

NDC SeatAvailability 15.2

Web Services Implementation Guide

Amadeus Altea New Distribution Capability

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1 Interface Overview

1.1 Short Description

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

1.2 Current Scope

Following functionalities are currently in scope of SeatAvailability verb:

- Seatmap request 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:

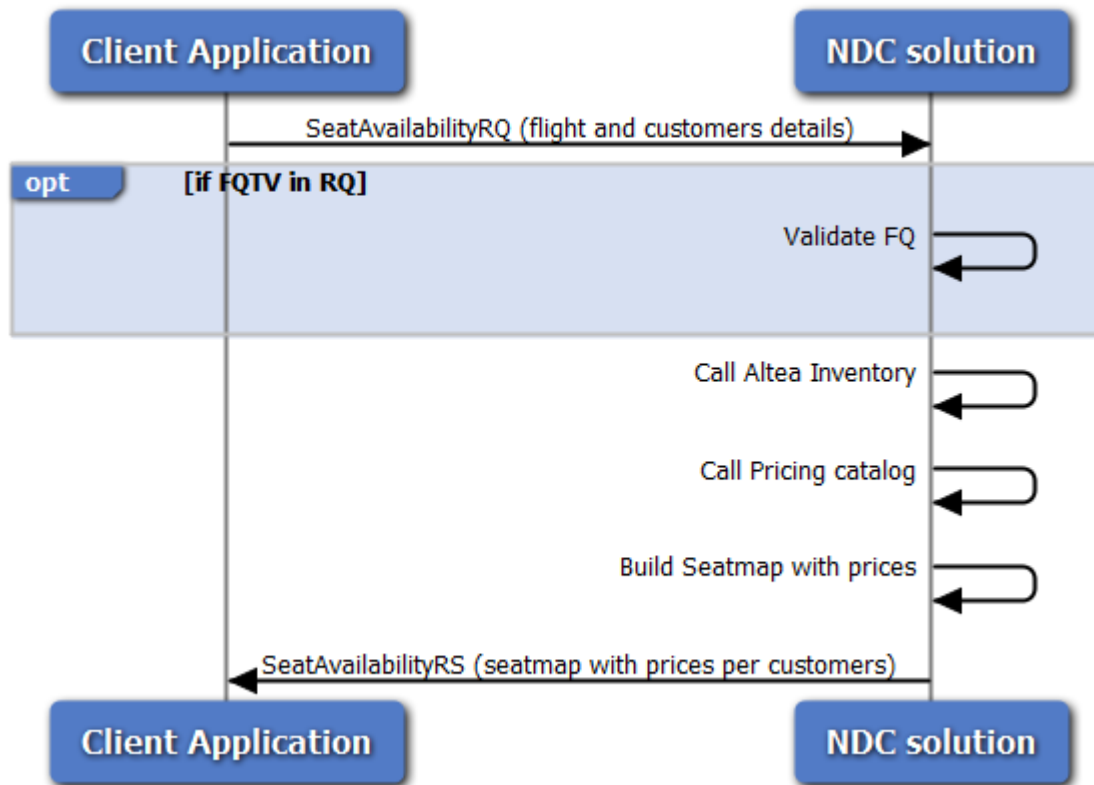
- In case a seatmap with price is requested for a multi-leg flight, depending on OTF variable SIT_ACTIVATE_SMWP_MULTILEG_RES, the seatmap will be returned with or without the prices, as described in <<Seatmap with price in RES channel>>.
- Prices are supported only for Seatmap request with 9 passengers 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



SeatAvailability

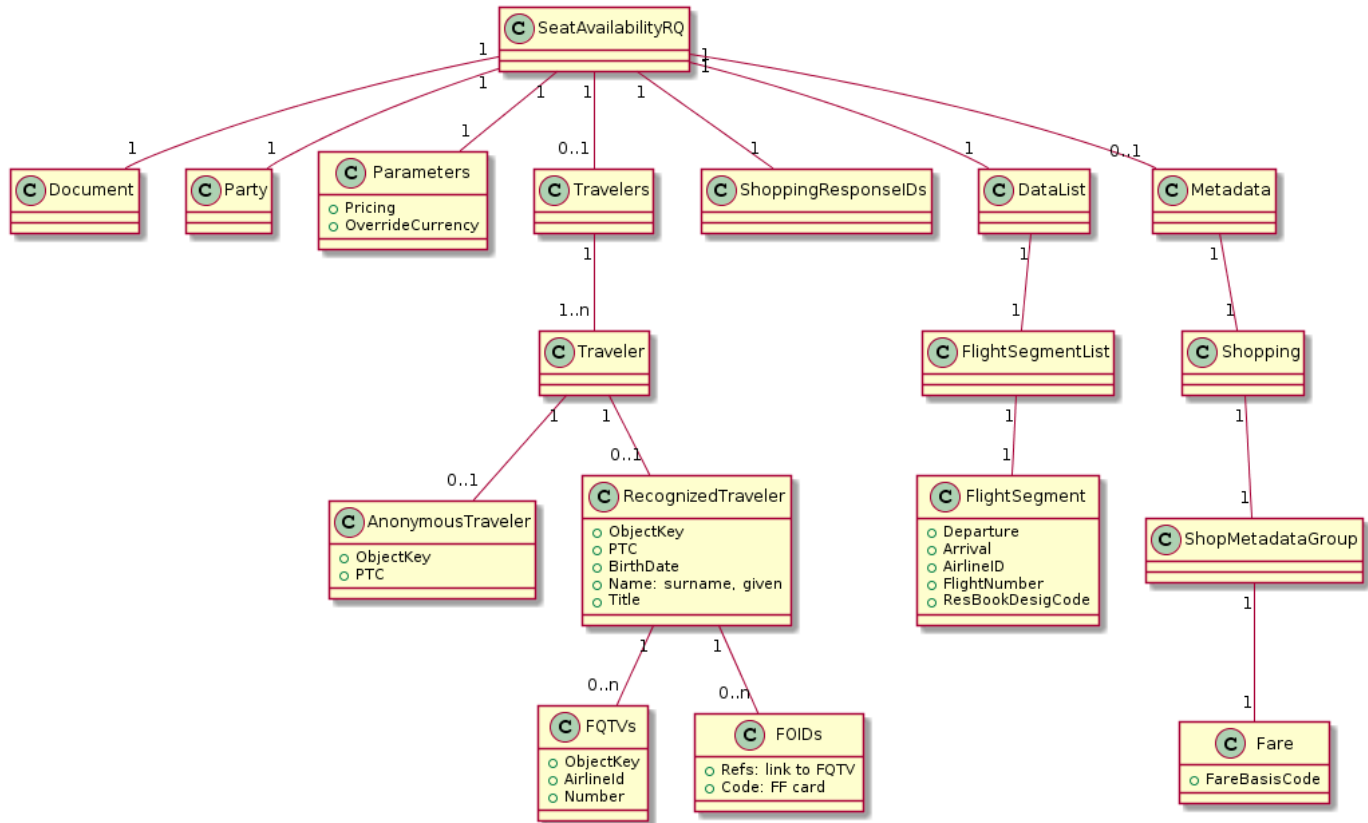
1.5 Prerequisites

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

Version	Designation	Repetition	Status	Location	Comments
Message version		1	M	/SeatAvailabilityRQ /@Version	Set to the NDC schema version to which the message complies to.

```
<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.

Document	Designation	Repetition	Status	Location	Comments
Message Description		1	M	/Document /	Not used in the process

```
<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.

PartyDesignation	Repetition	Status	Location	Comments
AgencyID	1	M	/Party /Sender /TravelAgencySender /AgencyID	This information is not used in the seatmap process.

```
<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

ParametersDesignation	Repetition	Status	Location	Comments
Pricing Flag	1	O	/Parameters /Pricing /@SimpleInd	The SimpleInd indicator attribute is used to indicate if a seatmap with price is requested. If SimpleInd=true, a seatmap with price is triggered.
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.

```

<Parameters>
  <Pricing SimpleInd="true">
    <OverrideCurrency>GBP</OverrideCurrency>
  </Pricing>
</Parameters>

```

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

Anonymous Passenger Designation	Repetition	Status	Location	Comments
Travelers	1	O	/Travelers	List of passengers.
Traveler	1..N	M	/Travelers/Traveler	
Traveler without name	1	M	/Travelers/Traveler/AnonymousTraveler	ObjectKey attribute is used to identify the passenger. Format is "ANONYMOUSi" where i is a unique positive integer. Example: ObjectKey="ANONYMOUS1".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.
Passenger Type	1	O	.../AnonymousTraveler/PTC	Describes the type of the passenger. Possible values are: ADT, CHD. When not present, ADT is considered by default.

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.

Recognized Passenger Designation	Repetition	Status	Location	Comments
Traveler with name Reference	1	M	/RecognizedTraveler /@ObjectKey	ObjectKey attribute is used to identify the passenger. Format is "PAXi" where i is a positive integer. Example: ObjectKey="PAX1". 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.
Passenger Type	1	O	/RecognizedTraveler /PTC	Describes the type of the passenger. Examples: ADT, CHD. When not present, ADT is considered by default.
Passenger Quantity	1	O	/RecognizedTraveler /PTC@Quantity	Number of passengers. Expected value is "1". In case, no value is provided value "1" is applied by default.
Association Infant / Adult	1	O	/RecognizedTraveler /PassengerAssociation	Defined only for Infant passenger. Reference of the adult travelling with the infant. Example: PAX1.
Passenger Birth Date	1	O	/RecognizedTraveler /Age /BirthDate	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.

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.

```
<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>11111NDC</Number>
        </Account>
      </FQTVs>
      <FOIDs>
        <FOID>
          <Type refs="FQTV1">
            <Code>1</Code>
          </Type>
          <ID>1</ID>
        </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.

ShoppingResponseIDs	Designation	Repetition	Status	Location	Comments
Shopping Offer ID		1	O	/ShoppingResponseIDs/ResponseID	Unique shopping session response ID.

```
<ShoppingResponseIDs>
  <ResponseID>a</ResponseID>
</ShoppingResponseIDs>
```

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.

