

SeatAvailability V2

Interface Specification

June 2017

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# Disclaimer

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As British Airways implements new products and features through NDC, this document will be updated. British Airways will keep its users informed of any significant change to the product, and the latest version of this user guide can always be provided upon request from [selling.distribution@ba.com](mailto:selling.distribution@ba.com).

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# Introduction

The SeatAvailability Webservice provides IATA Accredited Travel Agents, new retailers and Service Providers the ability to retrieve seat map for one or more flight segments as per IATA NDC schema standards.

SeatAvailability – this service returns priced seat map for the requested flight segments in a requested cabin

## Support Details

### Commercial Support

For any assistance that you require with any commercial queries please contact:

[Selling.distribution@ba.com](mailto:Selling.distribution@ba.com)

### Technical Support

For any assistance with integration issues or general queries, please refer to the blog section available on <http://developer.ba.com>. This section is monitored daily by our technical team and should be the first point of contact for any integration queries.

For any assistance with suspected technical faults or issues please follow the process detailed below:

**System unavailable** – please telephone the British Airways IT Service Centre:

+44 (0) 20 8562 4000

**System available, non-critical faults -** please send an email to:

**itsc.itsc@ba.com**

**Please have the following information available when calling or emailing the service centre:**

**If emailing, the email subject should be:**

* “ Company name – NDC Web Service issue”

**The call or email should include the following:**

* Your name and Company
* Your contact Telephone Number (including full dialling code)
* Full Location including country, town, building
* System / Technology / Hardware involved
* Number of users affected

**Short summary of the problem:**

* Error / System Message: Please put in specific error message received.
* Details of actions leading to problem / question (commands issued, buttons clicked etc)
* Example SOAP of request being sent (including username and password to connect to service.
* Example of any response received from the service.

Attachments of screenshots displaying the error would also be useful.

