



**INTEROPERABILITY UNIT**

**TAP TSI: ANNEX B.5**

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

|                                      |  |
|--------------------------------------|--|
| <b>REFERENCE:</b> ERA/TD/2009-08/INT | <b>DOCUMENT TYPE:</b> TECHNICAL DOCUMENT |
| <b>VERSION:</b> 1.3.1 FINAL          | <b>TAP TSI</b>                           |
| <b>DATE:</b> 16.07.2019              |  |

**AMENDMENT RECORD**

| <b>Version</b> | <b>Date</b> | <b>Section number</b> | <b>Modification/description</b>   |
|----------------|-------------|-----------------------|---|
| 1.1            | 04.05.2011  | All sections          | First release   |
| 1.2            | 01.02.2013  | All sections          | <ul style="list-style-type: none"><li>- Textual errors discovered during TAP TSI phase one</li><li>- Description of element 52E changed</li></ul>   |
| 1.3            | 10.02.15    | 3.1                   | <ul style="list-style-type: none"><li>- Usage of the 4 defined more precisely</li><li>- Usage of the element 52A defined in case of application of a reservation fee<ul style="list-style-type: none"><li>- Element 41H has to be delivered</li></ul></li></ul> |
| 1.3.1          | 10.02.2016  | All sections          | <ul style="list-style-type: none"><li>- State diagram in Appendix A introduced</li><li>- Original cancellation date in Confirmation partial cancellation</li><li>- Elements 73F Partial price 6, 88, 89 specified</li></ul>                                     |

## **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.

**Electronic reservation of seats/berths and electronic  
production of travel documents - Exchange of  
messages**

**Application:**

With effect from 5 May 2011.

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

## Contents

|  |           |
|--|-----------|
| <b>Introduction</b> .....                                      | <b>3</b>  |
| <b>Contents</b> .....  | <b>6</b>  |
| <b>Summary</b> .....   | <b>10</b> |
| <b>1 Overview</b> .....  | <b>11</b> |
| 1.1 Coding regulations .....                                   | 11        |
| 1.2 List of abbreviations .....                                | 12        |
| 1.3 Special characters used in this Technical Document.....    | 13        |
| <b>2 Message structure</b> .....                               | <b>14</b> |
| 2.1 General .....  | 14        |
| 2.2 Header .....   | 14        |
| 2.3 "Application Text" prefix .....                            | 15        |
| 2.4 Reservation requests .....                                 | 16        |
| 2.5 Partial cancellation requests .....                        | 18        |
| 2.6 Complete cancellation requests .....                       | 19        |
| 2.7 Confirmation of reservation requests .....                 | 20        |
| 2.8 Confirmation of partial cancellation requests .....        | 22        |
| 2.9 Confirmation of complete cancellation requests .....       | 25        |
| 2.10 Replacement proposals, negative replies .....             | 26        |
| 2.11 Correction messages - request/reply .....                 | 27        |
| 2.12 Distribution message description (DMD).....               | 28        |
| 2.13 Synchronisation request / reply.....                      | 29        |
| 2.14 Enquiry about availability and reply.....                 | 30        |
| <b>3 Coding the message element "Reservation"</b> .....        | <b>31</b> |
| 3.1 Header .....   | 31        |
| 1 - Receiving reservation system .....                         | 31        |
| 2 - Sending reservation system .....                           | 31        |
| 3 - Dialogue number .....                                      | 31        |
| 4 - Number of day in the year .....                            | 31        |
| 5 - Type of message.....                                       | 31        |
| 6 - Type of service.....                                       | 31        |
| 7 - Number of the requesting terminal .....                    | 32        |
| 8 - Type of requesting office or type of protocol message..... | 32        |
| 9 - Number of the application version.....                     | 32        |
| 10 - Field at disposal .....                                   | 32        |

|  |    |
|--|----|
| 11 - Test.....                                     | 33 |
| 3.2 Prefix "Application Text".....                 | 33 |
| 15 - Service.....                                  | 33 |
| 16 - Type of the request or reply.....             | 33 |
| 17 - Serial number.....                            | 35 |
| 18 - Type of text.....                             | 35 |
| 3.3 Application text.....                          | 35 |
| 20 - Train.....                                    | 35 |
| 21 - Date.....                                     | 35 |
| 22 - Station codes.....                            | 36 |
| 23 - Seats (number).....                           | 37 |
| 24 - Class.....                                    | 37 |
| 25 - Berths (type and number).....                 | 37 |
| 26 - Meals.....                                    | 38 |
| 27 - Coach number.....                             | 38 |
| 28 - Seat number.....                              | 38 |
| 29 - Category of vehicle/boat.....                 | 38 |
| 30 - Vehicle registration.....                     | 39 |
| 31 - Number and ages of the passengers.....        | 39 |
| 32 - Journey number.....                           | 39 |
| 33 - Journey code.....                             | 39 |
| 34 - Reference number.....                         | 39 |
| 35 - Smoking/non-smoking.....                      | 40 |
| 36 - Position of seat.....                         | 41 |
| 37 - Compartment request.....                      | 41 |
| 38 - Position of compartment.....                  | 41 |
| 39 - Compartment with connecting door.....         | 42 |
| 40 - Compartment characteristics.....              | 42 |
| 41 - Time.....                                     | 42 |
| 42 - Tariff.....                                   | 43 |
| 43 - Individual reservation tickets requested..... | 43 |
| 44 - Another train acceptable.....                 | 43 |
| 45 - Trailers.....                                 | 44 |
| 46 - Number of dogs.....                           | 44 |
| 47 - Reservation system.....                       | 44 |

# European Railway Agency

ERA/TD/2009-08/INT: ANNEX B.5 of TAP TSI

---

|  |    |
|--|----|
| 48 - Train category .....                          | 44 |
| 49 - Station names .....                           | 44 |
| 50 - Place allocation .....                        | 45 |
| 51 - Type of compartment allocated .....           | 46 |
| 52 - Amount.....                                   | 46 |
| 53 - Number of the entry in loading list.....      | 47 |
| 54 - Price calculation code .....                  | 47 |
| 55 - Number of passengers.....                     | 47 |
| 56 - Change of train/date.....                     | 47 |
| 57 - Change of station .....                       | 47 |
| 58 - Number of supplements .....                   | 48 |
| 59 - Type of supplements.....                      | 48 |
| 60 - Number of night sectors .....                 | 48 |
| 61 - Request number.....                           | 48 |
| 62 - Available services .....                      | 48 |
| 63 - Reply code .....                              | 48 |
| 64 - Date of the original reservation .....        | 49 |
| 65 - Undertaking providing the service .....       | 49 |
| 66 - Text for special offer.....                   | 49 |
| 67 - Type of price .....                           | 49 |
| 68 - Number of the original dialogue .....         | 49 |
| 69 - Vehicle transport price only.....             | 49 |
| 70 - Loading lower deck .....                      | 49 |
| 71 - Height.....                                   | 49 |
| 72 - Free.....                                     | 49 |
| 73 - Partial price .....                           | 49 |
| 74 - Reason for cancellation.....                  | 51 |
| 75 - Mark of changed price.....                    | 51 |
| 76 - Code of the travel agent's organisation.....  | 51 |
| 77 - Passenger with vehicle .....                  | 51 |
| 78 - Carrier .....                                 | 51 |
| 79 - List of carriers.....                         | 52 |
| 80 - Country code of the requesting terminal ..... | 52 |
| 81 – Service brand information .....               | 52 |
| 82 – Service brand code .....                      | 52 |



|   |           |
|---|-----------|
| 83 – Service brand abbreviation.....                          | 53        |
| 84 – Service brand name .....                                 | 53        |
| 85 to 299 - Not used.....                                     | 54        |
| 300 - Availability information .....                          | 54        |
| 302 - Details of journey segment.....                         | 55        |
| 305 - Currency code.....                                      | 55        |
| 306 - Customer profile.....                                   | 55        |
| 307 - File reference number .....                             | 55        |
| 308 - Fare price code .....                                   | 55        |
| 311 - Number of combined messages.....                        | 56        |
| 314 - Product code .....                                      | 56        |
| 315 - Product identifier .....                                | 56        |
| 316 - Purchase conditions.....                                | 56        |
| 318 - Service code .....                                      | 56        |
| 319 - Service identifier.....                                 | 57        |
| 320 - Service information type.....                           | 57        |
| 321 - Text groups - identifier .....                          | 57        |
| 322 - Text - identifier .....                                 | 57        |
| 326 - Date .....  | 57        |
| 328 - Tariff Table.....                                       | 58        |
| 329 - Tariff Table2.....                                      | 59        |
| 330 - Tariff Table 4 .....                                    | 59        |
| 331 - Tariff Table 8 .....                                    | 59        |
| 332 - Tariff Table 16.....                                    | 60        |
| <b>Appendix A - Measures for communication protocols.....</b> | <b>62</b> |
| A.1 - Principles .....  | 62        |
| A.2 - Exchange protocol at application level.....             | 64        |
| <b>4 Bibliography.....</b>                                    | <b>73</b> |
| 4.1 ERA Technical Documents .....                             | 73        |
| 4.2 International standards .....                             | 73        |

### 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.6* which describes the standard RCT2 that applies to all the travel documents prepared electronically
- *ERA TAP TSI Technical Document B.7* 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.

**Note:** the term "seat" in this Technical Document is used to identify the group of services e.g. berth, bicycle, seats, etc. but can also be used to address a seat.

## **1 Overview**

### **1.1 Coding regulations**

The elements described below are always of the same length. If the information is shorter than the field length, the following rules apply:

#### **Numerical coding (N):**

The information is entered justified on the right and the left of the field is filled with zeros.

#### **Alphanumerical coding (A) and alphanumerical coding with special character (C):**

The information is entered justified on the left and the right of the field is filled with "blanks" ("spaces").

Optional elements must be coded in such a way that no elements occur containing only zeros or blanks.

## 1.2 List of abbreviations

|               |   |   |
|---------------|---|---|
| Heading       | ACC<br>AD<br>AP<br>APR<br>ASS<br>AT<br>AUB<br>AUT<br>CC<br>D<br>DEM<br>DMD<br>ECH<br>HO<br>L+C<br>MNS<br>MR<br>N<br>PB<br>PRP<br><br>PRR<br><br>PRT<br><br>REP<br>RES<br>RN<br>RP<br>V<br>VL<br>VR<br>VSC | Confirmation<br>Final listing<br>Partial cancellation<br>Provisional listing<br>Seats in trains<br>Complete cancellation<br>Car on ferry<br>Car-carrying train<br>Couchettes in trains<br><br>Specific seat<br>Request<br>Distribution Message Descriptor<br>Exchange<br>Hotel<br>Length and code<br>Non-solicited message<br>Correction<br>Normal seat request<br>Passengers on ferry<br>Replacement proposal for other service<br>Replacement proposal for other RS<br>Replacement proposal for other train/other ferry<br>Reply<br>Reservation<br>Negative reply<br>Seats with at-seat meal in trains<br>Adjacent seat<br>Berths in trains<br>Meal in restaurant car<br>Hire car |
| Column code   | N<br>A<br>C   | Numerical character<br>Alphanumerical character<br>Printable character (A+special character)  |
| Table content | O<br>1 – 32<br><br>-  | Obligatory element<br>Optional element (serial number in topographical label)<br>Element not existent   |

**1.3 Special characters used in this Technical Document**

| <b>Coding</b> | <b>Designation</b> | <b>ASCII-Code</b> |
|---------------|--------------------|-------------------|
| !             | Exclamation sign   | X'21'             |
| "             | Quote marks        | X'22'             |
| #             | Hash               | X'23'             |
| \$            | Dollar sign        | X'24'             |
| %             | Percent            | X'25'             |
| &             | Ampersand          | X'26'             |
| '             | Apostrophe         | X'27'             |
| (             | Left parenthesis   | X'28'             |
| )             | Right parenthesis  | X'29'             |
| *             | Asterisk           | X'2A'             |
| +             | Plus               | X'2B'             |
| ,             | Comma              | X'2C'             |
| -             | Minus              | X'2D'             |
| .             | Dot                | X'2E'             |
| /             | Slash              | X'2F'             |
| :             | Colon              | X'3A'             |
| ;             | Semicolon          | X'3B'             |
| <             | Less than          | X'3C'             |
| =             | Equal to           | X'3D'             |
| >             | More than          | X'3E'             |
| ?             | Question mark      | X'3F'             |

## 2 Message structure

Chapter numbers 2.7 and 2.11 are intentionally not used.

### 2.1 General

The application "Seat reservation" concerns messages relating to:

- Reservation in trains,
- Reservation on ferries (if available in rail attributing system),
- Availability information,
- Tickets.

The necessary information elements are described in this Technical Document. There is only one "918 message header" for all "918 messages" (reservation messages).

### 2.2 Header

The obligatory header for all messages prepared in accordance with this Technical Document is:

| Number | Element   | L+C   |
|--------|---|-------|
| 1      | Receiving reservation system                          | 2 N O |
| 2      | Sending reservation system                            | 2 N O |
| 3      | Dialogue number                                       | 5 N O |
| 4      | Number of the day in the year                         | 3 N O |
| 5      | Type of message                                       | 1 N O |
| 6      | Type of service                                       | 1 N O |
| 7      | Number of the requesting terminal                     | 7 A O |
| 8      | Type of requesting office or type of protocol message | 1 N O |
| 9      | Number of the application version                     | 1 N O |
| 10     | Field at disposal                                     | 2 A O |
| 11     | Test  | 1 N O |

## 2.3 "Application Text" prefix

This is obligatory before each application text.

An application text may be: a request, a confirmation, a negative reply, a replacement proposal, a correction message.

| Number          | Element                  | L+C   |
|-----------------|--------------------------|-------|
| 15              | Service                  | 2NO   |
| 16              | Type of request or reply | 1 N O |
| 17              | Serial number            | 2 N O |
| 18 <sup>a</sup> | Type of text             | 2NO   |

a. Element 18 is only available when, in the header, element 6 has the value 8 = 918<sup>E</sup> - message.

In these cases, at least 2 application texts are available in the message, the first of which is a DMD (see point 2.14).

