

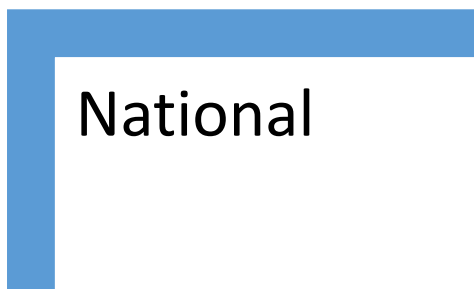
European Standardization Organizations

MMTIS Revision – Overcoming challenges, creating new opportunities

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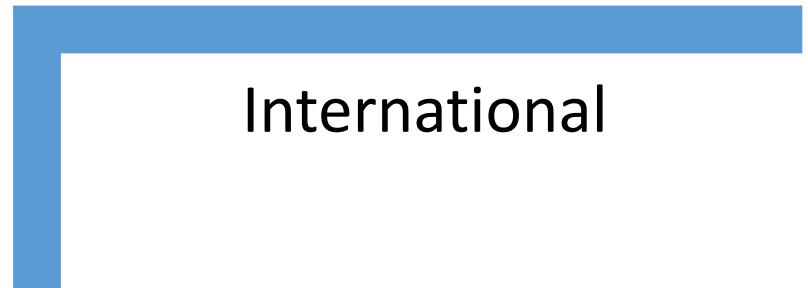
The Standardization Ecosystem



National



European



International

Recognised also in Art. 2 (8) and Annex I of EU Regulation 1025/2012!

Recognised also in Art. 2 (9) of EU Regulation 1025/2012!

Article 2

Definitions

For the purposes of this Regulation, the following definitions shall apply:

(8) ‘European standardisation organisation’ means an organisation listed in Annex I;

ANNEX I

EUROPEAN STANDARDISATION ORGANISATIONS

1. CEN — European Committee for Standardisation
2. Cenelec — European Committee for Electrotechnical Standardisation
3. ETSI — European Telecommunications Standards Institute

(9) ‘international standardisation body’ means the International Organisation for Standardisation (ISO), the International Electrotechnical Commission (IEC) and the International Telecommunication Union (ITU);

European Standard (EN)

1x



=

34x

National standards (XX EN)



Standards supporting **free circulation of goods** in the EU and beyond
(600 million consumers)

CEN		ISO	
WG 1	Electronic fee collection and access control (EFC)	WG 5	Fee and Toll Collection
WG 2	Freight, logistics and Commercial Vehicle Operations	WG 7	Crane operations
WG 3	Public transport (PT)	WG 8	Public transport (PT)
WG 4	Traffic and traveller information (TTI)	WG 10	Traveller information systems
WG 5	Traffic control (TC)	WG 9	Transport Information and Control
WG 6	Parking management	WG 14	Vehicle/roadway warning systems
WG 7	ITS spatial data	WG 3	Database technology
WG 8	Road traffic data (RTD)	WG 16	CALM
WG 9	Dedicated Short Range Communication (DSRC)	WG 17	Nomadic devices
WG 10	Man-machine interfaces (MMI)	ISO/TC 22/SC39/WG8 HMI	
WG 11	Subsystem and intersystem interfaces		
WG 12	Automatic Vehicle Identification and Automatic Equipment Identification (AVI/AEI)	WG 12	Automatic Vehicle Identification and Automatic Equipment Identification (AVI/AEI)
WG 13	Architecture and terminology	WG 13	ITS architecture
WG 14	After theft systems for the recovery of stolen vehicles		
WG 15	eSafety		
WG 16	Cooperative ITS	WG 18	Cooperative ITS
WG 17	Mobility integration	WG 19	Mobility integration

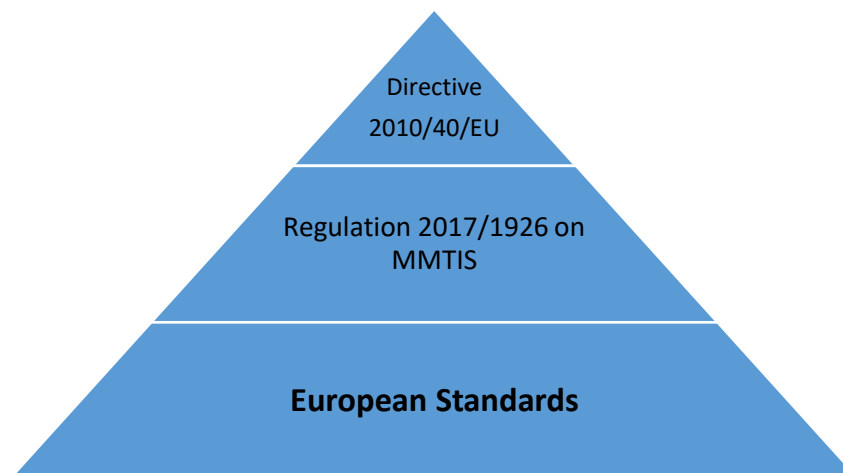
Joint Working Group
Working Group
Dormant / disbanded

- ▶ Working group 3 "Public transport"
- ▶ 35 published documents active



Transmodel, NeTEX, SIRI and DATEX II come directly in support of regulation 1926/2017 MMTIS.