# Generic Message Elements

## Agency and Service Provider data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Type** | **Data Type** | **Schema Definition**  **(http://www.ba.com/schema/)** | **Optional/Mandatory** | **Comments** |
| Party |  |  | **M** |  |
| Sender |  |  | **M** | Message sender information |
| TravelAgencySender |  |  | M | Specify the travel agency details  Populate TravelAgencySender section only if the request is originated by the Travel Agent |
| Name |  | Party/Sender/TravelAgencySender/Name | O | Travel agency name  **Example:** ABC  **Note:** This is an optional element in NDC schema. BA will neither use nor validate this element even if it was passed |
| Contacts |  |  | O | This is an optional element in NDC schema but for calling BA service this must be passed with requesting agent’s email address only if the requesting agent is an IATA agent  **Note:** Agent contact will only be used in OrderCreate service. Therefore it is up to the client to pass agent email address in AirShopping, FlightPrice and SeatAvailability services |
| Contact |  |  | M |  |
| EmailContact |  |  | O | This is an optional element in NDC schema but for calling BA service (OrderCreate) this must be passed, if the requesting agent is an IATA agent. This is important as the eTicket confirmation email will only be sent to this email address for IATA agent’s bookings  For non-IATA agents, this element need not be passed as the eTicket confirmation email will only be sent to the customer’s email address. However, BA will record this email address to the booking if provided for non-IATA agents |
| Address |  | Party/Sender/TravelAgencySender/Contacts/Contact/EmailContact/Address | M | Travel agency’s email address  **Example:** [**abc@tc.com**](mailto:abc@tc.com)  This is the requesting agent’s email address |
| OtherIDs |  |  | O | Specify Non-IATA agent details  **Note:** This is an optional element in NDC schema but for calling BA services this must be passed if the requesting agent is a non- IATA agent |
| OtherID |  | Party/Sender/TravelAgencySender/OtherIDs/OtherID | M | Non-IATA agent code  **Example:** 01010101 |
| IATA\_Number |  | Party/Sender/TravelAgencySender/IATA\_Number | O | Travel agent’s IATA number  **Example:** 12345678  **Note:** This is an optional element in NDC schema but for calling BA services this must be passed if the requesting agent is an IATA agent |
| AgencyID |  | Party/Sender/TravelAgencySender/AgencyID | M | Travel agency name  **Example:** ABC  **Note:** This is a mandatory element in NDC schema but BA will neither use nor validate this element. Suggestion is to pass travel agency name |
| CorporateSender |  |  |  | Specify corporate details  Populate CorporateSender section only if the request is originated by the Corporate |
| Contacts |  |  | O | This is an optional element in NDC schema. Populate this section with the requesting corporate’s email address only if the corporate is directly creating a booking with BA via NDC Services  Do not populate this section if Travel Management Company (TMC) is creating a booking on behalf of the corporate  **Note:** Corporate contact will only be used in OrderCreate service. Therefore it is up to the client to pass corporate email address in AirShopping, FlightPrice and SeatAvailability services |
| Contact |  |  | M |  |
| EmailContact |  |  | O | This is an optional element in NDC schema but for calling BA service (OrderCreate) this must be passed, if the corporate is directly creating a booking with BA via NDC Services and the corporate has an IATA number. This is important as the eTicket confirmation email will only be sent to this email address for IATA agent’s bookings  For corporates that have non-IATA number, this element need not be passed as the eTicket confirmation email will only be sent to the customer’s email address. However, BA will record this email address to the booking if provided for non-IATA corporates |
| Address |  | Party/Sender/CorporateSender/Contacts/Contacts/EmailContact/Address | M | Corporate’s email address  **Example:** [**abc@tc.com**](mailto:abc@tc.com)  This is the requesting corporate’s email address |
| ID |  | Party/Sender/CorporateSender/ID | M | Corporate’s JBID  **Example:** IN3642FR  Unique ID provided by BA |
| IATA\_Number |  | Party/Sender/CorporateSender/IATA\_Number | O | Corporate’s IATA or non-IATA number  **Example:** 12345678  Do not populate this section if Travel Management Company (TMC) is creating a booking on behalf of the corporate  **Note:** This is an optional element in NDC schema. Populate this element with the requesting corporate’s IATA or non-IATA number only if the corporate is directly creating booking with BA via NDC Services |
| Participants |  |  | O | Specify Service Provider details  **Note:** This is an optional element in NDC schema but if the calling client is a Service Provider then Participants details must be populated. If the calling client is not a Service Provider then Participants details should not be populated. |
| Participant |  |  | M |  |
| TravelAgencyParticipant |  |  | O | Populate this section only if the participant is a Travel Management Company (TMC) and is creating a booking for the corporate customer i.e request is originated by the corporate |
| SequenceNumber (Attribute) |  | Party/Participants/Participant/TravelAgencyParticipant/SequenceNumber (Attribute) | M | Unique number  Example: 2  **Note:** It is recommended that each participant to increment the sequence number by 1.  **Example:** If participant 1 gives sequence number as “2” participant 2 is advised to give sequence number as “3” |
| Contacts |  |  | O | This is an optional element in NDC schema. Populate this section with the requesting agent’s (TMC’s) email address only if the requesting agent is an IATA agent  **Note:** Agent contact will only be used in OrderCreate service. Therefore it is up to the client to pass agent email address in AirShopping, FlightPrice and SeatAvailability services |
| Contact |  |  | M |  |
| EmailContact |  |  | O | This is an optional element in NDC schema but for calling BA service (OrderCreate) this must be passed, if the requesting agent (TMC) is an IATA agent. This is important as the eTicket confirmation email will only be sent to this email address for IATA agent’s bookings  For non-IATA agents, this element need not be passed as the eTicket confirmation email will only be sent to the customer’s email address. However, BA will record this email address to the booking if provided for non-IATA agents (TMCs) |
| Address |  | Party/Participants/Participant/TravelAgencyParticipant/Contacts/Contact/ EmailContact/Address | M | Travel agency’s(TMC’s) email address  **Example:** [**abc@tc.com**](mailto:abc@tc.com)  This is the requesting agent’s email address |
| OtherIDs |  |  | O | Specify Non-IATA agent details  **Note:** This is an optional element in NDC schema but for calling BA services this must be passed if the requesting agent (TMC) is a non- IATA agent |
| OtherID |  | Party/Participants/Participant/TravelAgencyParticipant/OtherIDs/OtherID | M | TMC’s Non-IATA agent code  **Example:** 01010101 |
| IATA\_Number |  | Party/Participants/Participant/TravelAgencyParticipant/IATA\_Number | O | Travel agent’s (TMC’s) IATA number  **Example:** 12345678  **Note:** This is an optional element in NDC schema but for calling BA services this must be passed if the requesting agent (TMC) is an IATA agent |
| AgencyID |  | Party/Participants/Participant/TravelAgencyParticipant/AgencyID | M | Travel agency name  **Example:** ABC  **Note:** This is a mandatory element in NDC schema but BA will neither use nor validate this element. Suggestion is to pass travel agency name |
| AggregatorParticipant |  |  | O | Populate this section only if the calling client is a Service Provider |
| SequenceNumber (Attribute) |  | Party/Participants/Participant/AggregatorParticipant/ SequenceNumber (Attribute) | M | Unique number  Example: 2  **Note:** It is recommended that each participant to increment the sequence number by 1.  **Example:** If participant 1 gives sequence number as “2” participant 2 is advised to give sequence number as “3” |
| Name |  | Party/Participants/Participant/AggregatorParticipant/Name | O | Service Provider name  **Example:** XYZ  **Note:** This is an optional element in NDC schema. BA will neither use nor validate this element even if it was passed |
| AggregatorID |  | Party/Participants/Participant/AggregatorParticipant/AggregatorID | M | Service Provider ID provided by BA  **Example:** 00123456  All BA NDC services will validate this ID and allow only if the AggregatorID provided is valid |

