

SeatAvailability 18.1 Implementation guide

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Interface Overview

Short Description

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

Current Scope

Following functionalities are currently in scope of SeatAvailability verb:

- Seatmap request from an Offer
- Seatmap request from an Order

Seatmap with price specificities:

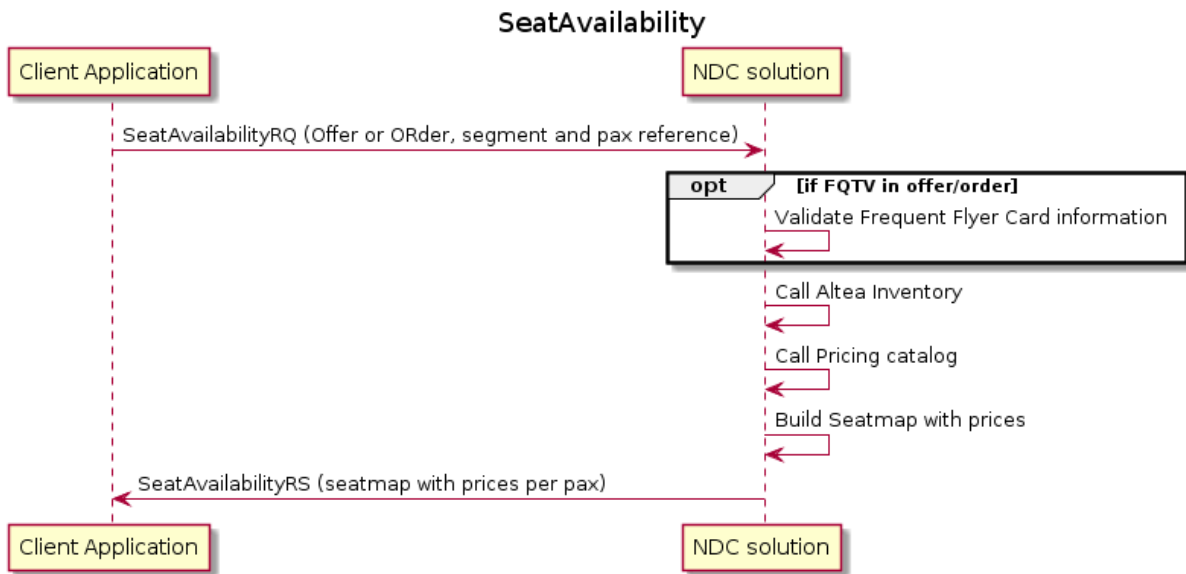
- Prices are supported only for Seatmap request with 9 passengers or less. In case of seatmap with price is requested for a larger group of passenger, the seatmap will be returned without the prices.

Out of Scope

The following functionalities are not supported via this function at this time:

- Request standalone seatmap

Sequence Diagram



Prerequisites

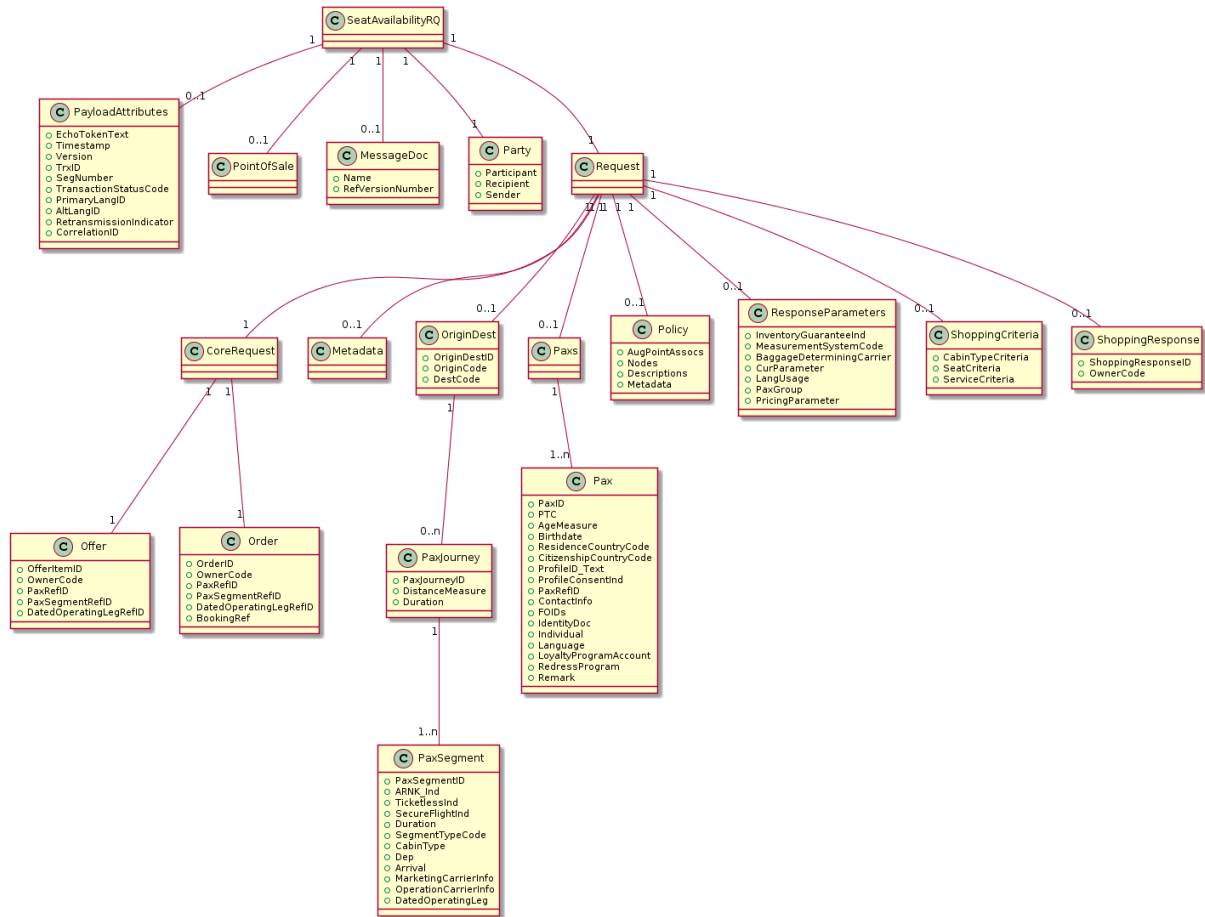
In order to use SeatAvailability 18.1 verb, the user needs to have at least one of the following:

- An Offer which is still valid
- An Order which can still be retrieved

Building A Query

Functional Description

Here is a class diagram describing the SeatAvailabilityRQ xml:



Implementation

This section describes the implementation of the input message SeatAvailabilityRQ.

Point of sale

This part is described in NDC configuration implementation guide.

Party

NDC Message/ Transaction Party(s) information. This part is described in NDC configuration implementation guide.

CoreRequest

This element is used to indicate the Offer or the Order for which the seatmap is requested.

