NDC SeatAvailability 18.1

Web Services Implementation Guide

Amadeus Altea New Distribution Capability
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1 Interface Overview

1.1 Short Description
SeatAvailability verb is called to return a seatmap for the selected segment with or without the prices associated to the seats.

1.2 Current Scope
Following functionalities are currently in scope of SeatAvailability verb:
- Seatmap request from an Offer
- Seatmap request from an Order
Seatmap with price specificities:
- Prices are supported only for Seatmap request with 9 passengers or less. In case of seatmap with price is requested for a larger group of passenger, the seatmap will be returned without the prices.

1.3 Out of Scope
The following functionalities are not supported via this function at this time:
- Request standalone seatmap

1.4 Prerequisites
In order to use SeatAvailability 18.1 verb, the user needs to have at least one of the following:
- An Offer which is still valid
- An Order which can still be retrieved

2 Building A Query

2.1 Functional Description
Here is a class diagram describing the SeatAvailabilityRQ xml:
2.2 Implementation
This section describes the implementation of the input message SeatAvailabilityRQ.

2.2.1 Party
NDC Message/ Transaction Party(s) information. This element contains the Amadeus office in which the query is processed.
Here is an example of how this element could be filed.

<table>
<thead>
<tr>
<th>PartyDesignation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>AgencyID</td>
<td>1</td>
<td>M</td>
<td>SeatAvailabilityRQ/Party/Sender/TravelAgency/AgencyID</td>
<td>This information is not used in the seatmap process.</td>
</tr>
</tbody>
</table>

```xml
<Party>
  <Sender>
    <TravelAgency>
      <AgencyID>NCE6X0100</AgencyID>
    </TravelAgency>
  </Sender>
</Party>
```
2.2.2 CoreRequest
This element is used to indicate the Offer or the Order for which the seatmap is requested.

2.2.2.1 Offer

<table>
<thead>
<tr>
<th>PartyDesignation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offer Item ID</td>
<td>1</td>
<td>M</td>
<td>SeatAvailabilityRQ/Request/CoreRequest/Offer/OfferItemID</td>
<td>Reference to the air offer item for which seatmap is requested</td>
</tr>
<tr>
<td>Owner Code</td>
<td>1</td>
<td>M</td>
<td>SeatAvailabilityRQ/Request/CoreRequest/Offer/OwnerCode</td>
<td>Owner of the offer</td>
</tr>
<tr>
<td>Passenger reference</td>
<td>0..N</td>
<td>O</td>
<td>SeatAvailabilityRQ/Request/CoreRequest/Offer/PaxRefID</td>
<td>Passengers for which seatmap is requested. If empty, all passengers are taken into account to build the seatmap.</td>
</tr>
<tr>
<td>Flight reference</td>
<td>1</td>
<td>M</td>
<td>SeatAvailabilityRQ/Request/CoreRequest/Offer/PaxSegmentRefID</td>
<td>Segment for which the seatmap is requested. Mandatory as Seatmap can only be returned for one segment.</td>
</tr>
</tbody>
</table>

```xml
<CoreRequest>
  <Offer>
    <OfferItemID>OFFER_ID1</OfferItemID>
    <OwnerCode>6X</OwnerCode>
    <PaxRefID>PAX1</PaxRefID>
    <PaxSegmentRefID>SEG2</PaxSegmentRefID>
  </Offer>
</CoreRequest>
```

2.2.2.2 Order

<table>
<thead>
<tr>
<th>PartyDesignation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order ID</td>
<td>1</td>
<td>M</td>
<td>SeatAvailabilityRQ/Request/CoreRequest/Order/OrderID</td>
<td>Reference to the order for which seatmap is requested</td>
</tr>
</tbody>
</table>

```xml
<CoreRequest>
  <Offer>
    <OfferItemID>OFFER_ID1</OfferItemID>
    <OwnerCode>6X</OwnerCode>
    <PaxRefID>PAX1</PaxRefID>
    <PaxSegmentRefID>SEG2</PaxSegmentRefID>
  </Offer>
</CoreRequest>
```
### Owner Code

<table>
<thead>
<tr>
<th>Owner Code</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Owner of the order</th>
</tr>
</thead>
</table>

### Passenger reference

<table>
<thead>
<tr>
<th>Passenger reference</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Passenger for which seatmap is requested. If empty, all passengers are taken into account to build the seatmap.</th>
</tr>
</thead>
</table>

### Flight reference

<table>
<thead>
<tr>
<th>Flight reference</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Segment for which the seatmap is requested. Mandatory as Seatmap can only be returned for one segment.</th>
</tr>
</thead>
</table>

### BookingID

<table>
<thead>
<tr>
<th>BookingID</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Associated record locator</th>
</tr>
</thead>
</table>

### AirlineDesignCode

<table>
<thead>
<tr>
<th>AirlineDesignCode</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Record locator's associated airline</th>
</tr>
</thead>
</table>

```xml
<CoreRequest>
  <Order>
    <OrderID>6X_ABC123</OrderID>
    <OwnerCode>6X</OwnerCode>
    <PaxRefID>PAX1</PaxRefID>
    <PaxSegmentRefID>SEG2</PaxSegmentRefID>
  </Order>
</CoreRequest>
```

### 2.2.3 Paxs

<table>
<thead>
<tr>
<th>PassengerDesignation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passenger</td>
<td>1..N</td>
<td>M</td>
<td>SeatAvailabilityRQ/Request/Pax/ Pax</td>
<td>Describes the type of the passenger. Possible values are: ADT, CHD. When not present, ADT is considered by default.</td>
</tr>
<tr>
<td>Passenger Type</td>
<td>1</td>
<td>O</td>
<td>SeatAvailabilityRQ/Request/Pax/ Pax/PTC</td>
<td>passenger's family name. Mandatory when Individual structure is used.</td>
</tr>
</tbody>
</table>

<p>| Passenger Surname    | 1          | O      | SeatAvailabilityRQ/Request/Pax/ Pax/Individual/Surname | passenger's family name. Mandatory when Individual structure is used. |</p>
<table>
<thead>
<tr>
<th>Field</th>
<th>Min</th>
<th>Max</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passenger First Name</td>
<td>1</td>
<td>O</td>
<td>Passenger's first name(s)</td>
</tr>
<tr>
<td>Passenger Name Title</td>
<td>1</td>
<td>O</td>
<td>Name Title. Examples: MR, MRS, DR</td>
</tr>
<tr>
<td>Passenger Birth Date</td>
<td>1</td>
<td>O</td>
<td>Passenger birth date. Example: YYYY-MM-DD. Note that there is no check on the consistency of the date entered in relation to the type of passenger. Example: CHD could be entered as passenger's type with a birthdate corresponding to an adult.</td>
</tr>
</tbody>
</table>

### Card Information

<table>
<thead>
<tr>
<th>Field</th>
<th>Min</th>
<th>Max</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequent Flyer Airline Code</td>
<td>1</td>
<td>O</td>
<td>The 2-letters code of the Airline sponsoring the program. Example: 6X, 7S</td>
</tr>
<tr>
<td>Frequent Flyer Card Number</td>
<td>1</td>
<td>O</td>
<td>The number identifying the Frequent Flyer will be validated during the seatmap process.</td>
</tr>
</tbody>
</table>

### Requested Services

0..N O SeatAvailabilityRQ/Request/Paxs/Pax/Remark/RemarkText

- Frequent flyer card.
- Customer Special Service Request (SSR) and customer keyword elements (SK)

```xml
<Paxs>
  <Pax>
    <PaxID>PAX1</PaxID>
    <PTC>ADT</PTC>
    <Individual>
      <Surname>SMITH</Surname>
      <GivenName>JOHN</GivenName>
      <TitleName>MR</TitleName>
    </Individual>
    <LoyaltyProgramAccount>
      <Carrier>
        <AirlineDesigCode>6X</AirlineDesigCode>
      </Carrier>
      <AccountNumber>11111NDC</AccountNumber>
    </LoyaltyProgramAccount>
  </Pax>
</Paxs>
```
2.2.4 ResponseParameters

This element is optional. It could be used for following purposes:

- Activate the Pricing Option to trigger a seatmap with price process. With this option, the seatmap reply contains pricing information such as prices and tax details, for the seats defined as chargeable in the seatmap.