### Example Agency and Service Provider data

**Travel Agent (IATA) accessing BA NDC Services via Service Provider**

<Party>

<Sender>

<TravelAgencySender>

<Name>ABC</Name>

<Contacts>

<Contact>

<EmailContact>

<Address>agentemailaddress@abc.com</Address>

</EmailContact>

</Contact>

</Contacts>

<IATA\_Number>35209893</IATA\_Number>

<AgencyID>ABC</AgencyID>

</TravelAgencySender>

</Sender>

<Participants>

<Participant>

<AggregatorParticipant SequenceNumber="123">

<Name>Travelco</Name>

< AggregatorID > 00123456</AggregatorID >

</AggregatorParticipant>

</Participant>

</Participants>

</Party>

**Travel Agent (Non-IATA) accessing BA NDC Services via Service Provider**

<Party>

<Sender>

<TravelAgencySender>

<Name>ABC</Name>

<Contacts>

<Contact>

<EmailContact>

<Address>agentemailaddress@abc.com</Address>

</EmailContact>

</Contact>

</Contacts>

<OtherIDs>

<OtherID>0000007</OtherID>

</OtherIDs>

<AgencyID>ABC</AgencyID>

</TravelAgencySender>

</Sender>

<Participants>

<Participant>

<AggregatorParticipant SequenceNumber="123">

<Name>Travelco</Name>

< AggregatorID > Travelco </AggregatorID >

</AggregatorParticipant>

</Participant>

</Participants>

</Party>

**Travel Management Company (TMC) accessing BA NDC Services for Corporates**

<Party>

<Sender>

<CorporateSender>

<ID>IN3401FR</ID>

</CorporateSender>

</Sender>

<Participants>

<!--Participant 1 - TMC-->

<Participant>

<TravelAgencyParticipant SequenceNumber="1">

<Contacts>

<Contact>

<EmailContact>

<Address>ndcagent@abc.com</Address>

</EmailContact>

</Contact>

</Contacts>

<IATA\_Number>91266162</IATA\_Number>

<AgencyID>ABCD</AgencyID>

</TravelAgencyParticipant>

</Participant>

</Participants>

</Party>

**Travel Management Company (TMC) accessing BA NDC Services for Corporates via Service Provider**

<Party>

<Sender>

<CorporateSender>

<ID>IN3401FR</ID>

</CorporateSender>

</Sender>

<Participants>

<!--Participant 1 - TMC-->

<Participant>

<TravelAgencyParticipant SequenceNumber="1">

<Contacts>

<Contact>

<EmailContact>

<Address>ndcagent@abc.com</Address>

</EmailContact>

</Contact>

</Contacts>

<IATA\_Number>91266162</IATA\_Number>

<AgencyID>AMEX</AgencyID>

</TravelAgencyParticipant>

</Participant>

<!--Participant 2 - Service Provider-->

<Participant>

<AggregatorParticipant SequenceNumber="2">

<AggregatorID>00000780</AggregatorID>

</AggregatorParticipant>

</Participant>

</Participants>

</Party>

**Corporate accessing BA NDC Services directly**

<Party>

<Sender>

<CorporateSender>

<Contacts>

<Contact>

<EmailContact>

<Address>ndcagent@abc.com</Address>

</EmailContact>

</Contact>

</Contacts>

<ID>IN3401FR</ID>

<! — IATA or non-IATA number should be requested in the same field-->

<IATA\_Number>12345678</IATA\_Number>

</CorporateSender>

</Sender>

</Party>

## Common Schemas

The attached schemas are common for AirShopping, FlightPrice, SeatAvailability and OrderCreate

 

# SeatAvailability Webservice

This service returns priced seat map for one or more flights requested. The service returns one seat map per flight and return only seats that are unoccupied along with seat display details such as the column details, row start and end position, seat and non-seat characteristics. This service can be called during initial booking flow [OR] after the booking is created to return priced seat map.

## Interface Design

This web service is called with the following inputs:

* List of flight segments and for each flight segment the departure airport, arrival airport, flight number, booking class (selling class), cabin name etc
* Seat maps for upto 6 Origin Destination pairs can be requested.
* Fare basis code for each passenger type and for each flight segment
* Number of anonymous passengers with passenger type
* Number of known passengers with passenger type, name and FQTV details
* OrderID (Booking Reference/PNR)

The output data this service returns includes:

Priced seat map for the requested flights and cabin

One seat map is returned per flight

Each seat map returns the following

Exit row position

Wing position

Seat column details

Seat row details

Seat characteristics

Non-seat characteristics

Links to BA seating policy and Terms and conditions

General seating rules

Payment options (returned only when the service is called in post-sale scenario)

List of applicable payment cards with surcharge, if applicable

Mandatory and optional payment card details that should be specified when making a payment

Mandatory and optional billing address details that should be specified when making a payment

**Limitations:**

Seat map is returned only for BA operated flights

## Schemas

The service adheres to the IATA NDC SeatAvailability schema version 16.1, with some modifications

**Schemas**

Main schemas used in the web service. Also, please refer Section 2.2 for common schemas

 

## Request and Response Definitions

**Note:** In the Header that accompanies your soap request please ensure you set the Username Token details as supplied by BA, only if the service is not accessed via Mashery.