## 2.4 Reservation requests

| No. | Element                                  | L+C | ASS |   |   | CC |   |   | VL |   |   | RP |   |   | AUT | VR |
|-----|--|-----|-----|---|---|----|---|---|----|---|---|----|---|---|-----|----|
|     |  |     | N   | D | V | N  | D | V | N  | D | V | N  | D | V |     |    |
| 20A | Train number                             | 5A  | 0   | 0 | 0 | 0  | 0 | 0 | 0  | 0 | 0 | 0  | 0 | 0 | 0   | 0  |
| 21A | Departure date                           | 4N  | 0   | 0 | 0 | 0  | 0 | 0 | 0  | 0 | 0 | 0  | 0 | 0 | 0   | 0  |
| 22A | Boarding station                         | 7N  | 0   | 0 | 0 | 0  | 0 | 0 | 0  | 0 | 0 | 0  | 0 | 0 | 0   | 0  |
| 22B | Destination station                      | 7N  | 0   | 0 | 0 | 0  | 0 | 0 | 0  | 0 | 0 | 0  | 0 | 0 | 0   | 0  |
| 23A | Number of seats                          | 2N  | 0   | - | 0 | 0  | - | 0 | 0  | - | 0 | 0  | - | 0 | -   | -  |
| 24  | Class                                    | 1A  | 0   | 0 | 0 | 0  | 0 | 0 | 0  | - | - | 0  | 0 | 0 | -   | -  |
| 25A | Type and number of berths                | 12N | -   | - | - | -  | - | - | 0  | 0 | 0 | -  | - | - | -   | -  |
| 26A | Type and number of meals                 | 6N  | -   | - | - | -  | - | - | -  | - | - | 0  | 0 | 0 | -   | 0  |
| 27  | Coach number                             | 3A  | -   | 0 | 0 | -  | 0 | 0 | -  | 0 | 0 | -  | 0 | 0 | -   | -  |
| 28A | Number of particular seat                | 3A  | -   | 0 | - | -  | 0 | - | -  | 0 | - | -  | 0 | - | -   | -  |
| 28B | Number of a reference seat               | 3A  | -   | - | 0 | -  | - | 0 | -  | - | 0 | -  | - | 0 | -   | -  |
| 29A | Vehicle category                         | 1 N | -   | - | - | -  | - | - | -  | - | - | -  | - | - | 0   | -  |
| 30  | Vehicle registration                     | 10C | -   | - | - | -  | - | - | -  | - | - | -  | - | - | 0   | -  |
| 31  | Number and ages of the passengers        | 8N  | -   | - | - | -  | - | - | -  | - | - | -  | - | - | 0   | -  |
| 32  | Journey number                           | 1 N | -   | - | - | -  | - | - | -  | - | - | -  | - | - | 0   | -  |
| 33  | Journey code                             | 1 N | -   | - | - | -  | - | - | -  | - | - | -  | - | - | 0   | -  |
| 35  | Smoking/non-smoking                      | 1 N | 1   | - | - | 1  | - | - | -  | - | - | 1  | - | - | -   | -  |
| 36  | Position of seat                         | 4 N | 2   | - | - | 2  | - | - | 1  | - | - | 2  | - | - | -   | -  |
| 37  | Compartment request                      | 6 N | 3   | - | - | 3  | - | - | 2  | - | - | 3  | - | - | -   | -  |
| 38A | Position of compartment! request         | 1 N | a   | - | - | -  | - | - | 3  | - | - | a  | - | - | -   | -  |
| 39  | Compartment with connecting door         | 1 N | -   | - | - | -  | - | - | 4  | - | - | -  | - | - | -   | -  |
| 40  | Compartment characteristics <sup>b</sup> | 1 N | -   | - | - | -  | - | - | 5  | 1 | - | -  | - | - | -   | -  |
| 41B | Time of lunch                            | 4N  | -   | - | - | -  | - | - | -  | - | - | 4  | 1 | 1 | -   | 1  |
| 41C | Time of dinner                           | 4N  | -   | - | - | -  | - | - | -  | - | - | 5  | 2 | 2 | -   | 2  |
| 42A | Tariff 1                                 | 9N  | 4   | 1 | 1 | 4  | 1 | 1 | 6  | 2 | 1 | 6  | 3 | 3 | a   | -  |
| 42B | Tariff 2                                 | 9N  | 5   | - | 2 | 5  | - | 2 | 7  | - | 2 | 7  | - | 4 | -   | -  |
| 43  | Individual reservation tickets requested | 1 N | 6   | - | 3 | 6  | - | 3 | 8  | - | 3 | 8  | - | 5 | -   | 3  |
| 44  | Another train acceptable                 | 1 N | 7   | - | - | 7  | - | - | 9  | - | - | 9  | - | - | 1   | -  |
| 45A | Trailer category                         | 1 N | -   | - | - | -  | - | - | -  | - | - | -  | - | - | 2   | -  |
| 29B | Boat category                            | 1 N | -   | - | - | -  | - | - | -  | - | - | -  | - | - | 3   | -  |
| 46  | Number of dogs                           | 1 N | -   | - | - | -  | - | - | -  | - | - | -  | - | - | 4   | -  |



# European Railway Agency

## ERA/TD/2009-08/INT: ANNEX B.5 of TAP TSI

|     |   |     |    |   |   |    |   |   |    |   |   |    |   |   |    |   |
|-----|---|-----|----|---|---|----|---|---|----|---|---|----|---|---|----|---|
| 47A | Requesting reservation system           | 2N  | 8  | 2 | 4 | 8  | 2 | 4 | 10 | 3 | 4 | 10 | 4 | 6 | -  | 4 |
| 69  | Vehicle transport price only            | 1 N | -  | - | - | -  | - | - | -  | - | - | -  | - | - | 5  | - |
| 70  | Loading lower deck                      | 1 N | -  | - | - | -  | - | - | -  | - | - | -  | - | - | 6  | - |
| 71  | Height                                  | 3N  | -  | - | - | -  | - | - | -  | - | - | -  | - | - | 7  | - |
| 76  | Code of the travel agent's organisation | 5 N | 9  | 3 | 5 | 9  | 3 | 5 | 11 | 4 | 5 | 11 | 5 | 7 | 8  | 5 |
| 77  | Passenger with vehicle                  | 1 N | 10 | 4 | 6 | 10 | 4 | 6 | 12 | 5 | 6 | 12 | 6 | 8 | -  | - |
| 38A | Position of compartment! request        | 1 N | 11 | - | - | -  | - | - | a  | - | - | 13 | - | - | -  | - |
| 42A | Tariff 1                                | 9N  | a  | a | a | A  |   | a | a  | a | a | a  | a | a | 9  | - |
| 80  | Country code of requesting terminal     | 2A  | 12 | 5 | 7 | 11 | 5 | 7 | 13 | 6 | 7 | 14 | 7 | 9 | 10 | 6 |

- a This element appears several times in the Table but only once in the message.
- b Appears only if the number of seats does not correspond to a number of complete compartments.

## 2.5 Partial cancellation requests

| No. | Element  | L+C  | ASS | CC | VL | RP | AUT | VR |
|-----|--|------|-----|----|----|----|-----|----|
| 20A | Train number   | 5 A  | O   | O  | O  | O  | O   | O  |
| 21A | Departure date   | 4 N  | O   | O  | O  | O  | O   | O  |
| 23A | Number of seats  | 2 N  | O   | O  | O  | O  | -   | -  |
| 25A | Type and number of berths                              | 12N  | -   | -  | O  | -  | -   | -  |
| 26A | Type and number of meals                               | 6 N  | -   | -  | -  | O  | -   | O  |
| 34A | Reference number of reservation ticket to be cancelled | 12 N | O   | O  | O  | O  | O   | O  |
| 36  | Position of seat                                       | 4 N  | 1   | 1  | 1  | 1  | -   | -  |
| 38A | Position of compartment/request                        | 1 N  | A   | -  | 2  | a  | -   | -  |
| 40  | Compartment characteristics <sup>b</sup>               | 1 N  | -   | -  | 3  | -  | -   | -  |
| 42A | Tariff 1   | 9N   | 2   | 2  | 4  | 2  | -   | -  |
| 42B | Tariff 2   | 9N   | 3   | 3  | 5  | 3  | -   | -  |
| 47A | Requesting reservation system                          | 2 N  | 4   | 4  | 6  | 4  | -   | 1  |
| 74  | Reason for cancellation                                | 2 N  | 5   | 5  | 7  | 5  | -   | -  |
| 76  | Code of the travel agent's organisation                | 5 N  | 6   | 6  | 8  | 6  | -   | 2  |
| 38A | Position of compartment/request                        | 1 N  | 7   | -  | a  | 7  | -   | -  |
| 80  | Country code of requesting terminal                    | 2 A  | 8   | 7  | 9  | 8  | 2   | 3  |

a This element appears several times in the Table but only once in the message.

b Appears only if the number of seats does not correspond to a number of complete compartments.

## 2.6 Complete cancellation requests

| No. | Element  | L+C  | ASS | CC | VL | RP | AUT | VR |
|-----|--|------|-----|----|----|----|-----|----|
| 20A | Train number   | 5 A  | O   | O  | O  | O  | O   | O  |
| 21A | Departure date   | 4 N  | O   | O  | O  | O  | O   | O  |
| 34A | Reference number of reservation ticket to be cancelled | 12 N | O   | O  | O  | O  | O   | O  |
| 47A | Requesting reservation system                          | 2 N  | 1   | 1  | 1  | 1  | -   | 1  |
| 74  | Reason for cancellation                                | 2 N  | 2   | 2  | 2  | 2  | 1   | -  |
| 76  | Code of the travel agent's organisation                | 5 N  | 3   | 3  | 3  | 3  | 2   | 2  |
| 80  | Country code of requesting terminal                    | 2 A  | 4   | 4  | 4  | 4  | 3   | 3  |

## 2.7 Confirmation of reservation requests

| No.  | Element                                | L+C  | ASS | CC | VL | RP | AUT | VR |
|------|--|------|-----|----|----|----|-----|----|
| 20A  | Train number                           | 5 A  | O   | O  | O  | O  | O   | O  |
| 48   | Train category                         | 2 N  | O   | O  | O  | O  | O   | -  |
| 21A  | Departure date                         | 4 N  | O   | O  | O  | O  | O   | O  |
| 41A  | Departure time                         | 4 N  | O   | O  | O  | O  | -   | -  |
| 49A  | Name of boarding station               | 30 C | O   | O  | O  | O  | -   | O  |
| 49B  | Name of destination station            | 30 C | O   | O  | O  | O  | -   | O  |
| 34B  | Reference number of accommodations     | 12 N | O   | O  | O  | O  | O   | -  |
| 34C  | Reference number for breakfast         | 12 N | -   | -  | -  | O  | -   | O  |
| 34D  | Reference number for lunch             | 12 N | -   | -  | -  | O  | -   | O  |
| 34E  | Reference number for dinner            | 12 N | -   | -  | -  | O  | -   | O  |
| 27   | Coach number                           | 3 A  | O   | O  | O  | O  | -   | -  |
| 23A  | Number of seats                        | 2 N  | O   | O  | O  | O  | -   | -  |
| 50A  | Accommodation allocated                | 32 C | O   | O  | O  | O  | -   | -  |
| 24   | Class                                  | 1A   | O   | O  | O  | O  | -   | -  |
| 51   | Type of compartment allocated          | 6 N  | O   | O  | O  | O  | -   | -  |
| 26A  | Type and number of meals               | 6 N  | -   | -  | -  | O  | -   | O  |
| 41 B | Time of lunch                          | 4 N  | -   | -  | -  | O  | -   | O  |
| 41 C | Time of dinner                         | 4 N  | -   | -  | -  | O  | -   | O  |
| 52A  | Price (reservation charge, supplement) | 7 N  | O   | O  | O  | O  | O   | -  |
| 52B  | Price of breakfast                     | 7 N  | -   | -  | -  | O  | -   | O  |
| 52C  | Price of lunch                         | 7N   | -   | -  | -  | O  | -   | O  |
| 52D  | Price of dinner                        | 7 N  | -   | -  | -  | O  | -   | O  |
| 49C  | Name of loading station                | 30 C | -   | -  | -  | -  | O   | -  |
| 21C  | Loading date                           | 4N   | -   | -  | -  | -  | O   | -  |
| 41D  | Start of loading period                | 4 N  | -   | -  | -  | -  | O   | -  |
| 41 E | End of loading period                  | 4 N  | -   | -  | -  | -  | O   | -  |
| 49D  | Name of unloading station              | 30 C | -   | -  | -  | -  | O   | -  |
| 21D  | Unloading date                         | 4N   | -   | -  | -  | -  | O   | -  |
| 41 F | Start of unloading period              | 4 N  | -   | -  | -  | -  | O   | -  |
| 41G  | End of unloading period                | 4 N  | -   | -  | -  | -  | O   | -  |
| 30   | Vehicle registration                   | 10C  | -   | -  | -  | -  | O   | -  |
| 53   | Number of the entry in loading list    | 3 N  | -   | -  | -  | -  | O   | -  |
| 32   | Journey number                         | 1 N  | -   | -  | -  | -  | O   | -  |
| 29A  | Vehicle category                       | 1 N  | -   | -  | -  | -  | O   | -  |
| 54   | Price calculation code                 | 1 N  | -   | -  | -  | -  | O   | -  |
| 55   | Number of passengers                   | 4 N  | -   | -  | -  | -  | O   | -  |
| 65   | Undertaking providing the service      | 1 N  | -   | -  | O  | -  | -   | -  |
| 56   | Change of train/date                   | 1 N  | 1   | 1  | 1  | 1  | 1   | 1  |
| 57   | Change of station                      | 1 N  | 2   | 2  | 2  | 2  | 2   | 2  |
| 41 H | Arrival time                           | 4 N  | 3   | 3  | 3  | 3  | -   | -  |
| 50B  | Additional accommodation allocated     | 32 C | 4   | 4  | 4  | 4  | -   | -  |
| 39   | Compartment with connecting door       | 1 N  | -   | -  | 5  | -  | -   | -  |
| 21 E | Date of breakfast                      | 4 N  | -   | -  | -  | 5  | -   | 3  |
| 21F  | Date of lunch                          | 4N   | -   | -  | -  | 6  | -   | 4  |

# European Railway Agency

## ERA/TD/2009-08/INT: ANNEX B.5 of TAP TSI

|      |  |      |    |    |    |    |    |   |
|------|--|------|----|----|----|----|----|---|
| 21G  | Date of dinner                               | 4N   | -  | -  | -  | 7  | -  | 5 |
| 58   | Number of supplements                        | 2 N  | 5  | 5  | 6  | 8  | -  | - |
| 59   | Type of supplements                          | 1 N  | 6  | 6  | 7  | 9  | -  | - |
| 42A  | Tariff 1                                     | 9 N  | 7  | 7  | 8  | 10 | -  | - |
| 42B  | Tariff 2                                     | 9 N  | 8  | 8  | 9  | 11 | -  | - |
| 60   | Number of night sectors                      | 1 N  | -  | 9  | -  | -  | -  | - |
| 45A  | Trailer category                             | 1 N  | -  | -  | -  | -  | 3  | - |
| 46   | Number of dogs                               | 1 N  | -  | -  | -  | -  | 4  | - |
| 49E  | Name of boarding station (start of journey)  | 30 C | -  | -  | -  | -  | 5  | - |
| 49F  | Name of destination station (end of journey) | 30 C | -  | -  | -  | -  | 6  | - |
| 29B  | Boart category                               | 1 N  | -  | -  | -  | -  | 7  | - |
| 41I  | Start of additional loading period           | 4 N  | -  | -  | -  | -  | 8  | - |
| 41J  | End of additional loading period             | 4 N  | -  | -  | -  | -  | 9  | - |
| 41K  | Start of additional unloading period         | 4 N  | -  | -  | -  | -  | 10 | - |
| 41 L | End of additional unloading period           | 4 N  | -  | -  | -  | -  | 11 | - |
| 23C  | Number of overbooked seats                   | 2 N  | 9  | -  | -  | -  | -  | - |
| 47A  | Requesting reservation system                | 2 N  | 10 | 10 | 10 | 12 | -  | - |
| 66   | Text for special offers                      | 30 C | 11 | 11 | 11 | 13 | -  | - |
| 40   | Compartment characteristics                  | 1 N  | -  | -  | 12 | -  | -  | - |
| 70   | Loading lower deck                           | 1 N  | -  | -  | -  | -  | 12 | - |
| 71   | Height                                       | 3N   | -  | -  | -  | -  | 13 | - |
| 67   | Type of price                                | 1 N  | 12 | 12 | 13 | 14 | 14 | - |
| 73A  | Partial price 1                              | 14N  | 13 | 13 | 14 | 15 | -  | - |
| 73B  | Partial price 2                              | 14 N | 14 | 14 | 15 | 16 | -  | - |
| 73C  | Partial price 3                              | 14 N | 15 | 15 | 16 | 17 | -  | - |
| 21H  | Arrival date                                 | 4N   | 16 | 16 | 17 | 18 | 15 | - |
| 77   | Passenger with vehicle                       | 1 N  | 17 | 17 | 18 | 19 | -  | - |
| 38B  | Position of compartment/allocation           | 1 N  | 18 | -  | 19 | 20 | -  | - |
| 79   | List of carriers                             | 36A  | 19 | 18 | 20 | 21 | 16 | - |
| 42A  | Tariff 1                                     | 9N   | a  | a  | a  | a  | 17 | - |
| 81   | Service brand information                    | 40 C | 20 | 19 | 21 | 22 | 18 | - |

a This element appears several times in the Table but only once in the message.