Query	Designation	Repetition	Status	Location	Comments
PNR record locator		1	O	/Query/BookingReference/ID	Record Locator. Example: RYA3SK.
GDS owner of PNR record locator		1	O	/Query/BookingReference/AirlineID	GDS owner of the PNR record locator. Warning: Amadeus record locator must be provided in order to be able to open the PNR context. Example: 1A.

```
<Query>
  <BookingReference DateTime="2015-10-15T15:15:00">
    <ID>5TX2EO</ID>
    <AirlineID>1A</AirlineID>
  </BookingReference>
</Query>
```

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

Flight Segment Designation	Repetition	Status	Location	Comments
Flight Segment	1	M	/FlightSegmentList /FlightSegment	The seatmap could be requested only for one segment.
Departure Airport Code	1	M	/FlightSegmentList /FlightSegment /Departure /AirportCode	3 letters airport code of the departure airport.
Departure Date	1	M	/FlightSegmentList /FlightSegment /Departure /Date	Departure date. Format: YYYY-MM-DD
Arrival Airport Code	1	M	/FlightSegmentList /FlightSegment /Arrival /AirportCode	3 letters airport code of the arrival airport.
Marketing Carrier Code	1	M	/FlightSegmentList /FlightSegment /MarketingCarrier /AirlineID	Airline code of the marketing carrier.
Marketing Carrier Flight number	1	M	/FlightSegmentList /FlightSegment /MarketingCarrier /FlightNumber	Flight number.
Operational Suffix	1	O	/FlightSegmentList /FlightSegment /MarketingCarrier /FlightNumber /@OperationalSuffix	The attribute OperationSuffix is used to convey this information. Example: OperationalSuffix="A".
Booking class code	1	O	/FlightSegmentList /FlightSegment /MarketingCarrier /ResBookDesigCode	Booking class code for which the seatmap is requested.

```

<FlightSegmentList>
  <FlightSegment SegmentKey="SEG1">
    <Departure>
      <AirportCode>LHR</AirportCode>
      <Date>2016-01-04</Date>
    </Departure>
    <Arrival>
      <AirportCode>FRA</AirportCode>
    </Arrival>
  </FlightSegment>
</FlightSegmentList>

```

```

        <MarketingCarrier>
            <AirlineID>6X</AirlineID>
            <FlightNumber>906</FlightNumber>
            <ResBookDesigCode>J</ResBookDesigCode>
        </MarketingCarrier>
    </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.

Services (SSR / SK) Designation	Repetition	Status	Location	Comments
Service List	1	M	/ServiceList	List of Services.
Service	0..N	M	/ServiceList /Service	List of all SSRs or SK elements associated to the passengers.
Service Id	1	M	/ServiceList /Service /ServiceID	ID of the service. Example: SSR1. Owner attribute is mandatory, but there is no check done on the process regarding the owner value provided.
Service Name	1	M	/ServiceList /Service /Name	Name of the service. Not used on the seatmap process.
SSR or SK code	0..1	M	/ServiceList /Service /Encoding /Code	Code of the SSR or SK element. Example: EXMP, DEAF, WCHC, BSCT...
SSR or SK description	1	M	/ServiceList /Service /Descriptions /Description/	Not used on the seatmap process.
SSR or SK description detail	0..1	O	/ServiceList /Service /Descriptions /Description /Text	Description of the Service. Not used on the seatmap process.

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	Passenger reference. Example: PAX1.

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</AllTravelerInds>
      </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>
    </Traveler>
  </Service>
</ServiceList>
<TravelerReferences>PAX1</TravelerReferences>

```

```

        </Traveler>
    </Associations>
    <Associations>
        <Traveler>

    <TravelerReferences>PAX2</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 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.

Fare information Designation	Repetition	Status	Location	Comments
Fare Code	1	M	/Fare /FareCode /Code	Fare Type Code. Mandatory element not used by seatmap process. Example of encoding: 1.
Fare Component Details	1..N	M	/Fare /FareDetail /FareComponent	Fare details per passengers. If no FareComponentElement is found for a passenger, the default values are used.
Fare Component Reference to Traveler	1..N	M	/Fare /FareDetail /FareComponent /@refs	Reference to the Traveler is done using refs attributes (example: refs=PAX2 or refs=ANONYMOUS1).
Fare Basis	1	O	/Fare/ FareDetail /FareComponent /FareBasis /FareBasisCode /Code	Fare basis code. Example: YIF. If no fare basis is provided, the process handles, per default, the fare basis Y.

Fare information Designation	Repetition	Status	Location	Comments
Override PTC	1	O	/Shopping/ShopMetadataGroup/Fare/FareDetail/FareComponent/FareBasis/FareRulesRemarks/FareRulesRemark/Category/Code	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.

				Otherwise, the process handles, per default, the PTC of an adult (ADT).
Ticket Designator	1	O	/Shopping/ShopMetadataGroup/Fare/FareDetail/FareComponent/TicketDesign	Ticket designator. Example: A1B2D.
Ticket Number	1	O	/Shopping/ShopMetadataGroup/Fare/FareDetail/FareComponent/FareRules/Ticketing/InstantPurchase/Code	Ticket number. Example: 172240007619.

```

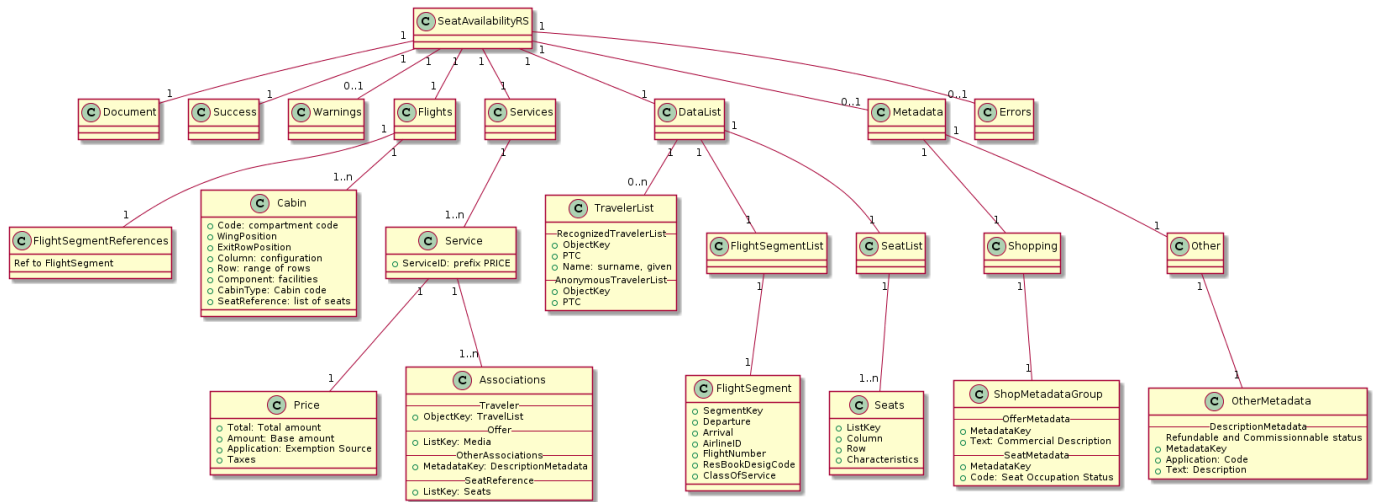
<Metadata>
  <Shopping>
    <ShopMetadataGroup>
      <Fare>
        <FareCode>
          <Code>1</Code>
        </FareCode>
        <FareDetail>
          <FareComponent refs="PAX1">
            <FareBasis>
              <FareBasisCode>
                <Code>YITGD</Code>
              </FareBasisCode>
            </FareBasis>
          </FareComponent>
        </FareDetail>
      </Fare>
    </ShopMetadataGroup>
  </Shopping>
</Metadata>

```

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

Version	Designation	Repetition	Status	Location	Comments
Message version		1	M	/SeatAvailabilityRS /@Version	Set to the NDC schema version to which the message complies to.

```
<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.

Document	Designation	Repetition	Status	Location	Comments
Version of the service		1	M	/Document /	Field send empty.

```
<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.

Success	Designation	Repetition	Status	Location	Comments
Success Indicator		1	M	/Success	

```
<Success/>
```

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.

Warnings	Designation	Repetition	Status	Location	Comments
IATA Warning Code		1..N	O	/Warnings /Warning /@Code	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 "710" will be used.
Warning Description		1..N	O	/Warnings /Warning	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 "-" as separator. Example: 600 - PRICING ON MULTI-LEG IS NOT ALLOWED.

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:

