



EU Regulatory and Technical Framework for Multimodal Transport

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Legal expertise for the benefit of the railways

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WHAT IS NEEDED TO FACILITATE A MULTIMODAL JOURNEY?

PASSENGER INFORMATION

Static data: stops, routes, timetables, connections, fares and accessibility

Real-time data: departures, arrivals, delays, cancellations, disruptions and dynamic fares

Standardised data exchange across modes

BOOKING AND TICKETING

Offers, availability and reservations

Interoperable access to sales APIs

Ticket issuance and after-sales processes



Multimodal journeys need interoperable travel data and connected booking and ticketing systems.

CURRENT EU REGULATORY FRAMEWORK

Selected legal instruments for passenger information and ticketing

MULTIMODAL TRAVEL INFORMATION

ITS Directive

Intelligent Transport Systems

Directive 2010/40/EU

amended by (EU) 2023/2661



Arts. 6(1) and 7

MMTIS

Multimodal Travel Information Services

Commission Delegated Regulation
(EU) 2017/1926

amended by (EU) 2024/490

RAIL INFORMATION AND TICKETING

Rail Interoperability Directive

Interoperability of the EU rail system

Directive (EU) 2016/797



Article 5(11)

TEL TSI

Telematics subsystem of the rail system

Commission Implementing Regulation
(EU) 2026/253

**Rail framework relevant to the rail leg
of a multimodal journey**

MMTIS – MULTIMODAL TRAVEL INFORMATION SERVICES

Delegated Regulation
(EU) 2017/1926
amended by (EU) 2024/490



MULTIMODAL TRANSPORT

NATIONAL ACCESS POINT (NAP)

Multimodal travel and traffic data

DATA

Static

Historic

Observed

Dynamic

PASSENGER INFORMATION

Timetables

Fares

Basic commercial and
booking conditions

INTEROPERABILITY

NeTEx (static), SIRI (dynamic)

TEL TSI specifications

IATA / other modal specifications

Other fully compatible and
interoperable formats possible

! OBSERVED DATA

Delays, cancellations and reasons (where possible) support assessment of passenger rights



MMTIS does not provide a complete booking, sales and ticketing framework

TEL TSI AND MULTIMODAL PASSENGER JOURNEYS



Data sharing primarily within rail transport

Links to MMTIS and selected rail data via NAPs (Art. 6)

MULTIMODAL PROVISIONS



Rail data for journeys involving other modes (Annex 2.8)

Journey planning and disruption information (Annex 4.2 / 4.7)

DATA SHARING (ANNEX 4.9)

Reference locations	NeTEx
Timetables, connections and fares	NeTEx + TD B.16
During-journey information	SIRI

A narrower set of standards than MMTIS

FURTHER DEVELOPMENT

Some technical specifications remain open (Appendix B)

European Railway Agency (ERA) working parties support implementation and further development (Art. 22)

By 31 December 2028: ERA recommendation to update specifications and close open points (Art. 23)



Multimodal booking & ticketing: a complete technical framework remains to be developed

NEXT STEPS: FUTURE EUROPEAN STANDARDS FOR TICKETING

TEL TSI UPDATES

Technical evolution

↔ ERA working parties

→  Open points and updates

→  Recommendation by 31 Dec 2028

EUROPEAN STANDARDISATION

EU-initiated work under CEN/CENELEC

EUDIT

European Digital Ticketing Interfaces



API for digital distribution of multimodal tickets
EU-funded CEN project
UIC involvement

MULTIMODAL BARCODE

Interoperable barcode ticketing



Ticketing across modes
EU-initiated standardisation
UIC involvement



European standards may support future TEL TSI updates.

SECTOR TECHNICAL WORK FOR MULTIMODAL JOURNEYS

CER TICKETING ROADMAP 2030

Rail solutions for multimodal journeys

Journey
planning

Tickets
across
modes

Real-time
information

Disruption
support

UIC OSDM



Sales and distribution
APIs
Rail and multimodal use
Promotion at EU level

MULTIMODAL BARCODE



Interoperable tickets
Multi-issuer / multimodal
European standardisation

MULTIMODAL TECHNICAL WORK

APIs, tickets, data

UIC eTCD



Ticket lifecycle / control
Digital delay confirmation
Opening to non-rail
operators
Partly in TEL TSI (TD B.14)

REAL-TIME DATA & ACCOUNTING



Information across modes
Data / disruption support
Financial settlement



UIC technical work – following presentation

Thank you for your attention!



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