In case the prices are not available, a warning is returned along with the standard seatmap. Please refer to "Warnings" section on "Receiving a reply" part.

- Override the prices currency. It is possible to override the currency of the sale by specifying the equivalent currency code.

2.2.4.1 Pricing parameters

<table>
<thead>
<tr>
<th>Parameters Designation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing Flag</td>
<td>1</td>
<td>O</td>
<td>SeatAvailabilityRQ/Request/ResponseParameters/PricingParameter/SimplePricingInd</td>
<td>The SimpleInd indicator attribute is used to indicate if a seatmap with price is requested. If SimplePricingInd=true, a seatmap with price is triggered.</td>
</tr>
<tr>
<td>Override of the POS currency</td>
<td>1</td>
<td>O</td>
<td>SeatAvailabilityRQ/Request/ResponseParameters/PricingParameter/OverrideCurCode</td>
<td>It is possible to override the currency of the sale by specifying the equivalent currency code. Format is a 3 letters code. Example: GBP or USD.</td>
</tr>
</tbody>
</table>

```xml
<ResponseParameters>
  <PricingParameter>
    <OverrideCurCode>GBP</OverrideCurCode>
    <SimplePricingInd>true</SimplePricingInd>
  </PricingParameter>
</ResponseParameters>
```

3 Receiving A Reply

3.1 Functional Description

Here is a class diagram describing the SeatAvailabilityRS xml:
3.2 Implementation
This section describes the implementation of the output message SeatAvailabilityRS.

3.2.1 Version

<table>
<thead>
<tr>
<th>Version</th>
<th>Designation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message version</td>
<td>1</td>
<td>M</td>
<td>/SeatAvailabilityRS</td>
<td>/PayloadAttributes</td>
<td>Set to the NDC schema version to which the message complies to.</td>
</tr>
</tbody>
</table>

```
<PayloadAttributes>
  <Version>18.1</Version>
</PayloadAttributes>
```

3.2.2 Warnings
Element containing the different warnings returned by the seatmap process. Note that a warning is encoded is case the seatmap process encountered a limitation. In this case, a seatmap is still returned: this seatmap could be degradated.

<table>
<thead>
<tr>
<th>Warnings</th>
<th>Designation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>IATA Warning Code</td>
<td>1..N</td>
<td>O</td>
<td>/Response /Warning /Code</td>
<td>Field Code is used to convey the IATA code of the warning. IATA Code set 9845 is used. In case a non IATA Warning is returned, code “710” will be used.</td>
<td></td>
</tr>
</tbody>
</table>
### Warning Description

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th>/Response /Warning /DescText</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warning Description</td>
<td>1..N</td>
<td>O</td>
<td>IATA warning description. IATA Code set 9845 is used. In case a non IATA Warning is returned, this field includes a concatenation of the non IATA Warning Code and the non IATA Warning message with &quot;-&quot; as separator. Example: 600 - PRICING ON MULTI-LEG IS NOT ALLOWED.</td>
</tr>
</tbody>
</table>

### LanguageCode

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th>Response/Warning/LanguageCode</th>
</tr>
</thead>
<tbody>
<tr>
<td>LanguageCode</td>
<td>1</td>
<td>O</td>
<td>Language code associated with the warning response.</td>
</tr>
</tbody>
</table>

### TagText

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th>Response/Warning/TagText</th>
</tr>
</thead>
<tbody>
<tr>
<td>TagText</td>
<td>1</td>
<td>O</td>
<td>Identifies the tag/XPath which relates to the provided Warning.</td>
</tr>
</tbody>
</table>

### TypeCode

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th>Response/Warning/TypeCode</th>
</tr>
</thead>
<tbody>
<tr>
<td>TypeCode</td>
<td>1</td>
<td>O</td>
<td>Uses a bilaterally agreed set of values to indicate the warning type.</td>
</tr>
</tbody>
</table>

**Note:** in the current version of SeatAvailabilityRS, the IATA code set for Error/Warning messages is code set number 9845. This code set is the one defined by IATA for seatmap edifact messages.

In case the Error/Warning messages is not a IATA one, the code “710” corresponding to “Free text qualifier error” in IATA code set 9321 is used. In this case, the Error/Warning Description will contain the non IATA code and the non IATA description.

**Example of a non IATA warning:**

```xml
<Warning>
  <Code>710</Code>
  <DescText>13555 - Cabin varies over legs.</DescText>
</Warning>
```

### ALaCarteOffer

This structure contains the different prices available on the seatmap. An OfferID is present in the response, even though no actual offer is created: it is only used as reference.

<table>
<thead>
<tr>
<th>Recognized PassengerDesignation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>OfferID</td>
<td>1</td>
<td>M</td>
<td>/Response /ALaCarteOffer /OfferID</td>
<td>ID used to identify the different prices.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Owner Code</th>
<th></th>
<th></th>
<th>/Response /ALaCarteOffer /OwnerCode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner Code</td>
<td>1</td>
<td>O</td>
<td>Owner of the offers</td>
</tr>
</tbody>
</table>

Each price can be found under the structure ALaCarteOfferItem, described below.
3.2.3.1 \textit{ALaCarteOfferItem}
This element is used to convey the price element per passenger.

\textbf{Price elements per passengers}
The information provided in a price element is:

- Price information (information coming from the pricing catalog of the seats)
  - Total price, Amount without taxes, Taxes with currency code. The currency code is based on the Point of Sale.
  - The exemption source when the Total price is set to "0"
- The association with a passenger.

<table>
<thead>
<tr>
<th>Services</th>
<th>Designation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offer Item ID</td>
<td>1 M</td>
<td>/ALaCarteOffer /ALaCarteOfferItem /OfferItemID</td>
<td>Unique ID of the offer. Following Prefix is used: &quot;PRICE&quot;. An incremental number is then appended after the prefix.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Price details</td>
<td>1 O</td>
<td>/ALaCarteOfferItem /UnitPrice</td>
<td>Price information for a Price element.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Best Discount RuleID</td>
<td>1 O</td>
<td>/ALaCarteOfferItem /UnitPrice /Discount /DescText</td>
<td>Reference to the best Discount RuleID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reference of Discount</td>
<td>1 O</td>
<td>/ALaCarteOfferItem /UnitPrice /Discount /DiscountContext /KeyWordText</td>
<td>Discount RuleID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reason for Discount</td>
<td>1 O</td>
<td>/ALaCarteOfferItem /UnitPrice /Discount /DiscountContext /ValueText</td>
<td>Reason for Discount. &quot;UNKNOWN&quot; if no Reason for Discount is provided</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total amount</td>
<td>1 M</td>
<td>/ALaCarteOfferItem /UnitPrice /TotalAmount</td>
<td>Total amount for the seat reservation.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total amount currency</td>
<td>1 M</td>
<td>/ALaCarteOfferItem /UnitPrice /TotalAmount /@CurCode</td>
<td>Attribute Code (3 letters) is used to convey the currency code. Example: Code=&quot;USD&quot;.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Old Price</td>
<td>1 O</td>
<td>/ALaCarteOfferItem /UnitPrice /Discount /PreDiscountedAmount</td>
<td>Field used to provide the Old Price</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base amount</td>
<td>1 M</td>
<td>/ALaCarteOfferItem /UnitPrice /BaseAmount</td>
<td>Base amount for the seat reservation.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base amount currency</td>
<td>1 M</td>
<td>/ALaCarteOfferItem /UnitPrice /BaseAmount /@CurCode</td>
<td>Attribute Code (3 letters) is used to convey the currency code.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Field</td>
<td>Type</td>
<td>Description</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------------</td>
<td>------</td>
<td>------------------------------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Taxes total amount</strong></td>
<td>1 M</td>
<td><strong>/ALaCarteOfferItem.UnitPrice/TaxSummary/TotalTaxAmount</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Taxes total amount currency</strong></td>
<td>1 M</td>
<td><strong>/ALaCarteOfferItem.UnitPrice/TaxSummary/TotalTaxAmount/@CurCode</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Service</strong></td>
<td>1 M</td>
<td><strong>/ALaCarteOfferItem.Service</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Service ID</strong></td>
<td>1 M</td>
<td><strong>/ALaCarteOfferItem.Service/ServiceID</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Service reference</strong></td>
<td>1 M</td>
<td><strong>/ALaCarteOfferItem.Service/ServiceDefinitionRefID</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Eligibility details</strong></td>
<td>1..N</td>
<td><strong>/ALaCarteOfferItem/Eligibility</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Eligible Traveler</strong></td>
<td>1..N</td>
<td>O <strong>/ALaCarteOfferItem/Eligibility/PaxRefID</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Association Segment</strong></td>
<td>1..N</td>
<td>M <strong>/ALaCarteOfferItem/Eligibility/FlightAssociation/PaxSegmentRefID</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- A passenger association is mandatory.
- A segment association is mandatory.