```
<Warnings>
  <Warning Code="710">13555 - Cabin varies over legs.</Warning>
</Warnings>
```

Here is the list of possible warnings:

Warnings	IATA Warning Code	Warning Message	Description
Multileg warnings			
710		13555 - Cabin varies over legs	Some seats belong to different cabins on the different legs.
710		195 - COG FLIGHT - NEXT SEGMENT FOR FOLLOW-UP ENTRY: + information of the next leg	Change of gauge flights.

Seatmap with price warnings		
710	600 - PRICING ERROR - PRICING ON MULTI-LEG FLIGHTS IS NOT ALLOWED	Seatmap with price on multileg flights is not supported.
710	601 - ERROR DURING PRICING PROCESS	Communication issue with ATPCO catalog
710	602 - ERROR DURING PRICING PROCESS	Communication unavailable with ATPCO catalog
710	603 - NOT ALL CHARGEABLE SEATS HAVE BEEN PRICED	At least one chargeable seat does not have a matching sequence in catalog reply
710	604 - CHARGEABLE SEATS HAVE NOT BEEN PRICED (NO MATCHING)	None of the chargeable seats have a matching sequence in catalog reply
710	605 - PRICING ERROR + error number returned by pricing + - + Text message returned by pricing	A pricing error is received from from catalog reply.
710	606 - SEATMAP WITH PRICE NOT SUPPORTED - 9 PASSENGERS MAX	Seat map with price is not allowed on a PNR with more than 9 passengers
Options warnings		
710	620 - Invalid Option	Option provided in input of the seatmap query has an invalid format.

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.

Flight information	Designation	Repetition	Status	Location	Comments
Flight Reference		1	M	/Flights /FlightSegmentReferences/	Reference to the flight segment defined under DataList element.
Cabin		1..N	M	/Flights /Cabin	Gathers configuration details of a compartment. The attribute UpperDeckInd indicates if the engineering zone is defined as Upper deck.
Engineering zone Code		1	M	/Flights /Cabin /Code	Engineering zone code. Example: "C".
Row Characteristics: Overwings and Exit Rows					
Cabin Layout		1	M	/Flights /Cabin /CabinLayout	Element containing the details of row characteristics: Overwing 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

			/ExitRowPosition /Rows /Position /Code	with row number. In this case, this field is used to give the relative orientation of the exit row from the row defined in /Flights /Cabin /CabinLayout /ExitRowPosition /Rows. Possible value is front (value is "FRO") or rear (value is "REA").
Exit rows Relative Distance	1	O	/Flights /Cabin /CabinLayout /ExitRowPosition /Rows /Position /Definition	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 "2".
Configuration of the Compartment				
Configuration Columns	1	O	/Flights /Cabin /SeatDisplay /Column	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: "W" (window), "A" aisle, "9" center seat, "WA" Window and Aisle together.
Configuration Range first row	1	O	/Flights /Cabin /SeatDisplay /Row /First	Range of the Compartment: first row.
Configuration Range Last row	1	O	/Flights /Cabin /SeatDisplay /Row /Last	Range of the Compartment: last row.
List of facilities				
Component details	1..N	O	/Flights /Cabin /SeatDisplay /Component/	Element containing the details of one facility.
Row Reference	1	M	/Flights/Cabin /SeatDisplay /Component /Locations /Location /Row /Position	Row number used as reference.

Row Relative Orientation	1	M	/Flights /Cabin /SeatDisplay /Component /Locations /Location /Row /Orientation /Code	This field is used to give the relative orientation of the facility from the row defined in /Flights /Cabin /SeatDisplay /Component /Locations /Location /Row /Position. Possible value is front (value is "FRO"), rear (value is "REA") or aligned (value is "INL").
Row Relative Distance	1	O	/Flights /Cabin /SeatDisplay /Component /Locations /Location /Row /Orientation /Definition	This field is used to give the relative distance of the facility from the row defined in /Flights /Cabin /SeatDisplay /Component /Locations /Location /Row /Position. The value provided is an integer. Example: value is "2". Note that if the corresponding Row Relative Orientation is "INL" (aligned), this field is not used.
Column Reference	1	M	/Flights /Cabin /SeatDisplay /Component /Locations /Location /Column /Position	Column number used as reference.
Column Relative Orientation	1	M	/Flights /Cabin /SeatDisplay /Component /Locations /Location /Column /Orientation /Code	This field is used to give the relative orientation of the facility from the column defined in /Flights /Cabin /SeatDisplay /Component /Locations /Location /Column /Position. Possible value is right (value is "RIG"), left (value is "LEF") or aligned (value is "INL").
Column Relative Distance	1	O	/Flights /Cabin /SeatDisplay /Component /Locations /Location /Column /Orientation /Definition	This field is used to give the relative distance of the facility from the Column defined in /Flights /Cabin /SeatDisplay /Component /Locations /Location /Column /Position. The value provided is an integer.

				Example: value is "2". Note that if the corresponding Column Relative Orientation is "INL" (aligned), this field is not used.
Facility type	1	O	/Flights /Cabin /SeatDisplay /Component /Type /Code	Type of facility. "LA" for lavatory.
Cabin Code				
Cabin code	1	M	/Flights /Cabin /CabinType	Cabin code. Example: "J".
List of Seats				
Seat reference	1..N	O	/Flights /Cabin /CabinLayout /SeatReference	List of seats belonging to the engineering zone. This reference is used afterward in association with DataList element. The format is the following: "seat_1"+ compartment code + seat number (on 3 digits) + column number. Example: seat_1A007D.

3.2.5.1 Facilities

Here is an example of the way facilities are conveyed:

```

<Component>
  <Locations>
    <Location>
      <Row>
        <Position>025</Position>
        <Orientation>REA
          <Definition>1</Definition>
        </Orientation>
      </Row>
      <Column>
        <Position>A</Position>
        <Orientation>
          INL
        </Orientation>
      </Column>
    </Location>
  </Locations>
  <Type>
    LA
  </Type>
</Component>
<Component>
  <Locations>
    <Location>

```

```

        <Row>
            <Position>025</Position>
            <Orientation>
                REA
                <Definition>1</Definition>
            </Orientation>
        </Row>
        <Column>
            <Position>F</Position>
            <Orientation>
                INL
            </Orientation>
        </Column>
    </Location>
</Locations>
<Type>
    LA
</Type>
</Component>
<Component>
    <Locations>
        <Location>
            <Row>
                <Position>025</Position>
                <Orientation>
                    REA
                    <Definition>2</Definition>
                </Orientation>
            </Row>
            <Column>
                <Position>A</Position>
                <Orientation>
                    INL
                </Orientation>
            </Column>
        </Location>
    </Locations>
    <Type>
        GN
    </Type>
</Component>
<Component>
    <Locations>
        <Location>
            <Row>
                <Position>025</Position>
                <Orientation>
                    REA
                    <Definition>2</Definition>
                </Orientation>
            </Row>
            <Column>
                <Position>B</Position>
                <Orientation>
                    INL
                </Orientation>
            </Column>
        </Location>
    </Locations>
    <Type>
        GN
    </Type>
</Component>
<Component>
    <Locations>
        <Location>

```

```

        <Row>
            <Position>025</Position>
            <Orientation>
                REA
                <Definition>2</Definition>
            </Orientation>
        </Row>
        <Column>
            <Position>C</Position>
            <Orientation>
                INL
            </Orientation>
        </Column>
    </Location>
</Locations>
<Type>
    GN
</Type>
</Component>
<Component>
    <Locations>
        <Location>
            <Row>
                <Position>025</Position>
                <Orientation>
                    REA
                    <Definition>2</Definition>
                </Orientation>
            </Row>
            <Column>
                <Position>C</Position>
                <Orientation>
                    RIG
                    <Definition>1</Definition>
                </Orientation>
            </Column>
        </Location>
    </Locations>
    <Type>
        GN
    </Type>
</Component>
<Component>
    <Locations>
        <Location>
            <Row>
                <Position>025</Position>
                <Orientation>
                    REA
                    <Definition>2</Definition>
                </Orientation>
            </Row>
            <Column>
                <Position>D</Position>
                <Orientation>
                    INL
                </Orientation>
            </Column>
        </Location>
    </Locations>
    <Type>
        GN
    </Type>
</Component>
<Component>
    <Locations>

```

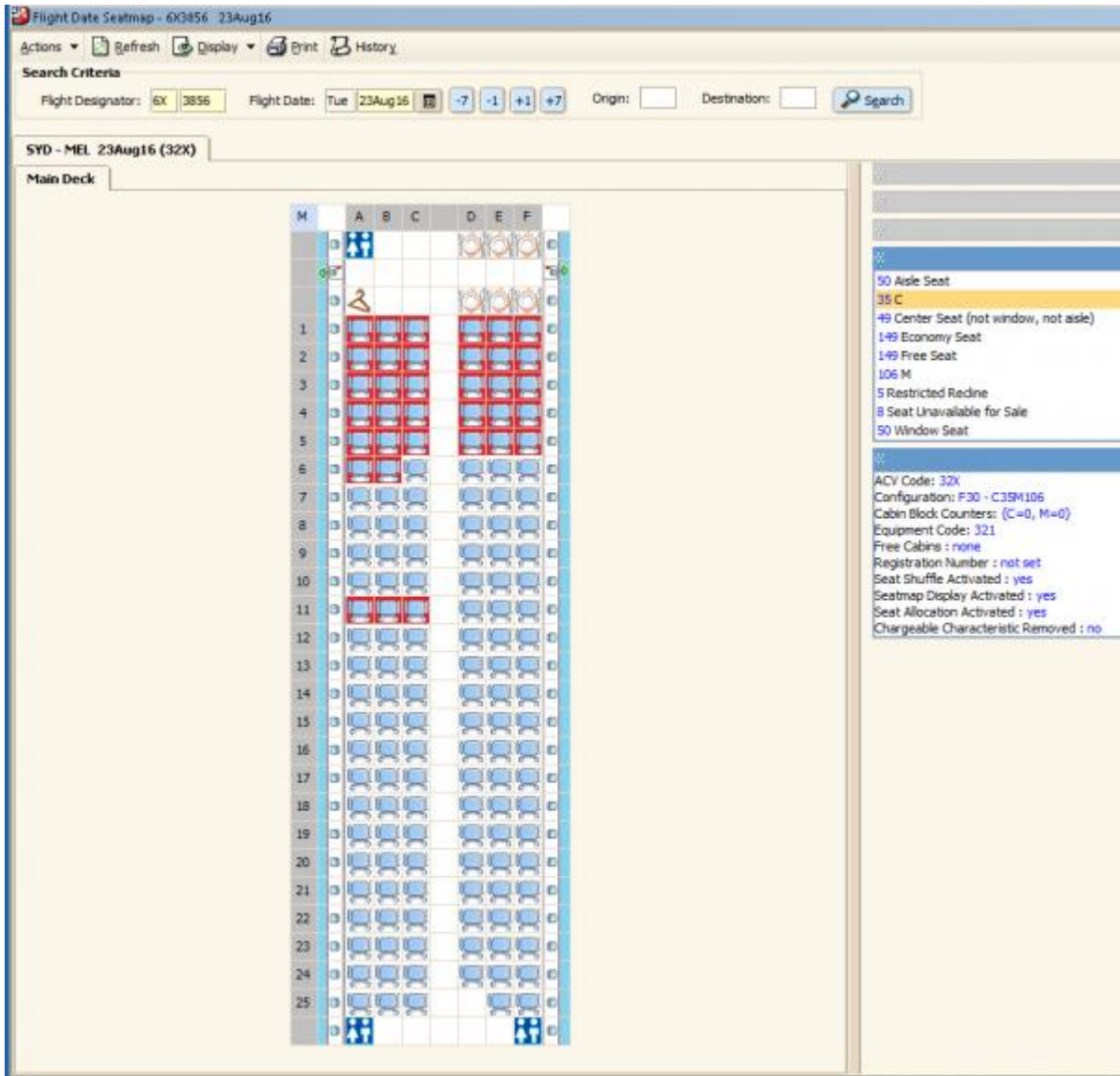
```