Offer

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

Designation	Repetition	Status	Location	Comments
				returned for one segment.

multi-segment

Designation	Repetition	Status	Location	Comments
Offer Item ID	1	M	SeatAvailabilityRQ/Request/CoreRequest/Offer/OfferItemID	Reference to the air offer item for which seatmap is requested
Owner Code	1	M	SeatAvailabilityRQ/Request/CoreRequest/Offer/OwnerCode	Owner of the offer
Passenger reference	0..N	O	SeatAvailabilityRQ/Request/CoreRequest/Offer/PaxRefID	Passengers for which seatmap is requested . If empty, all passengers are taken into account to build the seatmap.
Flight reference	0..N	M	SeatAvailabilityRQ/Request/CoreRequest/Offer/PaxSegmentRefID	Segment for which the seatmap is requested . If not specified,

Designation	Repetition	Status	Location	Comments
				seatmap will be returned for all segments.

```

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

```

Order

Designation	Repetition	Status	Location	Comments
Order ID	1	M	SeatAvailabilityRQ/Request/CoreRequest/Order/OrderID	Reference to the order for which seatmap is requested
Owner Code	1	M	SeatAvailabilityRQ/Request/CoreRequest/Order/OwnerCode	Owner of the order
Passenger reference	0..N	O	SeatAvailabilityRQ/Request/CoreRequest/Order/PaxRefID	Passengers for which

Designation	Repetition	Status	Location	Comments
				seatmap is requested. If empty, all passengers are taken into account to build the seatmap.
Flight reference	1	M	SeatAvailabilityRQ/Request/CoreRequest/Order/PaxSegmentRefID	Segment for which the seatmap is requested. Mandatory as Seatmap can only be returned for one segment.
BookingID	1	O	SeatAvailabilityRQ/Request/CoreRequest/Order/BookingRef/BookingID	Associated record locator
AirlineDesignCode	1	O	SeatAvailabilityRQ/Request/CoreRequest/Order/BookingRef/BookingEntity/Carrier/AirlineDesignCode	Record locator's

Designation	Repetition	Status	Location	Comments
				associated airline

multi-segment

Designation	Repetition	Status	Location	Comments
Order ID	1	M	SeatAvailabilityRQ/Request/CoreRequest/Order/OrderID	Reference to the order for which seatmap is requested
Owner Code	1	M	SeatAvailabilityRQ/Request/CoreRequest/Order/OwnerCode	Owner of the order
Passenger reference	0..N	O	SeatAvailabilityRQ/Request/CoreRequest/Order/PaxRefID	Passengers for which seatmap is requested. If empty, all passengers are taken into account to build the seatmap.

Designation	Repetition	Status	Location	Comments
Flight reference	0..N	O	SeatAvailabilityRQ/Request/CoreRequest/Order/PaxSegmentRefID	Segment for which the seatmap is requested. If not specified, seatmap will be returned for all segments.
BookingID	1	O	SeatAvailabilityRQ/Request/CoreRequest/Order/BookingRef/BookingID	Associated record locator
AirlineDesignCode	1	O	SeatAvailabilityRQ/Request/CoreRequest/Order/BookingRef/BookingEntity/Carrier/AirlineDesignCode	Record locator's associated airline

```

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

```

Paxs

Designation	Repetition	Status	Location	Comments
Passenger	1..N	M	SeatAvailabilityRQ/Request/Paxs/Pax	
Passenger Type	1	O	SeatAvailabilityRQ/Request/Paxs/Pax/PTC	Describes the type of the passenger. Possible values are: ADT, CHD. When not present, ADT is considered by default.
Passenger Surname	1	O	SeatAvailabilityRQ/Request/Paxs/Pax/Individual/Surname	Passenger's family name. Mandatory when Individual structure is used.
Passenger First Name	1	O	SeatAvailabilityRQ/Request/Paxs/Pax/Individual/GivenName	Passenger's first name(s)
Passenger Name Title	1	O	SeatAvailabilityRQ/Request/Paxs/Pax/Individual/TitleName	Name Title. Examples: MR, MRS, DR
Passenger Birth Date	1	O	SeatAvailabilityRQ/Request/Paxs/Pax/Individual/Birthdate	Passenger birth date. Example: YYYY-MM-DD. Note that there is no check on the

Designation	Repetition	Status	Location	Comments
				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.
Card Information - ignored, only information from the offer or order is considered				
Frequent Flyer Airline Code	1	0	SeatAvailabilityRQ/Request/Paxs/Pax/LoyaltyProgramAccount/Carrier/AirlineDesigCode	The 2-letters code of the Airline sponsoring the program. Example: 6X, 7S Note: ignored, only information from the offer or order is considered
Frequent Flyer Card Number	1	0	SeatAvailabilityRQ/Request/Paxs/Pax/LoyaltyProgramAccount/AccountNumber	The number identifying the Frequent

Designation	Repetition	Status	Location	Comments
				<p>FlyerConditional CLID</p> <p>, Corporate IDConditional CEM ID</p> <p>, or CEM ID</p> <p>Example: 1446597945. Note that the frequent flyer number Conditional CLID and Corporate ID will be validated during the seatmap process.</p> <p>Note : ignored, only information from the offer or order is considered</p>
Requested Services				
To be clarified Service reference	0..N	O	SeatAvailabilityRQ/Request/Paxs/Pax/Remark/RemarkText	Reference to the service to be taken

Designation	Repetition	Status	Location	Comments
				into account. Accepted values: "Bassinet".

- Frequent flyer card:
 - When requesting a SeatAvailabilityRQ, Frequent Flyer cards and CLID is taken from the Order or Offer to benefit from any exemption or discount. If a Frequent Flyer number or CLID is set in input of SeatAvailabilityRQr, this input is ignored.
- Customer Special Service Request (SSR) and customer keyword elements (SK)

```

<Paxs>
  <Pax>
    <PaxID>PAX1</PaxID>
    <PTC>ADT</PTC>
    <Individual>
      <Surname>SMITH</Surname>
      <GivenName>JOHN</GivenName>
      <TitleName>MR</TitleName>
    </Individual>
  </Pax>
</Paxs>

```

ResponseParameters

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

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

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

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

Conditional Miles

- Activate the Miles Option so that the catalog is sending the price in Miles. With this option, the seatmap reply contains pricing information in Miles in addition to the pricing information.

Pricing parameters

Designation	Repetition	Status	Location	Comments
Pricing Flag	1	0	SeatAvailabilityRQ/Request/ResponseParameters/PricingParameter/SimplePricingInd	The SimpleInd indicator attribute is used to indicate if a seatmap with price is requested. If SimplePricingInd=true, a seatmap with price is triggered. By default it is set to True
Override of the POS currency	1	0	SeatAvailabilityRQ/Request/ResponseParameters/PricingParameter/OverrideCurCode	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.

```

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

```

[Shopping Criteria](#)

[Pack with seats](#)

Designation	Repetition	Status	Location	Comments
Seatmap option	1..N	0	Request /ShoppingCriteria /ServiceCriteria /PrefLevel /PrefContextText	<ul style="list-style-type: none"> If value is equal to "PACK", the association of each seat to an existing pack of services is retrieved from services catalog and sent back in SeatAvailabilityRS. <p>Free services - Under dev</p> <ul style="list-style-type: none"> If an OfferItem referring to a service is send in this field, the seatmap will be biased based on this service.

```

<Request>
  <ShoppingCriteria >
    <ServiceCriteria >
      <PrefLevel>
        <PrefContextText>PACK</PrefContextText>
      </PrefLevel>
    </ServiceCriteria >
  </ShoppingCriteria >
</Request>

