NDC SeatAvailability 15.2
Web Services Implementation Guide
Amadeus Altea New Distribution Capability
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</tr>
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<td>75</td>
</tr>
<tr>
<td>5.2.2</td>
<td>Example Centric Seatmap with prices</td>
<td>99</td>
</tr>
<tr>
<td>5.2.3</td>
<td>Eligibility reply - codeshare flight MKT: INV airline / OPE: INV airline</td>
<td>135</td>
</tr>
<tr>
<td>6</td>
<td>Legal disclaimer</td>
<td>139</td>
</tr>
</tbody>
</table>
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 for prime Altea Inventory flight (demigrated or not)
- Seatmap request for prime external flight (non Altea Inventory)
- Seatmap request for codeshare flight: operating and/or marketing flight(s) can be Altea Inventory (and also demigrated in this case) or not
- Standalone seatmap only (all information is provided in the input of the SeatAvailability query)

Seatmap with price specificities:

- In case a seatmap with price is requested for a multi-leg flight, depending on OTF variable SIT_ACTIVATE_SMWP_MULTILEG_RES, the seatmap will be returned with or without the prices, as described in <<Seatmap with price in RES channel>>.
- 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.
- All passengers must be named in order to get the prices. However, it is possible to use a “dummy” name.

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

- Request seatmap with PNR context or PNR record locator
1.4 Sequence Diagram

1.5 Prerequisites
In the current version, there is no prerequisite for SeatAvailability verb. This verb is used in standalone mode.

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 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>/SeatAvailabilityRQ</td>
<td>1</td>
<td>M</td>
<td>/@Version</td>
<td>Set to the NDC schema version to which the message complies to.</td>
</tr>
</tbody>
</table>

```xml
<SeatAvailabilityRQ Version="2.000"/>
```

2.2.2 Document

NDC Message Document information. The element should be sent empty; any additional content that is supported by the XSD and is sent in the query will be ignored by the process.

<table>
<thead>
<tr>
<th>Document</th>
<th>Designation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Description</td>
<td>/Document</td>
<td>1</td>
<td>M</td>
<td>/</td>
<td>Not used in the process</td>
</tr>
</tbody>
</table>

```xml
<Document/>
```
2.2.3 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>Party</th>
<th>Designation</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>/Party /Sender /TravelAgencySender /AgencyID</td>
<td>This information is not used in the seatmap process.</td>
<td></td>
</tr>
</tbody>
</table>

```
<Party>
  <Sender>
    <TravelAgencySender>
      <AgencyID>NCE6X0100</AgencyID>
    </TravelAgencySender>
  </Sender>
</Party>
```

2.2.4 Parameters
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.

- Activate the Pack Option so that the catalog is sending the available pack of services. With this option, the seatmap reply contains, for each seats, the inclusion of a single seat in one or multiple pack of services.

2.2.4.1 Pricing parameters

<table>
<thead>
<tr>
<th>Parameters</th>
<th>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>/Parameters /Pricing /@SimpleInd</td>
<td>The SimpleInd indicator attribute is used to indicate if a seatmap with price is requested. If SimpleInd=true, a seatmap with price is triggered.</td>
<td></td>
</tr>
</tbody>
</table>

| Override of the POS currency | 1 | O | /Parameters /Pricing /OverrideCurrency | 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. |
2.2.5 Travelers

Warning: Passenger(s) can be defined as either Anonymous Traveler(s) or Recognized Traveler(s) in a request. A request with mix of Anonymous Traveler(s) or Recognized Traveler(s) is not supported. In this case, only the Recognized Traveler(s) information will be taken into account.

2.2.5.1 AnonymousTraveler

<table>
<thead>
<tr>
<th>AnonymousPassengerDesignation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travelers</td>
<td>1</td>
<td>O</td>
<td>/Travelers</td>
<td>List of passengers.</td>
</tr>
<tr>
<td>Traveler</td>
<td>1..N</td>
<td>M</td>
<td>/Travelers/Traveler</td>
<td></td>
</tr>
<tr>
<td>Traveler without name</td>
<td>1</td>
<td>M</td>
<td>/Travelers/Traveler/AnonymousTraveler</td>
<td>ObjectKey attribute is used to identify the passenger. Format is &quot;ANONYMOUSi&quot; where i is a unique positive integer. Example: ObjectKey=&quot;ANONYMOUS1&quot;. If the request contains invalid ObjectKey format for a traveler, this traveler will not be taken into account. If the request contains duplicate ObjectKey value, only the first traveler with this value will be taken into account.</td>
</tr>
<tr>
<td>Passenger Type</td>
<td>1</td>
<td>O</td>
<td>../AnonymousTraveler/PTC</td>
<td>Describes the type of the passenger. Possible values are: ADT, CHD. When not present, ADT is considered by default.</td>
</tr>
</tbody>
</table>

This element is optional. However, please note that following functionalities are supported only if Recognized traveler(s) element(s) exists.

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

This element is used to define travelers with their names.

**Frequent Flyer cards** must be entered in this element and associated to a passenger. Note that upon reception of a Frequent Flyer card, there is a validity request sent to Customer Profile application to validate the number against the passenger name. If the frequent flyer is correctly validated, all necessary information (tier level, priority code,...) are retrieved and passed to the pricing application and to Seat server.

<table>
<thead>
<tr>
<th>Recognized Passenger Designation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Traveler with name Reference</td>
<td>1</td>
<td>M</td>
<td>/RecognizedTraveler /@ObjectKey</td>
<td>ObjectKey attribute is used to identify the passenger. Format is &quot;PAXi&quot; where i is a positive integer. Example: ObjectKey=&quot;PAX1&quot;. If the request contains invalid ObjectKey format for a traveler, this traveler will not be taken into account. If the request contains duplicate ObjectKey value, only the first traveler with this value will be taken into account.</td>
</tr>
<tr>
<td>Passenger Type</td>
<td>1</td>
<td>O</td>
<td>/RecognizedTraveler /PTC</td>
<td>Describes the type of the passenger. Examples: ADT, CHD. When not present, <strong>ADT</strong> is considered by default.</td>
</tr>
<tr>
<td>Passenger Quantity</td>
<td>1</td>
<td>O</td>
<td>/RecognizedTraveler /PTC@Quantity</td>
<td>Number of passengers. Expected value is &quot;1&quot;. In case, no value is provided value &quot;1&quot; is applied by default.</td>
</tr>
<tr>
<td>Association Infant / Adult</td>
<td>1</td>
<td>O</td>
<td>/RecognizedTraveler /PassengerAssociation</td>
<td>Defined only for Infant passenger. Reference of the adult travelling with the infant. Example: PAX1.</td>
</tr>
<tr>
<td>Passenger Birth Date</td>
<td>1</td>
<td>O</td>
<td>/RecognizedTraveler /Age /BirthDate</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>
Passenger Surname 1 M /RecognizedTraveler /Name /Surname Passenger's family name

Passenger First Name 1 O /RecognizedTraveler /Name /Given Passenger's first name(s)

Passenger Name Title 1 O /RecognizedTraveler /Name /Title Name Title. Examples: MR, MRS, DR

Passenger Frequent Flyer Reference 1..N O /RecognizedTraveler /FQTVs /@ObjectKey ObjectKey attribute is used to identify the frequent flyer card. Example: ObjectKey="FQTV1".

Card Information

Frequent Flyer Airline Code 1 O /RecognizedTraveler /FQTVs /AirlineID The 2-letters code of the Airline sponsoring the program. Example: 6X, 7S

Frequent Flyer Card Number 1 O /RecognizedTraveler /FQTVs /Account /Number The number identifying the Frequent Flyer will be validated during the seatmap process.

Type of Card Information

Form Of Identification 1..N O /RecognizedTraveler /FOIDs /FOID Form Of Identification

Type of card reference to FQTV 1 M /RecognizedTraveler /FOIDs /FOID /Type /@refs refs attribute is used to reference the frequent flyer card associated. Example: refs="FQTV1".

Frequent Flyer type code 1 M /RecognizedTraveler /FOIDs /FOID /Type /code Value "1" should be entered to indicate that the type of card provided is a Frequent Flyer card.

Frequent Flyer type ID 1 M /RecognizedTraveler /FOIDs /Type /ID Element mandatory if for FOIDs group. Not used in the seatmap process.

Mapping PTC to SSRs
In case the airline has activated the automatic mapping of PTCs into SSRs, the corresponding SSRs will be associated automatically by Seat server to the traveller having the PTC.

Specific case for adult traveling with Infant:
A PassengerAssociation element with the reference to the adult has to be defined for the Infant passenger. The referenced passenger (the adult) is then considered for the rest of the process as the "main" traveller.
Warning: No check is done on the consistency of the information entered. Example: Infant passenger without any PassengerAssociation will be considered as an individual passenger.
Notes:

- The pricing informations taken into account will be the ones of the "main" passengers.
- In case the airline has activated the automatic mapping of INF PTC into SSR INF, the SSR INF will be associated automatically by Seat server to the "main" traveller.

```xml
<Travelers>
  <Traveler>
    <RecognizedTraveler ObjectKey="PAX1">
      <PTC Quantity="1">ADT</PTC>
      <Name>
        <Surname>SMITH</Surname>
        <Given>JOHN</Given>
        <Title>MR</Title>
      </Name>
      <FQTVs ObjectKey="FQTV1">
        <AirlineID>6X</AirlineID>
        <Account>
          <Number>1111NDC</Number>
        </Account>
      </FQTVs>
      <FOIDs>
        <FOID>
          <Type refs="FQTV1">1</Code>
        </FOID>
      </FOIDs>
    </RecognizedTraveler>
  </Traveler>
  <Traveler>
    <RecognizedTraveler ObjectKey="PAX2">
      <PTC Quantity="1">INF</PTC>
      <PassengerAssociation>PAX1</PassengerAssociation>
      <Age>
        <BirthDate>2016-01-15</BirthDate>
      </Age>
      <Name>
        <Surname>SMITH</Surname>
        <Given>PAUL</Given>
        <Title>MR</Title>
      </Name>
    </RecognizedTraveler>
  </Traveler>
</Travelers>
```

2.2.6 ShoppingResponseIDs

This element is mandatory.

In the current version, this element is currently not used in the seatmap process and any value can be entered.

Here is an example of how this element could be filed.
2.2.6.1 Query
This element is used to indicate Amadeus record locator.

In case an Amadeus record locator is provided in input, the seatmap process retrieves all the PNR information available and associated to the Flight Date Segment of the seatmap request. In case the provided record locator is invalid, the process stops and error 'NO MATCHING PNRS FOUND FOR THIS SEARCH REQUEST' is returned.

Limitation:
In case a PNR record locator is provided in input of the SeatAvailability message, neither the pricing information from the TST nor the pricing information provided in input are taken into account for the price retrieval.