    <Location>
      <Row>
        <Position>025</Position>
        <Orientation>
          REA
          <Definition>2</Definition>
        </Orientation>
      </Row>
      <Column>
        <Position>E</Position>
        <Orientation>
          INL
        </Orientation>
      </Column>
    </Location>
  </Locations>
</Type>
  GN
</Type>
</Component>
<Component>
  <Locations>
    <Location>
      <Row>
        <Position>025</Position>
        <Orientation>
          REA
          <Definition>2</Definition>
        </Orientation>
      </Row>
      <Column>
        <Position>F</Position>
        <Orientation>
          INL
        </Orientation>
      </Column>
    </Location>
  </Locations>
  <Type>
    GN
  </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>FR0</Code>
            <Definition>2</Definition>
          </Position>
        </Rows>
      </ExitRowPosition>
    </CabinLayout>
  </Cabin>
</Flights>

```

```

        </Rows>
    </ExitRowPosition>
</CabinLayout>
<SeatDisplay>
    <Columns Position="W">A</Columns>
    <Columns Position="9">B</Columns>
    <Columns Position="A">C</Columns>
    <Columns Position="A">D</Columns>
    <Columns Position="9">E</Columns>
    <Columns Position="W">F</Columns>
    <Rows>
        <First>1</First>
        <Last>11</Last>
    </Rows>
    <Component>
        <Locations>
            <Location>
                <Row>
                    <Position>001</Position>
                    <Orientation>
                        <Code>FRO</Code>
<Definition>3</Definition>
                </Orientation>
            </Row>
            <Column>
                <Position>A</Position>
                <Orientation>
                    <Code>INL</Code>
                </Orientation>
            </Column>
        </Location>
    </Locations>
    <Type>
        <Code>LA</Code>
    </Type>
</Component>
<Component>
    <Locations>
        <Location>
            <Row>
                <Position>001</Position>
                <Orientation>
                    <Code>FRO</Code>
<Definition>3</Definition>
            </Orientation>
        </Row>
        <Column>
            <Position>D</Position>
            <Orientation>
                <Code>INL</Code>
            </Orientation>
        </Column>
    </Location>
</Locations>
    <Type>
        <Code>GN</Code>
    </Type>
</Component>
<Component>
    <Locations>
        <Location>
            <Row>
                <Position>001</Position>
                <Orientation>

```

```

<Code>FRO</Code>
<Definition>3</Definition>
</Orientation>
</Row>
<Column>
<Position>E</Position>
<Orientation>
<Code>INL</Code>
</Orientation>
</Column>
</Location>
</Locations>
<Type>
<Code>GN</Code>
</Type>
</Component>
<Component>
<Locations>
<Location>
<Row>
<Position>001</Position>
<Orientation>
<Code>FRO</Code>
</Orientation>
</Row>
</Location>
</Locations>
<Type>
<Code>GN</Code>
</Type>
</Component>
<Component>
<Locations>
<Location>
<Row>
<Position>001</Position>
<Orientation>
<Code>FRO</Code>
</Orientation>
</Row>
</Location>
</Locations>
<Type>
<Code>CL</Code>
</Type>
</Component>
<Component>
<Locations>
<Location>

```

```

<Definition>l</Definition>
    <Row>
        <Position>001</Position>
        <Orientation>
            <Code>FRO</Code>
        </Orientation>
    </Row>
</Definition>
</Locations>
<Type>
    <Code>GN</Code>
</Type>
</Component>
<Component>
    <Locations>
        <Location>
            <Row>
                <Position>001</Position>
                <Orientation>
                    <Code>FRO</Code>
                </Orientation>
            </Row>
        </Location>
    </Locations>
    <Type>
        <Code>GN</Code>
    </Type>
</Component>
<Component>
    <Locations>
        <Location>
            <Row>
                <Position>001</Position>
                <Orientation>
                    <Code>FRO</Code>
                </Orientation>
            </Row>
        </Location>
    </Locations>
    <Type>
        <Code>GN</Code>
    </Type>
</Component>

```



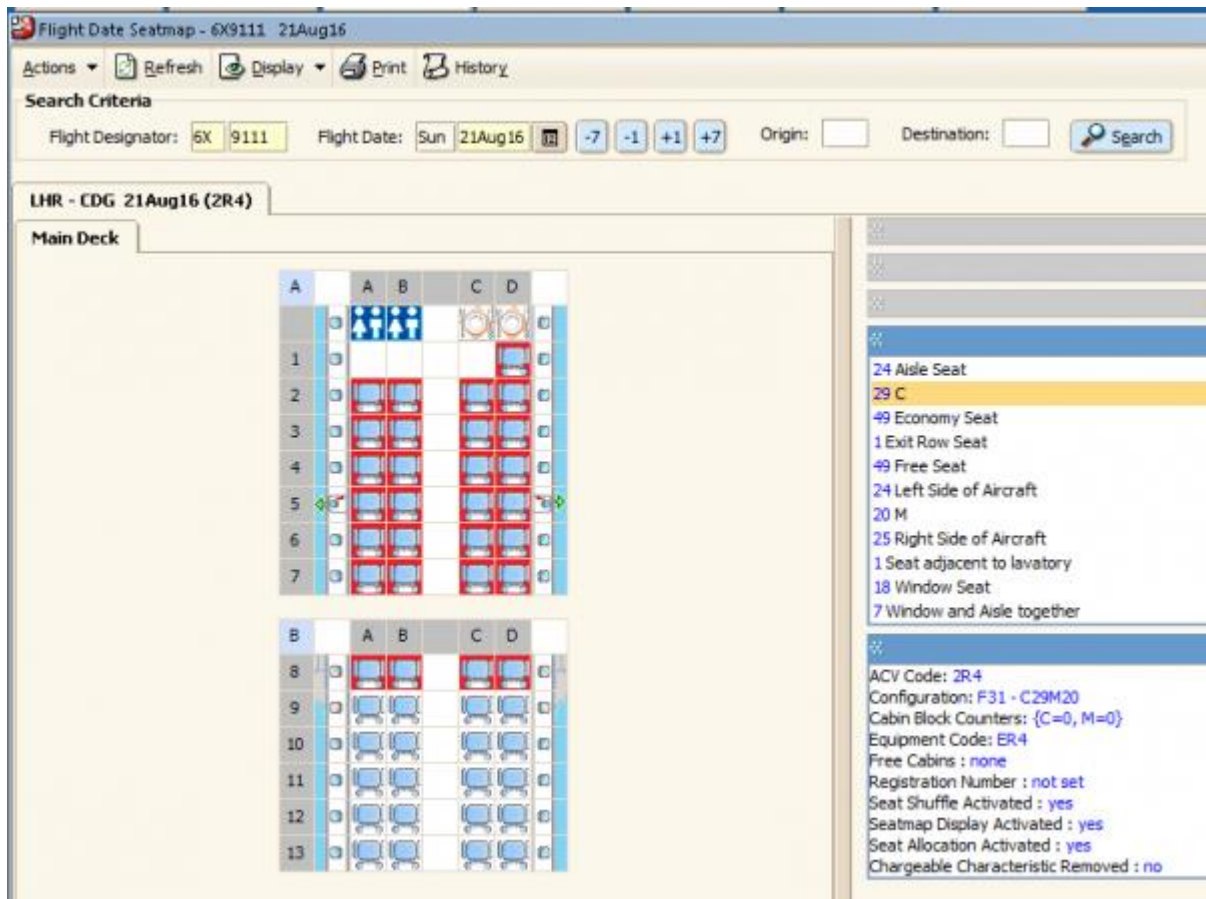
```

        <CabinType>
            <Code>C</Code>
        </CabinType>
    </SeatDisplay>
    <SeatReference>seat_1M001A</SeatReference>
    <SeatReference>seat_1M001B</SeatReference>
    <SeatReference>seat_1M001C</SeatReference>
    <SeatReference>seat_1M001D</SeatReference>
    <SeatReference>seat_1M001E</SeatReference>
    <SeatReference>seat_1M001F</SeatReference>
    <SeatReference>seat_1M002A</SeatReference>
    <SeatReference>seat_1M002B</SeatReference>
    <SeatReference>seat_1M002C</SeatReference>
    <SeatReference>seat_1M002D</SeatReference>
    <SeatReference>seat_1M002E</SeatReference>
    <SeatReference>seat_1M002F</SeatReference>
    <SeatReference>seat_1M003A</SeatReference>
    <SeatReference>seat_1M003B</SeatReference>
    <SeatReference>seat_1M003C</SeatReference>
    <SeatReference>seat_1M003D</SeatReference>
    <SeatReference>seat_1M003E</SeatReference>
    <SeatReference>seat_1M003F</SeatReference>
    <SeatReference>seat_1M004A</SeatReference>
    <SeatReference>seat_1M004B</SeatReference>
    <SeatReference>seat_1M004C</SeatReference>
    <SeatReference>seat_1M004D</SeatReference>
    <SeatReference>seat_1M004E</SeatReference>
    <SeatReference>seat_1M004F</SeatReference>
    <SeatReference>seat_1M005A</SeatReference>
    <SeatReference>seat_1M005B</SeatReference>
    <SeatReference>seat_1M005C</SeatReference>
    <SeatReference>seat_1M005D</SeatReference>
    <SeatReference>seat_1M005E</SeatReference>
    <SeatReference>seat_1M005F</SeatReference>
    <SeatReference>seat_1M006A</SeatReference>
    <SeatReference>seat_1M006B</SeatReference>
    <SeatReference>seat_1M011A</SeatReference>
    <SeatReference>seat_1M011B</SeatReference>
    <SeatReference>seat_1M011C</SeatReference>
    </Cabin>
</Flights>

```

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:

```

<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>
  </Cabin>
</Flights>

```

```

          <First>1</First>
          <Last>7</Last>
        </Rows>
        <Component>
          <Locations>
            <Location>
              <Row>
                <Position>001</Position>
                <Orientation>
                  <Code>FRO</Code>

<Definition>1</Definition>
                </Orientation>
              </Row>
            </Column>
            <Position>A</Position>
            <Orientation>
              <Code>INL</Code>
            </Orientation>
          </Column>
        </Location>
      </Locations>
      <Type>
        <Code>LA</Code>
      </Type>
    </Component>
    <Component>
      <Locations>
        <Location>
          <Row>
            <Position>001</Position>
            <Orientation>
              <Code>FRO</Code>

<Definition>1</Definition>
            </Orientation>
          </Row>
        </Column>
        <Position>B</Position>
        <Orientation>
          <Code>INL</Code>
        </Orientation>
      </Column>
    </Location>
  </Locations>
  <Type>
    <Code>LA</Code>
  </Type>
</Component>
<Component>
  <Locations>
    <Location>
      <Row>
        <Position>001</Position>
        <Orientation>
          <Code>FRO</Code>

<Definition>1</Definition>
        </Orientation>
      </Row>
    </Column>
    <Position>C</Position>
    <Orientation>
      <Code>INL</Code>
    </Orientation>
  </Column>

```

```

        </Location>
    </Locations>
    <Type>
        <Code>GN</Code>
    </Type>
</Component>
<Component>
    <Locations>
        <Location>
            <Row>
                <Position>001</Position>
                <Orientation>
                    <Code>FRO</Code>
                </Orientation>
            </Row>
            <Column>
                <Position>D</Position>
                <Orientation>
                    <Code>INL</Code>
                </Orientation>
            </Column>
        </Location>
    </Locations>
    <Type>
        <Code>GN</Code>
    </Type>
</Component>
<CabinType>
    <Code>C</Code>
</CabinType>
</SeatDisplay>
<SeatReference>seat_1A001D</SeatReference>
<SeatReference>seat_1A002A</SeatReference>
<SeatReference>seat_1A002B</SeatReference>
<SeatReference>seat_1A002C</SeatReference>
<SeatReference>seat_1A002D</SeatReference>
<SeatReference>seat_1A003A</SeatReference>
<SeatReference>seat_1A003B</SeatReference>
<SeatReference>seat_1A003C</SeatReference>
<SeatReference>seat_1A003D</SeatReference>
<SeatReference>seat_1A004A</SeatReference>
<SeatReference>seat_1A004B</SeatReference>
<SeatReference>seat_1A004C</SeatReference>
<SeatReference>seat_1A004D</SeatReference>
<SeatReference>seat_1A005A</SeatReference>
<SeatReference>seat_1A005B</SeatReference>
<SeatReference>seat_1A005C</SeatReference>
<SeatReference>seat_1A005D</SeatReference>
<SeatReference>seat_1A006A</SeatReference>
<SeatReference>seat_1A006B</SeatReference>
<SeatReference>seat_1A006C</SeatReference>
<SeatReference>seat_1A006D</SeatReference>
<SeatReference>seat_1A007A</SeatReference>
<SeatReference>seat_1A007B</SeatReference>
<SeatReference>seat_1A007C</SeatReference>
<SeatReference>seat_1A007D</SeatReference>
</Cabin>
<Cabin>
    <Code>M</Code>
    <CabinLayout>
        <WingPosition>
            <Rows>
                <First>8</First>
            </Rows>
        </WingPosition>
    </CabinLayout>
</Cabin>
</Definition>1</Definition>

```

```

        <Last>8</Last>
      </Rows>
    </WingPosition>
  </CabinLayout>
  <SeatDisplay>
    <Columns Position="W">A</Columns>
    <Columns Position="A">B</Columns>
    <Columns Position="A">C</Columns>
    <Columns Position="W">D</Columns>
    <Rows>
      <First>8</First>
      <Last>8</Last>
    </Rows>
    <CabinType>C
    </CabinType>
  </SeatDisplay>
  <SeatReference>seat_1M008A</SeatReference>
  <SeatReference>seat_1M008B</SeatReference>
  <SeatReference>seat_1M008C</SeatReference>
  <SeatReference>seat_1M008D</SeatReference>
</Cabin>
</Flights>

```

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:

	B		A	B		C	D	
8	Seat	Exit	Seat	Seat		Seat	Seat	Exit
9	Seat	Exit	Seat	Seat		Seat	Seat	Exit
10	Seat	Exit	Seat	Seat		Seat	Seat	Exit
11	Seat		Seat	Seat		Seat	Seat	
12	Seat		Seat	Seat		Seat	Seat	
13	Seat		Seat	Seat		Seat	Seat	

Seatmap 2:

B		A	B		C	D	
8							
9							
10							
11							
12							
13							

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.

```

<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.

```

<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**

```
<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.

```
</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:

	B		A	B		C	D	
			LA	LA		LG	LG	
			LG					
6								
7								
8						LG	LG	
9								
10								
11								
12								

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

```
<Component>
  <Locations>
    <Location>
      <Row>
        <Position>008</Position>
        <Orientation>
          <Code>INL</Code>
        </Orientation>
      </Row>
      <Column>
        <Position>C</Position>
        <Orientation>
          <Code>INL</Code>
        </Orientation>
      </Column>
    </Location>
  </Locations>
  <Type>
    <Code>LG</Code>
  </Type>
```

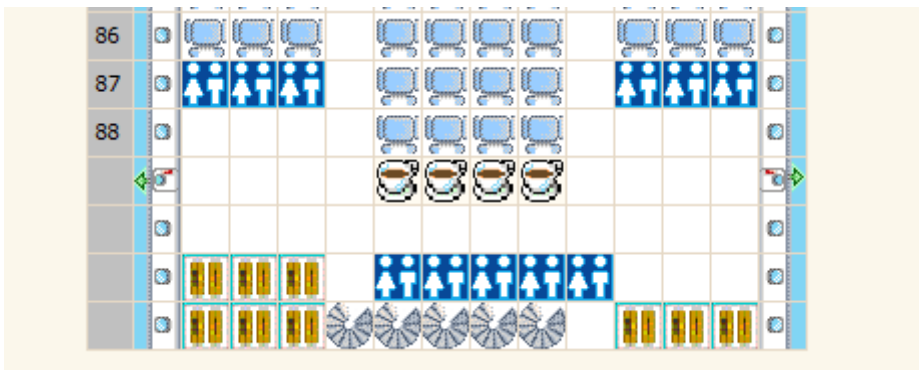


```

</Component>
<Component>
  <Locations>
    <Location>
      <Row>
        <Position>008</Position>
        <Orientation>
          <Code>INL</Code>
        </Orientation>
      </Row>
      <Column>
        <Position>D</Position>
        <Orientation>
          <Code>INL</Code>
        </Orientation>
      </Column>
    </Location>
  </Locations>
  <Type>
    <Code>LG</Code>
  </Type>
</Component>

```

Seatmap 2:



- Description of all facilities from row 87 to the end of the compartment:

```

<Component>
  <Locations>
    <Location>
      <Row>
        <Position>087</Position>
        <Orientation>
          <Code>INL</Code>
        </Orientation>
      </Row>
      <Column>
        <Position>A</Position>
        <Orientation>
          <Code>INL</Code>
        </Orientation>
      </Column>
    </Location>
  </Locations>
  <Type>
    <Code>IA</Code>
  </Type>
</Component>
<Component>
  <Locations>

```

```

        <Location>
            <Row>
                <Position>087</Position>
                <Orientation>
                    <Code>INL</Code>
                </Orientation>
            </Row>
            <Column>
                <Position>B</Position>
                <Orientation>
                    <Code>INL</Code>
                </Orientation>
            </Column>
        </Location>
    </Locations>
    <Type>
        <Code>LA</Code>
    </Type>
</Component>
<Component>
    <Locations>
        <Location>
            <Row>
                <Position>087</Position>
                <Orientation>
                    <Code>INL</Code>
                </Orientation>
            </Row>
            <Column>
                <Position>C</Position>
                <Orientation>
                    <Code>INL</Code>
                </Orientation>
            </Column>
        </Location>
    </Locations>
    <Type>
        <Code>LA</Code>
    </Type>
</Component>
<Component>
    <Locations>
        <Location>
            <Row>
                <Position>087</Position>
                <Orientation>
                    <Code>INL</Code>
                </Orientation>
            </Row>
            <Column>
                <Position>H</Position>
                <Orientation>
                    <Code>INL</Code>
                </Orientation>
            </Column>
        </Location>
    </Locations>
    <Type>
        <Code>LA</Code>
    </Type>
</Component>
<Component>
    <Locations>
        <Location>
            <Row>
                <Position>087</Position>
            </Row>
        </Location>
    </Locations>

```

```

        <Orientation>
          <Code>INL</Code>
        </Orientation>
      </Row>
    </Column>
    <Position>J</Position>
    <Orientation>
      <Code>INL</Code>
    </Orientation>
  </Column>
</Location>
</Locations>
<Type>
  <Code>LA</Code>
</Type>
</Component>
<Component>
  <Locations>
    <Location>
      <Row>
        <Position>087</Position>
        <Orientation>
          <Code>INL</Code>
        </Orientation>
      </Row>
    </Column>
    <Position>K</Position>
    <Orientation>
      <Code>INL</Code>
    </Orientation>
  </Column>
</Location>
</Locations>
<Type>
  <Code>LA</Code>
</Type>
</Component>
<Component>
  <Locations>
    <Location>
      <Row>
        <Position>088</Position>
        <Orientation>
          <Code>REA</Code>
        </Orientation>
      </Row>
    </Column>
    <Position>D</Position>
    <Orientation>
      <Code>INL</Code>
    </Orientation>
  </Column>
</Location>
</Locations>
<Type>
  <Code>BA</Code>
</Type>
</Component>
<Component>
  <Locations>
    <Location>
      <Row>
        <Position>088</Position>
        <Orientation>

```