Interoperability with those standards is a legal requirement



Article 4 - Accessibility, exchange and reuse of static travel and traffic data

1. Transport authorities, transport operators, infrastructure managers :

...

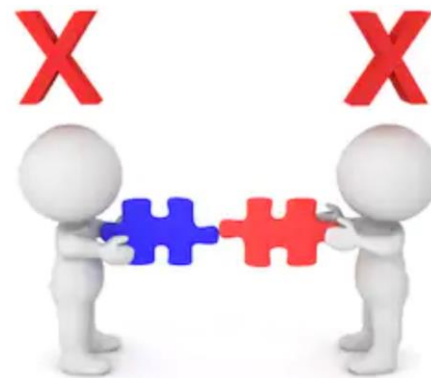
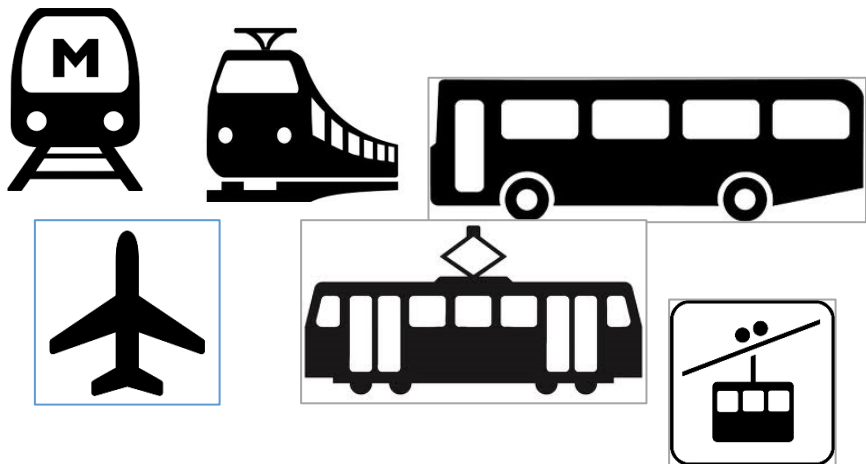
(b) for other transport modes, the use of one of the following standards and technical specifications: **NeTEx CEN/TS 16614** and subsequent versions, technical documents defined in Regulation **(EU) No 454/2011** and subsequent versions, or any machine-readable format fully compatible and interoperable with those standards and technical specifications;

Article 5 - Accessibility, exchange and reuse of dynamic travel and traffic data

1. Where the Member States decide to provide the dynamic travel and traffic data

...

(b) for the other transport modes: **SIRI CEN/TS 15531** and subsequent versions, technical documents defined in Regulation (EU) No 454/2011 or any machine-readable format fully compatible and interoperable with those standards or technical documents.



NeTEx
Network Timetable Exchange

SIRI

UIC: OSDM, Merits
Shift2Rail: IP4

CEN CENELEC created the “ITS Intermodal back office Coordination group”.

Shared Vision agreed on: Support/Ensure interoperability of the railways specific data models with Transmodel.

Main stakeholders involved: CEN/TC278, CLC/TC9x, UIC, UITP, S2R, AllRail, ERA, DG MOVE B4 & C4 - about 40 participants

Timeline

- ▶ June to September 2020: preliminary workshops → creation of two Coordination Group
 1. Back-Office: Fare management, timetable, operation
 2. Onboard communication

Back-office Coordination group

- ▶ 5 meetings from December 2020 to May 2021
- ▶ Participants: CEN/TC278, UIC, UITP, S2R, Entur, ERA, EC
- ▶ Goal: Fare management and timetable
- ▶ Agreed Vision: Support/ensure interoperability of the rail specific data models with Transmodel
- ▶ Structure:
 - ▶ 1 “plenary” coordination group – chair and secretariat
 - ▶ 2 Task Groups: TG1 “fares” and TG2 “timetable”

ITS-Rail Back office coordination groups

- ▶ TG 1 "Fares":
 - ▶ Convenorship: CEN (Emmanuel de Verdalle, WG3 convenor)
 - ▶ First meeting: June 29th AM
 - ▶ Goal: compare OSDM and Transmodel ecosystem (at use-case and conceptual levels)

- ▶ TG 2 "Timetables":
 - ▶ Convenorship: UIC (Fabrice Setta, UIC Distribution Senior Advisor Passenger Department)
 - ▶ First meeting: June 30th AM
 - ▶ Goal: compare Edifact and NeTEx/Siri (at use-case and conceptual levels)

- ▶ Expectation
 - ▶ The revision cycles of both MMTIS and TAP TSI has started (EC target is end 2022) -> key turning point
 - ▶ The Back-office coordination group will provide input to EC by end of 2021 on path forward to ensure further interoperability for timetable and fare data. This feedback will be used in revision of legislation

- ▶ Challenges:
 - ▶ UIC want to keep control over data models used in rail sector to make market entry difficult and maintain influence
 - ▶ Huge Disproportion in financial resources available to CEN compared to UIC

Thank you! Questions?

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