2.2.7 DataList

2.2.7.1 FlightSegmentList
The following flight data are mandatory when requesting a seatmap:

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

<table>
<thead>
<tr>
<th>Flight Segment</th>
<th>Designation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flight Segment</td>
<td></td>
<td>1</td>
<td>M</td>
<td>/FlightSegmentList /FlightSegment</td>
<td>The seatmap could be requested only for one segment.</td>
</tr>
<tr>
<td>Departure</td>
<td>Code</td>
<td>1</td>
<td>M</td>
<td>/FlightSegmentList /FlightSegment</td>
<td>3 letters airport code of the departure airport.</td>
</tr>
<tr>
<td>Date</td>
<td></td>
<td>1</td>
<td>M</td>
<td>/FlightSegmentList /FlightSegment</td>
<td>Departure date. Format: YYYY-MM-DD</td>
</tr>
<tr>
<td>Arrival</td>
<td>Code</td>
<td>1</td>
<td>M</td>
<td>/FlightSegmentList /FlightSegment</td>
<td>3 letters airport code of the arrival airport.</td>
</tr>
<tr>
<td>Marketing</td>
<td>Carrier Code</td>
<td>1</td>
<td>M</td>
<td>/FlightSegmentList /FlightSegment</td>
<td>Airline code of the marketing carrier.</td>
</tr>
<tr>
<td>Flight number</td>
<td></td>
<td>1</td>
<td>M</td>
<td>/FlightSegmentList /FlightSegment</td>
<td>Flight number.</td>
</tr>
<tr>
<td>Operational</td>
<td>Suffix</td>
<td>1</td>
<td>O</td>
<td>/FlightSegmentList /FlightSegment</td>
<td>The attribute OperationSuffix is used to convey this information. Example: OperationalSuffix=&quot;A&quot;.</td>
</tr>
<tr>
<td>Booking class</td>
<td>code</td>
<td>1</td>
<td>O</td>
<td>/FlightSegmentList /FlightSegment</td>
<td>Booking class code for which the seatmap is requested.</td>
</tr>
</tbody>
</table>

```xml
<FlightSegmentList>
  <FlightSegment SegmentKey="SEG1">
    <Departure>
      <AirportCode>LHR</AirportCode>
      <Date>2016-01-04</Date>
    </Departure>
    <Arrival>
      <AirportCode>FRA</AirportCode>
    </Arrival>
  </FlightSegment>
</FlightSegmentList>
```
2.2.7.2  **ServiceList**  
This element is used to defined the SSR or SK elements associated to the Travelers.

Notes:

- ServiceList element will be taken into account only if RecognizedTraveler(s) had been defined.
- ServiceList element(s) referenced to the "main" RecognizedTraveler only are taken into account.
- There is no check on the validity, or on the status of the SSR or SK provided in input.
- In case no passenger association is defined in the sub-element Associations for a given service, the process considers that the Service applies to all passengers defined in the seatmap request.

<table>
<thead>
<tr>
<th>Services (SSR / SK) Designation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service List</td>
<td>1</td>
<td>M</td>
<td>/ServiceList</td>
<td>List of Services.</td>
</tr>
<tr>
<td>Service</td>
<td>0..N</td>
<td>M</td>
<td>/ServiceList /Service</td>
<td>List of all SSRs or SK elements associated to the passengers.</td>
</tr>
<tr>
<td>Service Id</td>
<td>1</td>
<td>M</td>
<td>/ServiceList /Service /ServiceID</td>
<td>ID of the service. Example: SSR1. Owner attribute is mandatory, but there is no check done on the process regarding the owner value provided.</td>
</tr>
<tr>
<td>Service Name</td>
<td>1</td>
<td>M</td>
<td>/ServiceList /Service /Name</td>
<td>Name of the service. Not used on the seatmap process.</td>
</tr>
<tr>
<td>SSR or SK code</td>
<td>0..1</td>
<td>M</td>
<td>/ServiceList /Service /Encoding /Code</td>
<td>Code of the SSR or SK element. Example: EXMP, DEAF, WCHC, BSCT...</td>
</tr>
<tr>
<td>SSR or SK description</td>
<td>1</td>
<td>M</td>
<td>/ServiceList /Service /Descriptions /Description/</td>
<td>Not used on the seatmap process.</td>
</tr>
<tr>
<td>SSR or SK description detail</td>
<td>0..1</td>
<td>O</td>
<td>/ServiceList /Service /Descriptions /Description /Text</td>
<td>Description of the Service. Not used on the seatmap process.</td>
</tr>
</tbody>
</table>
Apply to all travelers indicator 0..1 O
/ServiceList /Service /Association /Traveler /AllTravelerInd
If value is equal to TRUE, the service applies to all travelers defined in the seatmap request.

Traveler Reference 0..1 O
/ServiceList /Service /Association /Traveler /TravelerReferences

Example of query expected if we have 3 passengers with:

- PAX1 has a SSR WCHR
- All passengers have a SK element NCAM
- PAX1 and PAX2 have a SSR BLND

```
<ServiceList>
  <Service>
    <ServiceID Owner="6X">SSR1</ServiceID>
    <Name>SSR1</Name>
    <Encoding>
      <Code>WCHR</Code>
    </Encoding>
    <Descriptions>
      <Description></Description>
    </Descriptions>
    <Associations>
      <Traveler>
        <TravelerReferences>PAX1</TravelerReferences>
      </Traveler>
    </Associations>
  </Service>
  <Service>
    <ServiceID Owner="6X">SSR2</ServiceID>
    <Name>SSR2</Name>
    <Encoding>
      <Code>NCAM</Code>
    </Encoding>
    <Descriptions>
      <Description></Description>
    </Descriptions>
    <Associations>
      <Traveler>
        <AllTravelerInd>TRUE</AllTravelerInd>
      </Traveler>
    </Associations>
  </Service>
  <Service>
    <ServiceID Owner="6X">SSR3</ServiceID>
    <Name>SSR3</Name>
    <Encoding>
      <Code>BLND</Code>
    </Encoding>
    <Descriptions>
      <Description><Text>Blind</Text></Description>
    </Descriptions>
    <Associations>
      <Traveler>
        <TravelerReferences>PAX1</TravelerReferences>
      </Traveler>
    </Associations>
  </Service>
</ServiceList>
```
Example of query expected if we have one ADT and one INF, and ADT requests a bassinet seat. The INF must be present in the Passenger list as well.

```
<ServiceList>
  <Service>
    <ServiceID Owner="6X">SSR1</ServiceID>
    <Name>SSR1</Name>
    <Encoding>
      <Code>BSCT</Code>
    </Encoding>
    <Descriptions>
      <Description></Description>
    </Descriptions>
    <Associations>
      <Traveler>
        <TravelerReferences>PAX1</TravelerReferences>
      </Traveler>
    </Associations>
  </Service>
</ServiceList>
```

2.2.8 Metadata

2.2.8.1 Shopping/ShopMetadataGroup - Fare Element

Following pricing information shall be entered in Fare element in order to get an accurate pricing reply:

- Fare Basis. This information is mandatory for the pricing request. In case no information is provided in input, the process handles, per default, the fare basis Y (which may lead to erroneous pricing).
- PTC overrides. This information is mandatory for the pricing request. In case no override is present in input, the PTC provided in the element Traveler is used. If no PTC information information is provided in the element Traveler, the process handles, per default, the PTC of an adult (ADT).
- Ticket designator.
- Ticket number.

Pricing information must be entered at passenger level. Please note the following points:
- Fare element will be taken into account only if it is referenced to an Anonymous Traveler or a Recognized Traveler defined as a "main" passenger.
- There is no check on the consistency of the Fare data provided in input.

<table>
<thead>
<tr>
<th>Fare Information</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fare Code</td>
<td>1</td>
<td>M</td>
<td>/Fare /FareCode /Code</td>
<td>Fare Type Code. Mandatory element not used by seatmap process. Example of encoding: 1.</td>
</tr>
<tr>
<td>Fare Component Details</td>
<td>1..N</td>
<td>M</td>
<td>/Fare /FareDetail /FareComponent</td>
<td>Fare details per passengers. If no FareComponentElement is found for a passenger, the default values are used.</td>
</tr>
<tr>
<td>Fare Component Reference to Traveler</td>
<td>1..N</td>
<td></td>
<td>@refs</td>
<td>Reference to the Traveler is done using refs attributes (example: refs=PAX2 or refs=ANONYMOUS1).</td>
</tr>
<tr>
<td>Fare Basis</td>
<td>1</td>
<td>O</td>
<td>/Fare/ FareDetail /FareComponent /FareBasis /FareBasisCode /Code</td>
<td>Fare basis code. Example: YIF. If no fare basis is provided, the process handles, per default, the fare basis Y.</td>
</tr>
<tr>
<td>Override PTC</td>
<td>1</td>
<td>O</td>
<td>/Shopping/ShopMetadataGroup/Fare/FareDetail/FareComponent/FareBasis/FareRulesRemarks/FareRulesRemark/Category/Code</td>
<td>Used if the PTC provided in Traveler element needs to be overridden. Example: INF. If no override is entered, the process takes the PTC in input of Traveler element if it is defined.</td>
</tr>
</tbody>
</table>
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>Set to the NDC schema version to which the message complies to.</td>
<td></td>
</tr>
</tbody>
</table>

```xml
<SeatAvailabilityRS Version="2.000"/>
```

3.2.2 Document
NDC Message Document information. This element is mandatory in the seatmap reply but will be returned empty.

<table>
<thead>
<tr>
<th>Document</th>
<th>Designation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version of the service</td>
<td>1</td>
<td>M</td>
<td>/Document</td>
<td>Field send empty.</td>
<td></td>
</tr>
</tbody>
</table>

```xml
<Document/>
```

3.2.3 Success
This element indicates that the query could be processed and some content is returned in the reply. The presence of the empty Success element explicitly indicated that the message succeeded.