```

<Code>REA</Code>
<Definition>l</Definition>
</Orientation>
</Row>
<Column>
<Position>E</Position>
<Orientation>
<Code>INL</Code>
</Orientation>
</Column>
</Location>
</Locations>
<Type>
<Code>BA</Code>
</Type>
</Component>
<Component>
<Locations>
<Location>
<Row>
<Position>088</Position>
<Orientation>
<Code>REA</Code>
</Orientation>
</Row>
</Location>
</Locations>
</Component>
</Component>
</Type>
<Code>BA</Code>
</Type>
</Component>
<Component>
<Locations>
<Location>
<Row>
<Position>088</Position>
<Orientation>
<Code>REA</Code>
</Orientation>
</Row>
</Location>
</Locations>
</Component>
</Component>
</Type>
<Code>BA</Code>
</Type>
</Component>
<Component>
<Locations>
<Location>
</Orientation>
</Row>
<Column>
<Position>G</Position>
<Orientation>
<Code>INL</Code>
</Orientation>
</Column>
</Location>
</Locations>
<Type>
<Code>BA</Code>
</Type>
</Component>
<Component>
<Locations>
<Location>

```

```

                <Row>
                    <Position>088</Position>
                    <Orientation>
                        <Code>REA</Code>
                </Orientation>
            </Row>
            <Column>
                <Position>A</Position>
                <Orientation>
                    <Code>INL</Code>
                </Orientation>
            </Column>
        </Locations>
        <Type>
            <Code>S0</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>
        </Locations>
        <Type>
            <Code>S0</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>
        </Locations>
        <Type>
            <Code>S0</Code>
        </Type>
    </Component>

```

```

    <Component>
      <Locations>
        <Location>
          <Row>
            <Position>088</Position>
            <Orientation>
              <Code>REA</Code>
          </Row>
          </Orientation>
        </Location>
        <Column>
          <Position>D</Position>
          <Orientation>
            <Code>INL</Code>
          </Orientation>
        </Column>
      </Locations>
    </Type>
    <Code>IA</Code>
  </Type>
</Component>
<Component>
  <Locations>
    <Location>
      <Row>
        <Position>088</Position>
        <Orientation>
          <Code>REA</Code>
        </Orientation>
      </Row>
      </Orientation>
    </Location>
    <Column>
      <Position>E</Position>
      <Orientation>
        <Code>INL</Code>
      </Orientation>
    </Column>
  </Locations>
</Type>
<Code>IA</Code>
</Type>
</Component>
<Component>
  <Locations>
    <Location>
      <Row>
        <Position>088</Position>
        <Orientation>
          <Code>REA</Code>
        </Orientation>
      </Row>
      </Orientation>
    </Location>
    <Column>
      <Position>F</Position>
      <Orientation>
        <Code>INL</Code>
      </Orientation>
    </Column>
  </Locations>
</Type>

```

```

                <Code>IA</Code>
            </Type>
        </Component>
    <Component>
        <Locations>
            <Location>
                <Row>
                    <Position>088</Position>
                    <Orientation>
                        <Code>REA</Code>
                </Orientation>
            </Row>
        </Column>
        <Position>G</Position>
        <Orientation>
            <Code>INL</Code>
        </Orientation>
    </Column>
</Location>
</Locations>
<Type>
    <Code>IA</Code>
</Type>
</Component>
<Component>
    <Locations>
        <Location>
            <Row>
                <Position>088</Position>
                <Orientation>
                    <Code>REA</Code>
            </Orientation>
        </Row>
    </Column>
        <Position>G</Position>
        <Orientation>
            <Code>RIG</Code>
        </Orientation>
    </Column>
</Location>
</Locations>
<Type>
    <Code>IA</Code>
</Type>
</Component>
<Component>
    <Locations>
        <Location>
            <Row>
                <Position>088</Position>
                <Orientation>
                    <Code>REA</Code>
            </Orientation>
        </Row>
    </Column>
        <Position>A</Position>
        <Orientation>
            <Code>INL</Code>
        </Orientation>
    </Column>
</Location>
</Locations>
</Type>
</Component>
</Component>
</Definition>3</Definition>
</Definition>3</Definition>
</Definition>1</Definition>
</Definition>4</Definition>

```



```

                <Position>C</Position>
                <Orientation>
                    <Code>RIG</Code>
                </Orientation>
</Definition>1</Definition>
                </Column>
            </Locations>
        </Component>
    </Component>
    <Component>
        <Locations>
            <Location>
                <Row>
                    <Position>088</Position>
                    <Orientation>
                        <Code>REA</Code>
                    </Orientation>
                </Row>
            </Location>
        </Locations>
    </Component>
    <Component>
        <Locations>
            <Location>
                <Row>
                    <Position>D</Position>
                    <Orientation>
                        <Code>INL</Code>
                    </Orientation>
                </Row>
            </Location>
        </Locations>
    </Component>
    <Component>
        <Locations>
            <Location>
                <Row>
                    <Position>088</Position>
                    <Orientation>
                        <Code>REA</Code>
                    </Orientation>
                </Row>
            </Location>
        </Locations>
    </Component>
    <Component>
        <Locations>
            <Location>
                <Row>
                    <Position>E</Position>
                    <Orientation>
                        <Code>INL</Code>
                    </Orientation>
                </Row>
            </Location>
        </Locations>
    </Component>
    <Component>
        <Locations>
            <Location>
                <Row>
                    <Position>088</Position>
                    <Orientation>
                        <Code>REA</Code>
                    </Orientation>
                </Row>
            </Location>
        </Locations>
    </Component>

```

```

<Definition>4</Definition>
                                </Orientation>
                                </Row>
                                <Column>
                                <Position>F</Position>
                                <Orientation>
                                <Code>INL</Code>
                                </Orientation>
                                </Column>
                                </Location>
                                </Locations>
                                <Type>
                                <Code>ST</Code>
                                </Type>
                                </Component>
                                <Component>
                                <Locations>
                                <Location>
                                <Row>
                                <Position>088</Position>
                                <Orientation>
                                <Code>REA</Code>
                                </Orientation>
                                </Row>
                                </Location>
                                </Locations>
                                <Type>
                                <Code>ST</Code>
                                </Type>
                                </Component>
                                <Component>
                                <Locations>
                                <Location>
                                <Row>
                                <Position>088</Position>
                                <Orientation>
                                <Code>REA</Code>
                                </Orientation>
                                </Row>
                                </Location>
                                </Locations>
                                <Type>
                                <Code>S0</Code>
                                </Type>
                                </Component>
                                <Component>
                                <Locations>
                                <Location>
                                <Row>

```

```

<Definition>4</Definition>
<Position>088</Position>
<Orientation>
  <Code>REA</Code>
</Orientation>
</Row>
<Column>
  <Position>J</Position>
  <Orientation>
    <Code>INL</Code>
  </Orientation>
</Column>
</Location>
</Locations>
<Type>
  <Code>S0</Code>
</Type>
</Component>
<Component>
  <Locations>
    <Location>
      <Row>
        <Position>088</Position>
        <Orientation>
          <Code>REA</Code>
        </Orientation>
      </Row>
    </Location>
  </Locations>
  <Type>
    <Code>S0</Code>
  </Type>
</Component>

```

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.

Services	Designation	Repetition	Status	Location	Comments
Service ID		1	M	/Services /Service /ServiceID	Unique ID of the service. Following Prefix is used: "PRICE". An incremental number is then append after the prefix.
Service element owner		1	M	/Services /Service /ServiceID /@Owner	Same value as Airline code of the marketing carrier. Example: Owner="6X"
Service Name		1	M	/Services /Service /Name	Not used in seatmap process. Empty field.
Pricing description		1	O	/Services /Service /Descriptions /Description /Text	Pricing description of the seat(s).
Price details		1	O	/Services /Service /Price	Price information for a Price element.
Reference of Discount		1	O	/Services /Service /Price /@ref	Reference of Discount. The reference is composed of DIS+#RuleID. Discount/Promo-code object is described in OtherMetadata
Total amount		1	M	/Services /Service /Price /Total	Total amount for the seat reservation.
Total amount currency		1	M	/Services /Service /Price /Total /@Code	Attribute Code (3 letters) is used to convey the currency code. Example: Code="USD".
Old Price / New Price / Exemption Source		1	O	/Services /Service /Price /Details /Detail /Application	Field used to differentiate the Old Price from the New Price. For Old Price, "AMOUNT BEFORE DISCOUNT" 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

				that case, there are 2 possible values: <ul style="list-style-type: none"> "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
Base amount	1	M	/Services /Service /Price /Details /Detail /Amount	Base amount for the seat reservation.
Base amount currency	1	M	/Services /Service /Price /Details /Detail /Amount /@Code	Attribute Code (3 letters) is used to convey the currency code. Example: Code="USD".
Taxes total amount	1	M	/Services /Service /Price /Taxes /Total	Taxes total amount for the seat reservation.
Taxes total amount currency	1	M	/Services /Service /Price /Taxes /Total /@Code	Attribute Code (3 letters) is used to convey the currency code. Example: Code="USD".
Association details	1..N	M	/Services /Service /Associations	Notes: <ul style="list-style-type: none"> At least one association to a seat is mandatory. A passenger association is mandatory. Association to a Refundable indicator may be defined. Association to a Commission indicator may be defined. Association to an Offer may be defined.
Association Traveler	1	O	/Services /Service /Associations /Traveler /TravelerReferences	Passenger reference as defined in RecognizedTraveler. Example: PAX1.
Association Offer	1	O	/Services /Service /Associations /Offer /OfferReferences	Reference to the commercial name. List of commercial name defined in /Metadata /Shopping /ShopMetadataGroup /Offer /OfferMetadatas /OfferMetadata element.

Association Refundable or commission indicator	1..2	O	/Services /Service /Associations /OtherAssociations /OtherAssociation /ReferenceValue	<p>Two elements OtherAssociation may be defined:</p> <ul style="list-style-type: none"> for the refundable/Exchangeable indicator: reference value having prefix "REFUND_" for the commission indicator: reference value having prefix "COMMISSION_" <p>Both elements are linking with MetaData /Other /OtherMetadata /DescriptionMetadatas /DescriptionMetadata element.</p>
Association Seat	1..N	M	/Services /Service /Associations /SeatReference	Seat reference as defined in DataList /SeatList.

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

