

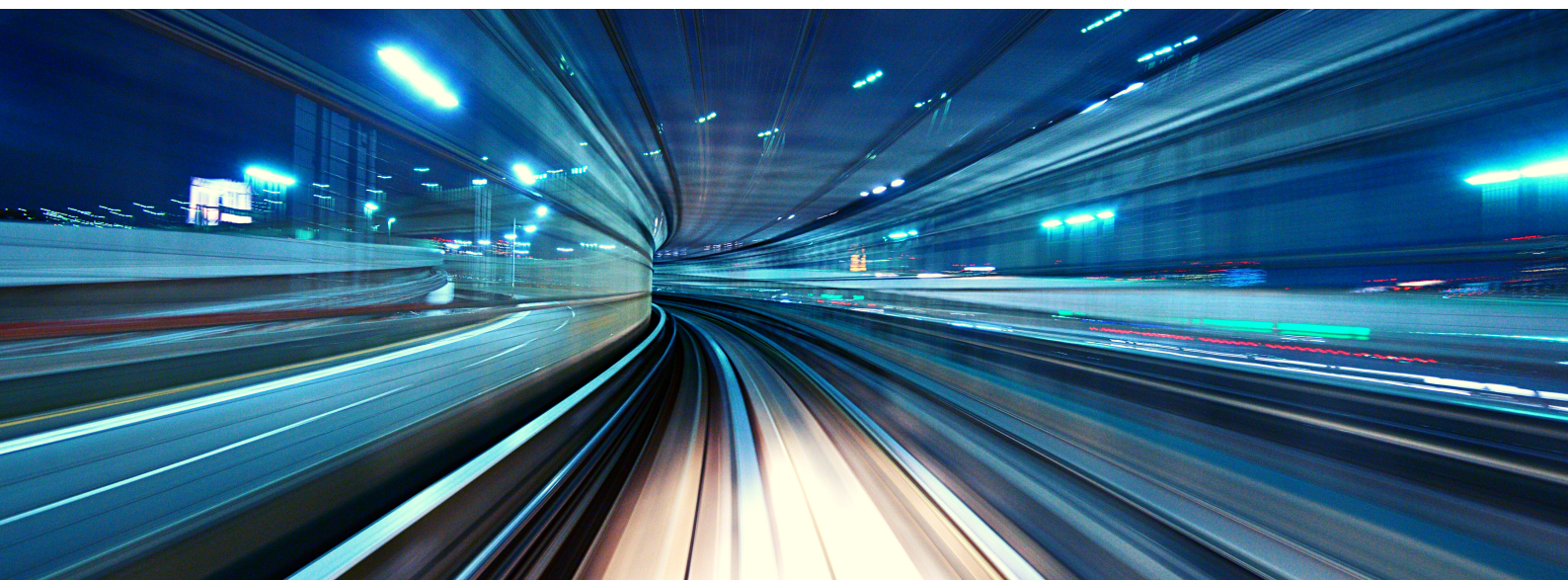
# ERTMS 2022 CONFERENCE



Valenciennes | France

26-28 April 2022

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# ACRONYMES

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3D: 3 Dimensional

4G: Fourth Generation Mobile Network

4RP: Fourth Railway Package

5G: 5th generation (data connection in mobile technology)

5G: 5th generation (data connection in mobile technology)

ADIF: Spanish Rail Infrastructure Manager (Administrador de Infraestructuras Ferroviarias)

AE: Authorising entity

AERRL: Association of European Rail Rolling Stock Lessors

Agency: European Union Agency for Railways (also referred to as ERA)

ALE: Autonomous Train Drivers' Union of Europe

ALLRAIL: Alliance of Rail New Entrants

Asset: Any resource or capability. The term assets include anything that could contribute to the delivery of a service

ATO: Automatic Train Operation

BCA: Baseline Compatibility Analysis

BDK Thales: Bane Denmark Thales

BG: Balise Group

CAB: Conformity Assessment Body

CAF: Spanish train manufacturer (Construcciones y Auxiliar de Ferrocarriles)

CBI: Computer based Interlocking

CCM: Change Control Management

CCS: Control command and Signalling

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CCS-TSI : Control Command and Signalling – Technical Specification for Interoperability

CEO: Chief Executive Officer

CER: Community of European Railway and Infra Companies

CTT: Conformity to Type

DB: Deutsche Bahn

DG MOVE: Directorate-General for Mobility and Transport (European Commission)