<table>
<thead>
<tr>
<th>Success</th>
<th>Designation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success Indicator</td>
<td>1</td>
<td>M</td>
<td>/Success</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 3.2.4 Warnings

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

<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>/Warnings /Warning /@Code</td>
<td>Attribute 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 &quot;710&quot; will be used.</td>
<td></td>
</tr>
<tr>
<td>Warning Description</td>
<td>1..N</td>
<td>O</td>
<td>/Warnings /Warning</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>
<td></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
<Warnings>
  <Warning Code="710">13555 - Cabin varies over legs.</Warning>
</Warnings>
```

Here is the list of possible warnings:

<table>
<thead>
<tr>
<th>Warnings</th>
<th>IATA Warning Code</th>
<th>Warning Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multileg warnings</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>710</td>
<td>13555 - Cabin varies over legs</td>
<td>Some seats belong to different cabins on the different legs.</td>
<td></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>
<td></td>
</tr>
</tbody>
</table>
### Seatmap with price warnings

<table>
<thead>
<tr>
<th>Code</th>
<th>Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>710</td>
<td>600 - 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>710</td>
<td>601 - ERROR DURING PRICING PROCESS</td>
<td>Communication issue with ATPCO catalog</td>
</tr>
<tr>
<td>710</td>
<td>602 - ERROR DURING PRICING PROCESS</td>
<td>Communication unavailable with ATPCO catalog</td>
</tr>
<tr>
<td>710</td>
<td>603 - 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>710</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>710</td>
<td>605 - PRICING ERROR + error number returned by pricing + - + Text message returned by pricing</td>
<td>A pricing error is received from catalog reply.</td>
</tr>
<tr>
<td>710</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>Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>710</td>
<td>620 - Invalid Option</td>
<td>Option provided in input of the seatmap query has an invalid format.</td>
</tr>
</tbody>
</table>

### 3.2.5 Flights / Cabin

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 Flights/Cabin 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 Flights/Cabin elements (all having at least one seat belonging to the targeted cabin).

For each Flights/Cabin 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 along with their seat position (Window, Aisle, center seat, Window and Aisle together) and the range of rows,
- List of facilities along with their position,
- Cabin Code matching the requested booking class,
- List of seat references belonging to the compartment.

<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 M</td>
<td>/Flights /FlightSegmentReferences/</td>
<td>Reference to the flight segment defined under DataList element.</td>
<td></td>
</tr>
<tr>
<td>Cabin</td>
<td>1..N M</td>
<td>/Flights /Cabin</td>
<td>Gathers configuration details of a compartment. The attribute UpperDeckInd indicates if the engineering zone is defined as Upper deck.</td>
<td></td>
</tr>
<tr>
<td>Engineering zone Code</td>
<td>1 M</td>
<td>/Flights /Cabin /Code</td>
<td>Engineering zone code. Example: &quot;C&quot;.</td>
<td></td>
</tr>
</tbody>
</table>

**Row Characteristics: Overwings and Exit Rows**

<p>| Cabin Layout                   | 1 M        | /Flights /Cabin /CabinLayout | Element containing the details of row characteristics: Overwings and Exit rows. |
| Overwing rows First row        | 1 O        | /Flights /Cabin /CabinLayout /WingPosition /Rows /First | Row number corresponding to the first row of the overwing. |
| Overwing rows Last row         | 1 O        | /Flights /Cabin /CabinLayout /WingPosition /Rows /Last | Row number corresponding to the last row of the overwing. |
| Exit rows First row            | 1..N O     | /Flights /Cabin /CabinLayout /ExitRowPosition /Rows /First | Row number corresponding to the first row of the Exit row. |
| Exit rows Last row             | 1..N O     | /Flights /Cabin /CabinLayout /ExitRowPosition /Rows /Last | Row number corresponding to the last row of the Exit row. |
| Exit rows Relative Orientation | 1 O        | /Flights /Cabin /CabinLayout | Used only when the Exit row characteristics is not defined on a row |</p>
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exit rows Relative Distance</td>
<td>1 O</td>
<td>Used only when the Exit row characteristics is not defined on a row with row number. In this case, this field is used to give the relative distance of the exit row from the row defined in /Flights /Cabin /CabinLayout /ExitRowPosition /Rows. The value provided is an integer. Example: value is &quot;2&quot;.</td>
</tr>
<tr>
<td>Configuration of the Compartment</td>
<td></td>
<td>List all the columns of the Compartment. The format is a letter code. The attribute position is used to defined the seat position of the column. Example: &quot;W&quot; (window), &quot;A&quot; aisle, &quot;9&quot; center seat, &quot;WA&quot; Window and Aisle together.</td>
</tr>
<tr>
<td>Configuration Columns</td>
<td>1 O</td>
<td>/Flights /Cabin /SeatDisplay /Column</td>
</tr>
<tr>
<td>Configuration Range first row</td>
<td>1 O</td>
<td>/Flights /Cabin /SeatDisplay /Row /First Range of the Compartment: first row.</td>
</tr>
<tr>
<td>Configuration Range Last row</td>
<td>1 O</td>
<td>/Flights /Cabin /SeatDisplay /Row /Last Range of the Compartment: last row.</td>
</tr>
<tr>
<td>List of facilities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Component details</td>
<td>1..N O</td>
<td>/Flights /Cabin /SeatDisplay /Component/ Element containing the details of one facility.</td>
</tr>
<tr>
<td>Row Reference</td>
<td>1 M</td>
<td>/Flights/Cabin /SeatDisplay /Component /Locations /Location /Row /Position Row number used as reference.</td>
</tr>
<tr>
<td>Field Name</td>
<td>Type</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Row Relative Orientation</td>
<td>1</td>
<td>This field is used to give the relative orientation of the facility from the row defined in /Flights /Cabin /SeatDisplay /Component /Locations /Location /Row /Orientation /Code. Possible values are front (value is &quot;FRO&quot;), rear (value is &quot;REA&quot;) or aligned (value is &quot;INL&quot;).</td>
</tr>
<tr>
<td>Row Relative Distance</td>
<td>1</td>
<td>This field is used to give the relative distance of the facility from the row defined in /Flights /Cabin /SeatDisplay /Component /Locations /Location /Row /Orientation /Definition. The value provided is an integer. Example: value is &quot;2&quot;. Note that if the corresponding Row Relative Orientation is &quot;INL&quot; (aligned), this field is not used.</td>
</tr>
<tr>
<td>Column Reference</td>
<td>1</td>
<td>This field is used to give the relative orientation of the facility from the column defined in /Flights /Cabin /SeatDisplay /Component /Locations /Location /Column /Orientation /Code. Possible values are right (value is &quot;RIG&quot;), left (value is &quot;LEF&quot;) or aligned (value is &quot;INL&quot;).</td>
</tr>
<tr>
<td>Column Relative Distance</td>
<td>1</td>
<td>This field is used to give the relative distance of the facility from the Column defined in /Flights /Cabin /SeatDisplay /Component /Locations /Location /Column /Orientation /Definition. The value provided is an integer.</td>
</tr>
</tbody>
</table>
Examples: value is "2". Note that if the corresponding Column Relative Orientation is "INL" (aligned), this field is not used.

<table>
<thead>
<tr>
<th>Facility type</th>
<th>1</th>
<th>O</th>
<th>/Flights /Cabin /SeatDisplay /Component /Type /Code</th>
<th>Type of facility. &quot;LA&quot; for lavatory.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cabin Code</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cabin code</td>
<td>1</td>
<td>M</td>
<td>/Flights /Cabin /CabinType</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>1..N</td>
<td>O</td>
<td>/Flights /Cabin /CabinLayout /SeatReference</td>
<td>List of seats belonging to the engineering zone. This reference is used afterward in association with DataList element. The format is the following: &quot;seat_1&quot;+ compartment code + seat number (on 3 digits) + column number. Example: seat_1A007D.</td>
</tr>
</tbody>
</table>

### 3.2.5.1 Facilities

Here is an example of the way facilities are conveyed:

```xml
<Component>
  <Locations>
    <Location>
      <Row>
        <Position>025</Position>
        <Orientation>REA</Orientation>
      </Row>
      <Column>
        <Position>A</Position>
        <Orientation>INL</Orientation>
      </Column>
    </Location>
  </Locations>
  <Type>
    LA
  </Type>
</Component>
```
3.2.5.2 Cabin defined in one compartment only

Considering the following seatmap defined in Altea Inventory:
With following specificities:

- the seats highlighted in red correspond to the seats belonging to cabin C.
- there is only compartment, defined with the letter code "M".
- Exit row characteristic is defined on a row without row number, in front of row 1 at a distance of 2 rows.

```
<Flights>
  <FlightSegmentReferences>SEG1</FlightSegmentReferences>
  <Cabin>
    <Code>M</Code>
    <CabinLayout>
      <ExitRowPosition>
        <Rows>
          <First>001</First>
          <Last>001</Last>
          <Position>
            <Code>FRO</Code>
            <Definition>2</Definition>
          </Position>
        </Rows>
      </ExitRowPosition>
    </CabinLayout>
  </Cabin>
</Flights>
```
<Row>
  <Position>001</Position>
  <Orientation>
    <Code>FRO</Code>
  </Orientation>
</Row>

<Definition>1</Definition>
</Row>
</Column>

<Row>
  <Position>D</Position>
  <Orientation>
    <Code>INL</Code>
  </Orientation>
</Column>
</Location>
</Locations>
<Type>
  <Code>GN</Code>
</Type>
</Component>

<Row>
  <Position>E</Position>
  <Orientation>
    <Code>INL</Code>
  </Orientation>
</Column>
</Location>
</Locations>
<Type>
  <Code>GN</Code>
</Type>
</Component>

<Row>
  <Position>F</Position>
  <Orientation>
    <Code>INL</Code>
  </Orientation>
</Column>
</Location>
</Locations>
<Type>
  <Code>GN</Code>
</Type>
</Component>

<Row>
  <Position>001</Position>
  <Orientation>
    <Code>FRO</Code>
  </Orientation>
</Row>

<Definition>1</Definition>
</Row>
</Column>

<Row>
  <Position>E</Position>
  <Orientation>
    <Code>INL</Code>
  </Orientation>
</Column>
</Location>
</Locations>
<Type>
  <Code>GN</Code>
</Type>
</Component>

<Row>
  <Position>F</Position>
  <Orientation>
    <Code>INL</Code>
  </Orientation>
</Column>
</Location>
</Locations>
<Type>
  <Code>GN</Code>
</Type>
</Component>

<Row>
  <Position>001</Position>
  <Orientation>
    <Code>FRO</Code>
  </Orientation>
</Row>

<Definition>1</Definition>
</Row>
</Column>

<Row>
  <Position>F</Position>
  <Orientation>
    <Code>INL</Code>
  </Orientation>
</Column>
</Location>
</Locations>
<Type>
  <Code>GN</Code>
</Type>
</Component>
3.2.5.3 **Cabin spread over two compartments**

Considering the following seatmap defined in Altea Inventory:
With following specificities:

- the seats highlighted in red correspond to the seats belonging to cabin C.
- there are 2 compartments, defined with the letter codes "A" and "B". There are seats of cabin C belonging to both compartments.
- Exit row characteristic is defined on a row with row number.
- Overwing row characteristics are defined on a row with row number.

In case a seatmap is requested for a booking class belonging to cabin C, we will have following Flight element:

```xml
<Flights>
  <FlightSegmentReferences>SEG1</FlightSegmentReferences>
  <Cabin>
    <Code>A</Code>
    <CabinLayout>
      <ExitRowPosition>
        <Rows>
          <First>005</First>
          <Last>005</Last>
        </Rows>
      </ExitRowPosition>
    </CabinLayout>
    <SeatDisplay>
      <Columns Position="W">A</Columns>
      <Columns Position="A">B</Columns>
      <Columns Position="A">C</Columns>
      <Columns Position="W">D</Columns>
      <Rows>
```
3.2.5.4 Row Characteristics specificities

There are 2 types of row characteristics available on Altea Inventory:

- Overwings
- Exit

Note that the Row characteristics are used only for the display of the seatmap. There is no seating rules based on the row characteristics. In other terms, if a specific behaviour needs to be defined for Overwings seats or Exit row seats, the corresponding seats should have specifically the Overwing seat characteristics (OW) or the Exit row seat characteristics (E).

The format of the rows characteristics in SeatAvailabilityRS is slightly different between Overwings and Exit, due to NDC format limitations.

Here are 2 examples of seatmaps layout defined in Altea Inventory:

**Seatmap 1:**

![Seatmap 1](image1)

**Seatmap 2:**

![Seatmap 2](image2)
3.2.5.4.1 Overwing

- In case the overwing starts and ends on rows having row numbers, WingPosition/Rows/First and WingPosition/Rows/Last elements are used to define the range of the wing.

- In case the overwing starts or ends on a row that do not have row number, the closest row having a Row number is used to define the beginning of the end of the range.

- **Seatmap 1: Overwing starts and ends on rows having row numbers**

  Overwing starts on row 9 and ends on row 11.