```

<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>
            <TravelerReferences>PAX1</TravelerReferences>
        </Traveler>
    </Associations>
<Associations>
    <Offer>
        <OfferReferences>CMN1</OfferReferences>
    </Offer>
</Associations>
<Associations>
    <OtherAssociations>
        <OtherAssociation>
            <Type/>
            <ReferenceValue>REFUND_3</ReferenceValue>
        </OtherAssociation>
        <OtherAssociation>
            <Type/>
            <ReferenceValue>COMMISSION_2</ReferenceValue>
        </OtherAssociation>
    </OtherAssociations>
</Associations>
<Associations>
    <SeatReference>Seat_1M009B</SeatReference>
</Associations>
<Associations>
    <SeatReference>Seat_1M009C</SeatReference>
</Associations>
</Service>
<Service>
    <ServiceID Owner="6X">PRICE2</ServiceID>
    <Name/>
    <Descriptions>
        <Description>
            <Text>Extra EXTRA-LEG-ROOM</Text>
        </Description>
    </Descriptions>
    <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>
<Associations>
    <Offer>
        <OfferReferences>CMN1</OfferReferences>
    </Offer>
</Associations>
<Associations>
    <OtherAssociations>
        <OtherAssociation>
            <Type/>
            <ReferenceValue>REFUND_3</ReferenceValue>
        </OtherAssociation>
        <OtherAssociation>
            <Type/>

```

```

    <ReferenceValue>COMMISSION_2</ReferenceValue>
      </OtherAssociation>
    </OtherAssociations>
  </Associations>
<Associations>
  <SeatReference>Seat_1M009B</SeatReference>
</Associations>
<Associations>
  <SeatReference>Seat_1M009C</SeatReference>
</Associations>
</Service>
</Services>

```

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

Recognized Passenger Designation	Repetition	Status	Location	Comments
Traveler with name	1..N	M	/DataList /RecognizedTravelerList /RecognizedTraveler	ObjectKey attribute is used to identify the passenger. Example: ObjectKey="ANONYMOUS1"
Passenger Type	1	O	/DataList /RecognizedTravelerList /RecognizedTraveler /PTC	Type of the passenger provided in the Query and used for seatmap process.
Passenger Surname	1	M	/DataList /RecognizedTravelerList /RecognizedTraveler /Name /Surname	Passenger's family name provided in the Query.
Passenger First Name	1	O	/DataList /RecognizedTravelerList /RecognizedTraveler /Name /Given	Passenger's first name(s) provided in the Query.
Passenger Name Title	1	O	/DataList /RecognizedTravelerList /RecognizedTraveler /Name /Title	Name Title provided in the Query. Examples: MR, MRS, DR

```

<RecognizedTravelerList>
  <RecognizedTraveler ObjectKey="PAX1">

```



```

        <PTC>ADT</PTC>
        <Name>
            <Surname>HELM</Surname>
            <Given>MATTHIAS</Given>
            <Title>MR</Title>
        </Name>
    </RecognizedTraveler>
</RecognizedTravelerList>

```

AnonymousTravelerList

Anonymous Passenger Designation	Repetition	Status	Location	Comments
Traveler without name	1..N	M	/DataList/AnonymousTravelerList/AnonymousTraveler	ObjectKey attribute is used to identify the passenger. Example: ObjectKey="ANONYMOUS1"
Passenger Type	1	O	/DataList/AnonymousTravelerList/RecognizedTraveler/PTC	Type of the passenger provided in the Query and used for seatmap process.

```

<AnonymousTravelerList>
  <AnonymousTraveler ObjectKey="ANONYMOUS1">
    <PTC>ADT</PTC>
  </AnonymousTraveler>
  <AnonymousTraveler ObjectKey="ANONYMOUS2">
    <PTC>CHD</PTC>
  </AnonymousTraveler>
</AnonymousTravelerList>

```

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

Flight Segment	Designation	Repetition	Status	Location	Comments
Flight Segment		1	M	/FlightSegmentList/ FlightSegment	The seatmap could be requested only for one segment.
Departure Airport Code		1	M	/FlightSegmentList /FlightSegment /Departure /AirportCode	3 letters airport code of the departure airport.
Departure Date		1	M	/FlightSegmentList /FlightSegment /Departure/Date	Departure date. Format: YYYY-MM-DD
Arrival Airport Code		1	M	/FlightSegmentList /FlightSegment /Arrival/ AirportCode	3 letters airport code of the arrival airport.
Marketing Carrier Code		1	M	/FlightSegmentList /FlightSegment /MarketingCarrier /AirlineID	Airline code of the marketing carrier.
Marketing Carrier Flight number		1	M	/FlightSegmentList /FlightSegment /MarketingCarrier /FlightNumber	Flight number.
Marketing Operational Suffix		1	M	/FlightSegmentList /FlightSegment /MarketingCarrier /FlightNumber - attribute OperationalSuffix	The attribute OperationSuffix is used to convey this information. Example: OperationalSuffix="A".
Marketing Booking class code		1	M	/FlightSegmentList /FlightSegment /MarketingCarrier /ResBookDesigCode	Booking class code for which the seatmap is requested.
Operating Carrier Code		1	O	/FlightSegmentList /FlightSegment /OperatingCarrier /AirlineID	Airline code of the Operating carrier.
Operating Carrier Flight number		1	O	/FlightSegmentList /FlightSegment /OperatingCarrier /FlightNumber	Flight number of the Operating carrier.
Operating Operational Suffix		1	O	/FlightSegmentList /FlightSegment /OperatingCarrier /FlightNumber - attribute OperationalSuffix	The attribute OperationSuffix is used to convey this information. Example: OperationalSuffix="A".

Operating Booking class code	1	O	/FlightSegmentList /FlightSegment /OperatingCarrier /ResBookDesigCode	Booking class code for which the seatmap is requested.
Equipment Code	1	O	/FlightSegmentList /FlightSegment /Equipment /AircraftCode	Equipment code of the aircraft. Example: 320.
Aircraft Configuration Version	1	O	/FlightSegmentList /FlightSegment /Equipment /AirlineEquipCode	Aircraft Configuration Version (ACV) associated to the seatmap. Example: 3EF.
Cabin code	1	O	/FlightSegmentList /FlightSegment /ClassOfService /Code	Cabin class code for which the seatmap is requested.

Flight Segment	Designation	Repetition	Status	Location	Comments
Reference to Metadata element		1	O	/FlightSegmentList /FlightSegment /Equipment /AircraftCode /@ObjectMetaReferences	Reference to the Metadata element that we will use to define our elements. Example: FITTEDCONFIG1.

```

<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>
      <ResBookDesigCode>J</ResBookDesigCode>
    </MarketingCarrier>
    <Equipment>
      <AircraftCode>320</AircraftCode>
      <AirlineEquipCode>3EF</AirlineEquipCode>
    </Equipment>
    <ClassOfService>
      <Code>C</Code>
    </ClassOfService>
  </FlightSegment>
</FlightSegmentList>

```

3.2.7.3 MediaList data

MediaDesignation	Repetition	Status	Location	Comments
------------------	------------	--------	----------	----------

Media detail	1..N	O	/MediaList/Media /@ListKey	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	1	O	/MediaList/Media/ObjectID	1 is the default value returned.
Media Airline Code	1	O	/MediaList/Media/ObjectID/@Owner	Airline Code associated to the Media.
Media value	1	M	/MediaList/Media/MediaLink	Value of the media. Depends on the type of media.
Media type	1	M	/MediaList/Media/Descriptions/Description/MarkupStyle	Type of the media. Possible values are: <ul style="list-style-type: none"> • Picture ID • URL

```

<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

SeatListDesignation	Repetition	Status	Location	Comments
Seat Reference	1	M	/SeatList /Seats /@ListKey	The ListKey attribute is used to define the reference of the Seat. Format should be "1" (for seat) + "Engineering zone" + "Seat number" (with leadings "0"). Example: 1M029A.
Seat Occupation Status	1	M	/SeatList /Seats /@refs	The refs attribute is used to define the occupation status of the seat. The list of occupation status are defined under Metadata /Shopping /ShopMetadataGoup /Seats /SeatMapMetadatas.
Seat Column	1	M	/SeatList /Seats /Location /Column	Column of the seat. Example: H
Seat Row	1	M	/SeatList /Seats /Location /Row /Number	Row of the seat. Example: 005
Seat Characteristic Code	1..N	O	/SeatList /Seats /Location /Characteristics /Characteristic /Code	PADIS code.

```
<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>  
      <Characteristic>
```

```

        <Code>RS</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.

OfferDesignation	Repetition	Status	Location	Comments
Commercial details	1..N	O	/Metadata /Shopping /ShopMetadataGroup /Offer /OfferMetadatas /OfferMetadata	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.
Commercial code	1	M	/Metadata /Shopping /ShopMetadataGroup /Offer /OfferMetadatas /OfferMetadata /ATPCO /Attributes /Group /Code	Commercial code. Value hardcoded to "SA".
Commercial description	1	O	/Metadata /Shopping /ShopMetadataGroup /Offer /OfferMetadatas /OfferMetadata /ATPCO /Attributes /Group /Text	Commercial Description.

```

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

```

```

    </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.