```

No pack with seats Free services - Under dev

Designation	Repetition	Status	Location	Comments
Seatmap option	1..N	0	Request /ShoppingCriteria /ServiceCriteria /PrefLevel /PrefContextText	<ul style="list-style-type: none"> If an OfferItem referring to a service is send in this field, the seatmap will be biased based on this service.

```

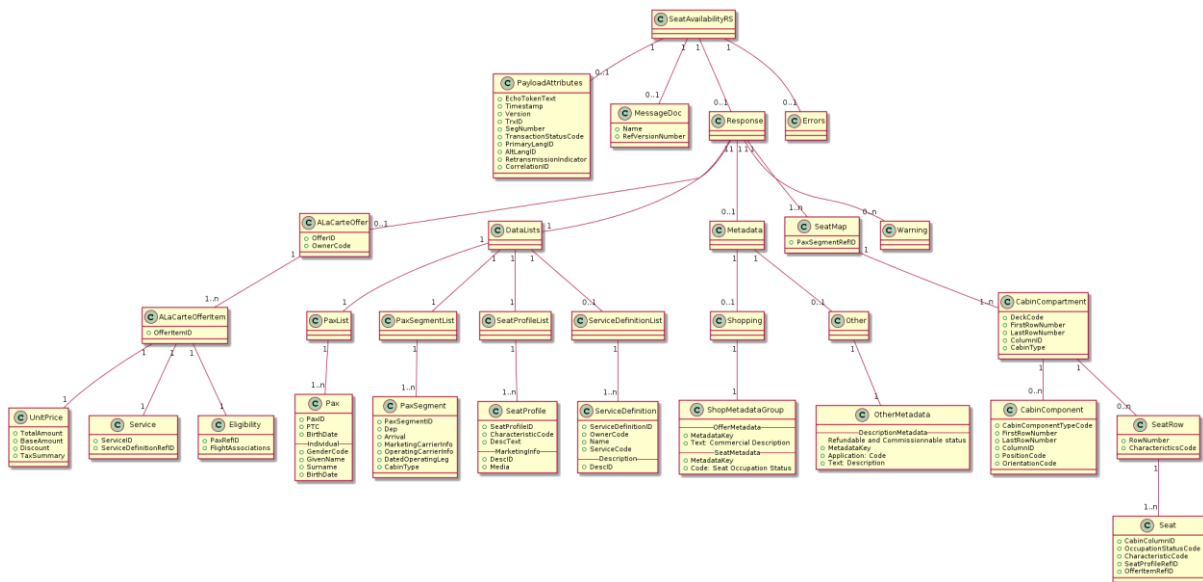
<Request>
  <ShoppingCriteria >
    <ServiceCriteria >
      <PrefLevel>
        <PrefContextText>OfferItem1</PrefContextText>
      </PrefLevel>
    </ServiceCriteria >
  </ShoppingCriteria >
</Request>

```

Receiving A Reply

Functional Description

Here is a class diagram describing the SeatAvailabilityRS xml:



Implementation

This section describes the implementation of the output message SeatAvailabilityRS.

Version

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

```

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

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.

Designation	Repetition	Status	Location	Comments
IATA Warning Code	1..N	O	/Response /Warning /Code	Field Code is used to convey the IATA code of the warning. IATA Code set 9845 is used. In case a non IATA Warning is returned, code "710" will be used.
Warning Description	1..N	O	/Response /Warning /DescText	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.
LanguageCode	1	O	Response/Warning/LanguageCode	Language code associated with the warning response.
TagText	1	O	Response/Warning/TagText	Identifies the tag/XPath which relates to the provided Warning.
TypeCode	1	O	Response/Warning/TypeCode	Uses a bilaterally agreed set of values to indicate the warning type.

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.

```

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

```

Table 1 Example of a non IATA warning

ALaCarteOffer

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

Designation	Repetition	Status	Location	Comments
ALaCarteOffer	1	O	/Response /ALaCarteOffer	ALaCarteOffer is created only if some seats are chargeable. It is not returned for a simple SeatMap display without prices.
OfferID	1	M	/Response /ALaCarteOffer /OfferID	ID used to identify the different prices.
Owner Code	1	O	/Response /ALaCarteOffer /OwnerCode	Owner of the offers

Each price can be found under the structure ALaCarteOfferItem, described below.

ALaCarteOfferItem

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

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.

Designation	Repetition	Status	Location	Comments
Offer Item ID	1	M	/ALaCarteOffer /ALaCarteOfferItem /OfferItemID	Unique ID of the offer. Following Prefix is used: "PRICE". An incremental number is then append after the prefix. Then segment reference is added with following structure: "-SEGN".

Designation	Repetition	Status	Location	Comments
				Overall structure would be "PRICEm-SEGN".
Price details	1	M	/ALaCarteOfferItem /UnitPrice	Price information for a Price element.
Best Discount RuleID	1	O	/ALaCarteOfferItem /UnitPrice /Discount /DescText	Reference to the best Discount RuleID
Reference of Discount	1	O	/ALaCarteOfferItem /UnitPrice /Discount /DiscountContext /KeyWordText	Discount RuleID
Reason for Discount	1	O	/ALaCarteOfferItem /UnitPrice /Discount /DiscountContext /ValueText	Reason for Discount. "UNKNOWN" if no Reason for Discount is provided
Total amount	1	M	/ALaCarteOfferItem /UnitPrice /TotalAmount	Total amount for the seat reservation.
Total amount currency	1	M	/ALaCarteOfferItem /UnitPrice /TotalAmount /@CurCode	Attribute Code (3 letters) is used to convey the currency code. Example: Code="USD".
Old Price	1	O	/ALaCarteOfferItem /UnitPrice /Discount /PreDiscountedAmount	Field used to provide the Old Price
Base amount	1	M	/ALaCarteOfferItem /UnitPrice /BaseAmount	Base amount for the seat reservation.
Base amount currency	1	M	/ALaCarteOfferItem /UnitPrice /BaseAmount /@CurCode	Attribute Code (3 letters) is used to convey the currency code. Example: Code="USD".
Taxes total amount	1	M	/ALaCarteOfferItem /UnitPrice /TaxSummary /TotalTaxAmount	Taxes total amount for the seat reservation.
Taxes total amount currency	1	M	/ALaCarteOfferItem /UnitPrice /TaxSummary /TotalTaxAmount /@CurCode	Attribute Code (3 letters) is used to convey the currency code. Example: Code="USD".

Designation	Repetition	Status	Location	Comments
Service	1	M	/ALaCarteOfferItem /Service	Service associated to the offer.
Service ID	1	M	/ALaCarteOfferItem /Service /ServiceID	Service ID.
Service reference	1	M	/ALaCarteOfferItem /Service /ServiceDefinitionRefID	Reference of the service.
Eligibility details	1..N	M	/ALaCarteOfferItem /Eligibility	Notes: <ul style="list-style-type: none"> • A passenger association is mandatory. • A segment association is mandatory
Eligible Traveler	1..N	O	/ALaCarteOfferItem /Eligibility /PaxRefID	Passenger reference as defined in Pax. Example: PAX1.
Association Segment	1..N	M	/ALaCarteOfferItem /Eligibility /FlightAssociation /PaxSegmentRefID	Segment reference as defined in PaxSegmentList

Pack with seat

Designation	Repetition	Status	Location	Comments
Offer Item ID	1	M	/ALaCarteOffer /ALaCarteOfferItem /OfferItemID	Unique ID of the offer. Following Prefix is used: "PACK". An incremental number is then append after the prefix. Then segment reference is added with following structure: "-SEGN". Overall structure would be "PACKm-SEGN".
Price details	1	M	/ALaCarteOfferItem /UnitPrice	Price information for a Price element.
Total amount	1	M	/ALaCarteOfferItem /UnitPrice /TotalAmount	Total amount for the seat reservation. It will always be 0 for packs, as the price is included in the pack.
Service	1	M	/ALaCarteOfferItem /Service	Service associated to the offer.

Designation	Repetition	Status	Location	Comments
Service ID	1	M	/ALaCarteOfferItem /Service /ServiceID	Service ID.
Service reference	1	M	/ALaCarteOfferItem /Service /ServiceDefinitionRefID	Reference of the service.
Eligibility details	1..N	M	/ALaCarteOfferItem /Eligibility	Notes: <ul style="list-style-type: none"> • A passenger association is mandatory. • A segment association is mandatory
Eligible Traveler	1..N	O	/ALaCarteOfferItem /Eligibility /PaxRefID	Passenger reference as defined in Pax. Example: PAX1.
Association Segment	1..N	M	/ALaCarteOfferItem /Eligibility /FlightAssociation /PaxSegmentRefID	Segment reference as defined in PaxSegmentList

Price element

Example of price element with following specificities:

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


