



REPUBLIC OF CROATIA
MINISTRY OF MARITIME AFFAIRS, TRANSPORT AND INFRASTRUCTURE

RAILWAY SAFETY AND INTEROPERABILITY Overview of EU legislation

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SINGLE EUROPEAN RAILWAY AREA

- opening of the rail transport market to competition
- developing rail transport infrastructure
- improving the INTEROPERABILITY and SAFETY of national networks

INTEROPERABILITY

= the ability of a rail system to allow the safe and uninterrupted movement of trains which accomplish the required levels of performance for these lines. This ability depends on all the regulatory, technical and operational conditions which must be met in order to satisfy the essential requirements.

Railway Interoperability Directive 2008/57/EC

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Repeal of:

- Directive 96/48/EC on the interoperability of the European high-speed rail system and
- Directive 2001/16/EC on the interoperability of the European conventional rail system

Amended by:

- Commission Directive 2009/131/EC
- Commission Directive 2011/18/EU
- Commission Directive 2013/9/EU
- Commission Directive 2014/38/EU
- Commission Directive 2014/106/EU

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SUBSYSTEMS

STRUCTURAL AREAS:

- infrastructure
- energy
- trackside control-command and signalling
- on-board control-command and signalling
- rolling stock

FUNCTIONAL AREAS:

- operation and traffic management
- maintenance
- telematics applications for passenger and freight services

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INTEROPERABILITY CONSTITUENT

= any elementary component, group of components, subassembly or complete assembly of equipment incorporated or intended to be incorporated into a subsystem, upon which the interoperability of the rail system depends directly or indirectly

- Overhead contact line
- Pantograph, wheels, lamps and horns, contact strips, main circuit breaker ...

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ESSENTIAL REQUIREMENTS

- Safety
- Reliability and availability
- Health
- Environmental protection
- Technical compatibility
- Accessibility

Technical specification for interoperability (TSI)

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INF TSI	Regulation 1299/2014	Commission Regulation (EU) No 1299/2014 on the technical specifications for interoperability relating to the 'infrastructure' subsystem of the rail system in the European Union
ENE TSI	Regulation 1301/2014	Commission Regulation (EU) No 1301/2014 on the technical specifications for interoperability relating to the 'energy' subsystem of the rail system in the Union
PRM TSI	Regulation 1300/2014	Commission Regulation (EU) No 1300/2014 on the technical specifications for interoperability relating to accessibility of the Union's rail system for persons with disabilities and persons with reduced mobility
SRT TSI	Regulation 1303/2014	Commission Regulation (EU) No 1303/2014 concerning the technical specification for interoperability relating to 'safety in railway tunnels' of the rail system of the European Union
LOC&PAS TSI	Regulation 1302/2014	Commission Regulation (EU) No 1302/2014 concerning a technical specification for interoperability relating to the 'rolling stock – locomotives and passenger rolling stock' subsystem of the rail system in the European Union
NOI TSI	Regulation 1304/2014	Commission Regulation (EU) No 1304/2014 on the technical specification for interoperability relating to the subsystem 'rolling stock – noise'
TAF TSI	Regulation 1305/2014	Commission Regulation (EU) No 1305/2014 of 11 December 2014 on the technical specification for interoperability relating to the telematics applications for freight subsystem of the rail system in the European Union

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Interoperability constituents

- as complying with the essential requirements
- „EC“ assessment of conformity or suitability for use - NOTIFIED BODY (certificate)
- „EC“ declaration of conformity or suitability for use

Structural subsystems

- interoperable and meeting the essential requirements
- „EC“ verification of a subsystem - NOTIFIED BODY (certificate)
- „EC“ declaration of verification
- authorisation for placing in service - national safety authority