## 2.8 Confirmation of partial cancellation requests

| No.  | Element                                   | L+C  | ASS | CC | VL | RP | AUT | VR |
|------|---|------|-----|----|----|----|-----|----|
| 20A  | Train number                              | 5 A  | O   | O  | O  | O  | O   | O  |
| 48   | Train category                            | 2 N  | O   | O  | O  | O  | O   | -  |
| 21A  | Departure date                            | 4 N  | O   | O  | O  | O  | O   | O  |
| 41A  | Departure time                            | 4 N  | O   | O  | O  | O  | -   | -  |
| 49A  | Name of boarding station                  | 30 C | O   | O  | O  | O  | -   | O  |
| 49B  | Name of destination station               | 30 C | O   | O  | O  | O  | -   | O  |
| 34B  | Reference number of accommodations        | 12 N | O   | O  | O  | O  | O   | -  |
| 34C  | Reference number for breakfast            | 12 N | -   | -  | -  | O  | -   | O  |
| 34D  | Reference number for lunch                | 12 N | -   | -  | -  | O  | -   | O  |
| 34E  | Reference number for dinner               | 12 N | -   | -  | -  | O  | -   | O  |
| 27   | Coach number                              | 3 A  | O   | O  | O  | O  | -   | -  |
| 23A  | Number of seats                           | 2 N  | O   | O  | O  | O  | -   | -  |
| 50A  | Accommodation allocated                   | 32 C | O   | O  | O  | O  | -   | -  |
| 24   | Class                                     | 1A   | O   | O  | O  | O  | -   | -  |
| 51   | Type of compartment allocated             | 6 N  | O   | O  | O  | O  | -   | -  |
| 26A  | Type and number of meals                  | 6 N  | -   | -  | -  | O  | -   | O  |
| 41 B | Time of lunch                             | 4 N  | -   | -  | -  | O  | -   | O  |
| 41 C | Time of dinner                            | 4 N  | -   | -  | -  | O  | -   | O  |
| 52A  | Price (reservation charge, supplement)    | 7 N  | O   | O  | O  | O  | O   | -  |
| 52B  | Price of breakfast                        | 7 N  | -   | -  | -  | O  | -   | O  |
| 52C  | Price of lunch                            | 7N   | -   | -  | -  | O  | -   | O  |
| 52D  | Price of dinner                           | 7 N  | -   | -  | -  | O  | -   | O  |
| 49C  | Name of loading station                   | 30 C | -   | -  | -  | -  | O   | -  |
| 21C  | Loading date                              | 4N   | -   | -  | -  | -  | O   | -  |
| 41D  | Start of loading period                   | 4 N  | -   | -  | -  | -  | O   | -  |
| 41 E | End of loading period                     | 4 N  | -   | -  | -  | -  | O   | -  |
| 49D  | Name of unloading station                 | 30 C | -   | -  | -  | -  | O   | -  |
| 21D  | Unloading date                            | 4N   | -   | -  | -  | -  | O   | -  |
| 41 F | Start of unloading period                 | 4 N  | -   | -  | -  | -  | O   | -  |
| 41G  | End of unloading period                   | 4 N  | -   | -  | -  | -  | O   | -  |
| 30   | Vehicle registration                      | 10C  | -   | -  | -  | -  | O   | -  |
| 53   | Number of the entry in loading list       | 3 N  | -   | -  | -  | -  | O   | -  |
| 32   | Journey number                            | 1 N  | -   | -  | -  | -  | O   | -  |
| 29A  | Vehicle category                          | 1 N  | -   | -  | -  | -  | O   | -  |
| 54   | Price calculation code                    | 1 N  | -   | -  | -  | -  | O   | -  |
| 55   | Number of passengers                      | 4 N  | -   | -  | -  | -  | O   | -  |
| 34F  | Reference number of cancelled reservation | 12 N | O   | O  | O  | O  | O   | O  |
| 52E  | Amount of refund                          | 7 N  | O   | O  | O  | O  | O   | O  |
| 23B  | Number of cancelled seats                 | 2 N  | O   | O  | -  | O  | -   | -  |
| 25B  | Type and number of cancelled berths       | 12 N | -   | -  | O  | -  | -   | -  |
| 26B  | Types and number of cancelled meals       | 6 N  | -   | -  | -  | O  | -   | O  |
| 45B  | Category of the cancelled trailer         | 1 N  | -   | -  | -  | -  | O   | -  |

# European Railway Agency

ERA/TD/2009-08/INT: ANNEX B.5 of TAP TSI

|      |  |      |    |    |    |    |    |   |
|------|--|------|----|----|----|----|----|---|
| 64   | Date of the original reservation             | 5 N  | O  | O  | O  | O  | O  | O |
| 65   | Undertaking providing the service            | 1 N  | -  | -  | O  | -  | -  | - |
| 57   | Change of station                            | 1 N  | 1  | 1  | 1  | 1  | -  | 1 |
| 41 H | Arrival time                                 | 4 N  | 2  | 2  | 2  | 2  | -  | - |
| 50B  | Additional accommodation allocated           | 32 C | 3  | 3  | 3  | 3  | -  | - |
| 39   | Compartment with connecting door             | 1 N  | -  | -  | 4  | -  | -  | - |
| 21 E | Date of breakfast                            | 4 N  | -  | -  | -  | 4  | -  | 2 |
| 21F  | Date of lunch                                | 4N   | -  | -  | -  | 5  | -  | 3 |
| 21G  | Date of dinner                               | 4N   | -  | -  | -  | 6  | -  | 4 |
| 58   | Number of supplements                        | 2 N  | 4  | 4  | 5  | 7  | -  | - |
| 59   | Type of supplements                          | 1 N  | 5  | 5  | 6  | 8  | -  | - |
| 42A  | Tariff 1                                     | 9 N  | 6  | 6  | 7  | 9  | a  | - |
| 42B  | Tariff 2                                     | 9 N  | 7  | 7  | 8  | 10 | -  | - |
| 60   | Number of night sectors                      | 1 N  | -  | 8  | -  | -  | -  | - |
| 46   | Number of dogs                               | 1 N  | -  | -  | -  | -  | 1  | - |
| 49E  | Name of boarding station (start of journey)  | 30 C | -  | -  | -  | -  | 2  | - |
| 49F  | Name of destination station (end of journey) | 30 C | -  | -  | -  | -  | 3  | - |
| 29B  | Boat category                                | 1 N  | -  | -  | -  | -  | 4  | - |
| 41I  | Start of additional loading period           | 4 N  | -  | -  | -  | -  | 5  | - |
| 41J  | End of additional loading period             | 4 N  | -  | -  | -  | -  | 6  | - |
| 41K  | Start of additional unloading period         | 4 N  | -  | -  | -  | -  | 7  | - |
| 41 L | End of additional unloading period           | 4 N  | -  | -  | -  | -  | 8  | - |
| 23C  | Number of overbooked seats                   | 2 N  | 8  | -  | -  | -  | -  | - |
| 47A  | Requesting reservation system                | 2 N  | 9  | 9  | 9  | 11 | -  | - |
| 66   | Text for special offers                      | 30 C | 10 | 10 | 10 | 12 | -  | - |
| 40   | Compartment characteristics                  | 1 N  | -  | -  | 11 | -  | -  | - |
| 70   | Loading lower deck                           | 1 N  | -  | -  | -  | -  | 9  | - |
| 71   | Height                                       | 3N   | -  | -  | -  | -  | 10 | - |
| 67   | Type of price                                | 1 N  | 11 | 11 | 12 | 13 | 11 | - |
| 73A  | Partial price 1                              | 14N  | 12 | 12 | 13 | 14 | -  | - |
| 73B  | Partial price 2                              | 14 N | 13 | 13 | 14 | 15 | -  | - |
| 73C  | Partial price 3                              | 14 N | 14 | 14 | 15 | 16 | -  | - |
| 73D  | Partial price 4                              | 14 N | 15 | 15 | 16 | 17 | -  | - |
| 73E  | Partial price 5                              | 14N  | 16 | 16 | 17 | 18 | -  | - |
| 73F  | Partial price 6                              | 14N  | 17 | 17 | 18 | 19 | -  | - |
| 75   | Mark of changed price                        | 1 N  | 18 | 18 | 19 | 20 | -  | - |
| 21 H | Arrival date                                 | 4 N  | 19 | 19 | 20 | 21 | -  | - |
| 77   | Passenger with vehicle                       | 1 N  | 20 | 20 | 21 | 22 | -  | - |
| 38B  | Position of compartment/allocation           | 1 N  | 21 | -  | 22 | 23 | -  | - |
| 79   | List of carriers                             | 36A  | 22 | 21 | 23 | 24 | 12 | - |
| 42A  | Tariff 1                                     | 9N   | a  | a  | a  | a  | 13 | - |
| 81   | Service brand information                    | 40 C | 23 | 22 | 24 | 25 | 14 | - |
| 88   | Original Cancellation Date                   | 6 N  | 25 | 24 | 26 | 27 | 16 | - |
| 89   | Requesting system of original cancellation   | 2 N  | 26 | 25 | 27 | 28 | 17 | - |

a This element appears several times in the Table but only once in the message.





## 2.9 Confirmation of complete cancellation requests

| No. | Element  | L+C  | ASS | CC | VL | RP | AUT | VR |
|-----|--|------|-----|----|----|----|-----|----|
| 20A | Train number                                     | 5 A  | O   | O  | O  | O  | O   | O  |
| 21A | Departure date                                   | 4 N  | O   | O  | O  | O  | O   | O  |
| 41A | Departure time                                   | 4 N  | O   | O  | O  | O  | -   | -  |
| 24  | Class  | 1A   | O   | O  | O  | O  | -   | -  |
| 34F | Reference number of cancelled reservation ticket | 12 N | O   | O  | O  | O  | O   | O  |
| 52E | Amount of refund                                 | 7 N  | O   | O  | O  | O  | O   | O  |
| 23B | Number of cancelled seats                        | 2 N  | O   | O  | -  | O  | -   | -  |
| 25B | Type and number of cancelled berths              | 12 N | -   | -  | O  | -  | -   | -  |
| 26B | Type and number of cancelled meals               | 6 N  | -   | -  | -  | O  | -   | O  |
| 29C | Category of cancelled vehicle                    | 1 N  | -   | -  | -  | -  | O   | -  |
| 64  | Date of the original reservation                 | 5 N  | O   | O  | O  | O  | O   | O  |
| 65  | Undertaking providing the service                | 1 N  | -   | -  | O  | -  | -   | -  |
| 45B | Category of the cancelled trailer                | 1 N  | -   | -  | -  | -  | 1   | -  |
| 29D | Category of cancelled boat                       | 1 N  | -   | -  | -  | -  | 2   | -  |
| 60  | Number of night sectors                          | 1 N  | -   | 1  | -  | -  | -   | -  |
| 42A | Tariff 1   | 9N   | 1   | 2  | 1  | 1  | -   | -  |
| 42B | Tariff 2   | 9N   | 2   | 3  | 2  | 2  | -   | -  |
| 58  | Number of supplements                            | 2 N  | 3   | 4  | 3  | 3  | -   | -  |
| 59  | Type of supplements                              | 1 N  | 4   | 5  | 4  | 4  | -   | -  |
| 47A | Requesting reservation system                    | 2 N  | 5   | 6  | 5  | 5  | -   | -  |
| 67  | Type of price                                    | 1 N  | 6   | 7  | 6  | 6  | 3   | -  |
| 73D | Partial price 4                                  | 14 N | 7   | 8  | 7  | 7  | -   | -  |
| 73E | Partial price 5                                  | 14 N | 8   | 9  | 8  | 8  | -   | -  |
| 73F | Partial price 6                                  | 14 N | 9   | 10 | 9  | 9  | -   | -  |
| 75  | Mark of changed price                            | 1 N  | 10  | 11 | 10 | 10 | 4   | -  |
| 88  | Original Cancellation Date                       | 6 N  | 11  | 12 | 11 | 11 | 5   | 1  |
| 89  | Requesting system of original cancellation       | 2 N  | 12  | 13 | 12 | 12 | 6   | 2  |

## 2.10 Replacement proposals, negative replies

| No.  | Element                                    | L+C  | PRP | PRT | PRR | RN |
|------|--|------|-----|-----|-----|----|
| 47B  | Reservation system with further seat offer | 2 N  | -   | -   | O   | -  |
| 20A  | Train number                               | 5 A  | -   | O   | 1   | -  |
| 62   | Available services                         | 9 A  | O   | 1   | -   | -  |
| 63   | Reply code                                 | 3N   | -   | -   | -   | O  |
| 21A  | Departure date                             | 4 N  | -   | 2   | -   | -  |
| 41A  | Departure time                             | 4 N  | -   | 3   | -   | -  |
| 41 H | Arrival time                               | 4 N  | -   | 4   | -   | -  |
| 48   | Train category                             | 2 N  | -   | 5   | -   | -  |
| 61   | Request number                             | 2 N  | 1   | 6   | 2   | 1  |
| 81   | Service brand information                  | 40 C | -   | 7   | -   | -  |

## 2.11 Correction messages - request/reply

### Principles

1. The dialogue number allocated by the sender is quoted by the allocating system in the reply. The number differs from the message which initiated the cancellation request.
2. If a reply is not received to a cancellation request, a synchronisation message follows.
3. A correction message is not necessary for a complete cancellation.
4. The correction message may contain several application texts if the reply originally received contained several confirmations.
5. The Correction message is sent by the requester to the attributor in two cases:
  - If the answer sent by the attributor contained errors (e.g. date 30th February)
  - If the answer sent by the attributor arrived late, when the timeout at the requesting system had already expired and it had informed the remote requesting terminal that there was no answer. On receiving a correction message the attributor cancels the reservations done.

| No. | Element                                | L+C  | ASS | CC | VL | RP | AUT | VR |
|-----|--|------|-----|----|----|----|-----|----|
| 68  | Number of the original dialogue        | 5 N  | O   | O  | O  | O  | O   | O  |
| 20A | Train number                           | 5 A  | O   | O  | O  | O  | O   | O  |
| 21A | Departure date                         | 4 N  | O   | O  | O  | O  | O   | O  |
| 23A | Number of seats                        | 2 N  | O   | O  | O  | O  | -   | -  |
| 34B | Reference number of accommodations     | 12 N | O   | O  | O  | O  | O   | -  |
| 34C | Reference number for breakfast         | 12 N | -   | -  | -  | O  | -   | O  |
| 34D | Reference number for lunch             | 12 N | -   | -  | -  | O  | -   | O  |
| 34E | Reference number for dinner            | 12 N | -   | -  | -  | O  | -   | O  |
| 52A | Price (reservation charge, supplement) | 7 N  | O   | O  | O  | O  | O   | -  |
| 52B | Price of breakfast                     | 7 N  | -   | -  | -  | O  | -   | O  |
| 52C | Price of lunch                         | 7N   | -   | -  | -  | O  | -   | O  |
| 52D | Price of dinner                        | 7 N  | -   | -  | -  | O  | -   | O  |
| 47A | Requesting reservation system          | 2 N  | O   | O  | O  | O  | -   | -  |
| 80  | Country code of requesting terminal    | 2 A  | 1   | 1  | 1  | 1  | 1   | 1  |

**2.12 Distribution message description (DMD)**

| <b>No.</b> | <b>Element</b>              | <b>L+C</b> | <b>Request</b> | <b>Confirmation</b> |
|------------|-----------------------------|------------|----------------|---------------------|
| 22C        | Starting station            | 7 N        | 0              | 0                   |
| 22D        | Final station               | 7N         | 0              | 0                   |
| 22E        | Return station              | 7 N        | 0              | 0                   |
| 33         | Journey code                | 1 N        | 0              | 0                   |
| 314        | Product code                | 10A        | 0              | 0                   |
| 307        | File reference number       | 12A        | 1              | 1                   |
| 306        | Customer profile            | 30 C       | 2              | 2                   |
| 304        | Booking status              | 1 N        | 3              | 3                   |
| 305        | Currency code               | 3 A        | 4              | 4                   |
| 310        | Maximum excess price        | 4N         | 5              | 5                   |
| 311        | Number of combined messages | 2 N        | 6              | 6                   |
| 66A        | Notices                     | 30 C       | 7              | 7                   |

## **2.13 Synchronisation request / reply**

The synchronisation request and reply message include the message header only. They do not contain an application text.