### Request

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Service Input Parameters** | | | | |
| **Input Parameters** | **Type** | **Schema Definition**  **(http://www.ba.com**  **/schema/)** | **Optional/Mandatory** | **Comments** |
| Request object | SeatAvailabilityRQ | SeatAvailabilityRQ.xsd | M |  |
| **SeatAvailabilityRQ Data Fields** | | | | |
| **Field Type** | **Data Type** | **Schema Definition**  **(http://www.ba.com/schema/)** | **Optional/Mandatory** | **Comments** |
| **Agency and Service Provider data See section 2.1** |  |  |  |  |
| Version (Attribute) |  | SeatAvailabilityRQ/Version (Attribute) | M | Specify NDC schema message version. Always pass 16.1  **Note:** This is a mandatory attribute in NDC schema. The service will not validate what is being passed in this attribute |
| PrimaryLangID (Attribute) |  | SeatAvailabilityRQ/PrimaryLangID (Attribute) | O | Specifies the agent’s preferred language. Service response will be returned in this language  **Note:** If the requested language is not supported by BA or if this is not passed in the request then the default language will be used, which is English  **Example:** EN |
| AltLangID (Attribute) |  | SeatAvailabilityRQ/AltLangID (Attribute) | O | Specifies the preferred language in which the mail to be sent. eTicket receipt email and any other communication emails from BA will be sent in this language  **Note:** AltLangID will not be used even if it was passed in the SeatAvailability request, as there is no email sent at the shopping stage. If the requested language is not supported by BA or if this is not passed in the request then the default language will be used, which is English |
| Travelers |  |  | M | BA accepts both anonymous and known traveler in the SeatAvailability request. Known traveller’s details (FQTV) may be used in determining the seat price  For Post-Sale scenario, this section may not be required, as the service will work out the passenger details from the booking. However, it is recommended that client should provide the payer’s name (may or may not be one of the passengers in the booking) along with ResidenceCode under KnownTraveler, as this would help the service return the correct payment options (list of applicable cards that can be used in the subsequent OrderChangeRQ once the client decides go ahead with the seat purchase) |
| Traveler |  |  | M | This must be repeated for each passenger. If the client wants to shop for 2 ADT, 2 CHD and 2 INF then Traveler should be repeated 6 times for each passenger and the Traveler can be Anonymous and Known |
| AnonymousTraveler |  |  | O | This is not required to be specified when the service is called in post-sale scenario |
| ObjectKey (Attribute) |  |  | O | This attribute must be defined so that this key can be referenced to associate fare basis code for this passenger and to associate infant with an adult  **Example:** SH2  **Note:** This is an optional attribute in NDC schema but for calling BA service this must be passed |
| PTC |  | SeatAvailabilityRQ/Travelers/Traveler/AnonymousTraveler/PTC | O | Passenger Type Code  BA accepts the following passenger type codes  ADT  CHD  INF  If any other passenger type code is passed then ADT price will be returned  **Note:** This is an optional element in NDC schema but for calling BA service this must be passed |
| PassengerAssociation |  | SeatAvailabilityRQ/Travelers/Traveler/AnonymousTraveler/PassengerAssociation | O | This element is used to associate an infant (not requiring a seat) to an adult. Specify the infant passenger’s ObjectKey  **Example:** SH2  Where SH2 is infant passenger’s ObjectKey  **Note:** Though this is an optional element in NDC schema it must be passed if the request includes INF passenger, as the service needs to know which infant is associated with which adult |
| Age |  |  | O | Though this is an optional element, it is recommended to provide passenger’s age, as it will be used to identify if the passenger is a young adult.  **Note:** UK Air Passenger Duty (APD) is not applicable to “young adults” aged 12 to 15 years inclusive for travel after 1 March 2016 |
| Value |  | SeatAvailabilityRQ/Travelers/Traveler/AnonymousTraveler /Age/BirthDate | M [Choice] | **Example:** 15 |
| BirthDate |  | SeatAvailabilityRQ/Travelers/Traveler/AnonymousTraveler/Age/BirthDate | M [Choice] | Date of birth in “YYYY-MM-DD” format  **Example:** 2002-01-01 |
| RecognizedTraveler |  |  | O |  |
| ObjectKey (Attribute) |  |  | O | This attribute must be defined so that this key can be referenced to associate fare basis code for this passenger and to associate infant with an adult  **Example:** SH2  **Note:** This is an optional attribute in NDC schema but for calling BA service this must be passed  This is not required to be specified when the service is called in post-sale scenario |
| PTC |  | SeatAvailabilityRQ/Travelers/Traveler/RecognizedTraveler/PTC | O | Passenger Type Code  BA accepts the following passenger type codes  ADT  CHD  INF  If any other passenger type code is passed then ADT price will be returned  **Note:** This is an optional element in NDC schema but for calling BA service this must be passed  This is not required to be specified when the service is called in post-sale scenario |
| ResidenceCode |  | SeatAvailabilityRQ/Travelers/Traveler/RecognizedTraveler/ResidenceCode | O | This will be used to determine the list of applicable cards.  Specify this only in post-sale scenario |
| PassengerAssociation |  | SeatAvailabilityRQ/Travelers/Traveler/RecognizedTraveler/PassengerAssociation | O | This element is used to associate an infant (not requiring a seat) to an adult. Specify the infant passenger’s ObjectKey  **Example:** SH2  Where SH2 is infant passenger’s ObjectKey  **Note:** Though this is an optional element in NDC schema it must be passed if the request includes INF passenger, as the service needs to know which infant is associated with which adult  This is not required to be specified when the service is called in post-sale scenario |
| Age |  |  | O | Though this is an optional element, it is recommended to provide passenger’s age, as it will be used to identify if the passenger is a young adult.  **Note:** UK Air Passenger Duty (APD) is not applicable to “young adults” aged 12 to 15 years inclusive for travel after 1 March 2016 |
| Value |  | SeatAvailabilityRQ/Travelers/Traveler/RecognizedTraveler/Age/Value | M [Choice] | **Example:** 15 |
| BirthDate |  | SeatAvailabilityRQ/Travelers/Traveler/RecognizedTraveler/Age/BirthDate | M [Choice] | Date of birth in “YYYY-MM-DD” format  Example: 2002-01-01 |
| Name |  |  | M |  |
| Surname |  | SeatAvailabilityRQ/Travelers/Traveler/RecognizedTraveler/Name/Surname | M | **Example:** SMITH |