```

<ALaCarteOffer>
  <OfferID>Offer1</OfferID>
  <OwnerCode>6X</OwnerCode>
  <ALaCarteOfferItem>
    <OfferItemID>PRICE1-SEG15</OfferItemID>
    <UnitPrice>
      <TotalAmount CurCode="SGD">0.00</TotalAmount>
      <BaseAmount CurCode="SGD">0.00</BaseAmount>
      <TaxSummary>
        <TotalTaxAmount CurCode="SGD">0.00</TotalTaxAmount>
      </TaxSummary>
      <Discount>
        <DescText>87654321</DescText>
        <DiscountContext>
          <KeywordText>87654321</KeywordText>
          <ValueText>REASON_FOR_DISCOUNT</ValueText>
        </DiscountContext>
      </Discount>
    </UnitPrice>
    <Service>
      <ServiceID>SRV1</ServiceID>
      <ServiceDefinitionRefID>SD1-SEG15</ServiceDefinitionRefID>
    </Service>
    <Eligibility>
      <PaxRefID>PAX1</PaxRefID>
      <FlightAssociations>
        <PaxSegmentRefID>SEG15</PaxSegmentRefID>
      </FlightAssociations>
    </Eligibility>
  </ALaCarteOfferItem>
  <ALaCarteOfferItem>
    <OfferItemID>PRICE2-SEG15</OfferItemID>
    <UnitPrice>
      <TotalAmount CurCode="SGD">18.00</TotalAmount>
      <BaseAmount CurCode="SGD">18.00</BaseAmount>
      <TaxSummary>
        <TotalTaxAmount CurCode="SGD">0.00</TotalTaxAmount>
      </TaxSummary>
    </UnitPrice>
    <Service>
      <ServiceID>SRV2</ServiceID>
      <ServiceDefinitionRefID>SSR1-SEG15</ServiceDefinitionRefID>
    </Service>
    <Eligibility>
      <PaxRefID>PAX1</PaxRefID>
    </Eligibility>
  </ALaCarteOfferItem>
</ALaCarteOffer>

```

```

    <FlightAssociations>
      <PaxSegmentRefID>SEG15</PaxSegmentRefID>
    </FlightAssociations>
  </Eligibility>
</ALaCarteOfferItem>
</ALaCarteOffer>

```

DataLists

Pax List

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

PaxList

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

```

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

```

Pax Segment List

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

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

This element is also used to provide:

- the cabin code corresponding to the requested booking class,
- the equipment code of the aircraft
- the ACV (Aircraft Configuration version) associated to the seatmap

Designation	Repetition	Status	Location	Comments
Pax Segment	1	M	/PaxSegmentList/ PaxSegment	The seatmap could be requested only for one segment.
Cabin code	1	O	/PaxSegmentList/ PaxSegment /CabinType /CabinTypeCode	Cabin class code for which the seatmap is requested.

Designation	Repetition	Status	Location	Comments
Departure Airport Code	1	M	/PaxSegmentList/ PaxSegment /Dep /IATA_LocationCode	3 letters airport code of the departure airport.
Departure Date	1	M	/PaxSegmentList/ PaxSegment /Dep /AircraftScheduledDateTime	Departure date. Format: YYYY-MM-DDTHH:MM:SS
Arrival Airport Code	1	M	/PaxSegmentList/ PaxSegment /Arrival /IATA_LocationCode	3 letters airport code of the arrival airport.
Marketing Carrier Code	1	M	/PaxSegmentList/ PaxSegment /MarketingCarrierInfo /CarrierDesigCode	Airline code of the marketing carrier.
Marketing Carrier Flight number	1	M	/PaxSegmentList/ PaxSegment /MarketingCarrierInfo /MarketingCarrierFlightNumberText	Flight number.
Marketing Booking class code	1	M	/PaxSegmentList/ PaxSegment /MarketingCarrierInfo /RBD_Code	Booking class code for which the seatmap is requested.
Operating Carrier Code	1	O	/PaxSegmentList/ PaxSegment /OperatingCarrierInfo /CarrierDesigCode	Airline code of the Operating carrier.
Operating Carrier Flight number	1	O	/PaxSegmentList/ PaxSegment /OperatingCarrierInfo /OperatingCarrierFlightNumberText	Flight number of the Operating carrier.
Departure Code	1	O	/PaxSegmentList/ PaxSegment /DatedOperatingLeg /Dep /IATA_LocationCode	3 letters airport code of the departure airport.
Arrival Code	1	O	/PaxSegmentList/ PaxSegment /DatedOperatingLeg /Arrival/IATA_LocationCode	3 letters airport code of the arrival airport.
Equipment Code	1	O	/PaxSegmentList/ PaxSegment /DatedOperatingLeg /IATA_AircraftType /IATA_AircraftTypeCode	Equipment code of the aircraft. Example: 320.

```

<PaxSegmentList>
  <PaxSegment>
    <PaxSegmentID>SEG15</PaxSegmentID>
    <Dep>
      <IATA_LocationCode>SIN</IATA_LocationCode>
      <AircraftScheduledDateTime>2019-05-
15T09:10:00.000</AircraftScheduledDateTime>
    </Dep>
    <Arrival>
      <IATA_LocationCode>SYD</IATA_LocationCode>
    </Arrival>
    <MarketingCarrierInfo>
      <CarrierDesigCode>6X</CarrierDesigCode>

<MarketingCarrierFlightNumberText>221</MarketingCarrierFlightNumberText>
  <RBD_Code>W</RBD_Code>
</MarketingCarrierInfo>
<OperatingCarrierInfo>
  <CarrierDesigCode>6X</CarrierDesigCode>
</OperatingCarrierInfo>
<DatedOperatingLeg>
  <DatedOperatingLegID>LEG1</DatedOperatingLegID>
  <Dep>
    <IATA_LocationCode>SIN</IATA_LocationCode>
  </Dep>
  <Arrival>
    <IATA_LocationCode>SYD</IATA_LocationCode>
  </Arrival>
  <IATA_AircraftType>
    <IATA_AircraftTypeCode>388</IATA_AircraftTypeCode>
  </IATA_AircraftType>
  <CarrierAircraftType>
    <CarrierAircraftTypeCode>383</CarrierAircraftTypeCode>
  </CarrierAircraftType>
  </DatedOperatingLeg>
  <CabinType>
    <CabinTypeCode>W</CabinTypeCode>
    <CabinTypeName>Y</CabinTypeName>
  </CabinType>
</PaxSegment>
</PaxSegmentList>

```

SeatProfileList

[Seat profile linked to a ServiceDefinition](#)

Designation	Repetition	Status	Location	Comments
SeatProfile element	1..N	O	/DataLists /SeatProfileList /SeatProfile	
SeatProfile ID	1	M	/DataLists /SeatProfileList /SeatProfile /SeatProfileID	Unique ID of the SeatProfile. <ul style="list-style-type: none"> Prefix "SP" if the seat profile is a seat element

Designation	Repetition	Status	Location	Comments
				A incremental number is then append after the prefix.

