibility Checks (RCOM-TS-INT-00373) V2.0	08/02/2021	Valid	

<sup>6</sup> For information only.

RSC Identifier	Member State	Document	Date of latest update	Status	Notes
RSC-FR-01-V	France / SNCF Réseau	Demonstration of RSC compatibility on SNCF network v4	08/12/2020	Valid	
RSC-LU-01-V	Luxembourg/ CFL	CFL RSC 2020 version ERA		Reserved	
RSC-PL-01-V	Poland / PKP PLK	Scenariusze testowe kompatybilności systemu radiowego GSM-R w części łączność rozmówna i transmisja danych dla potrzeb ETCS 2 v1.1	11/2020	Valid	
RSC-RO-01-V	Romania / CFR			Reserved	
RSC-ES-01-V	Spain / ADIF			Cancelled	Replaced by RSC-ES-03 & RSC-ES-04
RSC-ES-02-V	Spain / ADIF			Cancelled	Replaced by RSC-ES-03 & RSC-ES-04
RSC-ES-03-V	Spain / ADIF	RSC – ADIF_v3.0	20/07/2020	Valid	
RSC-ES-04-V	Spain / ADIF	RSC – ADIF_v3.0	20/07/2020	Valid	Includes the line Figueras-Perpignan
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 <sup>6</sup>			Reserved	
RSC-UK-01-V	United Kingdom / Network Rail <sup>7</sup>	GB NR RSC Checks v1.0.1		Reserved	

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<sup>7</sup> For information only

## 6. RSC data checks table

The following table includes the defined identifiers for RSC data.

Status indicates if the identifier is reserved, valid or it has been removed by the IM.

Reserved values indicate that the RSC identifier has been assigned but the content of the RSC checks is still under revision.

Only the RSC data identifier with “valid” status shall be considered as “published” to fulfil the CCS TSI requirements (e.g. Table 6.3 and Table 7.1).

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 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 7.4a 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-EU-0	Italy / RFI, Norway / Bane NOR <sup>8</sup> , The Netherlands / ProRail, Poland / PKP PLK*, Slovakia / ŽSR	No RSC needed to be performed to demonstrate technical compatibility. Subsystem certificates are sufficient.	30/03/2020	Valid	The values for Belgium / Infrabel, Czech Republic / SŽDC, Germany / DB Netz and Romania / CFR are still reserved.
	The values for Belgium / Infrabel, Czech Republic / SŽDC, Germany / DB Netz and Romania / CFR are still reserved.			Reserved	

<sup>8</sup> For information only.

RSC Identifier	Member State	Document	Date of latest update	Status	Notes
RSC-AT-01-D	Austria/ ÖBB Infrastruktur AG	RSC-AT Funk System Kompatibilität (Radio System Compatibility) V1.0	29/01/2021	Valid	
RSC-FR-01-D	France / SNCF Réseau	Demonstration of RSC compatibility on SNCF network v4	8/12/2020	Valid	
RSC-ES-01-D	Spain / ADIF			Cancelled	Replaced by RSC-ES-03 & RSC-ES-04
RSC-ES-02-D	Spain / ADIF			Cancelled	Replaced by RSC-ES-03 & RSC-ES-04
RSC-ES-03-D	Spain / ADIF	RSC – ADIF_v3.0	20/07/2020	Valid	
RSC-ES-04-D	Spain / ADIF	RSC – ADIF_v3.0	20/07/2020	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 <sup>7</sup>			Reserved	