| Given |  | SeatAvailabilityRQ/Travelers/Traveler/RecognizedTraveler/Name/Given | O | **Example:** WILL |
| Title |  | SeatAvailabilityRQ/Travelers/Traveler/RecognizedTraveler/Name/Title | O | **Example:** MR |
| Middle |  | SeatAvailabilityRQ/Travelers/Traveler/RecognizedTraveler/Name/Middle | O | **Example:** G |
| FQTVs |  |  | O | Specify passenger’s frequent flyer information  The FQTV details will be used to determine the seat price. Service will validate the FQTV’s provided and will consider FQTV details to determine seat price only if it is valid  **Note:** FQTV details will not be accepted when the service is called in post-sale scenario |
| AirlineID |  | SeatAvailabilityRQ/Travelers/Traveler/RecognizedTraveler/FQTVs/AirlineID | M | Frequent flyer airline code  **Example:** BA |
| Account |  |  | O |  |
| Number |  | SeatAvailabilityRQ/Travelers/Traveler/RecognizedTraveler/FQTVs/Account/Number | M | Frequent flyer number  **Example:** 12345678 |
| Query |  |  | M | This section will vary based on when the service is called  **Initial booking flow [Purchase Seat along with Flight]**  Client must specify OriginDestination details when the service is called during initial booking flow, as booking is not created at this stage  **Post-Sale [Purchase Seat after the booking is created]**  Client can either query just with OrderID/PNR/Booking Reference [OR] with OrderID/PNR/Booking and specific flights in the booking |
| OriginDestination |  |  | O | Origin and destination (O&D) details. This must be repeated for each O&D. If the request is for EDI-AMS return then this must be repeated twice once for EDI-AMS and once for AMS-EDI  **Note:** This is an optional element in NDC schema but this must be specified when the service is called during initial booking flow |
| FlightSegmentReference |  | SeatAvailabilityRQ/Query/OriginDestination/FlightSegmentReference | O | List of flights within an O&D.  If the request is for EDI-AMS return with each O&D containing 2 flights (EDILHR and LHRAMS; AMSLHR and LHREDI) then for each O&D FlightSegmentReference should be repeated twice once for EDILHR and once for LHRAMS  **Note:** This is an optional element in NDC schema but this must be specified when the service is called during initial booking flow |
| ref (Attribute) |  | SeatAvailabilityRQ/Query/OriginDestination/FlightSegmentReference/ref (Attribute) | M | Unique reference to a flight segment  **Example:** BA1434  The flight details for this reference is returned in FlightSegmentList data list |
| ClassOfService |  |  | M |  |
| refs (Attribute) |  |  | O | Reference to a fare basis code for all passengers for this flight  **Examples:** FBCODEADTBA0423  FBCODECHDBA0428  FBCODEINFBA0428  Where  FBCODEADTBA0423 = Adult fare basis code for flight BA0423  FBCODECHDBA0423 = Child fare basis code for flight BA0423  FBCODEINFBA0423=  Infant fare basis code for flight BA0423  The fare basis code for the reference is returned in FareGroup data list |
| Code |  | SeatAvailabilityRQ/Query/OriginDestination/FlightSegmentReference/ClassOfService/Code | M | Booking/Selling class  **Example:** O |
| MarketingName |  | SeatAvailabilityRQ/Query/OriginDestination/FlightSegmentReference/ClassOfService/MarketingName | O | The cabin this selling class belongs to  **Example:** Euro Traveller |
| OrderID |  |  | O | PNR/Booking Reference  **Note:** This is an optional element in NDC schema but this must be specified when the service is called in post-sale scenario |
| DataLists |  |  | O |  |
| FareList |  |  | O | Fare basis code for each passenger for each flight should be specified  **Note:** Though this is optional in NDC schema, FareList must be passed in order to retrieve the priced seat map  This is not required to be specified when the service is called in post-sale scenario |
| FareGroup |  |  | M | This is a list and will be repeated to return all fare basis code for the itinerary |
| refs (Attribute) |  | SeatAvailabilityRQ/DataLists/FareList/FareGroup/refs (Attribute) | O | Reference to passengers and flight to which the fare basis code is applicable  **Example:** SH3 BA0428 |
| ListKey (Attribute) |  | SeatAvailabilityRQ/DataLists/FareList/FareGroup/ListKey (Attribute) | M | **Example:** FBCODEINFBA0428 |
| Fare |  |  | M |  |
| FareCode |  |  | M |  |
| Code |  | SeatAvailabilityRQ/DataLists/FareList/FareGroup/Fare/ FareCode/Code | M | Always pass as “70J” |
| FareBasisCode |  |  | M |  |
| Code |  | SeatAvailabilityRQ/DataLists/FareList/FareGroup/ FareBasisCode/Code | M | Fare basis code  **Example:** VZ0RIN |
| FlightSegmentList |  |  | O | **Note:** This is an optional list in NDC schema but this must be specified when the service is called during initial booking flow  When flight segment details are specified in post-sale scenario, the service will return priced seat map(s) only for the requested flight segments |
| FlightSegment |  |  | M | Flight segment details |
| SegmentKey (Attribute) |  | SeatAvailabilityRQ/DataLists/FlightSegmentList/FlightSegment/SegmentKey (Attribute) | M | **Example:** BA0428 |
| Departure |  |  | M | Departure information |
| AirportCode |  | SeatAvailabilityRQ/DataLists/FlightSegmentList/FlightSegment/Departure/AirportCode | M | Departure airport IATA code  **Example:** LHR |
| Date |  | FlightPriceRS/DataLists/FlightSegmentList/FlightSegment/Departure/Date | M | Local Departure date i.e. local to the departure location  **Example:** 2015-07-01 |
| Time |  | SeatAvailabilityRQ/DataLists/FlightSegmentList/FlightSegment/Departure/Time | O | Local Departure time i.e. local to the departure location  **Example:** 06:50 |
| Arrival |  |  | M | Arrival information |
| AirportCode |  | SeatAvailabilityRQ/DataLists/FlightSegmentList/FlightSegment/Arrival/AirportCode | M | Arrival airport IATA code  **Example:** AMS |
| Date |  | SeatAvailabilityRQ/DataLists/FlightSegmentList/FlightSegment/Arrival/Date | O | Local Arrival date i.e. local to the arrival location  **Example:** 2015-07-01 |
| Time |  | SeatAvailabilityRQ/DataLists/FlightSegmentList/FlightSegment/Arrival/Time | O | Local Arrival time i.e. local to the arrival location  **Example:** 09:10 |
| MarketingCarrier |  |  | M | Marketing carrier information |
| AirlineID |  | SeatAvailabilityRQ/DataLists/FlightSegmentList/FlightSegment/MarketingCarrier/AirlineID | M | Marketing carrier code  **Example:** BA |
| FlightNumber |  | SeatAvailabilityRQ/DataLists/FlightSegmentList/FlightSegment/MarketingCarrier/FlightNumber | M | Marketing flight number  **Example:** 0428 |
| Equipment |  |  | O | Aircraft information |
| AircraftCode |  | SeatAvailabilityRQ/DataLists/FlightSegmentList/FlightSegment/Equipment/AircraftCode | M | **Example:** 767 |