**Eligible Traveler**
- Passenger reference as defined in Pax. Example: PAX1.

**Association Segment**
- Segment reference as defined in PaxSegmentList

**Price element**
Example of price element with following specificities:

- Seats 9B and 9C are defined as chargeable (CH) and Leg Space seats (L).
- PAX1 is exempted on 9B and 9C by the seating exemption rule defined in Altea Inventory.
- PAX2 is not exempted on 9B and 9C.
- the pricing information returned by the catalog for seats defined with chargeable seat characteristics (CH) and leg space (L) are:
  - total amount 15.00 USD
  - pricing description is "Extra EXTRA-LEG-ROOM"
3.2.4 DataLists

3.2.4.1 Pax List

The following traveler data - taken from the query - are returned in the seatmap reply:

- PTC
- Name: surname, given name
- Title
### PaxList

<table>
<thead>
<tr>
<th>PassengerDesignation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passenger ID</td>
<td>1</td>
<td>M</td>
<td>/DataLists /PaxList /Pax /PaxID</td>
<td>Reference to identify the passenger</td>
</tr>
<tr>
<td>Passenger Type</td>
<td>1</td>
<td>O</td>
<td>/DataLists /PaxList /Pax /PTC</td>
<td>Type of the passenger provided in the Query and used for seatmap process.</td>
</tr>
<tr>
<td>Passenger Reference</td>
<td>1</td>
<td>O</td>
<td>/DataLists /PaxList /Pax /PaxRefID</td>
<td>Reference to the ADT passenger, for infant.</td>
</tr>
<tr>
<td>Passenger Surname</td>
<td>1</td>
<td>O</td>
<td>/DataLists /PaxList /Pax /Individual /Surname</td>
<td>Passenger's family name provided in the Query.</td>
</tr>
<tr>
<td>Passenger First Name</td>
<td>1</td>
<td>O</td>
<td>/DataLists /PaxList /Pax /Individual /GivenName</td>
<td>Passenger's first name(s) provided in the Query.</td>
</tr>
<tr>
<td>Passenger Name Title</td>
<td>1</td>
<td>O</td>
<td>/DataLists /PaxList /Pax /Individual /TitleName</td>
<td>Name Title provided in the Query. Examples: MR, MRS, DR</td>
</tr>
</tbody>
</table>

```xml
<PaxList>
  <Pax>
    <PaxID>PAX1</PaxID>
    <PTC>ADT</PTC>
    <Individual>
      <Surname>SMITH</Surname>
      <GivenName>JOHN</GivenName>
    </Individual>
  </Pax>
</PaxList>
```

#### 3.2.4.2 Pax Segment List

The following flight data - taken from the query - are returned in the seatmap reply:

- Departure Airport Code
- Departure date
- Arrival Airport Code
- Marketing Airline Code
- Marketing Flight Number
- Booking class

This element is also used to provide:

- the cabin code corresponding to the requested booking class,
- the equipment code of the aircraft
- the ACV (Aircraft Configuration version) associated to the seatmap
<table>
<thead>
<tr>
<th>Pax Segment Designation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pax Segment</td>
<td>1</td>
<td>M</td>
<td>/PaxSegmentList/ PaxSegment</td>
<td>The seatmap could be requested only for one segment.</td>
</tr>
<tr>
<td>Cabin code</td>
<td>1</td>
<td>O</td>
<td>/PaxSegmentList/ PaxSegment /CabinType /CabinTypeCode</td>
<td>Cabin class code for which the seatmap is requested.</td>
</tr>
<tr>
<td>Departure Airport Code</td>
<td>1</td>
<td>M</td>
<td>/PaxSegmentList/ PaxSegment /Dep /IATA_LocationCode</td>
<td>3 letters airport code of the departure airport.</td>
</tr>
<tr>
<td>Departure Date</td>
<td>1</td>
<td>M</td>
<td>/PaxSegmentList/ PaxSegment /Dep /AircraftScheduledDateTime</td>
<td>Departure date. Format: YYYY-MM-DDTHH:MM:SS.mm</td>
</tr>
<tr>
<td>Arrival Airport Code</td>
<td>1</td>
<td>M</td>
<td>/PaxSegmentList/ PaxSegment /Arrival /IATA_LocationCode</td>
<td>3 letters airport code of the arrival airport.</td>
</tr>
<tr>
<td>Marketing Carrier Code</td>
<td>1</td>
<td>M</td>
<td>/PaxSegmentList/ PaxSegment /MarketingCarrierInfo /CarrierDesigCode</td>
<td>Airline code of the marketing carrier.</td>
</tr>
<tr>
<td>Marketing Carrier Flight number</td>
<td>1</td>
<td>M</td>
<td>/PaxSegmentList/ PaxSegment /MarketingCarrierInfo /MarketingCarrierFlightNumberText</td>
<td>Flight number.</td>
</tr>
<tr>
<td>Marketing Booking class code</td>
<td>1</td>
<td>M</td>
<td>/PaxSegmentList/ PaxSegment /MarketingCarrierInfo /RBD_Code</td>
<td>Booking class code for which the seatmap is requested.</td>
</tr>
<tr>
<td>Operating Carrier Code</td>
<td>1</td>
<td>O</td>
<td>/PaxSegmentList/ PaxSegment /OperatingCarrierInfo /CarrierDesigCode</td>
<td>Airline code of the Operating carrier.</td>
</tr>
<tr>
<td>Operating Carrier Flight number</td>
<td>1</td>
<td>O</td>
<td>/PaxSegmentList/ PaxSegment /OperatingCarrierInfo /OperatingCarrierFlightNumberText</td>
<td>Flight number of the Operating carrier.</td>
</tr>
<tr>
<td>Departure Code</td>
<td>1</td>
<td>O</td>
<td>/PaxSegmentList/ PaxSegment /DatedOperatingLeg /Dep /IATA_LocationCode</td>
<td>3 letters airport code of the departure airport.</td>
</tr>
<tr>
<td>Arrival Code</td>
<td>1</td>
<td>O</td>
<td>/PaxSegmentList/ PaxSegment /DatedOperatingLeg /Arrival /IATA_LocationCode</td>
<td>3 letters airport code of the arrival airport.</td>
</tr>
<tr>
<td>Aircraft Configuration Version</td>
<td>1</td>
<td>O</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------------</td>
<td>---</td>
<td>---</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Aircraft Configuration Version (ACV) associated to the seatmap. Example: 3EF.

```xml
<PaxSegmentList>
  <PaxSegment>
    <PaxSegmentID>SEG15</PaxSegmentID>
    <Dep>
      <IATA_LocationCode>SIN</IATA_LocationCode>
      <AircraftScheduledDateTime>2019-05-15T09:10:00.000</AircraftScheduledDateTime>
    </Dep>
    <Arrival>
      <IATA_LocationCode>SYD</IATA_LocationCode>
    </Arrival>
    <MarketingCarrierInfo>
      <CarrierDesigCode>SQ</CarrierDesigCode>
    </MarketingCarrierInfo>
    <OperatingCarrierInfo>
      <CarrierDesigCode>SQ</CarrierDesigCode>
    </OperatingCarrierInfo>
    <DatedOperatingLeg>
      <DatedOperatingLegID>LEG1</DatedOperatingLegID>
      <Dep>
        <IATA_LocationCode>SIN</IATA_LocationCode>
      </Dep>
      <Arrival>
        <IATA_LocationCode>SYD</IATA_LocationCode>
      </Arrival>
      <IATA_AircraftType>
        <IATA_AircraftTypeCode>388</IATA_AircraftTypeCode>
      </IATA_AircraftType>
      <CarrierAircraftType>
        <CarrierAircraftTypeCode>383</CarrierAircraftTypeCode>
      </CarrierAircraftType>
      <CabinType>
        <CabinTypeCode>W</CabinTypeCode>
      </CabinType>
      <CabinType>
        <CabinTypeCode>Y</CabinTypeCode>
      </CabinType>
    </DatedOperatingLeg>
  </PaxSegment>
</PaxSegmentList>
```