  ```xml
  <CabinLayout>
    <WingPosition>
      <Rows>
        <First>009</First>
        <Last>011</Last>
      </Rows>
    </WingPosition>
  </CabinLayout>
  ```

- **Seatmap 2: Overwing starts on row without row number**

  Overwing starts 2 "rows" before row number 9.
  In this example, we have a degraded description of the Overwing row characteristics due to the NDC limitation.

  ```xml
  <CabinLayout>
    <WingPosition>
      <Rows>
        <First>009</First>
        <Last>011</Last>
      </Rows>
    </WingPosition>
  </CabinLayout>
  ```
3.2.5.4.2 Exit

- In case the exit is defined on rows having row numbers, ExitRowPosition/Rows/First and ExitRowPosition/Rows/Last elements are used to define the range of the exit.

- In case the Exit is defined on a row without row number, elements: ExitRowPosition/Rows/Position/Code and ExitRowPosition/Rows/Position/Definition are needed in the seatmap reply in order to determine the correct position of the exit row characteristics. Possible values of orientation (ExitRowPosition/Rows/Position/Code) are: front (FRO) and rear (REA). Note that in this case, the ExitRowPosition element describes only one row (the range is equal to 1, First and Last elements are the same).

- Seatmap 1: Exit starts and ends on rows having row numbers

```xml
<CabinLayout>
  <ExitRowPosition>
    <Rows>
      <First>008</First>
      <Last>009</Last>
    </Rows>
  </ExitRowPosition>
</CabinLayout>
```

- Seatmap 2: Exit starts on row without row number

Exit row range starts 2 "rows" before row number 9 and ends in row 9.

```xml
<CabinLayout>
  <ExitRowPosition>
    <Rows>
      <First>009</First>
      <Last>009</Last>
      <Position>
        <Code>FRO</Code>
        <Definition>2</Definition>
      </Position>
    </Rows>
    <Rows>
      <First>009</First>
      <Last>009</Last>
      <Position>
        <Code>FRO</Code>
        <Definition>1</Definition>
      </Position>
    </Rows>
    <Rows>
      <First>009</First>
      <Last>009</Last>
    </Rows>
  </ExitRowPosition>
</CabinLayout>
```
3.2.5.5 Facilities specificities

The location of facilities is given using:

- a row number and an orientation. Possible values of orientation from a row are: front (FRO), rear (REA) or inline (INL).
- a column number and an orientation. Possible values of orientation from a column are: right (RIG), left (LEF) or inline (INL).

In case the orientation is different from inline (INL), this means that the facility is not located on a row or column having a number. In this case, the relative distance from the closest row, taking into account the orientation, is provided.

Here are examples of the encoding of the facilities.

Seatmap 1:

- Lavatory (LA) facilities at the beginning of compartment B
- Luggage Storage (LG) facilities on 8C and 8D
Seatmap 2:

- Description of all facilities from row 87 to the end of the compartment:
<Orientation>
  <Code>INL</Code>
</Orientation>

<Row>
  <Column>
    <Position>J</Position>
    <Orientation>
      <Code>INL</Code>
    </Orientation>
  </Column>
</Row>

<Row>
  <Column>
    <Position>K</Position>
    <Orientation>
      <Code>INL</Code>
    </Orientation>
  </Column>
</Row>

<Row>
  <Column>
    <Position>D</Position>
    <Orientation>
      <Code>INL</Code>
    </Orientation>
  </Column>
</Row>

<Row>
  <Column>
    <Position>B</Position>
    <Orientation>
      <Code>INL</Code>
    </Orientation>
  </Column>
</Row>

<Definition>1</Definition>
<Row>
  <Position>088</Position>
  <Orientation>
    <Code>REA</Code>
  </Orientation>
</Row>

<Definition>3</Definition>
</Orientation>
</Row>
<Column>
  <Position>A</Position>
  <Orientation>
    <Code>INL</Code>
  </Orientation>
</Column>
</Row>
</Locations>
<Type>
  <Code>SO</Code>
</Type>
</Component>

<Component>
  <Locations>
    <Location>
      <Row>
        <Position>088</Position>
        <Orientation>
          <Code>REA</Code>
        </Orientation>
      </Row>
      <Column>
        <Position>B</Position>
        <Orientation>
          <Code>INL</Code>
        </Orientation>
      </Column>
    </Location>
  </Locations>
  <Type>
    <Code>SO</Code>
  </Type>
</Component>

<Component>
  <Locations>
    <Location>
      <Row>
        <Position>088</Position>
        <Orientation>
          <Code>REA</Code>
        </Orientation>
      </Row>
      <Column>
        <Position>C</Position>
        <Orientation>
          <Code>INL</Code>
        </Orientation>
      </Column>
    </Location>
  </Locations>
  <Type>
    <Code>SO</Code>
  </Type>
</Component>
<Component>
  <Locations>
    <Location>
      <Row>
        <Position>088</Position>
        <Orientation>
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        </Orientation>
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    </Location>
    <Column>
      <Position>D</Position>
      <Orientation>
        <Code>INL</Code>
      </Orientation>
    </Column>
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    </Type>
  </Locations>
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<Component>
  <Locations>
    <Location>
      <Row>
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        </Orientation>
      </Row>
      <Definition>3</Definition>
    </Location>
    <Column>
      <Position>E</Position>
      <Orientation>
        <Code>INL</Code>
      </Orientation>
    </Column>
    <Type>
      <Code>LA</Code>
    </Type>
  </Locations>
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<Component>
  <Locations>
    <Location>
      <Row>
        <Position>088</Position>
        <Orientation>
          <Code>REA</Code>
        </Orientation>
      </Row>
      <Definition>3</Definition>
    </Location>
    <Column>
      <Position>F</Position>
      <Orientation>
        <Code>INL</Code>
      </Orientation>
    </Column>
    <Type>
      <Code>LA</Code>
    </Type>
  </Locations>
</Component>
<Code>LA</Code>
</Type>
</Component>
<Component>
<Locations>
<Location>
<Row>
<Position>088</Position>
<Orientation>
<Code>REA</Code>
</Orientation>
</Row>
<Definition>3</Definition>
</Location>
</Locations>
<Type>
<Code>LA</Code>
</Type>
</Component>
<Component>
<Locations>
<Location>
<Row>
<Position>088</Position>
<Orientation>
<Code>INL</Code>
</Orientation>
</Row>
<Definition>3</Definition>
</Location>
</Locations>
<Type>
<Code>LA</Code>
</Type>
</Component>
<Component>
<Locations>
<Location>
<Row>
<Position>088</Position>
<Orientation>
<Code>REA</Code>
</Orientation>
</Row>
<Definition>3</Definition>
</Location>
</Locations>
<Type>
<Code>LA</Code>
</Type>
</Component>
<Component>
<Locations>
<Location>
<Row>
<Position>088</Position>
<Orientation>
<Code>RIG</Code>
</Orientation>
</Row>
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</Location>
</Locations>
<Type>
<Code>LA</Code>
</Type>
</Component>
<Component>
<Locations>
<Location>
<Row>
<Position>088</Position>
<Orientation>
<Code>REA</Code>
</Orientation>
</Row>
<Definition>4</Definition>
</Location>
</Locations>
<Type>
<Code>LA</Code>
</Type>
</Component>
<Component>
    <Locations>
        <Location>
            <Row>
                <Position>088</Position>
                <Orientation>
                    <Code>REA</Code>
                </Orientation>
            </Row>
            <Column>
                <Position>B</Position>
                <Orientation>
                    <Code>INL</Code>
                </Orientation>
            </Column>
        </Location>
        <Location>
            <Row>
                <Position>088</Position>
                <Orientation>
                    <Code>REA</Code>
                </Orientation>
            </Row>
            <Column>
                <Position>C</Position>
                <Orientation>
                    <Code>INL</Code>
                </Orientation>
            </Column>
        </Location>
    </Locations>
</Component>

<Definition>4</Definition>
</Column>
</Location>
</Type>
</Component>
</Components>
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</Component>
</Locations>
</Type>
</Component>
</Locations>
<Definition>4</Definition>
3.2.6 Services

This element is used to convey the price element per passenger.

This element is used to convey one of the following information:

- Old price per passenger, with Discount information
- New price per passenger
- Pack of services info and seat association

**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.
- The association with an offer to define the commercial name associated to the seat service (information coming from the pricing catalog of the seats)
- The association with the pricing indicators (information coming from the pricing catalog of the seats)
  - Refundable / exchangeable indicator
  - Commission indicator
- The associations with the seats.

<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>Service ID</td>
<td>1</td>
<td>M</td>
<td>/Services /Service /ServiceID</td>
<td>Unique ID of the service. Following Prefix is used: &quot;PRICE&quot;. An incremental number is then append after the prefix.</td>
<td></td>
</tr>
<tr>
<td>Service element owner</td>
<td>1</td>
<td>M</td>
<td>/Services /Service /ServiceID /@Owner</td>
<td>Same value as Airline code of the marketing carrier. Example: Owner=&quot;6X&quot;</td>
<td></td>
</tr>
<tr>
<td>Service Name</td>
<td>1</td>
<td>M</td>
<td>/Services /Service /Name</td>
<td>Not used in seatmap process. Empty field.</td>
<td></td>
</tr>
<tr>
<td>Pricing description</td>
<td>1</td>
<td>O</td>
<td>/Services /Service /Descriptions /Description /Text</td>
<td>Pricing description of the seat(s).</td>
<td></td>
</tr>
<tr>
<td>Price details</td>
<td>1</td>
<td>O</td>
<td>/Services /Service /Price</td>
<td>Price information for a Price element.</td>
<td></td>
</tr>
<tr>
<td>Reference of Discount</td>
<td>1</td>
<td>O</td>
<td>/Services /Service /Price /@ref</td>
<td>Reference of Discount. The reference is composed of DIS+RuleID. Discount/Promo-code object is described in OtherMetadata</td>
<td></td>
</tr>
<tr>
<td>Total amount</td>
<td>1</td>
<td>M</td>
<td>/Services /Service /Price /Total</td>
<td>Total amount for the seat reservation.</td>
<td></td>
</tr>
<tr>
<td>Total amount currency</td>
<td>1</td>
<td>M</td>
<td>/Services /Service /Price /Total /@Code</td>
<td>Attribute Code (3 letters) is used to convey the currency code. Example: Code=&quot;USD&quot;.</td>
<td></td>
</tr>
<tr>
<td>Old Price / New Price / Exemption Source</td>
<td>1</td>
<td>O</td>
<td>/Services /Service /Price /Details /Detail /Application</td>
<td>Field used to differentiate the Old Price from the New Price. For Old Price, &quot;AMOUNT BEFORE DISCOUNT&quot; is returned; while this field is empty for the New Price. This Field is also used if Total amount is set to 0, in other terms, if the passenger is exempted. In</td>
<td></td>
</tr>
</tbody>
</table>
that case, there are 2 possible values:

- "INV" which means that the exemption is coming from a seating exemption rule defined in Altea Inventory
- "CAT" which means that the exemption is coming from the pricing catalog of the seat

<table>
<thead>
<tr>
<th>Field</th>
<th>Relationship</th>
<th>Min</th>
<th>Max</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base amount</td>
<td>/Services</td>
<td>1</td>
<td>M</td>
<td>Base amount for the seat reservation.</td>
</tr>
<tr>
<td>Base amount currency</td>
<td>/Services</td>
<td>1</td>
<td>M</td>
<td>Attribute Code (3 letters) is used to convey the currency code. Example: Code=&quot;USD&quot;.</td>
</tr>
<tr>
<td>Taxes total amount</td>
<td>/Services</td>
<td>1</td>
<td>M</td>
<td>Taxes total amount for the seat reservation.</td>
</tr>
<tr>
<td>Taxes total amount currency</td>
<td>/Services</td>
<td>1</td>
<td>M</td>
<td>Attribute Code (3 letters) is used to convey the currency code. Example: Code=&quot;USD&quot;.</td>
</tr>
<tr>
<td>Association details</td>
<td>/Services</td>
<td>1..N</td>
<td>M</td>
<td>Notes:</td>
</tr>
<tr>
<td></td>
<td>/Associations</td>
<td></td>
<td></td>
<td>- At least one association to a seat is mandatory.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>- A passenger association is mandatory.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>- Association to a Refundable indicator may be defined.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>- Association to a Commission indicator may be defined.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>- Association to an Offer may be defined.</td>
</tr>
<tr>
<td>Association Traveler</td>
<td>/Associations</td>
<td>1</td>
<td>O</td>
<td>Passenger reference as defined in RecognizedTraveler. Example: PAX1.</td>
</tr>
<tr>
<td>Association Offer</td>
<td>/Offer</td>
<td>1</td>
<td>O</td>
<td>Reference to the commercial name. List of commercial name defined in /Metadata/Shopping/ShopMetadataGroup/Offer/OfferMetadatas/OfferMetadata element.</td>
</tr>
</tbody>
</table>
Two elements OtherAssociation may be defined:

- for the refundable/Exchangeable indicator: reference value having prefix "REFUND_"
- for the commission indicator: reference value having prefix "COMMISSION_"

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

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"
- service is not refundable, not exchangeable and not commissionable