### Response

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Service Response Parameters** | | | | |
| **Input Parameters** | **Type** | **Schema Definition**  **(http://www.ba.com**  **/schema/)** | **Optional/Mandatory** | **Comments** |
| Response object | SeatAvailabilityRS | SeatAvailabilityRS.xsd | M |  |
| **SeatAvailabilityRS Data Fields** | | | | |
| **Field Type** | **Data Type** | **Schema Definition**  **(http://www.ba.com/schema/)** | **Optional/Mandatory** | **Comments** |
| Document |  |  | M |  |
| Name |  | SeatAvailabilityRS/Document/Name | M | Will be returned as “BA” |
| Success |  | SeatAvailabilityRS/Success | M | The presence of the empty Success element explicitly indicates that the message succeeded |
| Warnings |  |  | O | Warning will be returned  1) When seat map is not returned for one or more requested flight. Warnings should be repeated for each flight the service did not return seat map for.  2) When FQTV validation failed for all passengers |
| Warning |  | SeatAvailabilityRS/Warnings/Warning | O | BA warning message  **Example:**  Unable to return seat map for flight - BA4603 |
| Type (Attribute) |  | OrderViewRS/Warnings/Warning/Type (Attribute) | **O** | PADIS Code -IATA definition from codeset 9845  **Example:** 100 |
| ShortText (Attribute) |  | OrderViewRS/Warnings/Warning/ShortText (Attribute) | **O** | PADIS message -IATA definition from codeset 9845  **Example:**  Seat map not available, request seat at check-in |
| ShoppingResponseID |  |  | O |  |
| ResponseID |  | SeatAvailabilityRS/ShoppingResponseID/ResponseID | M | Unique shopping response id. This is normally the date and time stamp  **Example:**  2015-05-29T14:20:25.043Z |
| Flights |  |  | M | This is a list and will be repeated for each flight for which the seat map is returned |
| FlightSegmentReferences |  | SeatAvailabilityRS/Flights /FlightSegmentReferences | O |  |
| Cabin |  |  | M | This is a list and will be repeated once for upper deck and once for main deck when the requested cabin is spread across upper and main deck |
| Code |  | SeatAvailabilityRS/Flights/Cabin/Code | M | BA Cabin code for the cabin for which the seat map is returned  Possible values are  M – Euro/World Traveller/Economy  J – Club World/Business  F – First  W – World Traveller Plus/Premium Economy  C – Domestic [within UK]  C – Club Europe /Business [short haul flights] |
| CabinLayout |  |  | O |  |
| WingPosition |  |  | O | Over the wing row information, if applicable. This must be returned regardless of over the wing seats are returned as valid seats |
| Rows |  |  | M |  |
| UpperDeckInd (Attribute) |  | SeatAvailabilityRS/Flights/Cabin/CabinLayout/WingPosition/Rows/UpperDeckInd (Attribute) | O | “True” means the wing row position is in upper deck  “False” means the wing row position is in main deck |
| First |  | SeatAvailabilityRS/Flights/Cabin/CabinLayout/WingPosition/Rows/First | M | Wing starting row position  **Example:** 20 |
| Last |  | SeatAvailabilityRS/Flights/Cabin/CabinLayout/WingPosition/Rows/Last | M | Wing ending row position  **Example:** 27 |
| ExitRowPosition |  |  | O | Return the exit row information, if applicable. This must be returned regardless of whether exit row seats are open or are returned as valid seats |
| Rows |  |  | M |  |
| UpperDeckInd (Attribute) |  | SeatAvailabilityRS/Flights/Cabin/CabinLayout/ExitRowPosition/Rows/UpperDeckInd (Attribute) | O | “True” means the exit row position is in upper deck  “False” means the exit row position is in main deck |
| First |  | SeatAvailabilityRS/Flights/Cabin/CabinLayout/ExitRowPosition/Rows/First | M | Exit seat starting row position  **Example:** 30 |
| Columns (Attribute) |  | SeatAvailabilityRS/Flights/Cabin/CabinLayout/ExitRowPosition/Rows/First/ Columns (Attribute) | O | List of exit seat columns.  **Example:** ABCHJK |
| Last |  | SeatAvailabilityRS/Flights/Cabin/CabinLayout/ExitRowPosition/Rows/Last | M | Exit seat ending row position  **Example:** 30 |
| Columns (Attribute) |  | SeatAvailabilityRS/Flights/Cabin/CabinLayout/ExitRowPosition/Rows/Last/ Columns (Attribute) | O | List of exit seat columns.  **Example:** ABCHJK |
| SeatDisplay |  |  | O |  |
| Columns |  | SeatAvailabilityRS/Flights/Cabin/SeatDisplay/Columns | M | Returns the list of columns for the cabin  **Example:** ABC-DEFG-HJK |
| Rows |  |  | M | Returns the starting end row position for each column |
| First |  | SeatAvailabilityRS/Flights/Cabin/SeatDisplay/Rows/First | M | Row starting row position for columns ABCDEFGHJK  **Example:** 20 |
| Last |  | SeatAvailabilityRS/Flights/Cabin/SeatDisplay/Rows/Last | M | Row ending row position for columns ABCDEFGHJK  **Example:** 43 |
