

Making the railway system
work better for society.

Technical document

ELECTRONIC RESERVATION OF SEATS/BERTHS AND ELECTRONIC PRODUCTION OF TRAVEL DOCUMENTS - EXCHANGE OF MESSAGES

Document History

<i>Version</i>	<i>Date</i>	<i>Comments</i>
1.1	04.05.2011	First release
1.2	01.02.2013	<ul style="list-style-type: none"> - Textual errors discovered during TAP TSI phase one - Description of element 52E changed
1.3	10.02.2015	<ul style="list-style-type: none"> - Usage of the 4 defined more precisely - Usage of the element 52A defined in case of application of a reservation fee - Element 41H must be delivered
		<ul style="list-style-type: none"> - State diagram in Appendix A introduced - Original cancellation date in Confirmation partial cancellation - Elements 73F Partial price 6, 88, 89 specified
1.4.3	11.11.2022	<ul style="list-style-type: none"> - New added appendix B
1.4.5	08.11.2023	<ul style="list-style-type: none"> - document split in two annexes A.1 and A.2

Contents

1.	Introduction	3
2.	Summary	3
3.	Organization of the document.....	3
4.	Bibliography	5
4.1.	ERA Technical Documents.....	5
4.2.	International standards.....	6

Application:

With effect from 08 March 2012.

All actors of the European Union falling under the provisions of the TAP TSI.

1. Introduction

The present document belongs to the set of Technical Documents described in Annex III 'List of Technical Documents referenced in this TSI' of the COMMISSION REGULATION (EU) No 454/2011

2. Summary

This Technical Document describes the regulations and procedures to be observed when exchanging messages between an RU that issues travel tickets and reservation tickets and the electronic system of the RU which manages the necessary data for the issue of these tickets, in particular the inventories of seats available for reservation. It is supplemented by the following two Technical Documents:

- ERA TAP TSI Technical Document B.11 which describes the standard RCT2 that applies to all the travel documents prepared electronically
- ERA TAP TSI Technical Document B.12 which describes the standard for home-printed tickets to be used in international carriage by train.

Additional Technical Documents are likely to be added when the open points left in the COMMISSION REGULATION (EU) No 454/2011 – “Technical specification for interoperability relating to the subsystem ‘telematics applications for passenger services’ of the trans-European rail system” will be closed. The arrangements contained in these Technical Documents enable a RU to reserve seats from an inventory managed by another RU and to issue any travel document (in particular seat reservations and combined tickets) produced electronically from data transmitted by the electronic system of another RU.

3. Organization of the document

This Technical Documents covers multiple technical implementations for the above-mentioned use cases. To simplify the use of the document these separate descriptions have been split into annexes. Each annex contains the use cases, message specification and the exchange protocol.

Annex A.1 Data exchange for reservations using binary formats/queues messages.

This covers the exchange for reservations, partial cancellations and cancellations as well as offers for reservations. Reservations can thereby represent pure seat allocation but may also include the ticket or supplements.

Annex A.2 Data exchange for reservations using xml/soap messages.

This covers the exchange for reservations, partial cancellations and cancellations as well as offers for reservations. Reservations can thereby represent pure seat allocation but may also include the ticket or supplements.

The functional differences are described below in the feature matrix:

Table 1 Feature Matrix

Feature	Covered in A.1	Covered in A.2
Searching for places (stations, stops)	not included	not included
Searching for trips	not included	not included
Getting offers	optional	optional
Booking an offer	mandatory	mandatory
Confirmation of the booking	implicit	implicit
Reconciliation of failed transactions	mandatory	mandatory
Fulfilment of the booking	optional with limits	optional
Getting a refund offer	optional	optional
Booking exchange offers	not included	not included
Getting refund	mandatory	mandatory
Booking an exchange offer	not included	not included
Partial cancellation	Optional	Optional
Reimbursement	not included	not included
Compensation	not included	not included
Local currency support	not included	not included
Personalized tickets / e-ticket	not included	included
Graphical reservation (layouts and place availability)	Not included	Not in TAP-TSI but defined
Extended prebooking time	not included	not included
Reservation fees	not included	not included
Search booking	not included	not included
Seat change	not included	not included
Display of VAT	not included	not included
Master data service on reduction cards	not included	not included
Payment by Vouchers	not included	not included
Release of a booking (cancellation of a booking by a third party with a second step to refund the money) Refund conditions of the time of release apply.	not included	not included

Table 2 Product Matrix

Covered rail products	Covered in A.1	Covered in A.2
Reservation of places (seats, berths, car carriage)	included	included
Reservation including a ticket for the train (admission with mandatory reservation)	included	included
Reservation including a supplement for the train	included	included
Open ticket (admission)	not included	not included
Train bound tickets (tickets linked to a specific train on a part of the route) (admission)	not included	not included
Passes (admission)	not included	not included
Tickets including city traffic (admission)	not included	not included
Luggage tickets	not included	not included
Ancillaries	Meals can be included	Meals can be included
Through Tickets	not included	not included
Reduced tickets (reduction cards, ..)	Included with limits	Included with limits
Bicycles reservation	included	included
Bicycle ticket	not included	not included
Dog Ticket	not included	not included
Combined yielded tickets	not included	not included
Multi Journey Tickets	not included	not included
Vouchers	not included	not included

4. Bibliography

4.1. ERA Technical Documents

ERA TAP TSI Technical Document B.611: LAYOUT FOR ELECTRONICALLY ISSUED RAIL PASSENGER TICKETS

ERA TAP TSI Technical Document B.712: DIGITAL SECURITY ELEMENTS FOR RAIL PASSENGER TICKETING

ERA TAP TSI Technical Document B.8: *Standard numerical coding for railway undertakings, infrastructure managers and other companies involved in rail-transport chains*, Version 1.4 FINAL, 15.12.2020

*ERA TAP TSI Technical Document B.9: Standard numerical coding of locations, Version 1.4
FINAL, 15.12.2020*

4.2. International standards

International Organization for Standardization (ISO)

ISO 4217:2001 - Codes for the representation of currencies and funds, August 2001

*ISO 3166:2006 - Codes for the representation of names of countries and their subdivisions,
2006*