```

<SeatProfileList>
  <SeatProfile>
    <SeatProfileID>SP1-SEG15</SeatProfileID>
  </SeatProfile>
</SeatProfileList>

```

Conditional AAM

Media elements per passengers

The information provided in a media element is:

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

Designation	Repetition	Status	Location	Comments
SeatProfile element	1..N	O	/DataLists /SeatProfileList /SeatProfile	
SeatProfile ID	1	M	/DataLists /SeatProfileList /SeatProfile /SeatProfileID	Unique ID of the SeatProfile. <ul style="list-style-type: none"> • Prefix "MEDIA" if the seat profile is a Media element A incremental number is then append after the prefix.
Marketing Information	1	O	/SeatProfile /MarketingInformation	List of Medias applying for this seat profile. Element used only if the seat profile is a Media element.

Designation	Repetition	Status	Location	Comments
MediaID	1	O	/SeatProfile /MarketingInformation /Media /MediaID	ID of the media
Type of media	1	O	/SeatProfile /MarketingInformation /Media /DescText	Type of media. e.g. PICTUREID
URL	1	O	/SeatProfile /MarketingInformation /Media /URL	URL of the Media

[Media element](#)

```

<SeatProfileList>
  <SeatProfile>
    <SeatProfileID>MEDIA1-SEG15</SeatProfileID>
    <MarketingInformation>
      <DescID>DESC1</DescID>
      <Media>
        <MediaID>MED1</MediaID>
        <DescText>PICTUREID</DescText>
        <URL>00042839</URL>
      </Media>
    </MarketingInformation>
  </SeatProfile>
</SeatProfileList>

```

ServiceDefinitionList

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

Designation	Repetition	Status	Location	Comments
Service element	1..N	O	/ServiceDefinitionListList/ServiceDefinition	
Service ID	1	M	/ServiceDefinitionList /ServiceDefinition /ServiceDefinitionID	Unique ID of the service.
Owner Code	1	M	/ServiceDefinitionList /ServiceDefinition /OwnerCode	Owner Code.

Designation	Repetition	Status	Location	Comments
Service Name	1	M	/ServiceDefinitionList /ServiceDefinition /Name	Seat Commercial Name
ATPCO group	1	O	/ServiceDefinitionList /ServiceDefinition /Description /DescText	ATPCO Group value (when MarkupStyleText = Group)
Pricing Indicator	0..N	O	/ServiceDefinitionList /ServiceDefinition /Description /DescText	<p>Two elements DescText 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>
Seat Profile reference	1	M	/ServiceDefinitionList /ServiceDefinition /ServiceDefinitionAssociation /SeatProfileRefID	Reference to a Seat Profile
Booking of specific SSR	0..N	O	/ServiceDefinitionList /ServiceDefinition /BookingInstructions /SSRCode	SSR Code that needs to be booked along with the seat


```

<ServiceDefinitionList>
  <ServiceDefinition>
    <ServiceDefinitionID>SD1-SEG15</ServiceDefinitionID>
    <OwnerCode>6X</OwnerCode>
    <Name>PREMIUM SEAT</Name>
    <Description>
      <DescID>1</DescID>
      <DescText>SA</DescText>
      <MarkupStyleText>Group</MarkupStyleText>
    </Description>
    <Description>
      <DescID>2</DescID>
      <DescText>REFUND_3-SEG15</DescText>
    </Description>
    <Description>
      <DescID>3</DescID>
      <DescText>COMMISSION_2-SEG15</DescText>
    </Description>
    <ServiceDefinitionAssociation>
      <SeatProfileRefID>SP1-SEG15</SeatProfileRefID>
    </ServiceDefinitionAssociation>
    <BookingInstructions>
      <SSRCode>B SCT</SSRCode>
    </BookingInstructions>
  </ServiceDefinition>
</ServiceDefinitionList>

```

Pack with seat

For a pack with seat, the ServiceDefinition portion is as follow:

Pack with Seat

Designation	Repetition	Status	Location	Comments
Service element	1..N	O	/ServiceDefinitionListList/ServiceDefinition	
Service ID	1	M	/ServiceDefinitionList /ServiceDefinition /ServiceDefinitionID	Unique ID of the service.
Owner Code	1	M	/ServiceDefinitionList /ServiceDefinition /OwnerCode	Owner Code.
Service Name	1	M	/ServiceDefinitionList /ServiceDefinition /Name	Name of the pack
Seat Profile reference	1	M	/ServiceDefinitionList /ServiceDefinition /ServiceDefinitionAssociation /SeatProfileRefID	Reference to a Seat Profile
Booking of specific SSR	0..N	O	/ServiceDefinitionList /ServiceDefinition /BookingInstructions /SSRCode	SSR Code that needs to be booked along with the seat