| Component |  |  | O | This is where the non-seat characteristics are returned  I.e Galley, Wardrobe, Lavatory, Emergency Exit, Exit Door, Wall, Empty and Other seat location. This will be repeated for each non-seat characteristics |
| Locations |  |  | M |  |
| Location |  |  | M |  |
| Row |  |  | M | Non-seat's row position |
| Position |  | SeatAvailabilityRS/Flights/Cabin/SeatDisplay/Component/Locations/Location/Row/Position | M | **Example:** 27 |
| Column |  |  | M | Non-seat's column position |
| Position |  | SeatAvailabilityRS/Flights/Cabin/SeatDisplay/Component/Locations/Location/Column/Position | M | **Example:** D |
| Type |  |  | M |  |
| Code |  | SeatAvailabilityRS/Flights/Cabin/SeatDisplay/Component/Type/Code | M | IATA Code from codeset 9978  **Example:** LA |
| Definition |  | SeatAvailabilityRS/Flights/Cabin/SeatDisplay/Component/Type/Definition | O | IATA definition from codeset 9978  **Example:** Lavatory |
| TableName |  | SeatAvailabilityRS/Flights/Cabin/SeatDisplay/Component/Type/TableName | O | IATA codeset value  "9978" |
| Services |  |  | O | This is where seat category price is returned |
| Service |  |  | M | Service will be repeated for each seat category price for all flights |
| ObjectKey (Attribute) |  | SeatAvailabilityRS/Services/Service/ObjectKey (Attribute) | O | **Example:** Service1 |
| ServiceID |  | SeatAvailabilityRS/Services/Service/ServiceID | M | **Example:** SRVC-SEAT-PRICE-1-BA35 |
| Owner (Attribute) |  | SeatAvailabilityRS/Services/Service/ServiceID/Owner (Attribute) | M | Will always be “BA” |
| Name |  | SeatAvailabilityRS/Services/Service/Name | M | Seat category  **Example:** GeneralSideSeat |
| Encoding |  |  | M |  |
| RFIC |  |  | M | IATA defined Reason For Issuance Code |
| Code |  | SeatAvailabilityRS/Services/Service/Encoding/ RFIC/Code | M | Will always be “A”  Where A = Air Transportation |
| Code |  | SeatAvailabilityRS/Services/Service/Encoding/Code | M | Service code  “SEAT” |
| Descriptions |  |  | M |  |
| Description |  |  | M |  |
| Text |  | SeatAvailabilityRS/Services/Service/Descriptions/ Description/Text | O | Seat category  **Example:** GeneralSideSeat |
| Price |  |  | O |  |
| Total |  | SeatAvailabilityRS/Services/Service/Price/Total | M | Seat category price  **Example:** 15.00 |
| Code (Attribute) |  | SeatAvailabilityRS/Services/Service/Price/Total/ Code (Attribute) | O | Currency Code  **Example:** GBP |
| Associations |  |  | O |  |
| Traveler |  |  | O |  |
| AllTravelerInd |  | SeatAvailabilityRS/Services/Service/Associations/ Traveler/AllTravelerInd | M | Will always be “True” when the service is called during initial booking flow |
| TravelerReferences |  | SeatAvailabilityRS/Services/Service/Associations/ Traveler/TravelerReferences | M | References to passengers to whom the price is applicable  **Example:**  SH1 SH4 SH2 SH3 |
| Flight |  |  | O |  |
| SegmentReferences |  | SeatAvailabilityRS/Services/Service/Associations/ Flight/SegmentReferences | M | Reference to a flight for which the seat price is returned  **Example:** BA0428 |
| DataLists |  |  | O |  |
| AnonymousTravelerList |  |  | O | List of all passengers to whom the seat map is returned |
| AnonymousTraveler |  |  | M | This will be repeated for each anonymous passenger |
| ObjectKey (Attribute) |  | SeatAvailabilityRS/DataLists/AnonymousTravelerList/AnonymousTraveler/ObjectKey (Attribute) | O | **Example:** SH1 |
| PTC |  | SeatAvailabilityRS/DataLists/AnonymousTravelerList/AnonymousTraveler/PTC | O | Passenger type code of this passenger  **Example:** ADT |
| PassengerAssociation |  | SeatAvailabilityRS/DataLists/AnonymousTravelerList/AnonymousTraveler/PassengerAssociation | O | Infant association  **Example:** SH2 |
| RecognizedTravelerList |  |  | O | List of all passengers to whom the seat map is returned |
| RecognizedTraveler |  |  | M | This will be repeated for each known passenger |
| ObjectKey (Attribute) |  | SeatAvailabilityRS/DataLists/RecognizedTravelerList/RecognizedTraveler/ObjectKey (Attribute) | O | **Example:** SH2 |
| PTC |  | SeatAvailabilityRS/DataLists/RecognizedTravelerList/RecognizedTraveler/PTC | O | Passenger type code of this passenger  **Example:** ADT |
| PassengerAssociation |  | SeatAvailabilityRS/DataLists/RecognizedTravelerList/RecognizedTraveler/PassengerAssociation | O | Infant association  **Example:** SH2 |
| Name |  |  | M |  |
| Surname |  | SeatAvailabilityRS/DataLists/RecognizedTravelerList/RecognizedTraveler/Name/Surname | M | **Example:** SMITH |
| Given |  | SeatAvailabilityRS/DataLists/RecognizedTravelerList/RecognizedTraveler/Name/Given | O | **Example:** WILL |
| Title |  | SeatAvailabilityRS/DataLists/RecognizedTravelerList/RecognizedTraveler/Name/Title | O | **Example:** MR |