The synchronisation message is used in case of lost reservation dialogs according to the error scenarios defined in Appendix A. The dialog number (Element 3) contains the dialog number of the lost dialog as described in section 3.1.3.

## 2.14 Enquiry about availability and reply

| No.  | Element                       | L+C                | Request | Confirmation |
|------|-------------------------------|--------------------|---------|--------------|
| 20A  | Train number                  | 5 A                | 0       | 0            |
| 22A  | Boarding station              | 7 N                | 0       | -            |
| 22B  | Destination station           | 7 N                | 0       | -            |
| 49A  | Name of boarding station      | 30 C               | -       | 0            |
| 49B  | Name of destination station   | 30 C               | -       | 0            |
| 326A | Departure date                | 6N                 | 0       | 0            |
| 41A  | Departure time                | 4 N                | 0       | 0            |
| 326B | Arrival date                  | 6 N                | -       | 0            |
| 41 H | Arrival time                  | 4 N                | -       | 0            |
| 318A | Service code 1                | 2A                 | 0       | 0            |
| 300A | Availability information 1    | 8A                 | -       | 0            |
| 321  | Text groups - identifier      | 2 N                | -       | 1            |
| 314  | Product code                  | 10A                | -       | 2            |
| 317C | Request area                  | 1 N                | 1       | -            |
| 48   | Train category                | 2 N                | 2       | 3            |
| 37   | Compartment request           | 6 N                | 3       | -            |
| 51   | Type of compartment allocated | 6 N                | -       | 4            |
| 322A | Conditions of use             | 3 N                | -       | 5            |
| 318B | Service code 2                | 2 A                | 4       | -            |
| 318C | Service code 3                | 2 A                | 5       | -            |
| 308A | Fare code 1                   | 4A                 | 6       | -            |
| 308B | Fare code 2                   | 4 A                | 7       | -            |
| 308C | Fare code 3                   | 4 A                | 8       | -            |
| 300B | Availability information 2    | 8A                 | -       | 6            |
| 300C | Availability information 3    | 8A                 | -       | 7            |
| 300D | Availability information 4    | 8A                 | -       | 8            |
| 300E | Availability information 5    | 8A                 | -       | 9            |
| 300F | Availability information 6    | 8A                 | -       | 10           |
| 300G | Availability information 7    | 8 A                | -       | 11           |
| 328  | Tariff table                  | 13 A <sup>a</sup>  | -       | 12           |
| 329  | Tariff table 2                | 26 A <sup>a</sup>  | -       | 13           |
| 330  | Tariff table 4                | 52 A <sup>a</sup>  | -       | 14           |
| 331  | Tariff table 8                | 104 A <sup>a</sup> | -       | 15           |
| 332  | Tariff table 16               | 208 A <sup>a</sup> | -       | 16           |
| 82   | Service brand code            | 4 N                | 9       |              |
| 81   | Service brand information     | 40 C               |         | 17           |

a. When Application Version = 1 in Element 9, these lengths are different (see individual elements).

### **3 Coding the message element "Reservation"**

#### **3.1 Header**

##### **1 - Receiving reservation system**

Length = 2, coding = numerical

See Code List B.5.1

##### **2 - Sending reservation system**

(see element 1)

##### **3 - Dialogue number**

Length = 5, coding = numerical

##### **Reservation:**

In the dialogue operation, the dialogue number is the only information which enables the reply received to be related to the request submitted. This number is given by the requesting reservation system. The reservation system addressed quotes the number in the reply.

##### **4 - Number of day in the year**

Length = 3, coding = numerical

Within a year, the day on which the message is sent. In the response message the day is given by the allocating reservation system. (It is also the accounting date).

In case of a synchronisation request the date must be the date of the initial reservation request. In the synchronisation response message the day is given by the allocating reservation system.

##### **5 - Type of message**

Length = 1, coding = numerical

See Code List B.5.5

##### **6 - Type of service**

Length = 1, coding = numerical

See Code List B.5.6

The following table gives the possible combinations of the type of message and type of service elements:

| Type of message | Type of service |   |          |         |         |          |         |         |          |
|-----------------|-----------------|---|----------|---------|---------|----------|---------|---------|----------|
|                 | Code            | 0 | RES<br>1 | AT<br>2 | AP<br>3 | ECH<br>4 | MR<br>5 | AD<br>6 | APR<br>7 |
| <b>DEM</b>      | 1               | - | X        | X       | X       | X        | X       | -       | -        |
| <b>REP</b>      | 2               | X | X        | X       | X       | X        | X       | -       | -        |
| <b>MNS</b>      | 3               | - | -        | -       | -       | -        | -       | X       | X        |

### **7 - Number of the requesting terminal**

Length = 7, coding = alphanumerical

The terminal number is made up as follows:

5 digits: main code location part as specified in *ERA TAP TSI Technical Document B.9* (see Bibliography). If this is not possible, another code is permissible.

2 digits: serial number of the terminal in the office.

For protocol messages, this element contains the value = 0000000.

### **8 - Type of requesting office or type of protocol message**

Length = 1, coding = numerical

#### **Reservation:**

See Code List B.5.8

### **9 - Number of the application version**

Length = 1, coding = numerical

In the operation, the same version number applies for all connected reservation systems. If it is changed, a standard first validity day must be specified for all reservation systems.

0 = Standard version

1 = Non-standard version

### **10 - Field at disposal**

Length = 2, coding = alphanumerical

#### **Reservation:**

The field contains information from the requesting system which must be quoted back unchanged by the replying system (not with protocol messages).

With protocol messages, the following values are possible:

#### **Reply to a synchronisation request**

##### **Code = 00**

- correction of the reservation file was needed (reservation or partial cancellation request), the reservation was corrected,
- the cancellation was processed (the reservation file was already corrected),
- the complete cancellation was effected (the reservation file remains unchanged).

##### **Code = 20**



- The receiving application cannot recover (lost dialogue). Inclusion in the litigation files by the sending reservation system.

**Code = 30**

- The original request was not processed or negatively replied:
  - for cancellations, the sending reservation system includes it in the litigation file
  - for a reservation, partial or complete cancellation request, no special processing takes place.

**Synchronisation requests**

**Code = 00**

- the session was interrupted.

**Code = 10**

- a time-out occurred.

–

**Throughput messages**

Not being used for the seat reservation application for the time being.

**Code 01-99**

- specified throughput quota.

**11 - Test**

Length = 1, coding = numerical

See Code List B.5.11

**3.2 Prefix "Application Text"**

**15 - Service**

Length = 2, coding = numerical

See Code List B.5.15

**16 - Type of the request or reply**

Length = 1, coding = numerical

- 1 = Request for normal seat
- 2 = Request for a particular seat
- 3 = Request for adjacent seat
- 4 = Confirmation
- 5 = Replacement proposal for other service
- 6 = Replacement proposal for other train
- 7 = Replacement proposal for other reservation system
- 8 = Negative reply

# European Railway Agency

ERA/TD/2009-08/INT: ANNEX B.5 of TAP TSI

---

9 = Free

The tables below give the possible combinations of the service elements and type of the request or reply.

The following combinations are possible for requests:

| Service | Type of request |        |        |        |
|---------|-----------------|--------|--------|--------|
|         | Code            | N<br>1 | D<br>2 | V<br>3 |
| ASS     | 01              | X      | X      | X      |
| CC      | 02              | X      | X      | X      |
| VL      | 03              | X      | X      | X      |
| RP      | 04              | X      | X      | X      |
| VR      | 05              | X      | -      | -      |
| AUT     | 06              | X      | -      | -      |
| AUB     | 30              | X      | -      | -      |
| PB      | 31              | X      | -      | -      |
| VSC     | 40              | X      | -      | -      |
| HO      | 50              | X      | -      | -      |

In the event of cancellation and exchange requests, the element type of request is not significant (Coding = 0).

The following combinations are possible for replies:

| Service | Type of reply |          |          |          |          |         |
|---------|---------------|----------|----------|----------|----------|---------|
|         | Code          | ACC<br>4 | PRP<br>5 | PRT<br>6 | PRR<br>7 | RN<br>8 |
| ASS     | 01            | X        | X        | X        | X        | X       |
| CC      | 02            | X        | X        | X        | X        | X       |
| VL      | 03            | X        | X        | X        | X        | X       |
| RP      | 04            | X        | X        | X        | X        | X       |
| VR      | 05            | X        | -        | -        | X        | X       |
| AUT     | 06            | X        | -        | X        | X        | X       |
| AUB     | 30            | X        | -        | X        | X        | X       |
| PB      | 31            | X        | -        | X        | X        | X       |
| VSC     | 40            | X        | -        | -        | -        | X       |
| HO      | 50            | X        | -        | -        | -        | X       |

For replies to cancellation or exchange requests, only the codings 4 (confirmation) and 8 (negative reply) are possible for the element type of reply.

For replies to a rectification, only the codings 4 (confirmation) and 8 (negative reply) are possible.

### **17 - Serial number**

Length = 2, coding = numerical

Application texts are transmitted together in a message, that is to say with a particular dialogue number and connected by the serial number. The numbering is done in decreasing order.

The lowest value is "01".

### **18 - Type of text**

Length = 2, coding = numerical

See Code List B.5.18

## **3.3 Application text**

### **20 - Train**

Length = 5, coding = alphanumerical

#### *20A Train number*

In the requests, this is generally the number which the train has at the boarding station of the passenger or at the departure station of the car-carrying train.

In the confirmations, it is always the number which the train has at the boarding station of the passenger or the loading station of the car.

In the replacement proposals, it is the number of the proposed train.

#### *20B Original train number*

This is the train number in which the ticket to be exchanged was issued.

#### *20C Train number for return journey*

### **21 - Date**

Length = 4, coding = numerical

2 digits for the day

2 digits for the month

#### *21A Departure date*

In the requests and in the confirmations, this is the date of departure of the train from the passenger's boarding station or the departure date of the car-carrying train. In the replacement proposals, it is the departure date of the proposed train if this differs from that of the requested train.

*21B Original departure date*

This is the date of departure on the ticket to be exchanged.

*21C Loading date*

This is the car loading date at the departure station of the car-carrying train.

*21D Unloading date*

This is the date on which the car is unloaded at the arrival station of the car-carrying train.

*21E Date of breakfast*

This is given when the date of the meal is different from the departure date at boarding station.

*21F Date of lunch* (see element 21 E)

*21 G Date of dinner* (see element 21 E)

*21H Arrival date*

This is the arrival date of the train at the destination station of the passenger.

**22 - Station codes**

Length = 7, coding = numerical

2 digits for country code + 5 digits for station codes (as specified in *ERA TAP TSI Technical Document B.9*)

*22A Boarding station*

*22B Destination station*

*22C Starting station*

This is the first station of the journey to which the message refers.

*22D Final station*

This is the last station of the journey to which the message refers.

*22E Return station*

This is the code for the return station of a forward and return journey, if the final station is different from the starting station.

*22F First intermediate station*

This is the first (or only) intermediate station on the journey. It defines a stopping station or a station passed through on the train journey.

*22G Second intermediate station*

This is the second intermediate station in the journey. It defines a stopping station or a station passed through on the train journey.

**23 - Seats (number)**

Length = 2, coding = numerical

01 to 40 for VL  
01 to 16 for CC1  
01 to 36 for ASS and CC2

*23A Number of seats*

For partial cancellation, this is the number of remaining seats with following restrictions:

01 to 39 for VL  
01 to 15 for CC1  
01 to 35 for ASS and CC2

*23B Number of cancelled seats*

*23C Number of overbooked seats*

*23D Number of smoking seats*

*23E Number of non-smoking seats*

**24 - Class**

Length = 1, coding = alphanumerical

See Code List B.5.24

**25 - Berths (type and number)**

Length = 12, coding = numerical

1st + 2<sup>nd</sup> digits = Single (max. 18)  
3rd + 4<sup>th</sup> digits = Special (max. 18)  
5th + 6<sup>th</sup> digits = Double (max. 36)  
7th + 8<sup>th</sup> digits = T2 (max. 36)  
9th + 10th digits = T3 (max. 39)  
11<sup>th</sup> + 12th digits = T4 (max.40)  
h

Only the following combinations are possible:

1st + 2nd digits (value = 01) and 5th + 6th digit (value = 02)  
1st + 2<sup>nd</sup> digits (value = 01) and 9th + 10th digit (value = 03)  
5th + 6<sup>th</sup> digits (value = 02) and 9th + 10th digit (value = 03)

3rd + 4<sup>th</sup> digits (value=01) and 7th + 8th digit (value=02)

*25A Type and number of berths*

For partial cancellations, this is the number of remaining berths with following restrictions:

01 to 39 for VL

01 to 15 for CC1

01 to 35 for ASS and CC2

*25B Type and number of cancelled berths*

**26 - Meals**

Length = 6, coding = numerical

2 digits = Number of breakfasts

2 digits = Number of lunches

2 digits = Number of dinners

*26A Type and number of meals*

Refers, for partial cancellation, to the type and number of remaining meals.

*26B Type and number of cancelled meals*

**27 - Coach number**

Length = 3, coding = alphanumerical

Number of coach in which the seats are requested.

The element can be empty in some special cases:

- i.e.:
- cycle places without coach number
  - ferry places without coach number
  - bus places without coach number
  - overbooked seats

According to the general rules of the Technical Document, "empty" means filled with blanks.

**28 - Seat number**

Length = 3, coding = alphanumerical

*28A Number of a particular seat*

Number of the seat requested by the passenger.

Can also be "blank" (only in the case of berths) and then means any berth or berths in the coach in question.

*28B Number of a reference seat*

Number of the seat on which the allocation of the desired seats should be based; it must be the closest seat to the reference seat within the compartment concerned.

**29 - Category of vehicle/boat**

Length = 1, coding = numerical

See Code List B.5.29

*29A Vehicle category*

*29B Boat category*

*29C Category of the cancelled vehicle*

*29D Category of the cancelled boat*

### **30 - Vehicle registration**

Length = 10, coding = printable characters

### **31 - Number and ages of the passengers**

Length = 8, coding = numerical

- 1st digit = number of adults in 1st Class
- 2nd digit = number of children from 4 to 5 years old in 1st Class
- 3rd digit = number of children from 5 to 12 years old in 1st Class
- 4th digit = number of children from 12 to 15 years old in 1st Class
- 5th digit = number of adults in 2nd Class
- 6th digit = number of children from 4 to 5 years old in 2nd Class
- 7th digit = number of children from 5 to 12 years old in 2nd Class
- 8th digit = number of children from 12 to 15 years old in 2nd Class

In case of requests for a car carriage place only the element has to be filled with zeroes completely.