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Decision 2010/713	Commission Decision of 9 November 2010 on modules for the procedures for assessment of conformity, suitability for use and EC verification to be used in the technical specifications for interoperability
Decision 2007/756/EC	Commission Decision of 9 November 2007 adopting a common specification of the national vehicle register, Amended by 2011/107 and 2012/757
Decision 2011/665/EU	Commission Implementing Decision of 4 October 2011 on the European register of authorised types of railway vehicles
Decision 2014/880/EU	Commission Implementing Decision on the common specifications of the register of railway infrastructure
Recommendation 2014/881/EU	Commission Recommendation on the procedure demonstrating the level of compliance of existing railway lines with the basic parameters of the technical specifications for interoperability
Recommendation 2014/897/EU	Commission Recommendation on matters related to the placing in service and use of structural subsystems and vehicles – DV29bis

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SAFETY

- generally maintained and continuously improved, giving priority to the prevention of serious accidents
- system-based approach
- responsibility for the safe operation of the railway system and the control of risks - infrastructure managers and railway undertakings
- safety management systems

Railway Safety Directive 2004/49/EC

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- applies to railway system (subsystems)
- covers safety requirements on the system as a whole, safe management of infrastructure and of traffic operation, interaction between railway undertakings and infrastructure managers

Amended by:

- Commission Directive 2008/110/EC
- Commission Directive 2009/149/EZ
- Commission Directive 2014/88/EU

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NATIONAL SAFETY AUTHORITY (NSA)

- authorising the placing in service of the structural subsystems
- supervising that the interoperability constituents are in compliance with the essential requirements
- safety certificates and safety authorisations
- the safety regulatory framework
- registration of vehicles in NVR

NATIONAL INVESTIGATING BODY (NIB)

- serious accidents
- other accidents and incidents

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SAFETY CERTIFICATE for railway undertakings

- Part A – evidence for SMS
- Part B – network

SAFETY AUTHORISATION of infrastructure managers

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Regulation 1078/2012	Commission Regulation (EU) No 1078/2012 of 16 November 2012 on a common safety method for monitoring to be applied by railway undertakings, infrastructure managers after receiving a safety certificate or safety authorisation and by entities in charge of maintenance
Decision 2009/460/EC	2009/460/EC: Commission Decision of 5 June 2009 on the adoption of a common safety method for assessment of achievement of safety targets, as referred to in Article 6 of Directive 2004/49/EC of the European Parliament and of the Council
Decision 2010/409/EC	2010/409/EC: Commission Decision of 19 July 2010 on Common Safety Targets as referred to in Article 7 of Directive 2004/49/EC of the European Parliament and of the Council
Decision 2012/226/EU	2012/226/EU: Commission Decision of 23 April 2012 on the second set of common safety targets as regards the rail system

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- common safety targets (CSTs)
- common safety methods (CSMs)
- common safety indicators (CSIs)
- national safety rules (NSR)
- Safety Management Systems (SMS)
- Entity in charge of maintenance (ECM) – for freight wagons certified by NSA

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Regulation 1158/2010	Commission Regulation (EU) No 1158/2010 of 9 December 2010 on a common safety method for assessing conformity with the requirements for obtaining railway safety certificates Text with EEA relevance
Regulation 445/2011	Commission Regulation (EU) No 445/2011 of 10 May 2011 on a system of certification of entities in charge of maintenance for freight wagons and amending Regulation (EC) No 653/2007
Regulation 402/2013	Commission Implementing Regulation (EU) No 402/2013 of 30 April 2013 on the common safety method for risk evaluation and assessment and repealing Regulation (EC) No 352/2009
Regulation 1169/2010	Commission Regulation (EU) No 1169/2010 of 10 December 2010 on a common safety method for assessing conformity with the requirements for obtaining a railway safety authorisation
Regulation 1158/2010	Commission Regulation (EU) No 1158/2010 of 9 December 2010 on a common safety method for assessing conformity with the requirements for obtaining railway safety certificates
Regulation 1077/2012	Commission Regulation (EU) No 1077/2012 of 16 November 2012 on a common safety method for supervision by national safety authorities after issuing a safety certificate or safety authorisation

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Thank you

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