### 3.2.4.3 SeatProfileList

Seat profile linked to a ServiceDefinition

<table>
<thead>
<tr>
<th>Services</th>
<th>Designation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>SeatProfile element</td>
<td>1..N</td>
<td>O</td>
<td>/DataLists /SeatProfileList /SeatProfile</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### SeatProfile ID

- **SeatProfile ID**: 1
- **Type**: M
- **Path**: `/DataLists /SeatProfileList /SeatProfile /SeatProfileID`
- **Usage**: Unique ID of the SeatProfile.
- **Prefix**: "SEAT" if the seat profile is a seat element.
- **Incremental Number**: A numerical value is appended after the prefix.

### Commercial information type

- **Type**: 1
- **Path**: `/SeatProfile /SeatKeywords /KeyWordText`
- **Possible Values**: Either ATPCOGroup or CommercialName

### Commercial information

- **Type**: 1
- **Path**: `/SeatProfile /MarketingInformation /Media /DescText`
- **Usage**: Value of the ATPCO group or Commercial Name

```xml
<SeatProfileList>
  <SeatProfile>
    <SeatProfileID>SEAT1</SeatProfileID>
    <SeatKeywords>
      <KeyWordText>ATPCOGroup</KeyWordText>
      <ValueText>SA</ValueText>
    </SeatKeywords>
    <SeatKeywords>
      <KeyWordText>CommercialName</KeyWordText>
      <ValueText>PREMIUM SEAT</ValueText>
    </SeatKeywords>
  </SeatProfile>
</SeatProfileList>
```

### Media elements per passengers

The information provided in a media element is:

- **Link to Media defined in MediaList**
- **The association with a passenger.** In case of seatmap request without passenger (neutral seatmap), there is no passenger referenced in the media element.

### Services

<table>
<thead>
<tr>
<th>Designation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>SeatProfile element</td>
<td>1..N</td>
<td>O</td>
<td>/DataLists /SeatProfileList /SeatProfile</td>
<td>Unique ID of the SeatProfile. Prefix &quot;MEDIA&quot; if the seat profile is a Media element. A numerical value is appended after the prefix.</td>
</tr>
<tr>
<td>SeatProfile ID</td>
<td>1</td>
<td>M</td>
<td>/DataLists /SeatProfileList /SeatProfile /SeatProfileID</td>
<td>Unique ID of the SeatProfile. Prefix &quot;MEDIA&quot; if the seat profile is a Media element. A numerical value is appended after the prefix.</td>
</tr>
<tr>
<td>Marketing Information</td>
<td>1</td>
<td>O</td>
<td>/SeatProfile /MarketingInformation</td>
<td>List of Medias applying for this seat profile.</td>
</tr>
</tbody>
</table>
3.2.4.4 ServiceDefinitionList

This element is used to link Offer Item with seats, and to convey Pricing Indicator data as well as booking instructions to be taken into account during seatmap process.

<table>
<thead>
<tr>
<th>ServicesDesignation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service element</td>
<td>1..N</td>
<td>O</td>
<td>/ServiceDefinitionListList/ServiceDefinition</td>
<td></td>
</tr>
<tr>
<td>Service ID</td>
<td>1</td>
<td>M</td>
<td>/ServiceDefinitionList/ServiceDefinition/ServiceDefinitionID</td>
<td>Unique ID of the service.</td>
</tr>
<tr>
<td>Service Name</td>
<td>1</td>
<td>M</td>
<td>/ServiceDefinitionList/ServiceDefinition/Name</td>
<td>Same value as the corresponding Offer Item</td>
</tr>
<tr>
<td>Pricing Indicator</td>
<td>0..N</td>
<td>O</td>
<td>/ServiceDefinitionList/ServiceDefinition/Description/DescText</td>
<td>Two elements DescText may be defined:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• for the refundable/Exchangeable indicator: reference value</td>
</tr>
</tbody>
</table>

Element used only if the seat profile is a Media element.

<table>
<thead>
<tr>
<th>MediaID</th>
<th>1</th>
<th>O</th>
<th>/SeatProfile/MarketingInformation/Media/MediaID</th>
<th>ID of the media</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of media</td>
<td>1</td>
<td>O</td>
<td>/SeatProfile/MarketingInformation/Media/DescText</td>
<td>Type of media. e.g. PICTUREID</td>
</tr>
<tr>
<td>URL</td>
<td>1</td>
<td>O</td>
<td>/SeatProfile/MarketingInformation/Media/URL</td>
<td>URL of the Media</td>
</tr>
</tbody>
</table>

Media element

```
<SeatProfileList>
  <SeatProfile>
    <SeatProfileID>MEDIA1</SeatProfileID>
    <MarketingInformation>
      <DescID>DESC1</DescID>
      <Media>
        <MediaID>MED1</MediaID>
        <DescText>PICTUREID</DescText>
        <URL>00042839</URL>
      </Media>
    </MarketingInformation>
  </SeatProfile>
</SeatProfileList>
```
having prefix "REFUND_"
- for the commission indicator: reference value having prefix "COMMISSION_"

Both elements are linking with MetaData /Other /OtherMetadata /DescriptionMetadatas /DescriptionMetadata element.

<table>
<thead>
<tr>
<th>Seat Profile reference</th>
<th>1</th>
<th>M</th>
<th>/ServiceDefinitionList /ServiceDefinition /ServiceDefinitionAssociation /SeatProfileRefID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Booking of specific SSR</td>
<td>0..N</td>
<td>O</td>
<td>/ServiceDefinitionList /ServiceDefinition /BookingInstructions /SSRCode</td>
</tr>
</tbody>
</table>

```xml
<ServiceDefinitionList>
  <ServiceDefinition>
    <ServiceDefinitionID>SD1</ServiceDefinitionID>
    <OwnerCode>SQ</OwnerCode>
    <Name>SD1</Name>
    <Description>
      <DescID>DESC1</DescID>
      <DescText>REFUND_3</DescText>
    </Description>
    <Description>
      <DescID>DESC2</DescID>
      <DescText>COMMISSION_2</DescText>
    </Description>
    <ServiceDefinitionAssociation>
      <SeatProfileRefID>SEAT1</SeatProfileRefID>
    </ServiceDefinitionAssociation>
    <BookingInstructions>
      <SSRCode>BSCT</SSRCode>
    </BookingInstructions>
  </ServiceDefinition>
</ServiceDefinitionList>
```

### 3.2.5 SeatMap

This element is used to describe the configuration of the aircraft.

The aircraft is composed by one or several compartments, i.e. a seats pattern (a given configuration of row/column) applicable to a zone of the aircraft. In Altea Inventory application compartments are known as "engineering zones". A SeatMap element gathers configuration details about one compartment.