### **32 - Journey number**

Length = 1, coding = numerical

Serial number, indicating the order in which successive journeys are made. In the case of single journey, the journey number will be zero.

### **33 - Journey code**

Length = 1, coding = numerical

Shows whether the request refers to a single journey or to one of a number of sections of a journey.

See Code List B.5.33

### **34 - Reference number**

Length = 12, coding = numerical

The seats or meals originally booked which are to be cancelled or exchanged can be identified from the reference number:

The reference number formed according to the rules of each RS must be sufficiently reliable to ensure that places cannot be erroneously released by mistyped reference numbers.

The elements from the request:

- Train number
- Travel date
- Type of service

must be checked to comply with the booking referenced by the reference number given in the cancellation and partial cancellation request.

The reference number must be unique combined with the train number and the travel date. However it is recommended to use intrinsically unique reference numbers unique for one year.

2 digits for the reservation system, having allocated the seats or responsible for the ticket, and 10 digits for the actual reference number

*34A Reference number of reservation ticket to be cancelled*

*34B Reference number of accommodations*

Concerns the reservation of seats, couchettes, berths or car places.

*34C Reference number for breakfast*

Concerns the allocation of breakfast in the coach with meals at seat or in the restaurant car.

*34D Reference number for lunch*

Concerns the allocation of lunch in the coach with meals at seat or in the restaurant car.

*34E Reference number for dinner*

Concerns the allocation of dinner in the coach with meals at seat or in the restaurant car.

*34F Reference number of cancelled reservation ticket*

*34G Reference number of ticket issued*

This element describes the identification number of a pre-printed ticket or a printed ticket at the time of issue.

*34H Reference number of travel ticket to be cancelled*

*34I Reference number of cancelled ticket*

## **35 - Smoking/non-smoking**

Length = 1, coding = numerical



See Code List B.5.35

**36 - Position of seat**

Length = 4, coding = numerical

This field, which consists of 4 individual digits, gives the number of seats desired in the respective position (maximum 2).

Should the request for a certain seat be considered as mandatory, the digit concerned must be increased by 5. This is only used at present for "lower couchette places mandatory". 1 and 2 become 6 and 7.

The digits mean:

|           | Number          |            |                |
|-----------|-----------------|------------|----------------|
|           | Seats           | Couchettes | Sleeper berths |
| 1st digit | window          | upper      | upper          |
| 2nd digit | middle          | middle     | middle         |
| 3rd digit | gangway         | lower      | lower          |
| 4th digit | window isolated | -          | -              |

In the event of partial cancellation, this gives the number of the remaining seats for each place position.

**37 - Compartment request**

Length = 6, coding = numerical

The element consists of 3 sub-elements.

1st and 2nd positions: type of coach

See Code List B.5.37.1

3rd and 4th position: compartment with special features

See Code List B.5.37.2

5th and 6th position: special offer/allocations

See Code List B.5.37.3

The offer of the various Tour-Operators is released by agreement at various times before the date of travel depending on the particular train (e.g. 21 days or 3 days) for the general reservation service.

**38 - Position of compartment**

Length = 1, coding = numerical

This element indicates the desired level of the seats or the sleeping-car compartment

*38A Position of compartment/request*

See Code List B.5.38.1

*38B Position of compartment/allocation*

See Code List B.5.38.2

Concerns the level of the remaining seats or compartments in the case of partial cancellation.

**39 - Compartment with connecting door**

Length = 1, coding = numerical

1 = compartment with connecting door desired or allocated in the response

**40 - Compartment characteristics**

Length = 1, coding = numerical

See Code List B.5.40

**41 - Time**

Length = 4, coding = numerical

2 digits for the hour                      Local time in 24 hour system  
2 digits for the minute

*41A Departure time*

This is the departure time from the station where the passenger boards.

*41B Time of lunch*

*41C Time of dinner*

*41D Start of loading period*

*41E End of loading period*

*41F Start of unloading period*

*41G End of unloading period*

*41H Arrival time*

This is the arrival time at the station where the passenger alights. The element 41H has to be delivered even if it is marked as optional element in the message.

*41I Start of additional loading period*

*41J End of additional loading period*

*41K Start of additional unloading period*

*41L End of additional unloading period*

*41M Waiting time at first intermediate station*

Length of waiting time at the first intermediate station.

*41N Waiting time at second intermediate station*

Length of waiting time at the second intermediate station

*41O Departure time of the return journey*

Departure time of the return journey

## **42 - Tariff**

Length = 9, coding = numerical

1st and 2nd digits = 2-position reason for reduction (00 - 99)

Code as specified in Code List B.5.42

3rd, 4th, 5th and 6th digits = 4-position reason for reduction (0100 - 9999)

7th digit = Free

8th and 9th digits = Number of passengers with price reduction

Where the value "04" is shown in the 1st and 2nd digits, only the 4-position reason for reduction in digits 3 to 6 applies. If the 4-position reason for reduction is not used, digits 3 to 6 = zero.

*42A Tariff 1*

Marks a deviation from the normal fare. Concerns the remaining seats for partial cancellations.

*42B Tariff 2*

Marks a second deviation from the normal fare. Concerns the remaining seats for partial cancellations.

## **43 - Individual reservation tickets requested**

Length = 1, coding = numerical

The allocating system should give a reservation confirmation (that is to say a reservation ticket) for each reserved seat requested.

See code list B.5.43

## **44 - Another train acceptable**

Length = 1, coding = numerical

1 = Desired train

See code list B.5.44

The passenger accepts another train to the one requested.

#### **45 - Trailers**

Length = 1, coding = numerical

See Code List B.5.45

*45A Trailer category*

*45B Category of the cancelled trailer*

#### **46 - Number of dogs**

Length = 1, coding = numerical

#### **47 - Reservation system**

Length = 2, coding = numerical

Codes see element 1.

*47A Requesting reservation system*

This element describes the issuing railway coded with the reservation system code in case this railway is different from the requesting reservation system.

In case the message element is mandatory (correction message) the element should contain the issuing railway, even if it is the same as the code of the requesting reservation system.

–

*47B Reservation system with further seat offer*

This is the reservation system with a further seat offer to which the requesting reservation system can turn.

#### **48 - Train category**

Length = 2, coding = numerical

The element 48 (train category) shall not be processed in the messages.

#### **49 - Station names**

Length = 30, coding = printable characters

The method of writing given in *ERA TAP TSI Technical Document B.9* is used.

*49A Name of boarding station*

*49B Name of destination station*

*49C Name of loading station*

*49D Name of unloading station*

*49E Name of boarding station (start of journey)*

*49F Name of destination station (end of journey)*

Together with element 49E, this is the route of the passenger in connection with a car reservation with inclusive price calculation.

*49G Name of first intermediate station*

*49H Name of second intermediate station*

## **50 - Place allocation**

Length = 32, coding = by characters

The field consists of a maximum of 8 sub-elements, which are sub-divided as follows:

- 3 digits place number (alphanumerical)
- 1 digit place code (by characters)

The element can be empty in some special cases:

- i.e.:
- bicycle places without place number
  - ferry places without place number
  - bus places without place number
  - overbooked seats

According to the general rules of the Technical Document “empty” means filled with blanks.

The codes are described below:

### **1. Seats and seats with meals at seat**

See Code List B.5.50.1

### **2. Couchette berths**

See Code List B.5.50.2

### **3. Berths**

See Code List B.5.50.3

Codes to be used for places in compartments without separated gender. These codes are to be used only if the places have been requested by code “mixed” in element 40.

See Code List B.5.50.4

*50A Accommodation allocated*

*50B Additional accommodation allocated*

Enables the issue of further allocated seats, if all 8 sub-elements of element 50A are already filled.

However no from-to number sequences may be split from element 50A into the element 50B.

## **51 - Type of compartment allocated**

Length = 6, coding = numerical

The element consists of three sub-elements. 1st and 2nd positions: type of coach

See Code List B.5.51.1

3rd and 4th positions: compartment special features

See Code List B.5.51.2

5th and 6th positions: special offers/contingent

See Code List B.5.51.3

The offer of the various Tour-Operators is withdrawn by agreement at various times before the date of travel depending on the train (e.g. 21 days or 3 days) and then made available for the general reservations.

## **52 - Amount**

Length = 7, coding = numerical

5 digits for the euro

2 digits for the cent

The amount is given in euro, provided no other currency is defined in the element currency code in the same application text.

### *52A Amount (supplement, global price IRT)*

This element normally contains the total amount (supplement, IRT).

For inclusive amount calculation in car-carrying trains, the amount may also include the cost of travel tickets for the passengers.

For partial cancellations, the amount relates to the remaining seats.

Reservation fees are calculated by the issuing railway and are not included in the message exchange.

### *52B Amount of breakfast*

For partial cancellations, the amount relates to the remaining seats.

### *52C Amount of lunch*

For partial cancellations, the amount relates to the remaining seats.

### *52D Amount of dinner*

For partial cancellation, the amount relates to the remaining seats.

*52E Amount of refund*

If the amount differs from the amount of the original reservation, element 75 is delivered. For partial cancellation, the amount is the refund of the cancelled places + the amount of remaining places.

*52F Amount*

This element contains the product amount in 918E replies.

*52G VAT-amount*

The amount of VAT.

**53 - Number of the entry in loading list**

Length = 3, coding = numerical

**54 - Price calculation code**

Length = 1, coding = numerical

This gives the rules used by the allocating reservation system for the price calculation for car-carrying traffic.

See Code List B.5.54

**55 - Number of passengers**

Length = 4, coding = numerical

|           |                                   |
|-----------|-----------------------------------|
| 1st digit | = Number of adults in 1st Class   |
| 2nd digit | = Number of children in 1st Class |
| 3rd digit | = Number of adults in 2nd Class   |
| 4th digit | = Number of children in 2nd Class |

**56 - Change of train/date**

Length = 1, coding = numerical

Note about change in the customer's wishes regarding train number and/or date of travel.

See Code List B.5.56

Only the value = 1 is possible for an exchange

**57 - Change of station**

Length = 1, coding = numerical

Note about change in the customer's wishes regarding stations.

See Code List B.5.57

**58 - Number of supplements**

Length = 2, coding = numerical

Details of the number of supplements to be paid for.

**59 - Type of supplements**

Length = 1, coding = numerical

See Code List B.5.59

**60 - Number of night sectors**

Length = 1, coding = numerical

The number of night sectors is required for the exact calculation of the price in the national currency of the issuing reservation system.

The information only appears if the number of night sectors is greater than 1.

**61 - Request number**

Length = 2, coding = numerical

For combined requests, the request number enables a replacement proposal or a negative reply to be given to the appropriate request.

This element contains the serial number of the request.

**62 - Available services**

Length = 9, coding = alphanumerical

When the required service is sold out, this gives the services still available in the requested train or available services in an alternative train.

See Code List B.5.62

Each of the 9 positions may contain one of the above-mentioned codes. A maximum of 9 replacement proposals are possible.

**63 - Reply code**

Length = 3, coding = numerical

The code gives the reason for the negative reply.

See Code List B.5.63



**64 - Date of the original reservation**

Length = 5, coding = numerical

Display: YYDDD

Consists of the sub elements:

- Year: YY
- Day number: DDD

**65 - Undertaking providing the service**

Length = 1, coding = numerical

See Code List B.5.65

**66 - Text for special offer**

Length = 30, coding = printable characters

*66A Notices*

**67 - Type of price**

Length = 1, coding = numerical

See Code list B.5.67

**68 - Number of the original dialogue**

Length = 5, coding = numerical

**69 - Vehicle transport price only**

Length = 1, coding = numerical

1 = Vehicle transport price only

Indicates to the allocating system when making an inclusive price calculation that it must only calculate the cost for transporting the car.

**70 - Loading lower deck**

Length = 1, coding = numerical

See Code List B.5.70

**71 - Height**

Length = 3, coding = numerical

Details of vehicle height in centimetres

**72 - Free**

**73 - Partial price**

Length = 14, coding = numerical

The element consists of 3 sub-elements and details the composition of element 52

1st-5th digit = Tariff code

# European Railway Agency

ERA/TD/2009-08/INT: ANNEX B.5 of TAP TSI

---

6th-7th digit = Number of individual prices  
(e.g. passengers, compartments, etc.)

8th-14th digit = Individual price in euro

*73A Partial price 1*

*73B Partial price 2*

*73C Partial price 3*

The elements 73A, 73B and 73C are used for reservation, partial cancellation and exchange confirmations.

*73D Partial price 4*

*73E Partial price 5*

*73F Partial price 6*

The elements 73D, 73E and 73F are used for partial cancellation and complete cancellation confirmation for the price of the original reservation.

The element 73 provides a split of the prices in element 52A and 52E per tariff and person. It can be used in currency conversion to avoid rounding errors.

local price = persons-tariff-0 \* (rounded / converted price element 72 (tariff 0)) + persons-tariff-1 \* (rounded / converted price element 72 (tariff 1)) + persons-tariff-2 \* (rounded / converted price element 72 (tariff 2))

which is different from:

local price = total number of persons \* rounded / converted total price (Element 52A)

By using the partial price the prices remain additive (e.g. two persons pay the double price also in local currency).

Elements 73A/B/C correspond to the price in 52A, Elements 73D/E/F split the price of element 52E.

Example on partial price element:

One reservation with 2 adults (Tariff 72 and 1 child (tariff 73):

- 2 x Tariff 72 (Adult) partial price 22,60 €

- 1 x Tariff 73 (Child) partial price 15,40 €

total price: 60,60 €

- message element: "000720200022600073010001540000000000000000"

local currency SFR: 1 : 1,20 rounding up to 0.10 SFR

- simple conversion:  $60,60 * 1,20 = 72,72$

- → 72,80 SFR

- using partial price element:

- $22,60 * 1,20 = 27,12 \rightarrow 27,20$  SFR

- $15,40 \times 1,20 = 18,48 \rightarrow 18,50$  SFR  
 $\rightarrow 72,90$  SFR

**74 - Reason for cancellation**

Length = 2, coding = numerical

See Code List B.5.74

**75 - Mark of changed price**

Length = 1, coding = numerical

See Code list B.5.75

**76 - Code of the travel agent's organisation**

Length = 5, coding = numerical

**77 - Passenger with vehicle**

Length = 1, coding = numerical

See Code List B.5.77

**78 - Carrier**

Length = 4, coding = alphanumerical

See codes specified in *ERA TAP TSI Technical Document B.8.*

**79 - List of carriers**

Length = 36, coding = alphanumerical

The list of carriers comprises the following 9 sub-elements:

| No. | Element | L + C |
|-----|---------|-------|
| 78  | Carrier | 4 A   |
| 78  | Carrier | 4 A   |
| 78  | Carrier | 4 A   |
| 78  | Carrier | 4 A   |
| 78  | Carrier | 4 A   |
| 78  | Carrier | 4 A   |
| 78  | Carrier | 4 A   |
| 78  | Carrier | 4 A   |
| 78  | Carrier | 4 A   |

**80 - Country code of the requesting terminal**

Length = 2, coding = alphanumerical

Coding in accordance with *ISO standard 3166* 2-position alphabetical code

**81 – Service brand information**

Length = 40, coding = printable characters

The element is composed of three sub elements:

| NUM | Element                       | L+C  |
|-----|-------------------------------|------|
| 82  | Service brand code            | 4 N  |
| 83  | Abbreviation of service brand | 3 C  |
| 84  | Service brand name            | 33 C |

The element 81 has to be delivered even if it is marked as optional element in the message.