```

<ServiceDefinitionList>
  <ServiceDefinition>
    <ServiceDefinitionID>SD1-SEG15</ServiceDefinitionID>
    <OwnerCode>6X</OwnerCode>
    <Name>PREMIUM SEAT</Name>
    <Description>
      <DescID>1</DescID>
      <DescText>SA</DescText>
      <MarkupStyleText>Group</MarkupStyleText>
    </Description>
    <Description>
      <DescID>2</DescID>
      <DescText>REFUND_3-SEG15</DescText>
    </Description>
    <Description>
      <DescID>3</DescID>
      <DescText>COMMISSION_2-SEG15</DescText>
    </Description>
    <ServiceDefinitionAssociation>
      <SeatProfileRefID>SP1-SEG15</SeatProfileRefID>
    </ServiceDefinitionAssociation>
    <BookingInstructions>
      <SSRCode>BSCT</SSRCode>
    </BookingInstructions>
  </ServiceDefinition>
</ServiceDefinitionList>

```

SeatMap

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

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

A SeatMap element gathers configuration details about one compartment.

The seatmapreply 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 contains several SeatMap elements (all having at least one seat belonging to the targeted cabin).

For each SeatMap element following information are provided:

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

Designation	Repetition	Status	Location	Comments
Flight Reference	1	M	/SeatMap /PaxSegmentRefID	Reference to the flight segment defined under DataList element.
Cabin Compartment	1..N	M	/SeatMap /CabinCompartment	Gathers configuration details of a compartment.
Engineering zone Code	1	M	/SeatMap /CabinCompartment /DeckCode	Deck code. "L" for Lower, "M" for Middle Deck, "U" for Upper Deck, as per PADIS.
Configuration of the Compartment				
Configuration Columns	1..N	O	/SeatMap /CabinCompartment /ColumnID	List all the columns of the Compartment. The format is a letter code.
Configuration Range first row	1	O	/SeatMap /CabinCompartment /FirstRowNumber	Range of the Compartment: first row.
Configuration Range Last row	1	O	/SeatMap /CabinCompartment /LastRowNumber	Range of the Compartment: last row.
List of facilities				
Component details	1..N	O	/SeatMap /CabinCompartment /CabinComponent/	Element containing the details of one facility.
Row Reference	1	M	/SeatMap /CabinCompartment /CabinComponent /FirstRowNumber	Row number used as reference.

Designation	Repetition	Status	Location	Comments
Row Reference (2)	1	M	/SeatMap /CabinCompartment /CabinComponent /LastRowNumber	Row number used as reference. Last row number is same as first row number.
Column Reference	1	M	/SeatMap /CabinCompartment /CabinComponent /ColumnID	Column number used as reference.
Row Relative Position	1	M	/SeatMap /CabinCompartment /CabinComponent /PositionCode	This field is used to give the relative orientation of the facility from the row. Possible value is front ("FRO-d"), rear ("REA-d") or aligned ("INL"), where d is the distance from the row.
Column Relative Orientation	1	M	/SeatMap /CabinCompartment /CabinComponent /OrientationCode	This field is used to give the relative orientation of the facility from the column. Possible value is right ("RIG-d"), left ("LEF-d") or aligned ("INL"), where d is the distance from the column.
Facility type	1	O	/SeatMap /CabinCompartment /CabinComponent /CabinComponentTypeCode	Type of facility, based on "PADIS codeset 9825 - Seat characteristic, coded". "LA" for lavatory.
Cabin Code				
Cabin code	1	M	/SeatMap /CabinCompartment /CabinType /CabinTypeCode	Cabin code. Example: "J".
List of Seats				
Row Number	1..N	O	/SeatMap /CabinCompartment /SeatRow /RowNumber	Number of the row
Seat Row Characteristics	1..3	O	/SeatMap /CabinCompartment /SeatRow /CharacteristicCode	Characteristic of the row. Value can be "K" (Over wing) or "E" (Exit). In case the Exit is located in front or in the rear, another Characteristic code is added with "FRO" or "REA".

Designation	Repetition	Status	Location	Comments
Seat reference	1..N	O	/SeatMap /CabinCompartment /SeatRow /Seat	List of seats belonging to the engineering zone, with its characteristics, and references to SeatProfile and OfferItemID.
Column ID	1	M	/SeatMap /CabinCompartment /SeatRow /Seat /CabinColumnID	Identifier of the column (e.g. A, B, C, etc.).
Occupation code	1	O	/SeatMap /CabinCompartment /SeatRow /Seat /OccupationStatusCode	Occupation status. Values based on PADIS 9865.
Seat Characteristics	1..N	O	/SeatMap /CabinCompartment /SeatRow /Seat /CharacteristicCode	Characteristic of the seat. Values based on PADIS.
Seat Profile Reference	0..N	O	/SeatMap /CabinCompartment /SeatRow /Seat /SeatProfileRefID	Reference to a seat Profile.
Offer Item References	0..1	O	/SeatMap /CabinCompartment /SeatRow /Seat /OfferItemRefID	Reference to Offer Items. In case several Offer Items must be mentioned, they are separated with a comma ','.

/!\ Characteristic Code 1 means "Restricted". In such case the seat cannot be booked.

Facilities

Here is an example of the way facilities are conveyed:

```

<CabinComponent>
  <FirstRowNumber>41</FirstRowNumber>
  <LastRowNumber>41</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>D</ColumnID>
  <CabinComponentTypeCode>GN</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>41</FirstRowNumber>
  <LastRowNumber>41</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>E</ColumnID>
  <CabinComponentTypeCode>GN</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>41</FirstRowNumber>
  <LastRowNumber>41</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>F</ColumnID>
  <CabinComponentTypeCode>GN</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>41</FirstRowNumber>
  <LastRowNumber>41</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>G</ColumnID>
  <CabinComponentTypeCode>GN</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>42</FirstRowNumber>
  <LastRowNumber>42</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>D</ColumnID>
  <CabinComponentTypeCode>GN</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>42</FirstRowNumber>
  <LastRowNumber>42</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>E</ColumnID>
  <CabinComponentTypeCode>GN</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>58</FirstRowNumber>
  <LastRowNumber>58</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>A</ColumnID>
  <CabinComponentTypeCode>LA</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>58</FirstRowNumber>
  <LastRowNumber>58</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>D</ColumnID>
  <CabinComponentTypeCode>LA</CabinComponentTypeCode>
</CabinComponent>
<CabinComponent>
  <FirstRowNumber>58</FirstRowNumber>
  <LastRowNumber>58</LastRowNumber>
  <OrientationCode>INL</OrientationCode>
  <ColumnID>G</ColumnID>
  <CabinComponentTypeCode>LA</CabinComponentTypeCode>

```

```
</CabinComponent>
```

Example of seatmap with two compartments

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

```

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

```



```

    <CabinComponentTypeCode>LA</CabinComponentTypeCode>
    <FirstRowNumber>58</FirstRowNumber>
    <LastRowNumber>58</LastRowNumber>
    <ColumnID>A</ColumnID>
    <OrientationCode>INL</OrientationCode>
  </CabinComponent>
  <CabinComponent>
    <CabinComponentTypeCode>LA</CabinComponentTypeCode>
    <FirstRowNumber>58</FirstRowNumber>
    <LastRowNumber>58</LastRowNumber>
    <ColumnID>D</ColumnID>
    <OrientationCode>INL</OrientationCode>
  </CabinComponent>
  <CabinComponent>
    <CabinComponentTypeCode>LA</CabinComponentTypeCode>
    <FirstRowNumber>58</FirstRowNumber>
    <LastRowNumber>58</LastRowNumber>
    <ColumnID>G</ColumnID>
    <OrientationCode>INL</OrientationCode>
  </CabinComponent>
  <SeatRow>
    <RowNumber>41</RowNumber>
    <CharacteristicsCode>E</CharacteristicsCode>
    <CharacteristicsCode>FRO</CharacteristicsCode>
    <Seat>
      <CabinColumnID>B</CabinColumnID>
      <OccupationStatusCode>F</OccupationStatusCode>
      <CharacteristicCode>9</CharacteristicCode>
      <CharacteristicCode>CH</CharacteristicCode>
      <CharacteristicCode>E</CharacteristicCode>
      <CharacteristicCode>L</CharacteristicCode>
      <SeatProfileRefID>MEDIA1-SEG15</SeatProfileRefID>
      <SeatProfileRefID>SP1-SEG15</SeatProfileRefID>
    </Seat>
    <Seat>
      <CabinColumnID>C</CabinColumnID>
      <OccupationStatusCode>F</OccupationStatusCode>
      <CharacteristicCode>A</CharacteristicCode>
      <CharacteristicCode>CH</CharacteristicCode>
      <CharacteristicCode>E</CharacteristicCode>
      <CharacteristicCode>I</CharacteristicCode>
      <CharacteristicCode>L</CharacteristicCode>
      <SeatProfileRefID>MEDIA1-SEG15</SeatProfileRefID>
      <SeatProfileRefID>SP1-SEG15</SeatProfileRefID>
    </Seat>
    <Seat>
      <CabinColumnID>H</CabinColumnID>
      <OccupationStatusCode>F</OccupationStatusCode>
      <CharacteristicCode>A</CharacteristicCode>
      <CharacteristicCode>CH</CharacteristicCode>
      <CharacteristicCode>E</CharacteristicCode>
      <CharacteristicCode>I</CharacteristicCode>
      <CharacteristicCode>L</CharacteristicCode>
      <SeatProfileRefID>MEDIA1-SEG15</SeatProfileRefID>
      <SeatProfileRefID>SP1-SEG15</SeatProfileRefID>
    </Seat>
    <Seat>
      <CabinColumnID>J</CabinColumnID>
      <OccupationStatusCode>F</OccupationStatusCode>
      <CharacteristicCode>9</CharacteristicCode>
      <CharacteristicCode>CH</CharacteristicCode>
      <CharacteristicCode>E</CharacteristicCode>

```