The seatmap reply contains **only information about the cabin matching the requested booking class**. However, as the cabin matching the requested booking class could be defined across several compartments, the seatmap reply could contain several SeatMap elements (all having at least one seat belonging to the targeted cabin).
For each SeatMap element following information are provided:

- Upper Deck indicator (if applicable),
- Compartment (or engineering zone) code,
- Row characteristics: Overwing and Exit,
- Configuration of the compartment: list of columns' name and the range of rows,
- List of facilities along with their position,
- Cabin Code matching the requested booking class,
- List of seat belonging to the compartment with their characteristics.

<table>
<thead>
<tr>
<th>Flight informationDesignation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flight Reference</td>
<td>1</td>
<td>M</td>
<td>/SeatMap /PaxSegmentRefID</td>
<td>Reference to the flight segment defined under DataList element.</td>
</tr>
<tr>
<td>Cabin Compartment</td>
<td>1..N</td>
<td>M</td>
<td>/SeatMap /CabinCompartment</td>
<td>Gathers configuration details of a compartment.</td>
</tr>
</tbody>
</table>

### Configuration of the Compartment

| Configuration Columns         | 1..N       | O      | /SeatMap /CabinCompartment /ColumnID | List all the columns of the Compartment. The format is a letter code. |
| Configuration Range first row| 1          | O      | /SeatMap /CabinCompartment /FirstRowNumber | Range of the Compartment: first row. |
| Configuration Range last row  | 1          | O      | /SeatMap /CabinCompartment /LastRowNumber | Range of the Compartment: last row. |

### List of facilities

<p>| Component details            | 1..N       | O      | /SeatMap /CabinCompartment /CabinComponent/ | Element containing the details of one facility. |
| Row Reference                | 1          | M      | /SeatMap /CabinCompartment /CabinComponent /FirstRowNumber | Row number used as reference. |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th>M</th>
<th>/SeatMap /CabinCompartment /CabinComponent /LastRowNumber</th>
<th>Row number used as reference. Last row number is same as first row number.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Column Reference</td>
<td></td>
<td>M</td>
<td>/SeatMap /CabinCompartment /CabinComponent /ColumnID</td>
<td>Column number used as reference.</td>
</tr>
<tr>
<td>Row Relative Position</td>
<td></td>
<td>M</td>
<td>/SeatMap /CabinCompartment /CabinComponent /PositionCode</td>
<td>This field is used to give the relative orientation of the facility from the row. Possible value is front (&quot;FRO&quot;), rear (&quot;REA&quot;) or aligned (&quot;INL&quot;).</td>
</tr>
<tr>
<td>Column Relative Orientation</td>
<td></td>
<td>M</td>
<td>/SeatMap /CabinCompartment /CabinComponent /OrientationCode</td>
<td>This field is used to give the relative orientation of the facility from the column. Possible value is right (&quot;RIG&quot;), left (&quot;LEF&quot;) or aligned (&quot;INL&quot;).</td>
</tr>
<tr>
<td>Facility type</td>
<td></td>
<td>O</td>
<td>/SeatMap /CabinCompartment /CabinComponent /CabinComponentTypeCode</td>
<td>Type of facility, based on &quot;PADIS codeset 9825 - Seat characteristic, coded&quot;. &quot;LA&quot; for lavatory.</td>
</tr>
<tr>
<td>Cabin Code</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cabin code</td>
<td></td>
<td>M</td>
<td>/SeatMap /CabinCompartment /CabinType /CabinTypeCode</td>
<td>Cabin code. Example: &quot;J&quot;.</td>
</tr>
<tr>
<td>List of Seats</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seat reference</td>
<td></td>
<td>N</td>
<td>/SeatMap /CabinCompartment /SeatRow</td>
<td>List of seats belonging to the engineering zone, with its characteristics, and references to SeatProfile and OfferItemID.</td>
</tr>
<tr>
<td>Seat Row Characteristics</td>
<td></td>
<td>O</td>
<td>/SeatMap /CabinCompartment /SeatRow /CharacteristicCode</td>
<td>Characteristic of the row. Value can be &quot;K&quot; (Over wing) or &quot;E&quot; (Exit). In case the Exit is located in front or in the rear, another Characteristic code is added with &quot;FRO&quot; or &quot;REA&quot;.</td>
</tr>
</tbody>
</table>
3.2.5.1 Facilities

Here is an example of the way facilities are conveyed:

```xml
<CabinComponent>
  <FirstRowNumber>41</FirstRowNumber>
  <LastRowNumber>41</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>D</ColumnID>
  <CabinComponentTypeCode>GN</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>41</FirstRowNumber>
  <LastRowNumber>41</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>E</ColumnID>
  <CabinComponentTypeCode>GN</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>41</FirstRowNumber>
  <LastRowNumber>41</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>F</ColumnID>
  <CabinComponentTypeCode>GN</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>41</FirstRowNumber>
  <LastRowNumber>41</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>G</ColumnID>
  <CabinComponentTypeCode>GN</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>42</FirstRowNumber>
  <LastRowNumber>42</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>D</ColumnID>
  <CabinComponentTypeCode>LA</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>42</FirstRowNumber>
  <LastRowNumber>42</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>E</ColumnID>
  <CabinComponentTypeCode>LA</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>42</FirstRowNumber>
  <LastRowNumber>42</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>F</ColumnID>
  <CabinComponentTypeCode>LA</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>42</FirstRowNumber>
  <LastRowNumber>42</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>G</ColumnID>
  <CabinComponentTypeCode>LA</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>58</FirstRowNumber>
  <LastRowNumber>58</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>A</ColumnID>
  <CabinComponentTypeCode>LA</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>58</FirstRowNumber>
  <LastRowNumber>58</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>D</ColumnID>
  <CabinComponentTypeCode>LA</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>58</FirstRowNumber>
  <LastRowNumber>58</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>E</ColumnID>
  <CabinComponentTypeCode>LA</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>58</FirstRowNumber>
  <LastRowNumber>58</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>F</ColumnID>
  <CabinComponentTypeCode>LA</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>58</FirstRowNumber>
  <LastRowNumber>58</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>G</ColumnID>
  <CabinComponentTypeCode>LA</CabinComponentTypeCode>
</CabinComponent>
```
3.2.5.2 *Example of seatmap with two compartments*

- Exit is on a row without number, and is in front of Row 41.

```xml
<SeatMap>
   <PaxSegmentRefID>SEG15</PaxSegmentRefID>
   <CabinCompartment>
      <DeckCode>U</DeckCode>
      <FirstRowNumber>41</FirstRowNumber>
      <LastRowNumber>58</LastRowNumber>
      <ColumnID>A</ColumnID>
      <ColumnID>B</ColumnID>
      <ColumnID>C</ColumnID>
      <ColumnID>D</ColumnID>
      <ColumnID>E</ColumnID>
      <ColumnID>F</ColumnID>
      <ColumnID>G</ColumnID>
      <ColumnID>H</ColumnID>
      <ColumnID>J</ColumnID>
      <ColumnID>K</ColumnID>
      <CabinType>
         <CabinTypeCode>B</CabinTypeCode>
      </CabinType>
      <CabinComponent>
         <CabinComponentTypeCode>LA</CabinComponentTypeCode>
         <FirstRowNumber>41</FirstRowNumber>
         <LastRowNumber>41</LastRowNumber>
         <ColumnID>D</ColumnID>
         <OrientationCode>INL</OrientationCode>
      </CabinComponent>
      <CabinComponent>
         <CabinComponentTypeCode>GN</CabinComponentTypeCode>
         <FirstRowNumber>41</FirstRowNumber>
         <LastRowNumber>41</LastRowNumber>
         <ColumnID>E</ColumnID>
         <OrientationCode>INL</OrientationCode>
      </CabinComponent>
      <CabinComponent>
         <CabinComponentTypeCode>GN</CabinComponentTypeCode>
         <FirstRowNumber>41</FirstRowNumber>
         <LastRowNumber>41</LastRowNumber>
         <ColumnID>F</ColumnID>
         <OrientationCode>INL</OrientationCode>
      </CabinComponent>
      <CabinComponent>
         <CabinComponentTypeCode>GN</CabinComponentTypeCode>
         <FirstRowNumber>42</FirstRowNumber>
         <LastRowNumber>42</LastRowNumber>
      </CabinComponent>
   </CabinCompartment>
</SeatMap>
```
3.2.5.3 Seat construction for multipax

- Pax 1 is eligible to a discount. All seats from row 41 are linked to Seat Profile SEAT1, related to ALaCarteOfferItem PRICE1, containing the discount and for which only PAX1 is eligible.