```xml
<Services>
  <Service>
    <ServiceID Owner="6X">PRICE1</ServiceID>
    <Name/>
    <Descriptions>
      <Description>
        <Text>Extra EXTRA-LEG-ROOM</Text>
      </Description>
    </Descriptions>
    <Price>
      <Total Code="USD">0</Total>
      <Details>
        <Detail>
          <Application >INV</Application>
          <Amount Code="USD">0</Amount>
        </Detail>
      </Details>
      <Taxes>
        <Total Code="USD">0</Total>
      </Taxes>
    </Price>
    <Associations>
```
<Traveler></Traveler>
</Associations>
</Association>
</Associations>
</Associations>
</Offer>
</Associations>
</Offer>
</Associations>
</SeatReference>
</Associations>
</SeatReference>
</Associations>
</SeatReference>
</Associations>
</Service>
<Service>
<ServiceID Owner="6X">PRICE2</ServiceID>
<Name/>
<Descriptions>
<Description>
<Text>Extra EXTRA-LEG-ROOM</Text>
</Description>
</Descriptions>
</Price>
<Price>
>Total Code="USD">15.00</Total>
<Details>
<Detail>
<Amount Code="USD">15.00</Amount>
</Detail>
</Details>
<Taxes>
>Total Code="USD">0.00</Total>
</Taxes>
</Price>
</Associations>
<Traveler>
<TravelerReferences>PAX2</TravelerReferences>
</Traveler>
</Associations>
</Offer>
</Offer>
</Associations>
</Offer>
</Associations>
</OtherAssociations>
<OtherAssociation>
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</OtherAssociation>
<OtherAssociation>
<Type/>
<ReferenceValue>COMMISSION_2</ReferenceValue>
</OtherAssociation>
</OtherAssociations>
</Offer>
</Offer>
<OtherAssociation>
<Type/>
<ReferenceValue>REFUND_3</ReferenceValue>
</OtherAssociation>
<OtherAssociation>
>Type/>
<ReferenceValue>COMMISSION_2</ReferenceValue>
</OtherAssociation>
</OtherAssociations>
</SeatReference>
</Associations>
</SeatReference>
</Associations>
</SeatReference>
</Associations>
</Service>
<Service>
<ServiceID Owner="6X">PRICE2</ServiceID>
<Name/>
<Descriptions>
<Description>
<Text>Extra EXTRA-LEG-ROOM</Text>
</Description>
</Descriptions>
</Price>
<Price>
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<Details>
<Detail>
<Amount Code="USD">15.00</Amount>
</Detail>
</Details>
<Taxes>
>Total Code="USD">0.00</Total>
</Taxes>
</Price>
</Associations>
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<TravelerReferences>PAX2</TravelerReferences>
</Traveler>
</Associations>
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</Offer>
</Associations>
</Offer>
</Associations>
</OtherAssociations>
<OtherAssociation>
>Type/>
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</OtherAssociation>
<OtherAssociation>
<Type/>
3.2.7 DataLists

3.2.7.1 Traveler List

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

- PTC
- Name: surname, given name
- Title

RecognizedTravelerList

<table>
<thead>
<tr>
<th>Recognized</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>PassengerDesignation</td>
<td>1..N</td>
<td>M</td>
<td>/DataList/RecognizedTravelerList/RecognizedTraveler</td>
<td>ObjectKey attribute is used to identify the passenger. Example: ObjectKey=&quot;ANONYMOUS1&quot;</td>
</tr>
<tr>
<td>Passenger Type</td>
<td>1</td>
<td>O</td>
<td>/DataList/RecognizedTravelerList/RecognizedTraveler/PTC</td>
<td>Type of the passenger provided in the Query and used for seatmap process.</td>
</tr>
<tr>
<td>Passenger Surname</td>
<td>1</td>
<td>M</td>
<td>/DataList/RecognizedTravelerList/RecognizedTraveler/Name/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>/DataList/RecognizedTravelerList/RecognizedTraveler/Name/Given</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>/DataList/RecognizedTravelerList/RecognizedTraveler/Name/Title</td>
<td>Name Title provided in the Query. Examples: MR, MRS, DR</td>
</tr>
</tbody>
</table>

<RecognizedTravelerList>
  <RecognizedTraveler ObjectKey="PAX1"/>
AnonymousTravelerList

<table>
<thead>
<tr>
<th>Anonymous Passenger Designation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Traveler without name</td>
<td>1..N</td>
<td>M</td>
<td>/DataList/AnonymousTravelerList/AnonymousTraveler</td>
<td>ObjectKey attribute is used to identify the passenger. Example: ObjectKey=&quot;ANONYMOUS1&quot;</td>
</tr>
<tr>
<td>Passenger Type</td>
<td>1</td>
<td>O</td>
<td>/DataList/AnonymousTravelerList/RecognizedTraveler/PTC</td>
<td>Type of the passenger provided in the Query and used for seatmap process.</td>
</tr>
</tbody>
</table>

3.2.7.2 Flight 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
- the fitted configuration of the aircraft
<table>
<thead>
<tr>
<th>Flight SegmentDesignation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flight Segment</td>
<td>1</td>
<td>M</td>
<td>/FlightSegmentList/FlightSegment</td>
<td>The seatmap could be requested only for one segment.</td>
</tr>
<tr>
<td>Departure Airport Code</td>
<td>1</td>
<td>M</td>
<td>/FlightSegmentList/FlightSegment/Departure/AirportCode</td>
<td>3 letters airport code of the departure airport.</td>
</tr>
<tr>
<td>Departure Date</td>
<td>1</td>
<td>M</td>
<td>/FlightSegmentList/FlightSegment/Departure/Date</td>
<td>Departure date. Format: YYYY-MM-DD</td>
</tr>
<tr>
<td>Arrival Airport Code</td>
<td>1</td>
<td>M</td>
<td>/FlightSegmentList/FlightSegment/Arrival/AirportCode</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>/FlightSegmentList/FlightSegment/MarketingCarrier/AirlineID</td>
<td>Airline code of the marketing carrier.</td>
</tr>
<tr>
<td>Marketing Carrier Flight number</td>
<td>1</td>
<td>M</td>
<td>/FlightSegmentList/FlightSegment/MarketingCarrier/FlightNumber</td>
<td>Flight number.</td>
</tr>
<tr>
<td>Marketing Operational Suffix</td>
<td>1</td>
<td>M</td>
<td>/FlightSegmentList/FlightSegment/MarketingCarrier/FlightNumber - attribute OperationalSuffix</td>
<td>The attribute OperationalSuffix is used to convey this information. Example: OperationalSuffix = &quot;A&quot;.</td>
</tr>
<tr>
<td>Marketing Booking class code</td>
<td>1</td>
<td>M</td>
<td>/FlightSegmentList/FlightSegment/MarketingCarrier/ResBookDesigCode</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>/FlightSegmentList/FlightSegment/OperatingCarrier/AirlineID</td>
<td>Airline code of the Operating carrier.</td>
</tr>
<tr>
<td>Operating Carrier Flight number</td>
<td>1</td>
<td>O</td>
<td>/FlightSegmentList/FlightSegment/OperatingCarrier/FlightNumber</td>
<td>Flight number of the Operating carrier.</td>
</tr>
<tr>
<td>Operating Operational Suffix</td>
<td>1</td>
<td>O</td>
<td>/FlightSegmentList/FlightSegment/OperatingCarrier/FlightNumber - attribute OperationalSuffix</td>
<td>The attribute OperationalSuffix is used to convey this information. Example: OperationalSuffix = &quot;A&quot;.</td>
</tr>
</tbody>
</table>
### Operating Booking class code

**Description:** Booking class code for which the seatmap is requested.

**Format:** /FlightSegmentList/FlightSegment/OperatingCarrier/ResBookDesigCode

<table>
<thead>
<tr>
<th>Field</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>O</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Equipment Code

**Description:** Equipment code of the aircraft. Example: 320.

**Format:** /FlightSegmentList/FlightSegment/Equipment/AircraftCode

<table>
<thead>
<tr>
<th>Field</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>O</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Aircraft Configuration Version

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

**Format:** /FlightSegmentList/FlightSegment/Equipment/AirlineEquipCode

<table>
<thead>
<tr>
<th>Field</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>O</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Cabin code

**Description:** Cabin class code for which the seatmap is requested.

**Format:** /FlightSegmentList/FlightSegment/ClassOfService/Code

<table>
<thead>
<tr>
<th>Field</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>O</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Flight Segment Designation

**Reference to Metadata element**

**Description:** Reference to the Metadata element that we will use to define our elements. Example: FITTEDCONFIG1.

**Format:** /FlightSegmentList/FlightSegment/Equipment/AircraftCode/@ObjectMetaReferences

<table>
<thead>
<tr>
<th>Field</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>O</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