```

        <CharacteristicCode>I</CharacteristicCode>
        <SeatProfileRefID>MEDIA1-SEG15</SeatProfileRefID>
        <SeatProfileRefID>SP1-SEG15</SeatProfileRefID>
    </Seat>
</SeatRow>
</CabinCompartment>
<SeatMap>

```

Seat construction for multipax

- Pax 1 is eligible to a discount. All seats from row 41 are linked to Seat Profile SEAT1, related to ALaCarteOfferItem PRICE1, containing the discount and for which only PAX1 is eligible.
- Pax2 is not eligible to a discount. Same seats are therefore linked to Seat Profile SEAT2, related to ALaCarteOfferItem PRICE2, without the discount.

```

<SeatRow>
  <RowNumber>41</RowNumber>
  <CharacteristicsCode>E</CharacteristicsCode>
  <CharacteristicsCode>FRO</CharacteristicsCode>
  <Seat>
    <CabinColumnID>B</CabinColumnID>
    <OccupationStatusCode>F</OccupationStatusCode>
    <CharacteristicCode>9</CharacteristicCode>
    <CharacteristicCode>CH</CharacteristicCode>
    <CharacteristicCode>E</CharacteristicCode>
    <CharacteristicCode>L</CharacteristicCode>
    <SeatProfileRefID>MEDIA1-SEG15</SeatProfileRefID>
    <SeatProfileRefID>SP1-SEG15</SeatProfileRefID>
    <SeatProfileRefID>SP2-SEG15</SeatProfileRefID>
  </Seat>
  <Seat>
    <CabinColumnID>C</CabinColumnID>
    <OccupationStatusCode>F</OccupationStatusCode>
    <CharacteristicCode>A</CharacteristicCode>
    <CharacteristicCode>CH</CharacteristicCode>
    <CharacteristicCode>E</CharacteristicCode>
    <CharacteristicCode>I</CharacteristicCode>
    <CharacteristicCode>L</CharacteristicCode>
    <SeatProfileRefID>MEDIA1-SEG15</SeatProfileRefID>
    <SeatProfileRefID>SP1-SEG15</SeatProfileRefID>
    <SeatProfileRefID>SP2-SEG15</SeatProfileRefID>
  </Seat>
  <Seat>
    <CabinColumnID>H</CabinColumnID>
    <OccupationStatusCode>F</OccupationStatusCode>
    <CharacteristicCode>A</CharacteristicCode>
    <CharacteristicCode>CH</CharacteristicCode>
    <CharacteristicCode>E</CharacteristicCode>
    <CharacteristicCode>I</CharacteristicCode>
    <CharacteristicCode>L</CharacteristicCode>
    <SeatProfileRefID>MEDIA1-SEG15</SeatProfileRefID>
    <SeatProfileRefID>SP1-SEG15</SeatProfileRefID>
    <SeatProfileRefID>SP2-SEG15</SeatProfileRefID>
  </Seat>
  <Seat>
    <CabinColumnID>J</CabinColumnID>
    <OccupationStatusCode>F</OccupationStatusCode>
    <CharacteristicCode>9</CharacteristicCode>
    <CharacteristicCode>CH</CharacteristicCode>
    <CharacteristicCode>E</CharacteristicCode>
    <CharacteristicCode>L</CharacteristicCode>
    <SeatProfileRefID>MEDIA1-SEG15</SeatProfileRefID>
    <SeatProfileRefID>SP1-SEG15</SeatProfileRefID>
    <SeatProfileRefID>SP2-SEG15</SeatProfileRefID>
  </Seat>
</SeatRow>

```

Metadata

Other

This element is used to list all possible values of:

- refundable / exchangeable indicator

- commissionable indicator

These indicators are coming from the pricing catalog.

Designation	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	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: <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.

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

Reference	Indicator Value	Indicator Description
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>

```

```

<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>

```

Errors

Element containing the different errors returned by the seatmap process.

Note that an error is encoded in case the seatmap process failed.

Designation	Repetition	Status	Location	Comments
IATA Error Code	1..N	O	/Errors /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	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.

Designation	Repetition	Status	Location	Comments
				Example: 352 - Link to inventory system is unavailable.
LanguageCode	1	O	Errors/LanguageCode	Language code associated with the error response.
TagText	1	O	Errors/TagText	Identifies the tag/XPath which relates to the provided Error.
TypeCode	1	O	Errors/TypeCode	Uses a bilaterally agreed set of values to indicate the error type.

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.

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

Table 2 Example of a IATA Error

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

Table 3 Example of a non IATA Error

Troubleshooting

Here is the list of possible errors:

IATA Error Code	Error Message	Description
5	Invalid flight/Date	
14	Airline code and/or flight number invalid	

IATA Error Code	Error Message	Description
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.

IATA Error Code	Error Message	Description
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.
710	7094 - INVALID OR MISSING FREQUENT FLYER ERROR	Frequent Flyer Traveller format is invalid.

Here is the list of possible 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.

IATA Warning Code	Warning Message	Description
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.
710	8741 - FREQUENT FLYER NUMBER IS INVALID	At least one of the provided FQTV number is invalid.
710	40449 - REQUESTED TRAVELER PROFILE INFO IGNORED	Frequent Flyer Traveller information in input ignored
710	40459 - REQUESTED CORPORATE PROFILE INFO IGNORED	Corporate information in input ignored

Detailed Use Cases

Building A Query Examples

Example from Offer - Centric seatmap with prices

Options:

- Prices
- The passenger has one Frequent Flyer Traveller card in the offer, that is considered.

```

<SeatAvailabilityRQ >
  <Party>
    <Sender>
      <TravelAgency>
        <AgencyID>NCE6X09DC</AgencyID>
        <IATA_Number>12345678</IATA_Number>
      </TravelAgency>
    </Sender>
  </Party>
  <Request>
    <CoreRequest>
      <Offer>
        <OfferItemID>OfferItemID</OfferItemID>
        <OwnerCode>6X</OwnerCode>
        <PaxSegmentRefID>SEG1</PaxSegmentRefID>
      </Offer>
      <Order>
        <OrderID/>
      </Order>
    </CoreRequest>
    <Paxs>
      <Pax>
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        <PTC>ADT</PTC>
      </Pax>
    </Paxs>
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      </PricingParameter>
    </ResponseParameters>
  </Request>
</SeatAvailabilityRQ>

```

Example from Order - Centric seatmap with prices

Options:

- Prices
- two passengers:
 - pax1 has one Frequent Flyer Traveller card in the order, that is considered and is traveling with an infant