DGNSS: Differential Global Navigation Satellite System

DMI: Driver-Machine Interface

DNS: Domain Name System

DSD: Digitale Schiene Deutschland

DSTW: Digital Interlocking

EAL: ERTMS Accredited Laboratories

EC: European Commission

EDOR: ETCS Data Only Radio

EECT: Extended Era Core Team

EGNOS HA: EGNOS High Accuracy

EGNOS: European Geostationary Navigation Overlay Service

EIM: European Rail Infrastructure Managers

ER JU: Europe's Rail Joint Undertaking

ERA: European Union Agency for Railways (until 15 June 2016: European Railway Agency)

ERTMS TA: ERTMS Trackside Approval

ERTMS: European Rail Traffic Management System



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ESC: ETCS System Compatibility

ETCS: European Train Control System

EU: European Union

EUG: ERTMS Users Group

EULYNX: European initiative by 13 Infrastructure Managers to standardize interfaces and elements of the signalling systems

EU-Rail: Europe's Rail Joint Undertaking

FRMCS: Future Railway Mobile Communication System

GALILEO HAS: Galileo High Accuracy Service

GBR: Guaranteed Bit Rate

GNSS: Global Navigation Satellite Systems

GoA: Grade of Automation

GoA2: Grade of Automation 2

GSM-R: Global System for Mobile Communications - Railways

HOP: Harmonisation of Operational Processes

HTTP: Hypertext Transfer Protocol

ID: Identification

ILS: Integrated Logistic Support

IM: Infrastructure Manager

IMU: Inertia Measuring Unit

IOD: Interoperability Directive, (EU) 2016/797 on the interoperability of the rail system within the European Union

IP: Internet Protocol

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IXL: Interlocking

JKV: ATP-VR/RHK

KMC: Key Management Centre

KMS: Key Management System

LEU: Lineside Electronic Unit

LiDAR: Light Detection and Ranging

LTE/5G: Long term Evolution 5th Generation

LTE: Long Term Evolution (radio network)

MA: Movement Authority

MB: Lineside Marker Board

MITMA: Ministry of Transport, Mobility and Urban Agenda

MNO: Mobile Network Operator

MoU: Memorandum of Understanding. A non-contractual understanding/arrangement/relationship

MS: Member State

N(T)R: National (Technical) Rules

Navtec CIR: NAVtec Compact Industrial RADAR

NB RAIL AISBL: Association of Notified Bodies for Directive 2008/57/EC on Railway Interoperability

NoBo: Notified Body

NSA: National Safety Authority

OBU: On-Board Unit

OPE TSI: Operation and traffic management Technical Specification for Interoperability



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OTIF: The Intergovernmental Organisation for International Carriage by Rail (Organisation intergouvernementale pour les Transports Internationaux Ferroviaires)

PAD: Planning and Approvals Delivery Unit

PAVA: Practical Arrangement for Vehicle Authorisation (EU) 2018/545

PCI: Peripheral Component Interconnect

PKI: Public Key Infrastructure

PoE: Pool of Experts. A group of experts meeting the competency requirements, nominated by the NSA or from independent experts, for assisting the Agency in performing its tasks.

RADAR: Radio Detection and Ranging

RBC: Radio Block Centre

RF: Radio Frequency

RFF: French Infrastructure Manager (Réseau Ferré de France)

RfID: Radio-frequency Identification

RINF: Register of Infrastructure

RISC: Railway Interoperability and Safety Committee of the European Commission

RoE: Return of Experience

RSRP: Reference Signal Received Power

RSRQ: Reference Signal Received Quality

RSSI: Received Signal Strength Indicator

RST: Rolling Stock

RTK-GNSS: Real Time Kinematic – Global Navigation Satellite System

RTT: Round-trip time

RU: Railway Undertaking



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S2R – Shift2Rail: previous rail research and innovation Joint Undertaking

SBB: Swiss Federal Railways (Schweizerische Bundesbahnen)

SERA: Single European Railway Area

SIM: Subscriber Identity Module

SINR: Signal to Interference Noise Ratio

SNMP: Communication protocol

TA: Trackside Approval

TCP: Transmission Control Protocol

TEN-T: Trans-European Transport Network

TMS: Traffic Management System

TSI: Technical Specification for Interoperability

TSR: Temporary Speed Restriction

UIC: International Union of Railways (Union Internationale des Chemins de fer)

UIRR: International Union of Combined Road-Rail transport Companies

UNIFE: Association of European Railway Industries

UNISIG: industrial consortium which was created to develop the ERTMS/ETCS technical specifications

UNITEL: a UNIFE committee that focuses on the development and implementation of the future interoperable railway communication system (FRMCS/Next Generation)

VA: Vehicle Authorisation

Virve: Railway and authorities voice communication radio network used in Finland