```xml
<FlightSegmentList>
  <FlightSegment SegmentKey="SEG1">
    <Departure>
      <AirportCode>LHR</AirportCode>
      <Date>2016-01-04</Date>
    </Departure>
    <Arrival>
      <AirportCode>FRA</AirportCode>
    </Arrival>
    <MarketingCarrier>
      <AirlineID>6X</AirlineID>
      <FlightNumber>906</FlightNumber>
    </MarketingCarrier>
    <Equipment>
      <AircraftCode>320</AircraftCode>
      <AirlineEquipCode>3EF</AirlineEquipCode>
    </Equipment>
    <ClassOfService>
      <Code>C</Code>
    </ClassOfService>
  </FlightSegment>
</FlightSegmentList>
```

### 3.2.7.3 MediaList data

<table>
<thead>
<tr>
<th>Field</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>MediaDesignation</td>
<td>Repetition</td>
<td>Status</td>
<td>Location</td>
<td>Comments</td>
</tr>
<tr>
<td>Reference to Metadata element</td>
<td>1</td>
<td>O</td>
<td></td>
<td>Reference to the Metadata element that we will use to define our elements. Example: FITTEDCONFIG1.</td>
</tr>
</tbody>
</table>

```xml
<FlightSegmentList>
  <FlightSegment SegmentKey="SEG1">
    <Departure>
      <AirportCode>LHR</AirportCode>
      <Date>2016-01-04</Date>
    </Departure>
    <Arrival>
      <AirportCode>FRA</AirportCode>
    </Arrival>
    <MarketingCarrier>
      <AirlineID>6X</AirlineID>
      <FlightNumber>906</FlightNumber>
    </MarketingCarrier>
    <Equipment>
      <AircraftCode>320</AircraftCode>
      <AirlineEquipCode>3EF</AirlineEquipCode>
    </Equipment>
    <ClassOfService>
      <Code>C</Code>
    </ClassOfService>
  </FlightSegment>
</FlightSegmentList>
```
### Media detail

<table>
<thead>
<tr>
<th>1..N</th>
<th>O</th>
<th>/MediaList/Media /@ListKey</th>
</tr>
</thead>
</table>

The `ListKey` attribute is used to define the reference of the Media. Format should be prefix="MED" + ID. Example: MED1.

### Element used to define the Media Airline Code

<table>
<thead>
<tr>
<th>1</th>
<th>O</th>
<th>/MediaList/Media/ObjectID</th>
</tr>
</thead>
</table>

1 is the default value returned.

### Media Airline Code

<table>
<thead>
<tr>
<th>1</th>
<th>O</th>
<th>/MediaList/Media/ObjectID/@Owner</th>
</tr>
</thead>
</table>

Airline Code associated to the Media.

### Media value

<table>
<thead>
<tr>
<th>1</th>
<th>M</th>
<th>/MediaList/Media/MediaLink</th>
</tr>
</thead>
</table>

Value of the media. Depends on the type of media.

### Media type

<table>
<thead>
<tr>
<th>1</th>
<th>M</th>
<th>/MediaList/Media/Descriptions/Description/MarkupStyle</th>
</tr>
</thead>
</table>

Type of the media. Possible values are:
- Picture ID
- URL

```xml
<MediaList>
  <Media ListKey="MED1">
    <ObjectID Owner="6X">1</ObjectID>
    <MediaLink>http://www.amadeus.com</MediaLink>
    <Descriptions>
      <Description>
        <MarkupStyle>URL</MarkupStyle>
      </Description>
    </Descriptions>
  </Media>

  <Media ListKey="MED2">
    <ObjectID Owner="6X">1</ObjectID>
    <MediaLink>454566666</MediaLink>
    <Descriptions>
      <Description>
        <MarkupStyle>PICTUREID</MarkupStyle>
      </Description>
    </Descriptions>
  </Media>
</MediaList>
```
3.2.7.4 SeatList data

Description of the seat:

- Row and column number
- List of characteristics
- Occupation status of the seat

<table>
<thead>
<tr>
<th>SeatList</th>
<th>Designation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seat Reference</td>
<td>1</td>
<td>M</td>
<td>/SeatList /Seats/@ListKey</td>
<td>The ListKey attribute is used to define the reference of the Seat. Format should be &quot;1&quot; (for seat) + &quot;Engineering zone&quot; + &quot;Seat number&quot; (with leadings &quot;0&quot;). Example: 1M029A.</td>
<td></td>
</tr>
<tr>
<td>Seat Occupation Status</td>
<td>1</td>
<td>M</td>
<td>/SeatList /Seats/@refs</td>
<td>The refs attribute is used to define the occupation status of the seat. The list of occupation status are defined under Metadata /Shopping /ShopMetadataGroup /Seats /SeatMapMetadata.</td>
<td></td>
</tr>
<tr>
<td>Seat Column</td>
<td>1</td>
<td>M</td>
<td>/SeatList /Seats /Location /Column</td>
<td>Column of the seat. Example: H</td>
<td></td>
</tr>
<tr>
<td>Seat Row</td>
<td>1</td>
<td>M</td>
<td>/SeatList /Seats /Location /Row /Number</td>
<td>Row of the seat. Example: 005</td>
<td></td>
</tr>
</tbody>
</table>

```xml
<SeatList>
  <Seats ListKey="seat_1B011C" refs="OSF_1">
    <Location>
      <Column>C</Column>
      <Row>
        <Number>011</Number>
      </Row>
      <Characteristic>
        <Code>A</Code>
      </Characteristic>
      <Characteristic>
        <Code>CH</Code>
      </Characteristic>
      <Characteristic>
        <Code>L</Code>
      </Characteristic>
    </Location>
  </Seats>
</SeatList>
```
3.2.8 Metadata

3.2.8.1 Offer
This element is used to define a Commercial description of Seat service. Several Commercial description could be listed here. The link between the commercial description and the passenger / seat is done in Service element, only when the Service element is a price element.

<table>
<thead>
<tr>
<th>Offer</th>
<th>Designation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial details</td>
<td>1..N</td>
<td>O</td>
<td>/Metadata /Shopping /ShopMetadataGroup /Offer /OfferMetadatas /OfferMetadata</td>
<td>Commercial description of a seat service. The attribute MetadataKey is used to reference the Commercial information in the Service element (association Offer) - only on Service element defined as price element.</td>
<td></td>
</tr>
<tr>
<td>Commercial code</td>
<td>1</td>
<td>M</td>
<td>/Metadata /Shopping /ShopMetadataGroup /Offer /OfferMetadatas /OfferMetadata /ATPCO /Attributes /Group /Code</td>
<td>Commercial code. Value hardcoded to &quot;SA&quot;.</td>
<td></td>
</tr>
<tr>
<td>Commercial description</td>
<td>1</td>
<td>O</td>
<td>/Metadata /Shopping /ShopMetadataGroup /Offer /OfferMetadatas /OfferMetadata /ATPCO /Attributes /Group /Text</td>
<td>Commercial Description.</td>
<td></td>
</tr>
</tbody>
</table>

```
<Metadata>
  <Shopping>
    <ShopMetadataGroup>
      <Offer>
        <OfferMetadatas>
          <OfferMetadata MetadataKey="CMN1"><ATPCO> <Attributes> <Group> <Code>SA</Code> <Text>CHARGEABLE SEAT ASSIGNMENT</Text> </Group> </ATPCO> </OfferMetadata>
        </OfferMetadatas>
      </Offer>
    </ShopMetadataGroup>
  </Shopping>
</Metadata>```
3.2.8.2 Seat

This element is used to list all possible seat occupation status that could be returned in a seatmap reply. Note that only seats with F occupation status - corresponding to "Seat is free" occupation - can be booked.