Seat occupation status Designation	Repetition	Status	Location	Comments
Seat Occupation details	1..N	O	/Metadata /Shopping /ShopMetadataGroup /Seat /SeatMetadatas /SeatMetadata	Seat occupation status. The attribute MatadataKey is used to reference the Seat in the SeatList element .
Seat Occupation Status	1	M	/Metadata /Shopping /ShopMetadataGroup /Seat /SeatMetadatas /SeatMetadata /SeatStatus /Code	Seat Occupation status code. See possible list of codes below.

```

<Seat>
  <SeatMetadata MetadataKey="OSF_1">
    <SeatStatus ObjectKey="OSF">
      <nowiki><Code>F</Code></nowiki></nowiki>
    </SeatStatus>
  </SeatMetadata>
  <SeatMetadata MetadataKey="OSS_1">
    <SeatStatus ObjectKey="OSS">
      <Code>S</Code></nowiki>
    </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>
<SeatMetadata MetadataKey="OSR_1">
    <SeatStatus ObjectKey="OSR">
        <Code>R</Code>
    </SeatStatus>
</SeatMetadata>
<SeatMetadata MetadataKey="OSZ_1">
    <SeatStatus ObjectKey="OSZ">
        <Code>Z</Code>
    </SeatStatus>
</SeatMetadata>
<SeatMetadata MetadataKey="OSE_1">
    <SeatStatus ObjectKey="OSE">
        <Code>E</Code>
    </SeatStatus>
</SeatMetadata>
<SeatMetadata MetadataKey="OST_1">
    <SeatStatus ObjectKey="OST">
        <Code>T</Code>
    </SeatStatus>
</SeatMetadata>
<SeatMetadata MetadataKey="OSO_1">
    <SeatStatus ObjectKey="OSO">
        <Code>O</Code>
    </SeatStatus>
</SeatMetadata>
</SeatMetadatas>
</Seat>

```

Possible values are:

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

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.

OtherDesignation	Repetition	Status	Location	Comments
Service Indicator details	1..N	O	/Metadata /Other /OtherMetadata /DescriptionMetadatas /DescriptionMetadata	Details of service indicator.
Service Indicator Reference	1	M	/Metadata /Other /OtherMetadata /DescriptionMetadatas /DescriptionMetadata /@Metadatakey	<p>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:</p> <ul style="list-style-type: none"> • Refundable / Exchangeable indicator: prefix "REFUND_" • Commissionable indicator: prefix "COMMISSION_"
Indicator Value	1	M	/Metadata /Other /OtherMetadata /DescriptionMetadatas /DescriptionMetadata /Application	Possible values are R, Y or N. See description of the possible values in the table below.
Indicator Description	1	M	/Metadata /Shopping /ShopMetadataGroup /Offer /OfferMetadatas /OfferMetadata /ATPCO /Attributes /Group /Text	Description of the indicator.
Identifier of the Discount	1	O	/Metadata /Other /OtherMetadata /RuleMetadatas /RuleMetadata /@MetadataKey	Reference to the Discount.
Discount ID	1	M	/Metadata /Other /OtherMetadata	Identifier of the Discount.

			/RuleMetadatas /RuleMetadata /RuleID	
Discount Airline Code	1	O	/Metadata /Other /OtherMetadata /RuleMetadatas /RuleMetadata /Name	Airline Code associated to the Discount.
Discount Description	1	M	/Metadata /Other /OtherMetadata /RuleMetadatas /RuleMetadata /Values /Value /Instruction	Description of the Discount.

Possible values are:

Reference	Indicator Value	Indicator Description
REFUND_1	Y	Service is refundable
REFUND_2	R	Service not refundable but value of EMD can be applied on future purchase
REFUND_3	N	Service not refundable and not exchangeable
COMMISSION_1	Y	Service is Commissionable
COMMISSION_2	N	Service is not Commissionable

```

<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>

```

```

        </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.

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

FittedConfigAugPointDesignation	Repetition	Status	Location	Comments
Cabin details	1..N	M	/FittedConfigAugPoint /Cabin	Cabin Structure.
Cabin details	1..N	M	/FittedConfigAugPoint /Cabin/@TotalNumberOfSeats	Number of Seats for the given cabin.
Cabin Designator	1	M	/FittedConfigAugPoint /Cabin /CabinDesignator	Letter corresponding to the Cabin.

Example of Datalist

```

<DataLists>
  <FlightSegmentList>
    <FlightSegment SegmentKey="SEG1">
      <Departure>LHR</Departure>
      <Arrival>JFK</Arrival>
      <MarketingCarrier>6X</MarketingCarrier>
      <Equipment>
        <AircraftCode
ObjectMetaReferences="FITTEDCONFIG1">388</AircraftCode>
        </Equipment>
      </FlightSegment>
    </FlightSegmentList>
  </DataLists>

```

Example of Metadata

```

<Other>
  <OtherMetadata>
    <AircraftMetadatas>
      <AircraftMetadata MetadataKey="FITTEDCONFIG1">
        <AugmentationPoint>
          <AugPoint>
            <ns1:FittedConfigAugPoint>
              <ns1:Cabin TotalNumberOfSeats="72">
                <CabinDesignator>Y</CabinDesignator>
              </ns1:Cabin>
            <ns1:Cabin TotalNumberOfSeats="20">
              <CabinDesignator>C</CabinDesignator>
            </ns1:Cabin>
            </ns1:FittedConfigAugPoint>
          </AugPoint>
        </AugmentationPoint>
      </AircraftMetadata>
    </AircraftMetadatas>
  </OtherMetadata>
</Other>

```

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.

ErrorsDesignation	Repetition	Status	Location	Comments
IATA Error Code	1..N	O	/Errors /Error /@Code	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 "710" will be used.
Error Description	1..N	O	/Errors /Error	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 "-" as separator. Example: 352 - Link to inventory system is unavailable.

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:

ErrorsIATA Error Code	Error Message	Description
5	Invalid flight/Date	
14	Airline code and/or flight number invalid	
15	Flight cancelled	
26	No seat selection on this flight	
42	Booking/Ticketing class invalid	
85	Invalid reservations booking modifier	
94	Flight does not operate between requested cities	
96	Repeat request updating in progress	
99	Seat map not available for requested zone, seat may be requested	

102	Seat map not available, request seat at check-in	Error returned when the seatmap is demigrated to an external inventory.
102	Check date range	Error returned when the date requested is outside the allowed period.
102	Unable to process	Generic error returned in case the seatmap process could not be done.
102	Communications not available	Error returned when SI returns a CONTRL message.
236	Seat Request not available as flight operated by another carrier	Error returned in case of codeshare seatmap request when no cascading is code to the operating inventory.
300	Seat map not available for unticketed passengers	
710	352 - Link to inventory system is unavailable	Error message returned when the operating airline is not Altea Inventory. For the time being, SeatAvailability NDC verb is supported only for Altea Inventory airlines.
710	914 - Invalid format/data - data does not match syntax rules	Error message returned when the format of the message received is not compliant with the grammar of SeatAvailabilityRQ.
710	7139 - No matching PNRs found for this search request	Error message returned when the provided recloc is invalid. Note that an empty value will be by-passed.

4 Troubleshooting

5 Detailed Use Cases

5.1 Building A Query Examples

5.1.1 Example Standalone - neutral seatmap (without prices)

```
<SeatAvailabilityRQ Version="" xmlns="http://www.iata.org/IATA/EDIST"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.iata.org/IATA/EDIST SeatAvailabilityRQ.xsd">
  <Document>
    </Document>
    <Party>
      <Sender>
        <AgentUserSender>
          <AgentUserID>a</AgentUserID>
        </AgentUserSender>
      </Sender>
    </Party>
    <ShoppingResponseIDs>
```

```

        <ResponseID>a</ResponseID>
    </ShoppingResponseIDs>
    <DataList>
        <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>
                    <ResBookDesigCode>T</ResBookDesigCode>
                </MarketingCarrier>
            </FlightSegment>
        </FlightSegmentList>
    </DataList>
</SeatAvailabilityRQ>

```

5.1.2 Example Standalone - neutral seatmap with prices

Options:

- Prices
- Override of the currency (GBP)

```

<SeatAvailabilityRQ Version="2.000">
    <Document/>
    <Party>
        <Sender>
            <AgentUserSender>
                <AgentUserID>NCE6X0100</AgentUserID>
            </AgentUserSender>
        </Sender>
    </Party>
    <Parameters>
        <Pricing SimpleInd="true">
            <OverrideCurrency>GBP</OverrideCurrency>
        </Pricing>
    </Parameters>
    <ShoppingResponseIDs>
        <ResponseID>a</ResponseID>
    </ShoppingResponseIDs>
    <DataList>
        <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>
                    <ResBookDesigCode>T</ResBookDesigCode>
                </MarketingCarrier>
            </FlightSegment>
        </FlightSegmentList>
    </DataList>
</SeatAvailabilityRQ>

```

```

        </FlightSegment>
      </FlightSegmentList>
    </DataList>
  </SeatAvailabilityRQ>

```

5.1.3 Example Standalone - centric seatmap with prices

Options:

- Prices
- one passenger with one Frequent Flyer card

```

<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>
            <ID>1</ID>
          </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>
        <Arrival>

```



```

        <AirportCode>FRA</AirportCode>
    </Arrival>
    <MarketingCarrier>
        <AirlineID>6X</AirlineID>
        <FlightNumber>4555</FlightNumber>
        <ResBookDesigCode>T</ResBookDesigCode>
    </MarketingCarrier>
</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

```

<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>

```

```

        <RecognizedTraveler ObjectKey="PAX2">
            <PTC Quantity="1">INF</PTC>
            <PassengerAssociation>PAX1</PassengerAssociation>
            <Name>
                <Surname>SMITH</Surname>
                <Given>JUNIOR</Given>
            </Name>
        </RecognizedTraveler>
    </Traveler>
    <Traveler>
        <RecognizedTraveler ObjectKey="PAX3">
            <PTC Quantity="1">CHD</PTC>
            <Name>
                <Surname>SMITH</Surname>
                <Given>KELLY</Given>
            </Name>
        </RecognizedTraveler>
    </Traveler>
</Travelers>
<ShoppingResponseIDs>
    <ResponseID>a</ResponseID>
</ShoppingResponseIDs>
<DataList>
    <FlightSegmentList>
        <FlightSegment SegmentKey="SEG1">
            <Departure>
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            </Arrival>
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</Metadata>
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5.2 Building a Reply - Examples

5.2.1 Example Centric Seatmap without prices

Seatmap requested for:

- one passenger
- no prices requested

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</SeatAvailabilityRS>
```

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                    <Code>I</Code>
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                <Characteristic>
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        <Code>CH</Code>
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        <Code>O</Code>
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        <Code>1A</Code>
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      <Characteristic>
        <Code>CH</Code>
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      <Characteristic>
        <Code>O</Code>
      </Characteristic>
      <Characteristic>
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        <Code>O</Code>
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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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