81 A – Service brand information for a return train

**82 – Service brand code**

Length = 4, coding = numerical

See Code List B.5.82

82 A – Service brand code for a return train

### **83 – Service brand abbreviation**

Length = 3, coding = printable characters

See Code List B.5.83

Abbreviation used for printing on RCT2 tickets.

### **84 – Service brand name**

Length = 33, coding = printable characters

See Code List B.5.84

Full text used for printing on RCT2 tickets.

### **85 to 87 - Not used**

### **88 – Original Cancellation Date**

Length = 6, coding = numerical YYMMDD

In case of a cancellation request on a reservation that was already cancelled before the allocating system has two options to react. It can return a negative reply with the appropriate error code indicating that the reservation was already cancelled.

As a second option the allocating system can return the cancellation confirmation again and must then indicate the date of the original cancellation in the reply message with using this element. This option can be used to limit the impact of errors in case of time out in a cancellation message exchange.

The date is given in the time zone of the allocating system.

### **89 – Original Cancelling railway**

Length = 1, coding = numerical

Codes from the reservation systems code list element 01.

In case of a cancellation request on a reservation that was already cancelled before the allocating system has two options to react. It can return a negative reply with the appropriate error code indicating that the reservation was already cancelled.

As a second option the allocating system can return the cancellation confirmation again and must then indicate the railway that made the original cancellation in the reply message with using this

element. This option can be used to limit the impact of errors in case of time out in a cancellation message exchange.

### 90 to 299 - Not used

### 300 - Availability information

Length = 8, coding = alphanumerical

Each element of availability information consists of the following sub-elements:

| No.  | Element                     | L + C |
|------|-----------------------------|-------|
| 308A | Fare code 1                 | 4A    |
| 23D  | Number of smoking seats     | 2 N   |
| 23E  | Number of non-smoking seats | 2 N   |

*300A Availability information 1*

*300B Availability information 2*

*300C Availability information 3*

*300D Availability information 4*

*300E Availability information 5*

*300F Availability information 6*

*300G Availability information 7*

**302 - Details of journey segment**

**Length = 128, coding = printable characters**

Each element of the journey segment details consists of the following sub-elements:

| <b>No</b> | <b>Element</b>                   | <b>L + C</b> |
|-----------|----------------------------------|--------------|
| 20A       | Train number                     | 5 A          |
| 315       | Product identifier               | 3N           |
| 49A       | Name of boarding station         | 30 C         |
| 49B       | Name of destination station      | 30 C         |
| <b>81</b> | <b>Service brand information</b> | <b>40 C</b>  |
| 326A      | Departure date                   | 6N           |
| 41A       | Departure time                   | 4N           |
| 326B      | Arrival date                     | 6 N          |
| 41H       | Arrival time                     | 4N           |

- 302A Journey segment details 1*
- 302B Journey segment details 2*
- 302C Journey segment details 3*
- 302D Journey segment details 4*
- 302E Journey segment details 5*
- 302F Journey segment details 6*

**305 - Currency code**

Length = 3, coding = alphanumerical

This element describes the currency of a price or a price group. If this element is not given, the price is given in euro. The currency is defined using the ISO 4217 codes "*Codes for the representation of currencies and funds*".

**306 - Customer profile**

Length = 30, coding = printable characters

This element could be used to define a customer identification.

**307 - File reference number**

Length = 12, coding = alphanumerical

This element identifies a certain sales transaction in a product/sales file.

**308 - Fare price code**

Length = 4, coding = alphanumerical

This element can be used to give special types of price, price ranges or price stages.

The 1st + 2nd positions of this element contain a code which designates the accommodation category.

See Code List B.5.308

The 3<sup>rd</sup> and 4<sup>th</sup> position contain an arbitrary code used to provide a unique link between the availability information elements (element 300) and the tariff information element (element 328) in one application text. The code is unique within one application text only. The code has no meaning as a standalone code.

*308A Fare code 1*

*308B Fare code 2*

*308C Fare code 3*

### **311 - Number of combined messages**

Length = 2, coding = numerical

This element gives the number of combined requests which belong to a special message.

### **314 - Product code**

Length = 10, coding = alphanumerical

This element can be used to identify a certain product in a product catalogue.

### **315 - Product identifier**

Length = 3, coding = numerical

This element can be used to identify a certain part of a product.

1st and 2nd position = service (element 15), and

3rd position = partial identifier of product from the product catalogue .

### **316 - Purchase conditions**

Length = 3, coding = numerical .

1st digit: Booking restrictions

See code list B.5.316.1

2nd digit: Conditions for use

See code list B.5.316.2

3rd digit: Refund conditions

See code list B.5.316.3

### **318 - Service code**

Length = 2, coding = alphanumerical

The first position contains the physical class and the second contains the service level. 1st position:

See code list B.5.318 2nd position " " or "0" = Not significant *318A Service code 1*

*318B Service code 2 (not used at present)*



*318C Service code 3 (not used at present)*

**319 - Service identifier**

Length = 1, coding = numerical

See Code List B.5.319

*319A Catering identifier*

*319B Luggage identifier*

*319C Bicycle identifier*

*319D Disabled equipment identifier*

*319E Hotel identifier*

*3 19F Hire car identifier*

*319G Connection identifier*

*319H Public transport identifier*

**320 - Service information type**

Length = 1, coding = numerical

See Code List B.5.320

**321 - Text groups - identifier**

Length = 2, coding = numerical

The first position contains the group number and the second position the group element.

If application texts are combined in a request or reply, this element allows the identification of a group and its elements. Each position is an independent serial number: for groups the first position, and for the application texts within the group the second position. The numbering is in descending order for both positions, and the lowest value is 1.

**322 - Text - identifier**

Length = 3, coding = numerical

3-position identifier for a free text format in the language of the receiver of the message.

*322A Conditions of use*

*322B Product information*

**326 - Date**

Length = 6, coding = numerical

2 digits for the day

2 digits for the month

2 digits for the year

326A *Departure date*

326B *Arrival date*

326C *Departure date of the return journey*

**327 - Tariff code**

Length = 2, coding = alphanumerical

Possible values: See Code List B.5.327

**Different definition when Application Version = 1 in Element 9**

Length = 4, coding = alphanumerical

Possible values: reserved

327A *Tariff code 1*

327B *Tariff code 2*

327C *Tariff code 3*

327D *Tariff code 4*

**328 - Tariff Table**

Length = 13, coding = alphanumerical

Each element in the Tariff Table consists of the following sub-elements:

| No.  | Element       | L + C |
|------|---------------|-------|
| 308A | Fare code 1   | 4A    |
| 67   | Type of price | 1 N   |
| 327A | Tariff code 1 | 2A    |
| 327B | Tariff code 2 | 2 A   |
| 327C | Tariff code 3 | 2 A   |
| 327D | Tariff code 4 | 2 A   |

**Different definition when Application Version = 1 in Element 9**

Length = 21, coding = alphanumerical

Each element in the Tariff Table consists of the following sub-elements:

| No.  | Element       | L + C |
|------|---------------|-------|
| 308A | Fare code 1   | 4A    |
| 67   | Type of price | 1 N   |
| 327A | Tariff code 1 | 4A    |

|      |               |     |
|------|---------------|-----|
| 327B | Tariff code 2 | 4 A |
| 327C | Tariff code 3 | 4 A |
| 327D | Tariff code 4 | 4 A |

**329 - Tariff Table 2**

Length = 26, coding = alphanumerical

The element Tariff Table 2 consists of the following sub-elements:

| No. | Element      | L + C |
|-----|--------------|-------|
| 328 | Tariff Table | 13 A  |
| 328 | Tariff Table | 13 A  |

**Different definition when Application Version = 1 in Element 9**

Length = 42, coding = alphanumerical

The element Tariff Table 2 consists of the following sub-elements:

| No. | Element      | L + C |
|-----|--------------|-------|
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |

**330 - Tariff Table 4**

Length = 52, coding = alphanumerical

The element Tariff Table 4 consists of the following sub-elements:

| No. | Element      | L + C |
|-----|--------------|-------|
| 328 | Tariff Table | 13 A  |
| 328 | Tariff Table | 13 A  |
| 328 | Tariff Table | 13 A  |
| 328 | Tariff Table | 13 A  |

**Different definition when Application Version = 1 in Element 9**

Length = 84, coding = alphanumerical

The element Tariff Table 4 consists of the following sub-elements:

| No. | Element      | L + C |
|-----|--------------|-------|
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |

**331 - Tariff Table 8**

Length = 104, coding = alphanumerical

The element Tariff Table 8 consists of the following sub-elements:

| <b>No.</b> | <b>Element</b> | <b>L + C</b> |
|------------|----------------|--------------|
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |

**Different definition when Application Version = 1 in Element 9**

Length = 168, coding = alphanumerical

The element Tariff Table 8 consists of the following sub-elements:

| <b>No.</b> | <b>Element</b> | <b>L + C</b> |
|------------|----------------|--------------|
| 328        | Tariff Table   | 21 A         |
| 328        | Tariff Table   | 21 A         |
| 328        | Tariff Table   | 21 A         |
| 328        | Tariff Table   | 21 A         |
| 328        | Tariff Table   | 21 A         |
| 328        | Tariff Table   | 21 A         |
| 328        | Tariff Table   | 21 A         |
| 328        | Tariff Table   | 21 A         |
| 328        | Tariff Table   | 21 A         |

**332 - Tariff Table 16**

Length = 208, coding = alphanumerical

The element Tariff Table 16 consists of the following sub-elements:

| <b>No.</b> | <b>Element</b> | <b>L + C</b> |
|------------|----------------|--------------|
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |
| 328        | Tariff Table   | 13 A         |

|     |              |      |
|-----|--------------|------|
| 328 | Tariff Table | 13 A |
| 328 | Tariff Table | 13 A |
| 328 | Tariff Table | 13 A |
| 328 | Tariff Table | 13 A |

**Different definition when Application Version = 1 in Element 9**

Length = 336, coding = alphanumerical

The element Tariff Table 16 consists of the following sub-elements:

| No. | Element      | L + C |
|-----|--------------|-------|
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |
| 328 | Tariff Table | 21 A  |

## **Appendix A - Measures for communication protocols**

### **A.1 - Principles**

Rules which are to be applied by the requesting reservation system, if a message (request or reply) cannot be sent.

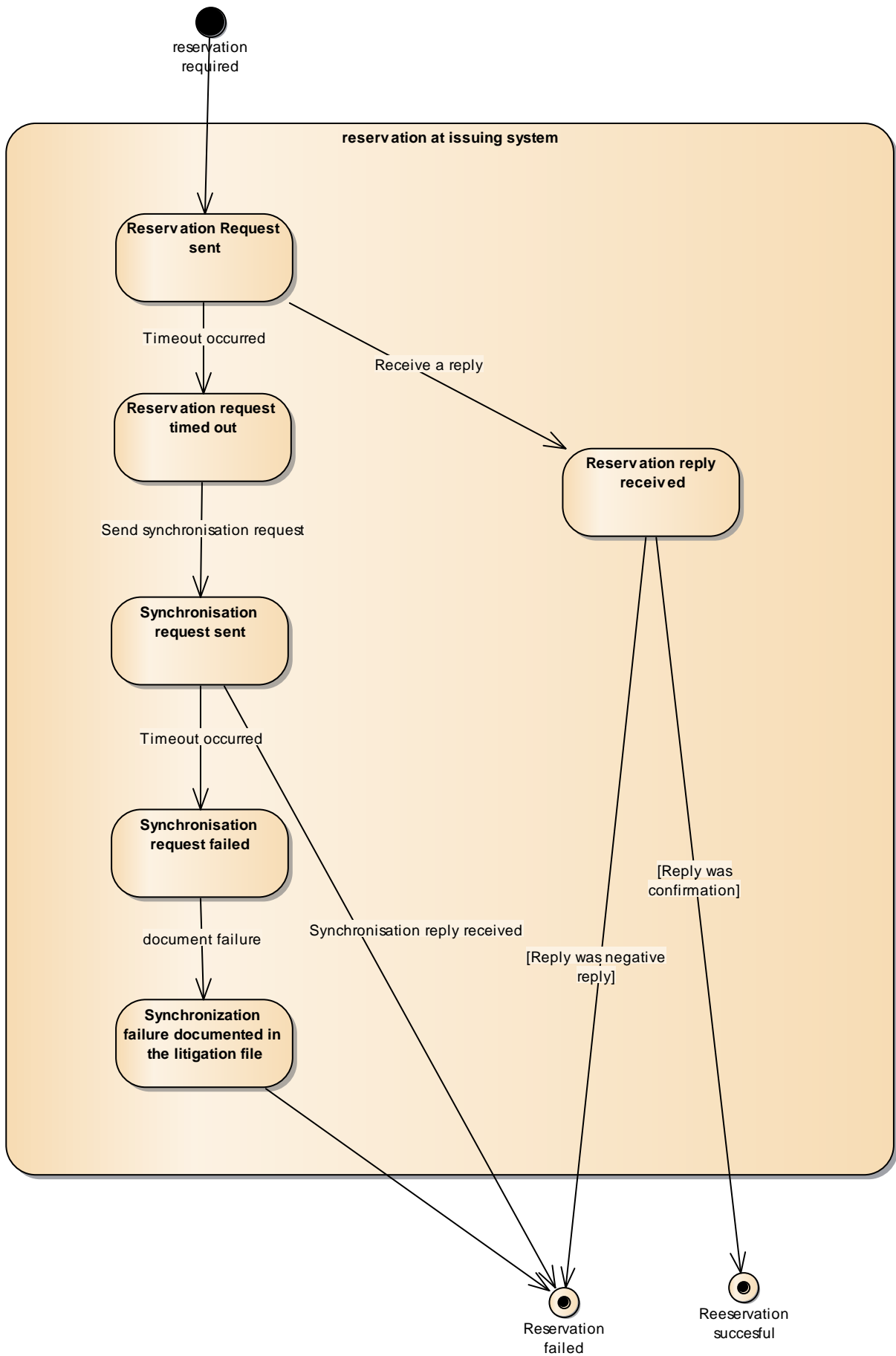
#### **A.1.1 - Request message**

- Original message = repetition of the request
- Correction = inputting into the litigation file (human readable text prepared for explanation of the problem)
- Synchronisation message = inputting of the request concerned into the litigation file.

#### **A.1.2 - Reply message**

- to an original message
  - Confirmation = internal cancellation
  - Negative reply = nothing to be done
- to a correction request = nothing needs to be done
- to a synchronisation request = nothing to be done

stm Reservation



## **A.2 - Exchange protocol at application level**

### **A.2.0 - General**

This transmission protocol can be used regardless of the transmission system used. It concerns only the requesting and replying applications.