<table>
<thead>
<tr>
<th>Seat occupation statusDesignation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seat Occupation details</td>
<td>1..N</td>
<td>O</td>
<td>/Metadata /Shopping /ShopMetadataGroup /Seat /SeatMetadatas /SeatMetadata</td>
<td>Seat occupation status. The attribute MetadataKey is used to reference the Seat in the SeatList element.</td>
</tr>
</tbody>
</table>

```xml
<Seat>
  <SeatMetadata MetadataKey="OSF_1">
    <SeatStatus ObjectKey="OSF">
      <Code> F </Code>
    </SeatStatus>
  </SeatMetadata>
  <SeatMetadata MetadataKey="OSS_1">
    <SeatStatus ObjectKey="OSS">
      <Code> S </Code>
    </SeatStatus>
  </SeatMetadata>
  <SeatMetadata MetadataKey="OSD_1">
    <SeatStatus ObjectKey="OSD">
      <Code> D </Code>
    </SeatStatus>
  </SeatMetadata>
  <SeatMetadata MetadataKey="OSH_1">
    <SeatStatus ObjectKey="OSH">
      <Code> H </Code>
    </SeatStatus>
  </SeatMetadata>
  <SeatMetadata MetadataKey="OSV_1">
    <SeatStatus ObjectKey="OSV">
      <Code> V </Code>
    </SeatStatus>
  </SeatMetadata>
  <SeatMetadata MetadataKey="OSU_1">
    <SeatStatus ObjectKey="OSU">
      <Code> U </Code>
    </SeatStatus>
  </SeatMetadata>
  <SeatMetadata MetadataKey="OSG_1">
    <SeatStatus ObjectKey="OSG">
      <Code> G </Code>
    </SeatStatus>
  </SeatMetadata>
  <SeatMetadata MetadataKey="OSP_1">
    <SeatStatus ObjectKey="OSP">
      <Code> P </Code>
    </SeatStatus>
  </SeatMetadata>
</Seat>
Possible values are:

<table>
<thead>
<tr>
<th>Seat occupation status Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>Seat is free</td>
</tr>
<tr>
<td>S</td>
<td>Seat protected for code sharing</td>
</tr>
<tr>
<td>D</td>
<td>Seat blocked for/with deadload</td>
</tr>
<tr>
<td>E</td>
<td>Extra seat</td>
</tr>
<tr>
<td>H</td>
<td>Courtesy reserved seat</td>
</tr>
<tr>
<td>P</td>
<td>Protected seat</td>
</tr>
<tr>
<td>R</td>
<td>Reserved seat generic</td>
</tr>
<tr>
<td>T</td>
<td>Transit passenger - seat occupied by a transit passenger or load</td>
</tr>
<tr>
<td>U</td>
<td>Upline protected seat</td>
</tr>
<tr>
<td>V</td>
<td>Downline protected seats</td>
</tr>
<tr>
<td>G</td>
<td>Seat for group pre-allocation</td>
</tr>
<tr>
<td>O</td>
<td>Seat is occupied</td>
</tr>
<tr>
<td>Z</td>
<td>Seat blocked for other reasons</td>
</tr>
</tbody>
</table>
### 3.2.8.3 Other

This element is used to list all possible values of:

- refundable / exchangeable indicator
- commissionable indicator
- discount
- number of seats for each cabin class (corresponds to the Fitted Configuration)

These indicators are coming from the pricing catalog.

<table>
<thead>
<tr>
<th>Other</th>
<th>Designation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Indicator details</td>
<td>1..N</td>
<td>O</td>
<td>/Metadata /Other /OtherMetadata /DescriptionMetadatas /DescriptionMetadata</td>
<td>Details of service indicator.</td>
<td></td>
</tr>
<tr>
<td>Service Indicator Reference</td>
<td>1</td>
<td>M</td>
<td>/Metadata /Other /OtherMetadata /DescriptionMetadatas /DescriptionMetadata /@Metadatakey</td>
<td>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:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>- Refundable / Exchangeable indicator: prefix “REFUND_“</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>- Commissionable indicator: prefix “COMMISSION_“</td>
<td></td>
</tr>
<tr>
<td>Indicator Value</td>
<td>1</td>
<td>M</td>
<td>/Metadata /Other /OtherMetadata /DescriptionMetadatas /DescriptionMetadata /Application</td>
<td>Possible values are R, Y or N. See description of the possible values in the table below.</td>
<td></td>
</tr>
<tr>
<td>Indicator Description</td>
<td>1</td>
<td>M</td>
<td>/Metadata /Shopping /ShopMetadataGroup /Offer /OfferMetadatas /OfferMetadata /ATPCO /Attributes /Group /Text</td>
<td>Description of the indicator.</td>
<td></td>
</tr>
<tr>
<td>Identifier of the Discount</td>
<td>1</td>
<td>O</td>
<td>/Metadata /Other /OtherMetadata /RuleMetadatas /RuleMetadata /@MetadataKey</td>
<td>Reference to the Discount.</td>
<td></td>
</tr>
<tr>
<td>Discount ID</td>
<td>1</td>
<td>M</td>
<td>/Metadata /Other /OtherMetadata</td>
<td>Identifier of the Discount.</td>
<td></td>
</tr>
<tr>
<td>Reference</td>
<td>Indicator Value</td>
<td>Indicator 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>REFUND_1</td>
<td>Y</td>
<td>Service is refundable</td>
<td></td>
<td></td>
<td></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>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REFUND_3</td>
<td>N</td>
<td>Service not refundable and not exchangeable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMMISSION_1</td>
<td>Y</td>
<td>Service is Commissionable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMMISSION_2</td>
<td>N</td>
<td>Service is not Commissionable</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Possible values are:

```xml
<Other>
  <OtherMetadata>
    <DescriptionMetadatas>
      <DescriptionMetadata MetadataKey="REFUND_1">
        <Application>Y</Application>
        <Topic>Service refundable</Topic>
      </DescriptionMetadata>
      <DescriptionMetadata MetadataKey="REFUND_2">
        <Application>R</Application>
        <Topic>Service not refundable but value of EMD can be applied on future purchase</Topic>
      </DescriptionMetadata>
      <DescriptionMetadata MetadataKey="REFUND_3">
        <Application>N</Application>
        <Topic>Service not refundable and not exchangeable</Topic>
      </DescriptionMetadata>
      <DescriptionMetadata MetadataKey="COMMISSION_1">
        <Application>Y</Application>
        <Topic>Service is Commissionable</Topic>
      </DescriptionMetadata>
      <DescriptionMetadata MetadataKey="COMMISSION_2">
        <Application>N</Application>
        <Topic>Service is not Commissionable</Topic>
      </DescriptionMetadata>
    </DescriptionMetadatas>
  </OtherMetadata>
</Other>
```
Example of Discount object

```
<Other>
  <OtherMetadata>
    <RuleMetadatas>
      <RuleMetadata MetadataKey="DIS339773810">
        <RuleID>339773810</RuleID>
        <Name>6X</Name>
        <Values>
          <Value>
            <Instruction>HOLIDAY</Instruction>
          </Value>
        </Values>
      </RuleMetadata>
    </RuleMetadatas>
  </OtherMetadata>
</Other>
```

The below data are conveyed in a non IATA standard structure, using an augmentation point, hosting an Amadeus proprietary schema.

<table>
<thead>
<tr>
<th>OtherDesignation</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fitted Configuration data</td>
<td>1..N</td>
<td>O</td>
<td>/Metadata /Other /OtherMetadata /AircraftMetadatas /AircraftMetadata</td>
<td>Fitted Configuration data.</td>
</tr>
<tr>
<td>Reference to Metadata element</td>
<td>1</td>
<td>O</td>
<td>/Metadata /Other /OtherMetadata /AircraftMetadatas /AircraftMetadata /@MetadataKey</td>
<td>Reference to Metadata element. Example: FITTEDCONFIG1.</td>
</tr>
<tr>
<td>Fitted Configuration structure</td>
<td>1..N</td>
<td>O</td>
<td>/Metadata /Other /OtherMetadata /AircraftMetadatas /AircraftMetadata /AugmentationPoint/AugPoint/##other</td>
<td>XSD structure which will convey Fitted Configuration information.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FittedConfigAugPointDesignatio n</th>
<th>Repetition</th>
<th>Status</th>
<th>Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cabin details</td>
<td>1..N</td>
<td>M</td>
<td>/FittedConfigAugPoint /Cabin</td>
<td>Cabin Structure.</td>
</tr>
<tr>
<td>Cabin details</td>
<td>1..N</td>
<td>M</td>
<td>/FittedConfigAugPoint /Cabin/@TotalNumberOfSeats</td>
<td>Number of Seats for the given cabin.</td>
</tr>
<tr>
<td>Cabin Designator</td>
<td>1</td>
<td>M</td>
<td>/FittedConfigAugPoint /Cabin /CabinDesignator</td>
<td>Letter corresponding to the Cabin.</td>
</tr>
</tbody>
</table>

Example of Datalist
Example of Metadata

3.2.9 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>Errors</th>
<th>Designation</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</td>
<td>/Error</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>/Error</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>
</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 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>
```

Here is the list of possible errors:

<table>
<thead>
<tr>
<th>Errors</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>Code</td>
<td>Description</td>
<td>Error Message</td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>-----------------------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<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>
<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>

## 4 Troubleshooting

## 5 Detailed Use Cases

### 5.1 Building A Query Examples

#### 5.1.1 Example Standalone - neutral seatmap (without prices)

```xml
  <Document> 
    <Party> 
      <Sender> 
        <AgentUserSender> 
          <AgentUserID>a</AgentUserID>
        </AgentUserSender> 
      </Sender> 
    </Party> 
    <ShoppingResponseIDs> 
    </ShoppingResponseIDs> 
  </Document> 
</SeatAvailabilityRQ>
```
5.1.2 Example Standalone - neutral seatmap with prices

Options:
- Prices
- Override of the currency (GBP)
5.1.3 Example Standalone - centric seatmap with prices

Options:

- Prices
- one passenger with one Frequent Flyer card

```xml
<SeatAvailabilityRQ Version="2.000">
  <Document/>
  <Party>
    <Sender>
      <AgentUserSender>
        <AgentUserID>NCE6X0100</AgentUserID>
      </AgentUserSender>
    </Sender>
  </Party>
  <Parameters>
    <Pricing SimpleInd="true">
      <OverrideCurrency>GBP</OverrideCurrency>
    </Pricing>
  </Parameters>
  <Travelers>
    <Traveler>
      <RecognizedTraveler ObjectKey="PAX1">
        <PTC Quantity="1">ADT</PTC>
        <Name>
          <Surname>SMITH</Surname>
          <Given>GRAG</Given>
        </Name>
        <FQTVs ObjectKey="FQTV1">
          <AirlineID>6X</AirlineID>
          <Account>
            <Number>8959332781</Number>
          </Account>
        </FQTVs>
        <FOIDs refs="FQTV1">
          <FOID>
            <Type>
              <Code>1</Code>
            </Type>
          </FOID>
        </FOIDs>
      </RecognizedTraveler>
    </Traveler>
  </Travelers>
  <ShoppingResponseIDs/>
  <ResponseID>a</ResponseID>
</ShoppingResponseIDs>
  <DataList>
    <FlightSegmentList>
      <FlightSegment SegmentKey="SEG1">
        <Departure>
          <AirportCode>LHR</AirportCode>
          <Date>2016-01-04</Date>
        </Departure>
      </FlightSegment>
    </FlightSegmentList>
  </DataList>
</SeatAvailabilityRQ>
5.1.4 Example Standalone - centric seatmap with prices with Fare information

Options:

- Prices
- two passengers: pax1: Frequent Flyer card traveling with an infant / pax2: child passenger
- Fare basis YITGD applying for all passengers