- Pax2 is not eligible to a discount. Same seats are therefore linked to Seat Profile SEAT2, related to ALaCarteOfferItem PRICE2, without the discount.
3.2.6 Metadata

3.2.6.1 Other

This element is used to list all possible values of:

- refundable / exchangeable indicator
- commissionable indicator

These indicators are coming from the pricing catalog.

<table>
<thead>
<tr>
<th>Service Indicator</th>
<th>Designation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1..N</td>
<td>O</td>
<td>/Metadata</td>
<td>/Other</td>
<td>/OtherMetadata</td>
<td>Details of service indicator.</td>
</tr>
</tbody>
</table>
### Service Indicator Reference

<table>
<thead>
<tr>
<th>Service Indicator Reference</th>
<th>1</th>
<th>M</th>
</tr>
</thead>
</table>

The attribute MetadataKey is used to reference the Indicator in the Service element (association Other) - only on Service element defined as price element. Attribute MetadataKey format is the following:

- Refundable / Exchangeable indicator: prefix "REFUND_"
- Commissionable indicator: prefix "COMMISSION_"

### Indicator Value

<table>
<thead>
<tr>
<th>Indicator Value</th>
<th>1</th>
<th>M</th>
</tr>
</thead>
</table>

Possible values are R, Y or N. See description of the possible values in the table below.

### Indicator Description

<table>
<thead>
<tr>
<th>Indicator Value</th>
<th>1</th>
<th>M</th>
</tr>
</thead>
</table>

Description of the indicator.

Possible values are:

<table>
<thead>
<tr>
<th>Reference</th>
<th>Indicator Value</th>
<th>Indicator Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REFUND_1</td>
<td>Y</td>
<td>Service is refundable</td>
</tr>
<tr>
<td>REFUND_2</td>
<td>R</td>
<td>Service not refundable but value of EMD can be applied on future purchase</td>
</tr>
<tr>
<td>REFUND_3</td>
<td>N</td>
<td>Service not refundable and not exchangeable</td>
</tr>
<tr>
<td>COMMISSION_1</td>
<td>Y</td>
<td>Service is Commissionable</td>
</tr>
<tr>
<td>COMMISSION_2</td>
<td>N</td>
<td>Service is not Commissionable</td>
</tr>
</tbody>
</table>

```xml
<Other>
  <OtherMetadata>
    <DescriptionMetadatas>
      <DescriptionMetadata MetadataKey="REFUND_1">
        <Application>Y</Application>
        <Topic>Service refundable</Topic>
      </DescriptionMetadata>
    </DescriptionMetadatas>
  </OtherMetadata>
</Other>
```
3.2.7 Errors

Element containing the different errors returned by the seatmap process.
Note that an error is encoded in case the seatmap process failed.

<table>
<thead>
<tr>
<th>ErrorsDesignation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>IATA Error Code</td>
<td>1..N</td>
<td>O</td>
<td>/Errors/Code</td>
<td>Attribute Code is used to convey the IATA code of the error. IATA Code set 9845 is used. In case a non IATA Error is returned, code &quot;710&quot; will be used.</td>
</tr>
<tr>
<td>Error Description</td>
<td>1..N</td>
<td>O</td>
<td>/Errors</td>
<td>IATA Error description. IATA Code set 9845 is used. In case a non IATA Error is returned, this field includes a concatenation of the non IATA Error Code and the non IATA Error message with &quot;,&quot; as separator. Example: 352 - Link to inventory system is unavailable.</td>
</tr>
<tr>
<td>LanguageCode</td>
<td>1</td>
<td>O</td>
<td>Errors/LanguageCode</td>
<td>Language code associated with the error response.</td>
</tr>
<tr>
<td>TagText</td>
<td>1</td>
<td>O</td>
<td>Errors/TagText</td>
<td>Identifies the tag/XPath which relates to the provided Error.</td>
</tr>
<tr>
<td>TypeCode</td>
<td>1</td>
<td>O</td>
<td>Errors/TypeCode</td>
<td>Uses a bilaterally agreed set of values to indicate the error type.</td>
</tr>
</tbody>
</table>

Note: in the current version of SeatAvailabilityRS, the IATA code set for Error/Warning messages is code set number 9845. This code set is the one defined by IATA for seatmap edifact messages.

In case the Error/Warning messages is not a IATA one, the code "710" corresponding to "Free text qualifier error" in IATA code set 9321 is used. In this case, the Error/Warning
Example of a IATA Error:

```
<Errors>
  <Error Code="5">Invalid flight/Date</Error>
</Errors>
```

Example of a non IATA Error:

```
<Errors>
  <Error Code="710">352 - Link to inventory system is unavailable</Error>
</Errors>
```

## 4 Troubleshooting

Here is the list of possible errors:

<table>
<thead>
<tr>
<th>Error</th>
<th>IATA Error Code</th>
<th>Error Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>5</td>
<td>Invalid flight/Date</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>14</td>
<td>Airline code and/or flight number invalid</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>15</td>
<td>Flight cancelled</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>26</td>
<td>No seat selection on this flight</td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>42</td>
<td>Booking/Ticketing class invalid</td>
<td></td>
</tr>
<tr>
<td>85</td>
<td>85</td>
<td>Invalid reservations booking modifier</td>
<td></td>
</tr>
<tr>
<td>94</td>
<td>94</td>
<td>Flight does not operate between requested cities</td>
<td></td>
</tr>
<tr>
<td>96</td>
<td>96</td>
<td>Repeat request updating in progress</td>
<td></td>
</tr>
<tr>
<td>99</td>
<td>99</td>
<td>Seat map not available for requested zone, seat may be requested</td>
<td></td>
</tr>
<tr>
<td>102</td>
<td>102</td>
<td>Seat map not available, request seat at check-in</td>
<td>Error returned when the seatmap is demigrated to an external inventory.</td>
</tr>
<tr>
<td>Warning Code</td>
<td>Warning Message</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td>----------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>102</td>
<td>Check date range</td>
<td>Error returned when the date requested is outside the allowed period.</td>
<td></td>
</tr>
<tr>
<td>102</td>
<td>Unable to process</td>
<td>Generic error returned in case the seatmap process could not be done.</td>
<td></td>
</tr>
<tr>
<td>102</td>
<td>Communications not available</td>
<td>Error returned when SI returns a CONTRL message.</td>
<td></td>
</tr>
<tr>
<td>236</td>
<td>Seat Request not available as flight operated by another carrier</td>
<td>Error returned in case of codeshare seatmap request when no cascading is code to the operating inventory.</td>
<td></td>
</tr>
<tr>
<td>300</td>
<td>Seat map not available for unticketed passengers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>710</td>
<td>352 - Link to inventory system is unavailable</td>
<td>Error message returned when the operating airline if not Altea Inventory. For the time being, SeatAvailability NDC verb is supported only for Altea Inventory airlines.</td>
<td></td>
</tr>
<tr>
<td>710</td>
<td>914 - Invalid format/data - data does not match syntax rules</td>
<td>Error message returned when the format of the message received is not compliant with the grammar of SeatAvailabilityRQ.</td>
<td></td>
</tr>
<tr>
<td>710</td>
<td>7139 - No matching PNRs found for this search request</td>
<td>Error message returned when the provided recloc is invalid. Note that an empty value will be by-passed.</td>
<td></td>
</tr>
</tbody>
</table>

Here is the list of possible warnings:

<table>
<thead>
<tr>
<th>Warning Code</th>
<th>Warning Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>710</td>
<td>13555 - Cabin varies over legs</td>
<td>Some seats belong to different cabins on the different legs.</td>
</tr>
<tr>
<td>710</td>
<td>195 - COG FLIGHT - NEXT SEGMENT FOR FOLLOW-UP ENTRY: + information of the next leg</td>
<td>Change of gauge flights.</td>
</tr>
<tr>
<td>600</td>
<td>PRICING ERROR - PRICING ON MULTI-LEG FLIGHTS IS NOT ALLOWED</td>
<td>Seatmap with price on multileg flights is not supported.</td>
</tr>
<tr>
<td>601</td>
<td>ERROR DURING PRICING PROCESS</td>
<td>Communication issue with ATPCO catalog</td>
</tr>
<tr>
<td>602</td>
<td>ERROR DURING PRICING PROCESS</td>
<td>Communication unavailable with ATPCO catalog</td>
</tr>
<tr>
<td>603</td>
<td>NOT ALL CHARGEABLE SEATS HAVE BEEN PRICED</td>
<td>At least one chargeable seat does not have a matching sequence in catalog reply</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td>Message</td>
</tr>
<tr>
<td>-------</td>
<td>--------------------------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>604</td>
<td>604 - CHARGEABLE SEATS HAVE NOT BEEN PRICED (NO MATCHING)</td>
<td>None of the chargeable seats have a matching sequence in catalog reply</td>
</tr>
<tr>
<td>605</td>
<td>605 - PRICING ERROR + error number returned by pricing + - + Text message returned by pricing</td>
<td>A pricing error is received from from catalog reply.</td>
</tr>
<tr>
<td>606</td>
<td>606 - SEATMAP WITH PRICE NOT SUPPORTED - 9 PASSENGERS MAX</td>
<td>Seat map with price is not allowed on a PNR with more than 9 passengers</td>
</tr>
</tbody>
</table>

**Options warnings**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>620</td>
<td>620 - Invalid Option</td>
<td>Option provided in input of the seatmap query has an invalid format.</td>
</tr>
</tbody>
</table>

### 5 Detailed Use Cases

#### 5.1 Building A Query Examples

#### 5.1.1 Example from Offer - Centric seatmap with prices

Options:

- Prices
- one passenger with one Frequent Flyer card

```
<SeatAvailabilityRQ>
  <Party>
    <Sender>
      <TravelAgency>
        <AgencyID>NCE6X09DC</AgencyID>
        <IATA_Number>12345678</IATA_Number>
      </TravelAgency>
    </Sender>
  </Party>
  <Request>
    <CoreRequest>
      <Offer>
        <OfferItemID>OfferItemID</OfferItemID>
        <OwnerCode>6X</OwnerCode>
        <PaxSegmentRefID>SEG1</PaxSegmentRefID>
      </Offer>
      <Order>
        <OrderID/>
      </Order>
    </CoreRequest>
    <Paxs>
      <Pax>
        <PaxID>PAX1</PaxID>
        <PTC>ADT</PTC>
        <LoyaltyProgramAccount>
          <Carrier>
            <AirlineDesignCode>6X</AirlineDesignCode>
          </Carrier>
        </LoyaltyProgramAccount>
      </Pax>
    </Paxs>
  </Request>
</SeatAvailabilityRQ>
```
5.1.2 Example from Order - Centric seatmap with prices

Options:
- Prices
- two passengers: pax1: Frequent Flyer card traveling with an infant / pax2: child passenger

```xml
<SeatAvailabilityRQ>
  <Party>
    <Sender>
      <TravelAgency>
        <AgencyID>NCE6X09DC</AgencyID>
        <IATA_Number>12345678</IATA_Number>
      </TravelAgency>
    </Sender>
  </Party>
  <Request>
    <CoreRequest>
      <Offer/>
      <Order>
        <OrderID>6X_ABC123</OrderID>
        <OwnerCode>6X</OwnerCode>
        <PaxSegmentRefID>SEG1</PaxSegmentRefID>
      </Order>
    </CoreRequest>
    <Paxs>
      <Pax>
        <PaxID>PAX1</PaxID>
        <PTC>ADT</PTC>
        <LoyaltyProgramAccount>
          <Carrier>
            <AirlineDesigCode>6X</AirlineDesigCode>
          </Carrier>
          <AccountNumber>11111NDC</AccountNumber>
        </LoyaltyProgramAccount>
      </Pax>
      <Pax>
        <PaxID>PAX11</PaxID>
        <PTC>INF</PTC>
      </Pax>
      <Pax>
        <PaxID>PAX2</PaxID>
        <PTC>CHD</PTC>
      </Pax>
    </Paxs>
    <ResponseParameters>
      <PricingParameter>
        <SimplePricingInd>true</SimplePricingInd>
      </PricingParameter>
    </ResponseParameters>
  </Request>
</SeatAvailabilityRQ>
```
5.1.3 Example from Order - With Bassinet Seat

Options:
- Prices
- one passenger: pax1: Frequent Flyer card traveling with an infant
- Bassinet Seat requested
5.2 Building a Reply - Examples

5.2.1 Example Centric Seatmap without prices

Seatmap requested for:
- one passenger
- no prices requested

```xml
<SeatAvailabilityRS>
  <PayloadAttributes>
    <Version>18.1</Version>
  </PayloadAttributes>
  <Response>
    <DataLists>
      <PaxList>
        <Pax>
          <PaxID>PAX1</PaxID>
          <PTC>ADT</PTC>
          <Individual>
            <IndividualID>PAX1</IndividualID>
            <GivenName>JOHN</GivenName>
            <Surname>SMITH</Surname>
          </Individual>
        </Pax>
      </PaxList>
      <PaxSegmentList>
        <PaxSegment>
          <PaxSegmentID>SEG15</PaxSegmentID>
          <CabinType>
            <CabinTypeCode>Y</CabinTypeCode>
          </CabinType>
          <Dep>
            <IATA_LocationCode>SIN</IATA_LocationCode>
            <AircraftScheduledDateTime>2019-05-15T09:10:00.000</AircraftScheduledDateTime>
          </Dep>
          <Arrival>
            <IATA_LocationCode>SYD</IATA_LocationCode>
          </Arrival>
          <MarketingCarrierInfo>
            <CarrierDesigCode>SQ</CarrierDesigCode>
          </MarketingCarrierInfo>
          <OperatingCarrierInfo>
            <CarrierDesigCode>SQ</CarrierDesigCode>
          </OperatingCarrierInfo>
          <DatedOperatingLeg>
            <DatedOperatingLegID>LEG1</DatedOperatingLegID>
            <CarrierAircraftType>
              <CarrierAircraftTypeCode>383</CarrierAircraftTypeCode>
            </CarrierAircraftType>
            <Dep>
              <IATA_LocationCode>SIN</IATA_LocationCode>
            </Dep>
            <Arrival>
              <IATA_LocationCode>SYD</IATA_LocationCode>
            </Arrival>
          </DatedOperatingLeg>
        </PaxSegment>
      </PaxSegmentList>
    </DataLists>
  </Response>
</SeatAvailabilityRS>
```
<OrientationCode>INL</OrientationCode>
</CabinComponent>
<SeatRow>
  <RowNumber>41</RowNumber>
  <CharacteristicsCode>E</CharacteristicsCode>
  <CharacteristicsCode>FRO</CharacteristicsCode>
  <Seat>
    <CabinColumnID>B</CabinColumnID>
    <OccupationStatusCode>F</OccupationStatusCode>
    <CharacteristicCode>9</CharacteristicCode>
    <CharacteristicCode>CH</CharacteristicCode>
    <CharacteristicCode>E</CharacteristicCode>
    <CharacteristicCode>L</CharacteristicCode>
    <SeatProfileRefID>MEDIA1</SeatProfileRefID>
    <SeatProfileRefID>SEAT1</SeatProfileRefID>
  </Seat>
  <Seat>
    <CabinColumnID>C</CabinColumnID>
    <OccupationStatusCode>F</OccupationStatusCode>
    <CharacteristicCode>A</CharacteristicCode>
    <CharacteristicCode>CH</CharacteristicCode>
    <CharacteristicCode>E</CharacteristicCode>
    <CharacteristicCode>I</CharacteristicCode>
    <CharacteristicCode>L</CharacteristicCode>
    <SeatProfileRefID>MEDIA1</SeatProfileRefID>
    <SeatProfileRefID>SEAT1</SeatProfileRefID>
  </Seat>
  <Seat>
    <CabinColumnID>H</CabinColumnID>
    <OccupationStatusCode>F</OccupationStatusCode>
    <CharacteristicCode>A</CharacteristicCode>
    <CharacteristicCode>CH</CharacteristicCode>
    <CharacteristicCode>E</CharacteristicCode>
    <CharacteristicCode>I</CharacteristicCode>
    <CharacteristicCode>L</CharacteristicCode>
    <SeatProfileRefID>MEDIA1</SeatProfileRefID>
    <SeatProfileRefID>SEAT1</SeatProfileRefID>
  </Seat>
  <Seat>
    <CabinColumnID>J</CabinColumnID>
    <OccupationStatusCode>F</OccupationStatusCode>
    <CharacteristicCode>9</CharacteristicCode>
    <CharacteristicCode>CH</CharacteristicCode>
    <CharacteristicCode>E</CharacteristicCode>
    <CharacteristicCode>L</CharacteristicCode>
    <SeatProfileRefID>MEDIA1</SeatProfileRefID>
    <SeatProfileRefID>SEAT1</SeatProfileRefID>
  </Seat>
</SeatRow>
</CabinCompartment>
<CabinCompartment>
  <DeckCode>M</DeckCode>
  <FirstRowNumber>59</FirstRowNumber>
<LastRowNumber>68</LastRowNumber>
<ColumnID>A</ColumnID>
<ColumnID>B</ColumnID>
<ColumnID>C</ColumnID>
<ColumnID>D</ColumnID>
<ColumnID>E</ColumnID>
<ColumnID>F</ColumnID>
<ColumnID>G</ColumnID>
<ColumnID>H</ColumnID>
<ColumnID>J</ColumnID>
<ColumnID>K</ColumnID>
</CabinType>
>CabinTypeCode>B</CabinTypeCode>
</CabinType>