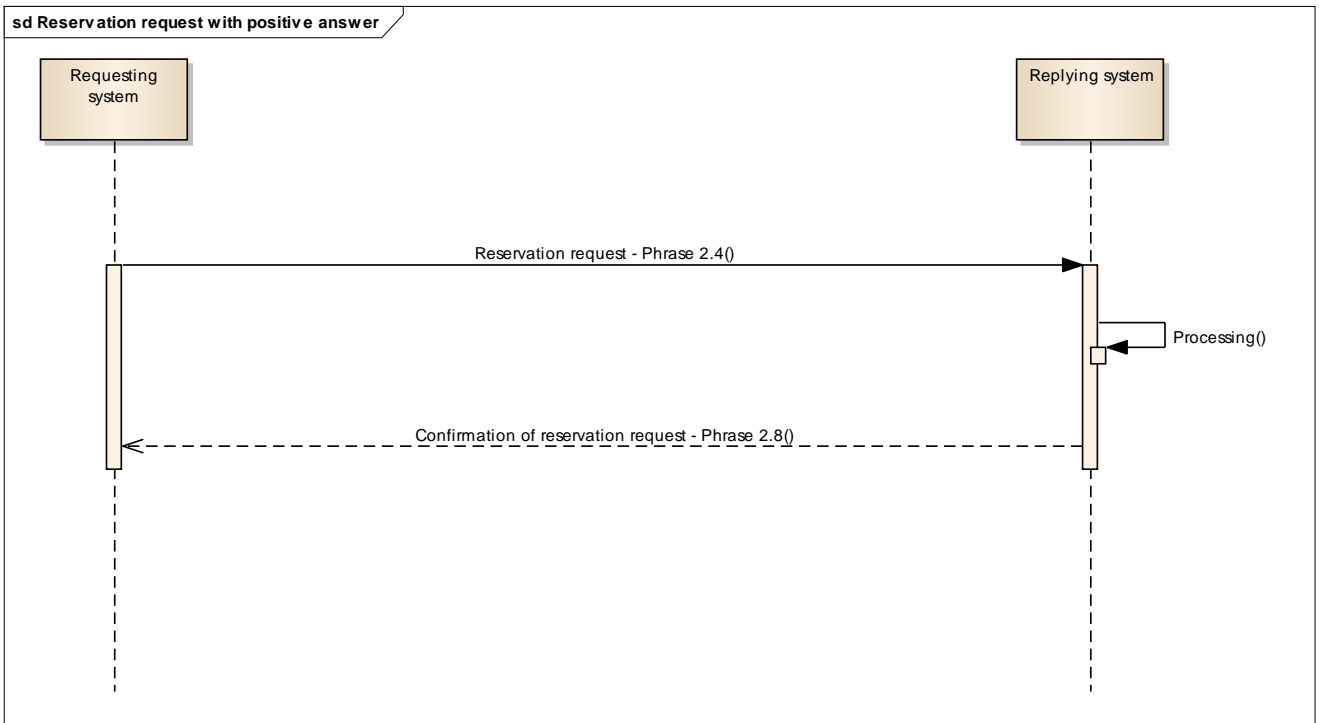
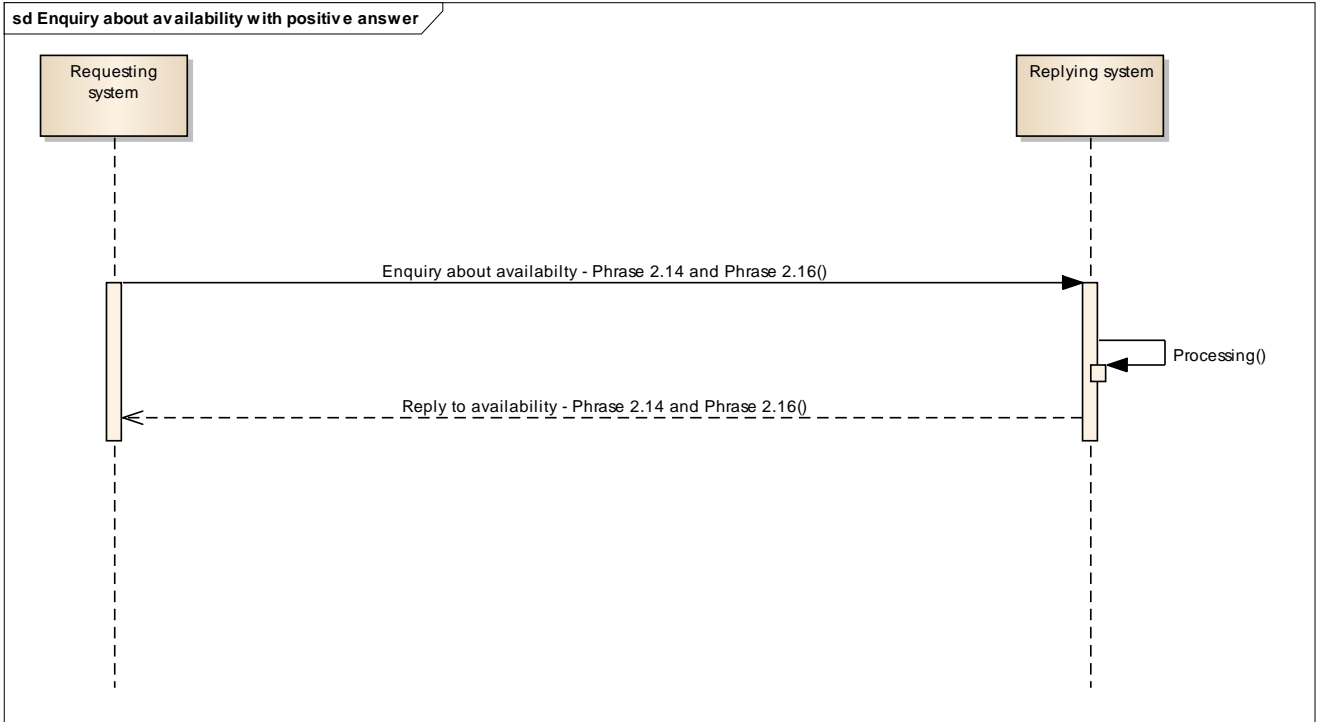
The connection between the terminals and systems to which they are connected, are the exclusive responsibility of these systems.

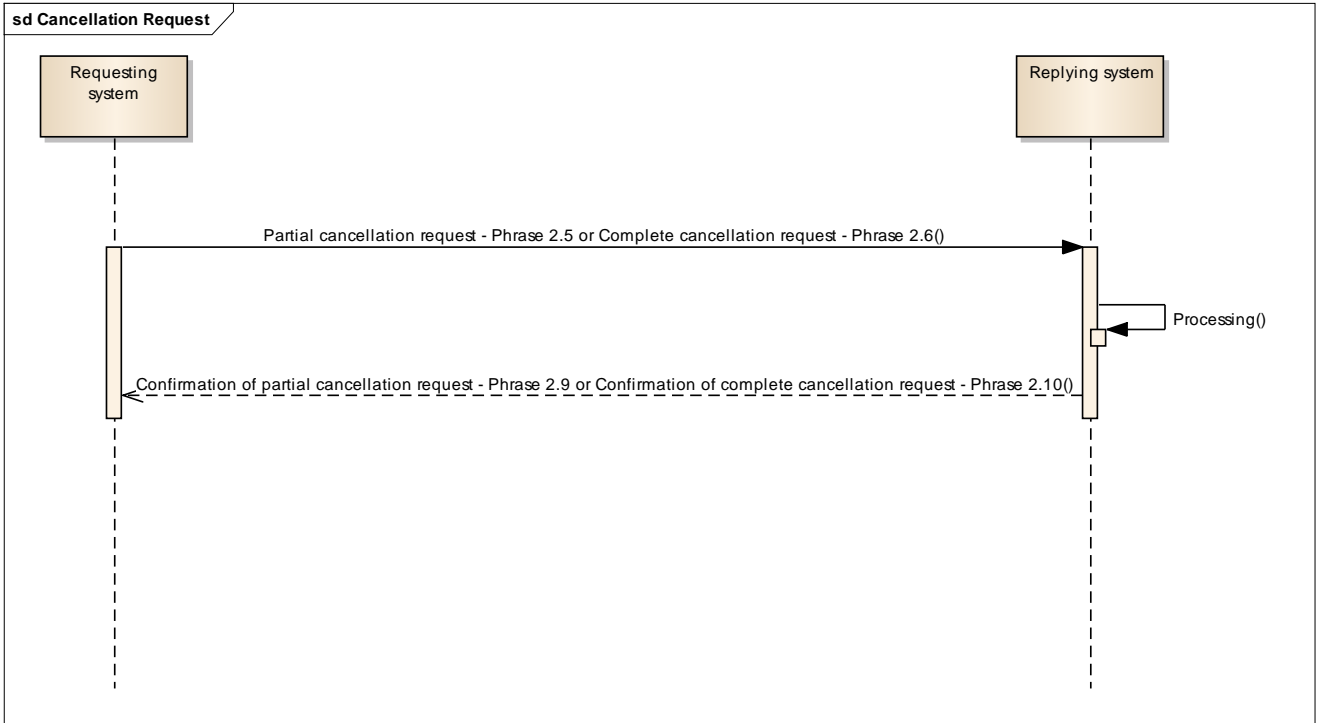
A requesting system, which has sent a request to the replying system for synchronising the system, uses the rules given in point 3.1, element 10 depending on the code received in the reply.

If a replying system receives a synchronisation request before sending the reply to the request concerned, then in principle it should not reply to the original request.



A.2.1 - Normal operation



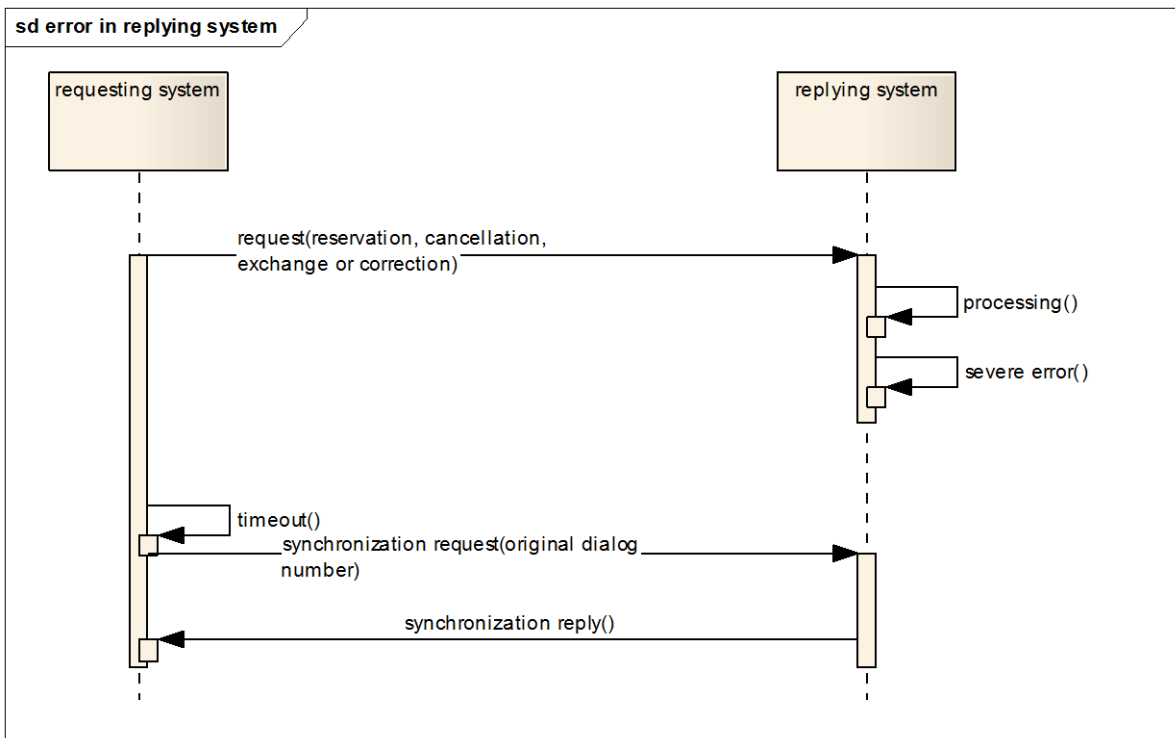


**A.2.2 - Defect in replying system, before the reply can be sent**

If, after sending a request, the requesting system has not received a reply (from the replying system) after a time "t", it sends a synchronising request to the replying system.

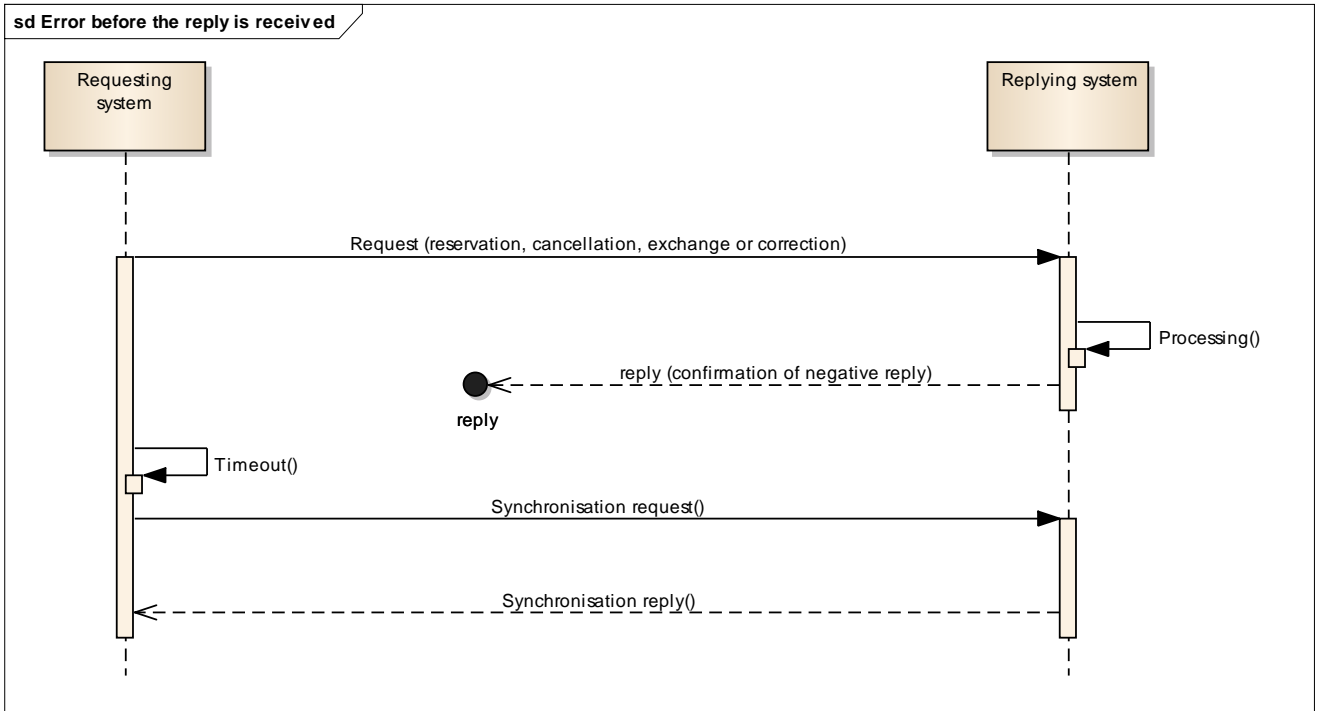
After restoration of the service, the replying system analyses the situation and addresses the reply to the synchronising request using the reply codes given in point 3.1, element 10.

No synchronising request can be given for a synchronising request.



