



**SLOVENSKI STANDARD**  
**SIST EN 50159:2010/A1:2020**

**01-maj-2020**

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**Železniške naprave - Komunikacijski, signalni in procesni sistemi - Varnostna komunikacija v prenosnih sistemih - Dopolnilo A1**

Railway applications - Communication, signalling and processing systems - Safety-related communication in transmission systems

Bahnanwendungen - Telekommunikationstechnik, Signaltechnik und Datenverarbeitungssysteme - Sicherheitsrelevante Kommunikation in Übertragungssystemen

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Applications ferroviaires - Systèmes de signalisation, de télécommunication et de traitement - Communication de sécurité sur des systèmes de transmission

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**Ta slovenski standard je istoveten z: EN 50159:2010/A1:2020**

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**ICS:**

35.240.60	Uporabniške rešitve IT v prometu	IT applications in transport
45.020	Železniška tehnika na splošno	Railway engineering in general

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EUROPEAN STANDARD

**EN 50159:2010/A1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2020

ICS 35.240.60; 45.020

English Version

**Railway applications - Communication, signalling and processing systems - Safety-related communication in transmission systems**

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This amendment A1 modifies the European Standard EN 50159:2010; it was approved by CENELEC on 2019-07-23. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN 50159:2010/A1:2020 (E)****European foreword**

This document (EN 50159:2010/A1:2020) has been prepared by CLC/SC 9XA "Communication, signalling and processing systems".

The following dates are fixed:

- latest date by which this document (dop) 2020-08-07 has to be implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national (dow) 2020-08-07 standards conflicting with this document have to be withdrawn

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

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For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

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## 1 Replacement of the Annex ZZ

### Annex ZZ (informative)

#### Relationship between this European standard and the essential requirements of EU Directive 2016/797/EU [2016 OJ L138] aimed to be covered

This European Standard has been prepared under a Commission's standardization request relating to harmonized standards in the field of the Interoperability of the rail system within the European Union, M/483, to provide one voluntary means of conforming to essential requirements of Directive 2016/797/EU of the European Parliament and of the Council of 11 May 2016 on the harmonization of the laws of the Member States relating to the interoperability of the rail system within the European Union [2016 OJ L138].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 for "Control-Command and Signalling" confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

**Table ZZ.1 - Correspondence between this European Standard, the CCS TSI (COMMISSION REGULATION (EU) 2016/919 of 27 May 2016) and Directive 2016/797/EU**

Essential Requirements of Directive 2016/797/EU	Chapter / § / points / of CCS TSI	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
1. General Requirements	3.2. Specific Aspects of the Control-Command and Signalling Subsystems	Clause 4 Clause 5	The standard EN 50159:2010 is referenced in the CCS TSI (clause 6.2.3). See Annex A, Table A3.
1.1 Safety	3.2.1. Safety	Clause 6	
1.1.1		Clause 7	
2. Requirements specific to each sub-subsystem	4.2. Functional and technical specifications of the Subsystems		
2.3. Control Command and signalling	4.2.1. Control-Command and Signalling safety characteristics relevant to interoperability		
2.3.1 Safety	4.2.1.1. Safety		
2.3.2 Technical compatibility	6.2. Interoperability constituents		
	6.2.1. Assessment procedures for Control-Command and Signalling Interoperability Constituents		
	6.2.3. Assessment requirements		
	6.3. Control-Command and Signalling Subsystems		

**EN 50159:2010/A1:2020 (E)**

**WARNING 1** — Presumption of conformity stays valid only as long as a reference to this European standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

**WARNING 2** — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

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