<CabinComponentTypeCode>LA</CabinComponentTypeCode>
<FirstRowNumber>59</FirstRowNumber>
<LastRowNumber>59</LastRowNumber>
<ColumnID>D</ColumnID>
<OrientationCode>INL</OrientationCode>
</CabinComponent>

<CabinComponentTypeCode>LA</CabinComponentTypeCode>
<FirstRowNumber>59</FirstRowNumber>
<LastRowNumber>59</LastRowNumber>
<ColumnID>G</ColumnID>
<OrientationCode>INL</OrientationCode>
</CabinComponent>

<CabinComponentTypeCode>GN</CabinComponentTypeCode>
<FirstRowNumber>68</FirstRowNumber>
<LastRowNumber>68</LastRowNumber>
<ColumnID>D</ColumnID>
<OrientationCode>INL</OrientationCode>
</CabinComponent>

<CabinComponentTypeCode>GN</CabinComponentTypeCode>
<FirstRowNumber>68</FirstRowNumber>
<LastRowNumber>68</LastRowNumber>
<ColumnID>G</ColumnID>
<OrientationCode>INL</OrientationCode>
</CabinComponent>

<CabinComponentTypeCode>GN</CabinComponentTypeCode>
<FirstRowNumber>68</FirstRowNumber>
<LastRowNumber>68</LastRowNumber>
<ColumnID>E</ColumnID>
<OrientationCode>INL</OrientationCode>
</CabinComponent>

<CabinComponentTypeCode>GN</CabinComponentTypeCode>
<FirstRowNumber>68</FirstRowNumber>
<LastRowNumber>68</LastRowNumber>
<ColumnID>F</ColumnID>
<OrientationCode>INL</OrientationCode>
</CabinComponent>

<CabinComponentTypeCode>GN</CabinComponentTypeCode>
<FirstRowNumber>68</FirstRowNumber>
<LastRowNumber>68</LastRowNumber>
<ColumnID>G</ColumnID>
<OrientationCode>INL</OrientationCode>
</CabinComponent>

<CabinComponentTypeCode>CL</CabinComponentTypeCode>
<FirstRowNumber>68</FirstRowNumber>
<table>
<thead>
<tr>
<th>ColumnID</th>
<th>OrientationCode</th>
<th>FirstRowNumber</th>
<th>LastRowNumber</th>
<th>CabinComponentTypeCode</th>
<th>OccupationStatusCode</th>
<th>CharacteristicsCode</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>REA</td>
<td>68</td>
<td>68</td>
<td>CL</td>
<td>F</td>
<td>E, FRO, K</td>
</tr>
<tr>
<td>B</td>
<td>REA</td>
<td>68</td>
<td>68</td>
<td>CL</td>
<td>F</td>
<td>E, CH, L, OW</td>
</tr>
<tr>
<td>C</td>
<td>REA</td>
<td>68</td>
<td>68</td>
<td>CL</td>
<td>F</td>
<td>E, CH, L, OW</td>
</tr>
<tr>
<td></td>
<td></td>
<td>59</td>
<td></td>
<td></td>
<td></td>
<td>E, K</td>
</tr>
</tbody>
</table>

SeatProfileRefID: MEDIA1
SeatProfileRefID: SEAT2
<OccupationStatusCode>F</OccupationStatusCode>
  <CharacteristicCode>A</CharacteristicCode>

<CharacteristicCode>CH</CharacteristicCode>
  <CharacteristicCode>E</CharacteristicCode>
  <CharacteristicCode>I</CharacteristicCode>
  <CharacteristicCode>L</CharacteristicCode>
  <SeatProfileRefID>MEDIA1</SeatProfileRefID>
  <SeatProfileRefID>SEAT2</SeatProfileRefID>
  <Seat>
    <CabinColumnID>H</CabinColumnID>
  </Seat>

<OccupationStatusCode>F</OccupationStatusCode>
  <CharacteristicCode>A</CharacteristicCode>
  <CharacteristicCode>CH</CharacteristicCode>
  <CharacteristicCode>E</CharacteristicCode>
  <CharacteristicCode>I</CharacteristicCode>
  <CharacteristicCode>L</CharacteristicCode>
  <SeatProfileRefID>MEDIA1</SeatProfileRefID>
  <SeatProfileRefID>SEAT2</SeatProfileRefID>
  <Seat>
    <CabinColumnID>J</CabinColumnID>
  </Seat>

<OccupationStatusCode>F</OccupationStatusCode>
  <CharacteristicCode>9</CharacteristicCode>
  <CharacteristicCode>CH</CharacteristicCode>
  <CharacteristicCode>E</CharacteristicCode>
  <CharacteristicCode>L</CharacteristicCode>
  <SeatProfileRefID>MEDIA1</SeatProfileRefID>
  <SeatProfileRefID>SEAT2</SeatProfileRefID>
  <Seat>
    <CabinColumnID>K</CabinColumnID>
  </Seat>

<OccupationStatusCode>F</OccupationStatusCode>
  <CharacteristicCode>W</CharacteristicCode>
  <CharacteristicCode>CH</CharacteristicCode>
  <CharacteristicCode>E</CharacteristicCode>
  <CharacteristicCode>L</CharacteristicCode>
  <SeatProfileRefID>MEDIA1</SeatProfileRefID>
  <SeatProfileRefID>SEAT2</SeatProfileRefID>
  <Seat>
    <CabinColumnID>L</CabinColumnID>
  </Seat>
</SeatRow>
</CabinCompartment>
</SeatMap>
</Response>
</SeatAvailabilityRS>
5.2.2 Example Centric Seatmap with prices

Seatmap requested for:

- one passenger
- price option

```xml
<SeatAvailabilityRS>
  <PayloadAttributes>
    <Version>18.1</Version>
  </PayloadAttributes>
  <Response>
    <ALaCarteOffer>
      <OfferID>Offer1</OfferID>
      <OwnerCode>AY</OwnerCode>
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5.2.3 Example Centric Seatmap with prices and Bassinet Seat requested

Seatmap requested for:
- one passenger with infant
- price option
- Bassinet seat has been requested

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