**A.2.3 - Defect before the reply is received from the replying system**

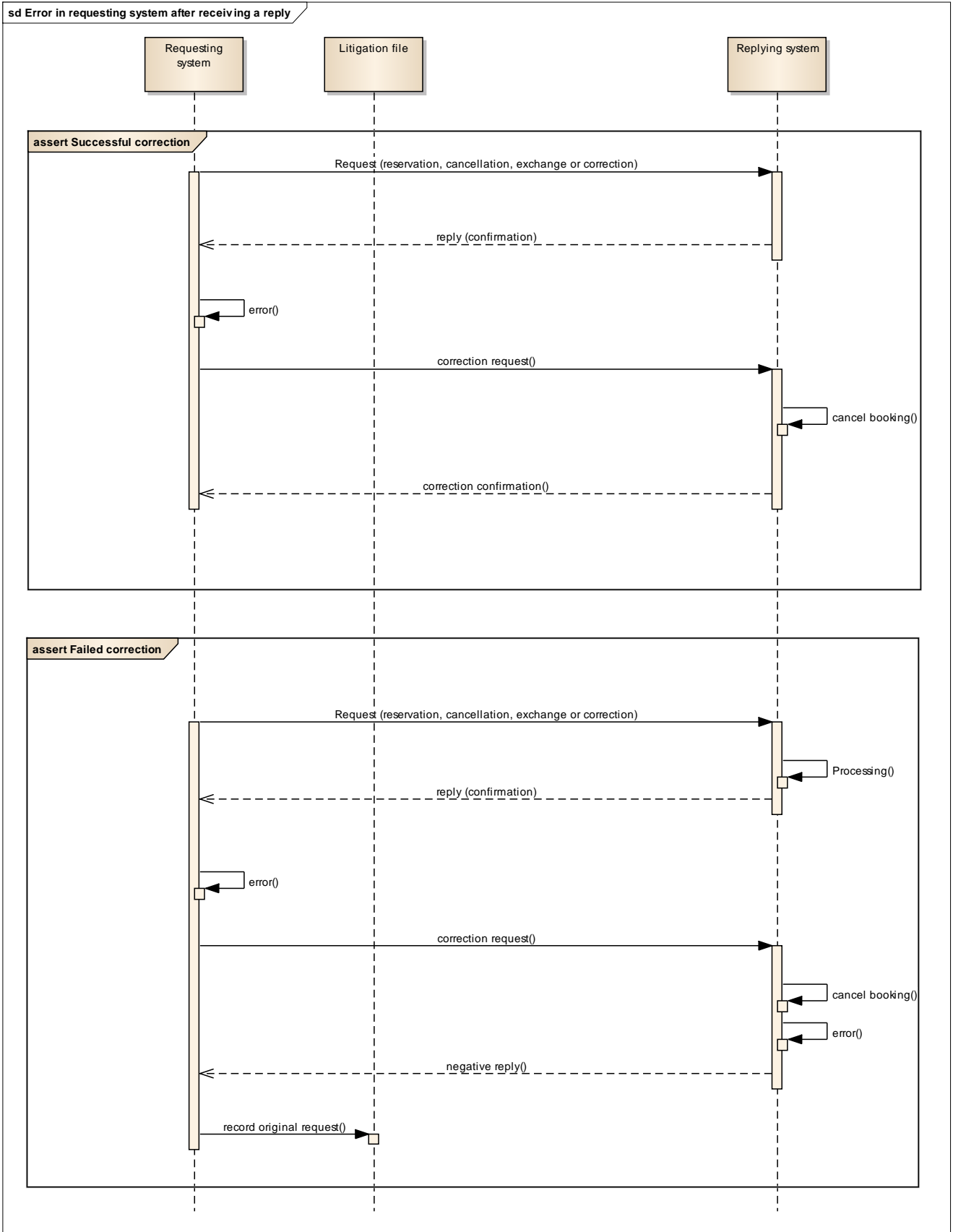
When service is resumed the requesting system sends a synchronising request for the dialogue concerned to the replying system.



**A.2.4 - Defect in requesting system after receipt of reply from the replying system**

When operation is resumed, if the reply involves a confirmation and if the document cannot be prepared, the requesting system sends a correction request to the replying system. If this request results in a negative reply from the replying system, the requesting system enters the request in the litigation file.

sd Error in requesting system after receiving a reply



**A.2.5 - The requesting system is unable to use the confirmation received**

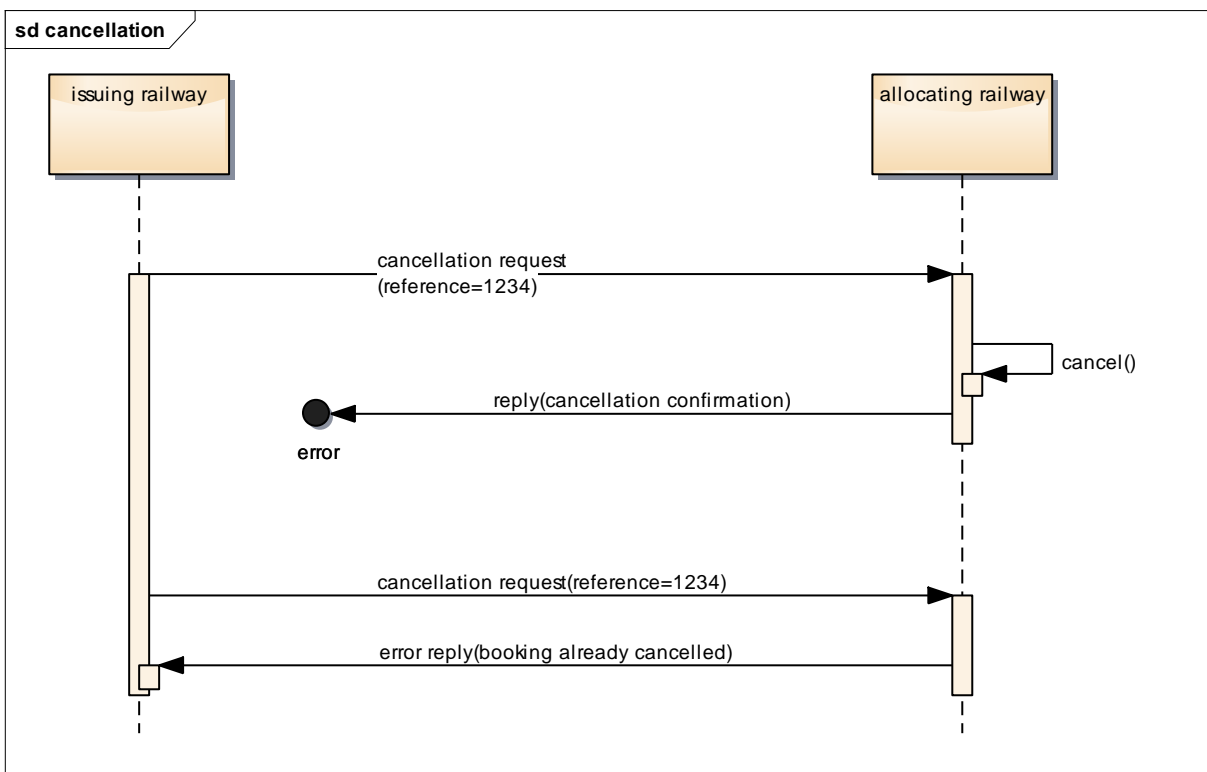
If, for any reason, the requesting system cannot send confirmation of an original request or confirmation of a partial cancellation to the requesting terminal, the requesting system sends a correction request to the replying system. In the case of a negative reply, the event shall be recorded in the litigation file.

**A.2.6 - Repeated requests on Cancellation**

The allocating railway can support different scenarios on repeated requests for a cancellation:

Scenario 1: Negative reply on already cancelled reservation

The allocating system returns a negative reply on a request for a reservation already cancelled.



Scenario 2: Repeated reply on already cancelled reservation

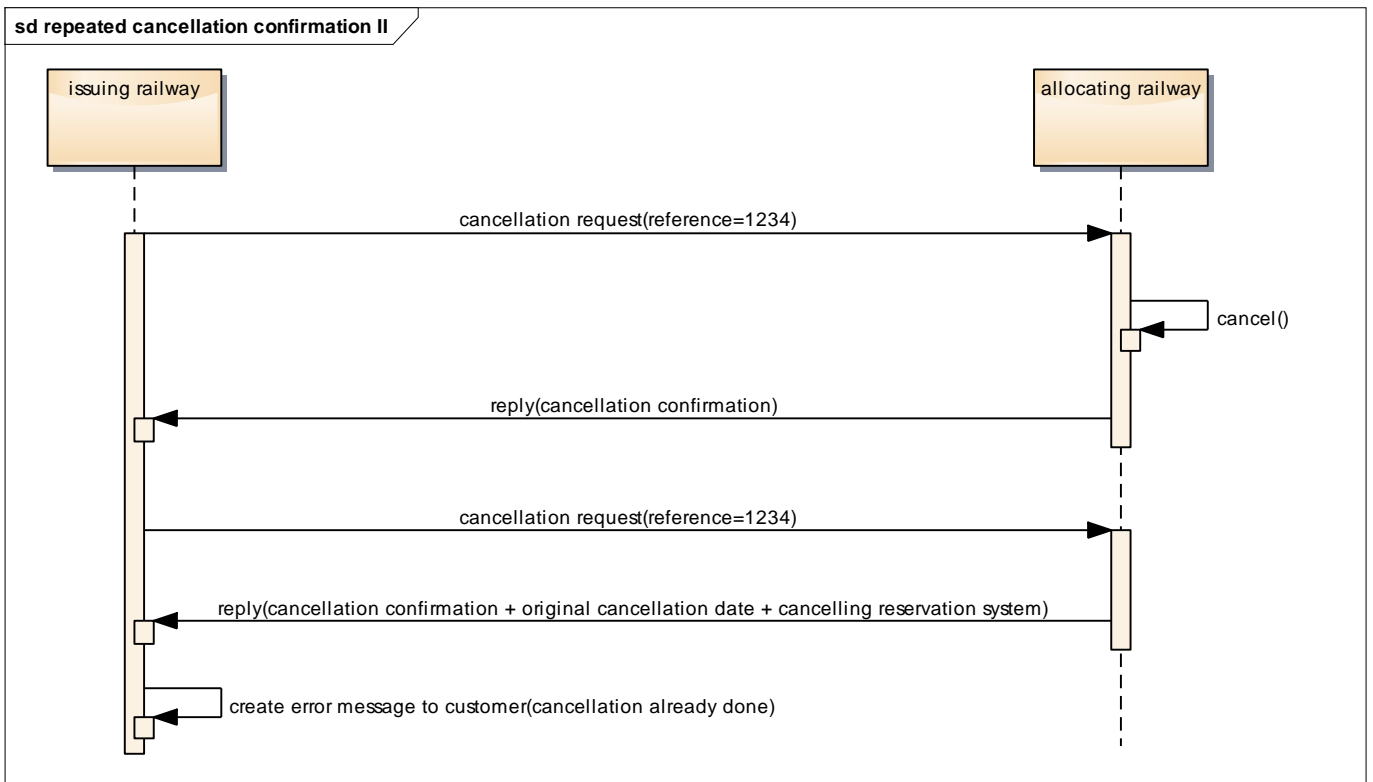
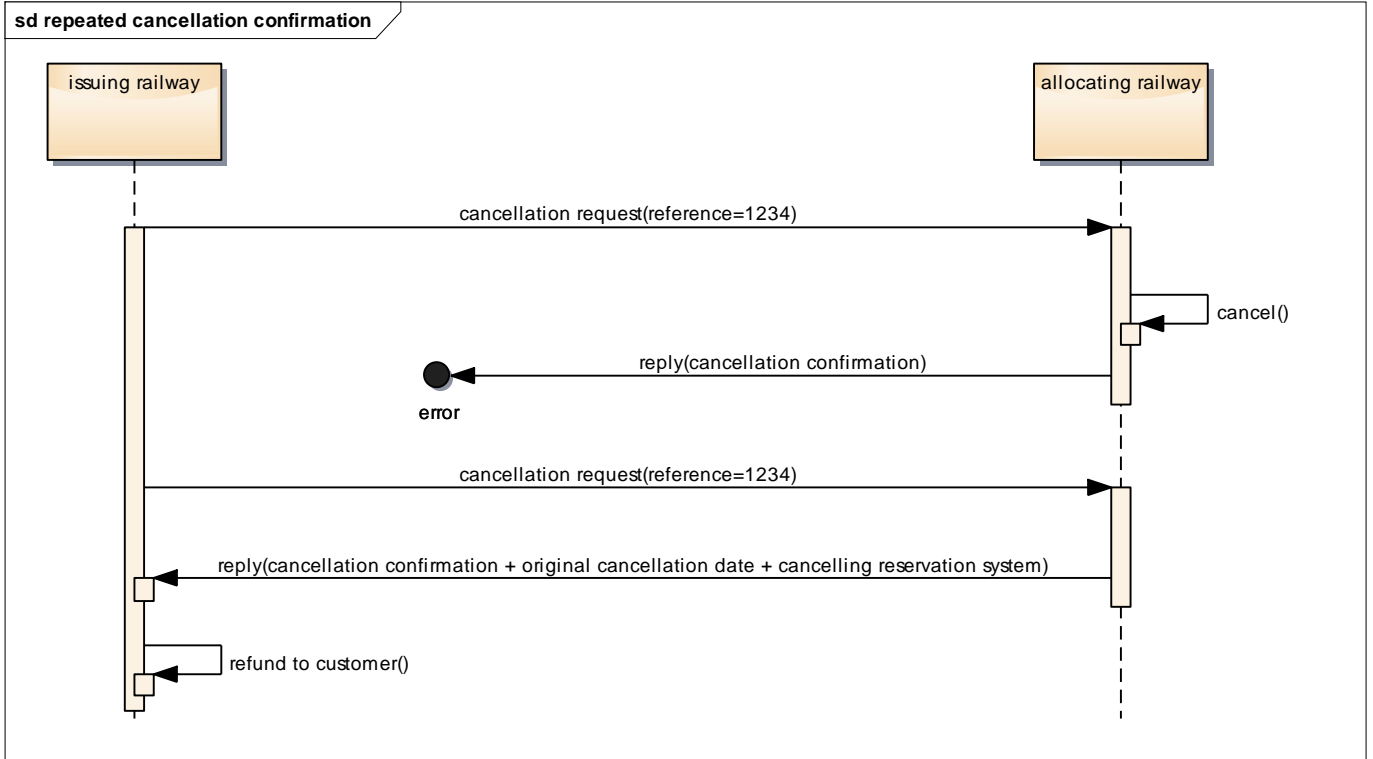
The allocating system returns a repeated confirmation of the cancellation indicating the original cancelling railway and the original cancellation date to indicate that this confirmation has already been sent.

The issuing system must ensure the refund is given to the customer only one time. Thus it has to check whether the cancellation confirmation had already been forwarded to the customer or not.

In case the cancellation was originally made by another issuer no refund should be given to the customer without ensuring that there has not been a refund yet.

# European Railway Agency

ERA/TD/2009-08/INT: ANNEX B.5 of TAP TSI





## **4 Bibliography**

### **4.1 ERA Technical Documents**

*ERA TAP TSI Technical Document B.6: Electronic seat/berth reservation and electronic production of transport documents - Transport documents (RCT2 Standard), Version 1.2 FINAL, 25.02.2015*

*ERA TAP TSI Technical Document B.7: International Rail Ticket for Home Printing, Version 1.2 FINAL, 25.02.2015*

*ERA TAP TSI Technical Document B.8: Standard numerical coding for railway undertakings, infrastructure managers and others companies involved in rail-transport chains, Version 1.2 FINAL, 25.02.2015*

*ERA TAP TSI Technical Document B.9: Standard numerical coding of locations, Version 1.2 FINAL, 25.02.2015*

### **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*