- o pax2: child passenger

```

<SeatAvailabilityRQ >
  <Party>
    <Sender>
      <TravelAgency>
        <AgencyID>NCE6X09DC</AgencyID>
        <IATA_Number>12345678</IATA_Number>
      </TravelAgency>
    </Sender>
  </Party>
  <Request>
    <CoreRequest>
      <Order>
        <OrderID>6X_ABC123</OrderID>
        <OwnerCode>6X</OwnerCode>
        <PaxSegmentRefID>SEG1</PaxSegmentRefID>
      </Order>
    </CoreRequest>
    <Paxs>
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        <PTC>ADT</PTC>
      </Pax>
      <Pax>
        <PaxID>PAX11</PaxID>
        <PTC>INF</PTC>
      </Pax>
      <Pax>
        <PaxID>PAX2</PaxID>
        <PTC>CHD</PTC>
      </Pax>
    </Paxs>
    <ResponseParameters>
      <PricingParameter>
        <SimplePricingInd>true</SimplePricingInd>
      </PricingParameter>
    </ResponseParameters>
  </Request>
</SeatAvailabilityRQ>

```

Example from Order - With Bassinet Seat

Options:

- Prices
- one passenger: pax1 has one Frequent Flyer Traveller card in the order, that is considered and is traveling with an infant
- Bassinet Seat requested

```

<SeatAvailabilityRQ >
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    <Sender>
      <TravelAgency>
        <AgencyID>NCE6X09DC</AgencyID>
        <IATA_Number>12345678</IATA_Number>
      </TravelAgency>
    </Sender>
  </Party>
  <Request>
    <CoreRequest>
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        <OwnerCode>6X</OwnerCode>
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      </Order>
    </CoreRequest>
    <Paxs>
      <Pax>
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        <PTC>ADT</PTC>
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          <RemarkText>BASSINET</RemarkText>
        </Remark>
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      <Pax>
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        <PTC>INF</PTC>
      </Pax>
    </Paxs>
    <ResponseParameters>
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        <SimplePricingInd>true</SimplePricingInd>
      </PricingParameter>
    </ResponseParameters>
  </Request>
</SeatAvailabilityRQ>

```

Building a Reply - Examples

Example Centric Seatmap without prices

Seatmap requested for:

- one passenger
- no prices requested

```

<SeatAvailabilityRS>
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    <Version>18.1</Version>
  </PayloadAttributes>
  <Response>
    <DataLists>
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        <Pax>
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          <PTC>ADT</PTC>
          <Individual>
            <IndividualID>PAX1</IndividualID>
            <GivenName>JOHN</GivenName>
            <Surname>SMITH</Surname>
          </Individual>
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      </PaxList>
      <PaxSegmentList>
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          </CabinType>
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            <AircraftScheduledDateTime>2019-05-
15T09:10:00.000</AircraftScheduledDateTime>
          </Dep>
          <Arrival>
            <IATA_LocationCode>SYD</IATA_LocationCode>
          </Arrival>
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            <CarrierDesigCode>6X</CarrierDesigCode>

<MarketingCarrierFlightNumberText>221</MarketingCarrierFlightNumberText>
          </MarketingCarrierInfo>
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          </OperatingCarrierInfo>
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            <DatedOperatingLegID>LEG1</DatedOperatingLegID>
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<CarrierAircraftTypeCode>383</CarrierAircraftTypeCode>
          </CarrierAircraftType>
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          </Dep>
          <Arrival>
            <IATA_LocationCode>SYD</IATA_LocationCode>
          </Arrival>
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            <IATA_AircraftTypeCode>388</IATA_AircraftTypeCode>
          </IATA_AircraftType>
        </DatedOperatingLeg>
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  </SeatProfile>
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</DataLists>
</Response>
</PayloadAttributes>
</SeatAvailabilityRS>

```

```

        <SeatProfileID>SP2-SEG15</SeatProfileID>
    </SeatProfile>
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            <Media>
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                <DescText>PICTUREID</DescText>
                <URL>00042839</URL>
            </Media>
        </MarketingInformation>
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        <OwnerCode>SQ</OwnerCode>
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            <DescText>REFUND_3-SEG15</DescText>
        </Description>
        <Description>
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            <DescText>COMMISSION_2-SEG15</DescText>
        </Description>
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    </ServiceDefinition>
    <ServiceDefinition>
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        <OwnerCode>SQ</OwnerCode>
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        </Description>
        <Description>
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        <LastRowNumber>58</LastRowNumber>
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        <ColumnID>B</ColumnID>
        <ColumnID>C</ColumnID>
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        <ColumnID>F</ColumnID>
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    </CabinCompartment>
</SeatMap>

```

```

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<ColumnID>K</ColumnID>
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</CabinType>
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```



```

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</CabinComponent>
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  <CharacteristicsCode>FRO</CharacteristicsCode>
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```

```

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```

```

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      <CharacteristicCode>E</CharacteristicCode>
      <CharacteristicCode>L</CharacteristicCode>
      <CharacteristicCode>OW</CharacteristicCode>
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      <SeatProfileRefID>SP2-SEG15</SeatProfileRefID>
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      <CharacteristicCode>L</CharacteristicCode>
      <CharacteristicCode>OW</CharacteristicCode>
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    <Seat>
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      <OccupationStatusCode>F</OccupationStatusCode>
      <CharacteristicCode>A</CharacteristicCode>
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```

```

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        <CharacteristicCode>OW</CharacteristicCode>
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    </Seat>
    <Seat>
        <CabinColumnID>J</CabinColumnID>
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        <CharacteristicCode>9</CharacteristicCode>
        <CharacteristicCode>CH</CharacteristicCode>
        <CharacteristicCode>E</CharacteristicCode>
        <CharacteristicCode>L</CharacteristicCode>
        <CharacteristicCode>OW</CharacteristicCode>
        <SeatProfileRefID>MEDIA1-SEG15</SeatProfileRefID>
        <SeatProfileRefID>SP2-SEG15</SeatProfileRefID>
    </Seat>
    <Seat>
        <CabinColumnID>K</CabinColumnID>
        <OccupationStatusCode>F</OccupationStatusCode>
        <CharacteristicCode>W</CharacteristicCode>
        <CharacteristicCode>CH</CharacteristicCode>
        <CharacteristicCode>E</CharacteristicCode>
        <CharacteristicCode>L</CharacteristicCode>
        <CharacteristicCode>OW</CharacteristicCode>
        <SeatProfileRefID>MEDIA1-SEG15</SeatProfileRefID>
        <SeatProfileRefID>SP2-SEG15</SeatProfileRefID>
    </Seat>
</SeatRow>
</CabinCompartment>
</SeatMap>
</Response>
</SeatAvailabilityRS>

```

Example Centric Seatmap with prices

Seatmap requested for:

- one passenger
- price option

```

<SeatAvailabilityRS>
  <PayloadAttributes>
    <Version>18.1</Version>
  </PayloadAttributes>
  <Response>
    <ALaCarteOffer>
      <OfferID>Offer1</OfferID>
      <OwnerCode>6X</OwnerCode>
      <ALaCarteOfferItem>
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        <UnitPrice>
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          <BaseAmount CurCode="SGD">0.00</BaseAmount>
          <Discount>
            <PreDiscountedAmount
CurCode="SGD">17.20</PreDiscountedAmount>
            <DiscountContext>
              <KeywordText>DIS</KeywordText>
              <ValueText>AY-889487</ValueText>
            </DiscountContext>
          </Discount>
          <TaxSummary>
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          </TaxSummary>
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Example Centric Seatmap with prices and Bassinet Seat requested

Seatmap requested for:

- one passenger with infant

- price option
- Bassinet seat has been requested

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