```xml
<SeatAvailabilityRQ Version="2.000">
  <Document/>
  <Party>
    <Sender>
      <AgentUserSender>
        <AgentUserID>a</AgentUserID>
      </AgentUserSender>
    </Sender>
  </Party>
  <Parameters>
    <Pricing SimpleInd="true">
    </Pricing>
  </Parameters>
  <Travelers>
    <Traveler>
      <RecognizedTraveler ObjectKey="PAX1">
        <PTC Quantity="1">ADT</PTC>
        <Name>
          <Surname>SMITH</Surname>
          <Given>JOHN</Given>
        </Name>
        <FQTVs ObjectKey="FQTV1">
          <AirlineID>6X</AirlineID>
          <Account>
            <Number>89593355781</Number>
          </Account>
        </FQTVs>
        <FOIDs>
          <FOID>
            <Type refs="FQTV1">
              <Code>1</Code>
            </Type>
            <ID>1</ID>
          </FOID>
        </FOIDs>
      </RecognizedTraveler>
    </Traveler>
  </Travelers>
</SeatAvailabilityRQ>
```
<RecognizedTraveler ObjectKey="PAX2">
  <PTC Quantity="1">INF</PTC>
  <PassengerAssociation>PAX1</PassengerAssociation>
  <Name>
    <Surname>SMITH</Surname>
    <Given>JUNIOR</Given>
  </Name>
</RecognizedTraveler>

<Traveler>
<RecognizedTraveler ObjectKey="PAX3">
  <PTC Quantity="1">CHD</PTC>
  <Name>
    <Surname>SMITH</Surname>
    <Given>KELLY</Given>
  </Name>
</RecognizedTraveler>
</Traveler>
<ShoppingResponseIDs>
  <ResponseID>a</ResponseID>
</ShoppingResponseIDs>
<DataList>
  <FlightSegmentList>
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      <Departure>
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        <Date>2016-01-04</Date>
      </Departure>
      <Arrival>
        <AirportCode>BRU</AirportCode>
      </Arrival>
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        <AirlineID>6X</AirlineID>
        <FlightNumber>7878</FlightNumber>
      </MarketingCarrier>
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  </FlightSegmentList>
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            <Code>1</Code>
          </FareCode>
          <FareDetail>
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                  <Code>YITGD</Code>
                </FareBasisCode>
              </FareBasis>
            </FareComponent>
            <FareComponent refs="PAX3">
              <FareBasis>
                <FareBasisCode>
                  <Code>YITGD</Code>
                </FareBasisCode>
              </FareBasis>
            </FareComponent>
          </FareDetail>
        </Fare>
      </ShopMetadataGroup>
    </Shopping>
  </Metadata>
</DataList>
5.2 Building a Reply - Examples

5.2.1 Example Centric Seatmap without prices

Seatmap requested for:
- one passenger
- no prices requested

```xml
<SeatAvailabilityRS Version="2.000">
    <Document/>
    <Success/>
    <Flights>
        <FlightSegmentReferences>SEG1</FlightSegmentReferences>
        <Cabin>
            <Code>B</Code>
            <SeatDisplay>
                <Columns Position="W">A</Columns>
                <Columns Position="A">B</Columns>
                <Columns Position="A">D</Columns>
                <Columns Position="9">E</Columns>
                <Columns Position="W">F</Columns>
                <Rows>
                    <First>10</First>
                    <Last>12</Last>
                </Rows>
            </SeatDisplay>
            <SeatReference>seat_1B010A</SeatReference>
            <SeatReference>seat_1B010B</SeatReference>
            <SeatReference>seat_1B010D</SeatReference>
            <SeatReference>seat_1B010E</SeatReference>
            <SeatReference>seat_1B010F</SeatReference>
            <SeatReference>seat_1B011A</SeatReference>
            <SeatReference>seat_1B011B</SeatReference>
            <SeatReference>seat_1B011D</SeatReference>
            <SeatReference>seat_1B011E</SeatReference>
            <SeatReference>seat_1B011F</SeatReference>
            <SeatReference>seat_1B012A</SeatReference>
            <SeatReference>seat_1B012B</SeatReference>
            <SeatReference>seat_1B012D</SeatReference>
            <SeatReference>seat_1B012E</SeatReference>
            <SeatReference>seat_1B012F</SeatReference>
        </Cabin>
        <Cabin>
            <Code>C</Code>
            <CabinLayout>
                <ExitRowPosition>
                    <Rows>
                        <First>021</First>
                        <Last>021</Last>
                    </Rows>
                </ExitRowPosition>
            </CabinLayout>
        </Cabin>
    </Flights>
</SeatAvailabilityRS>
```
<Code>REA</Code>

<Definition>2</Definition>
</Orientation>
</Row>
<Column>
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  <Orientation>
    <Code>INL</Code>
  </Orientation>
</Column>
</Location>
</Locations>
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  <Code>GN</Code>
</Type>
</Component>
<CabinType>
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</CabinType>
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<SeatReference>seat_1C014B</SeatReference>
<SeatReference>seat_1C014D</SeatReference>
<SeatReference>seat_1C014E</SeatReference>
<SeatReference>seat_1C014F</SeatReference>
<SeatReference>seat_1C015A</SeatReference>
<SeatReference>seat_1C015B</SeatReference>
<SeatReference>seat_1C015D</SeatReference>
<SeatReference>seat_1C015E</SeatReference>
<SeatReference>seat_1C015F</SeatReference>
<SeatReference>seat_1C016A</SeatReference>
<SeatReference>seat_1C016B</SeatReference>
<SeatReference>seat_1C016D</SeatReference>
<SeatReference>seat_1C016E</SeatReference>
<SeatReference>seat_1C016F</SeatReference>
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<SeatReference>seat_1C017B</SeatReference>
<SeatReference>seat_1C017D</SeatReference>
<SeatReference>seat_1C017E</SeatReference>
<SeatReference>seat_1C017F</SeatReference>
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<SeatReference>seat_1C018B</SeatReference>
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<SeatReference>seat_1C020D</SeatReference>
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<SeatReference>seat_1C020F</SeatReference>
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</Cabin>
</Flights>
<DataLists>
  <FlightSegmentList>
    <FlightSegment SegmentKey="SEG1">
      <Departure>
        <AirportCode>ZRH</AirportCode>
        <Date>2016-08-23</Date>
      </Departure>
    </FlightSegment>
  </FlightSegmentList>
</DataLists>
<Departure>
  <AirportCode>BRU</AirportCode>
</Departure>

<Arrival>
  <AirportCode>BRU</AirportCode>
</Arrival>

<MarketingCarrier>
  <AirlineID>6X</AirlineID>
  <FlightNumber>0777</FlightNumber>
</MarketingCarrier>

<Equipment>
  <AircraftCode>AR1</AircraftCode>
  <AirlineEquipCode>ARJ</AirlineEquipCode>
</Equipment>

<ClassOfService>
  <Code>Y</Code>
  <MarketingName CabinDesignator="Y"/>
</ClassOfService>

<FlightSegment>
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    <SeatList>
      <Seats ListKey="seat_1B010A" refs="OSF_1">
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          <Row>
            <Number>010</Number>
          </Row>
        </Location>
      </Seats>
      <Seats ListKey="seat_1B010B" refs="OSF_1">
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          <Column>B</Column>
          <Row>
            <Number>010</Number>
          </Row>
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      <Number>010</Number>
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      <Characteristic>
        <Code>O</Code>
      </Characteristic>
      <Characteristic>
        <Code>W</Code>
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    <Associations/>
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    <Row>
      <Number>010</Number>
    </Row>
    <Characteristics>
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      </Characteristic>
      <Characteristic>
        <Code>CH</Code>
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      <Characteristic>
        <Code>O</Code>
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    <Associations/>
  </Location>
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      <Number>010</Number>
    </Row>
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        <Code>CH</Code>
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        <Code>O</Code>
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      <Characteristic>
        <Code>CH</Code>
      </Characteristic>
      <Characteristic>
        <Code>I</Code>
      </Characteristic>
      <Characteristic>
        <Code>O</Code>
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      <Characteristic>
        <Code>W</Code>
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    </Characteristics>
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      <Characteristic>
        <Code>CH</Code>
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      <Characteristic>
        <Code>I</Code>
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      <Characteristic>
        <Code>O</Code>
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    <Associations/>
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      <Characteristic>
        <Code>CH</Code>
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    </Row>
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      <Characteristic>
        <Code>1A</Code>
      </Characteristic>
      <Characteristic>
        <Code>CH</Code>
      </Characteristic>
    </Characteristics>
  </Location>
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  <Location>
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    <Row>
      <Number>015</Number>
    </Row>
    <Characteristics>
      <Characteristic>
        <Code>1A</Code>
      </Characteristic>
      <Characteristic>
        <Code>CH</Code>
      </Characteristic>
      <Characteristic>
        <Code>W</Code>
      </Characteristic>
    </Characteristics>
  </Location>
</Seats>
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    <Row>
      <Number>016</Number>
    </Row>
    <Characteristics>
      <Characteristic>
        <Code>CH</Code>
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        <Code>I</Code>
      </Characteristic>
      <Characteristic>
        <Code>W</Code>
      </Characteristic>
    </Characteristics>
  </Location>
</Seats>
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    <Row>
      <Number>016</Number>
    </Row>
  </Location>
</Seats>
<Characteristics>
  <Characteristic>
    <Code>A</Code>
  </Characteristic>
  <Characteristic>
    <Code>CH</Code>
  </Characteristic>
  <Characteristic>
    <Code>I</Code>
  </Characteristic>
</Characteristics>
</Location>
</Seats>
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    <Row>
      <Number>016</Number>
    </Row>
    <Characteristics>
      <Characteristic>
        <Code>1A</Code>
      </Characteristic>
      <Characteristic>
        <Code>CH</Code>
      </Characteristic>
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  </Location>
</Seats>
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  <Location>
    <Column>E</Column>
    <Row>
      <Number>016</Number>
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5.2.2 Example Centric Seatmap with prices

Seatmap requested for:

- two passengers
- price option
- Passenger 1 is exempted on all seats except on preferential seats (seats having seat characteristic "O")
- Passenger 2 is not exempted on all seats
- The filing structure is the following for seat product (commercial name is "Pre reserved seat assignment"):
  - Preferential seat: CH, O - 17.00EUR
  - Extra Legroom seat: CH, L - 25.00EUR
  - Standard seat: CH - 10.00EUR

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5.2.3 Eligibility reply - codeshare flight MKT: INV airline / OPE: INV airline

Eligibility request for AF * / JL.

With for AF:

- Access rule for multiple passenger is RESTRICTIVE
- Access rule for passenger 1 has following values: seatmap=Y, specific seat request=Y, generic seat request=Y, Group size=9.
- Access rule for passenger 2 has following values: seatmap=Y, specific seat request=Y, generic seat request=Y, Group size=9.

With for JL:

- Access rule for multiple passenger is PERMISSIVE
- Access rule for passenger 1 has following values: seatmap=Y, specific seat request=Y, generic seat request=Y, Group size=0.
- Access rule for passenger 2 has following values: seatmap=Y, specific seat request=Y, generic seat request=Y, Group size=0.
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