| Middle |  | SeatAvailabilityRS/DataLists/RecognizedTravelerList/RecognizedTraveler/Name/Middle | O | **Example:** G |
| FQTVs |  |  | O | Passenger’s frequent flyer information  This will be returned only if the FQTV passed in SeatAvailabilityRQ for this passenger is valid (service internally validates the FQTV) |
| AirlineID |  | SeatAvailabilityRS/DataLists/RecognizedTravelerList/RecognizedTraveler/FQTVs/AirlineID | M | Frequent flyer airline code  **Example:** BA |
| Account |  |  | O |  |
| Number |  | SeatAvailabilityRS/DataLists/RecognizedTravelerList/RecognizedTraveler/FQTVs/Account/Number | M | Frequent flyer number  **Example:** 12345678 |
| DataLists |  |  | O |  |
| DisclosureList |  |  | O | Seating policy link, Terms and conditions link and general seating rules are returned here |
| Disclosures |  |  | M | This is a list and will be repeated thrice; once for seating policy, once for terms and conditions and once for seating rules |
| ListKey (Attribute) |  | SeatAvailabilityRS/DataLists/DisclosureList/Disclosures/ListKey (Attribute) | M | **Example:** Seating-Rules |
| Description |  |  | M | This is a list and will be repeated for each seating rule/seating policy link/ terms and conditions link |
| Text |  | SeatAvailabilityRS/DataLists/DisclosureList/Disclosures/ Description/Text | O | Example:  Do not seat passengers without an accompanying infant in a bassinet seat |
| Media |  |  | O |  |
| MediaLink |  | SeatAvailabilityRS/DataLists/DisclosureList/Disclosures/ Description/Media/ MediaLink | M | Seating policy and Terms and conditions link is returned here |
| FlightSegmentList |  |  | O |  |
| FlightSegment |  |  | M | Flight segment details |
| SegmentKey (Attribute) |  | SeatAvailabilityRS/DataLists/FlightSegmentList/FlightSegment/SegmentKey (Attribute) | M | **Example:** BA0428 |
| Departure |  |  | M | Departure information |
| AirportCode |  | SeatAvailabilityRS/DataLists/FlightSegmentList/FlightSegment/Departure/AirportCode | M | Departure airport IATA code  **Example:** LHR |
| Date |  | SeatAvailabilityRS/DataLists/FlightSegmentList/FlightSegment/Departure/Date | M | Local Departure date i.e. local to the departure location  **Example:** 2015-07-01 |
| Time |  | SeatAvailabilityRS/DataLists/FlightSegmentList/FlightSegment/Departure/Time | O | Local Departure time i.e. local to the departure location  **Example:** 06:50 |
| Terminal |  |  | O | Departure terminal information |
| Name |  | SeatAvailabilityRQ/DataLists/FlightSegmentList/FlightSegment/Departure/Terminal/Name | O | **Example:** 2 |
| Arrival |  |  | M | Arrival information |
| AirportCode |  | SeatAvailabilityRS/DataLists/FlightSegmentList/FlightSegment/Arrival/AirportCode | M | Arrival airport IATA code  **Example:** AMS |
| Date |  | SeatAvailabilityRS/DataLists/FlightSegmentList/FlightSegment/Arrival/Date | O | Local Arrival date i.e. local to the arrival location  **Example:** 2015-07-01 |
| Time |  | SeatAvailabilityRQ/DataLists/FlightSegmentList/FlightSegment/Arrival/Time | O | Local Arrival time i.e. local to the arrival location  **Example:** 09:10 |
| Terminal |  |  | O | Arrival terminal information |
| Name |  | SeatAvailabilityRQ/DataLists/FlightSegmentList/FlightSegment/Arrival/Terminal/Name | O | **Example:** 3 |
| MarketingCarrier |  |  | M | Marketing carrier information |
| AirlineID |  | SeatAvailabilityRS/DataLists/FlightSegmentList/FlightSegment/MarketingCarrier/AirlineID | M | Marketing carrier code  **Example:** BA |
| FlightNumber |  | SeatAvailabilityRS/DataLists/FlightSegmentList/FlightSegment/MarketingCarrier/FlightNumber | M | Marketing flight number  **Example:** 0428 |
| OperatingCarrier |  |  | O | Operating carrier information |
| AirlineID |  | SeatAvailabilityRS/DataLists/FlightSegmentList/FlightSegment/OperatingCarrier/AirlineID | O | Operating carrier code  **Example:** AA |
| Name |  | SeatAvailabilityRS/DataLists/FlightSegmentList/FlightSegment/OperatingCarrier/Name | O | Operating carrier name  **Example:** British Airways |
| Equipment |  |  | O | Aircraft information |
| AircraftCode |  | SeatAvailabilityRS/DataLists/FlightSegmentList/FlightSegment/Equipment/AircraftCode | M | **Example:** 767 |
| ClassOfService |  |  | O |  |
| Code |  | SeatAvailabilityRS/DataLists/FlightSegmentList/FlightSegment/ClassOfService /Code | M | Selling or Booking class code  **Example:** W |
| MarketingName |  | SeatAvailabilityRS/DataLists/FlightSegmentList/FlightSegment/ClassOfService /MarketingName | O | Cabin name  **Example:** World Traveller |
| FlightDetail |  |  | O |  |
| Stops |  |  | O | Flight stop quantity |
| StopQuantity |  | SeatAvailabilityRS/DataLists/FlightSegmentList/FlightSegment/FlightDetail/ Stops/StopQuantity | O | Stop quantity  **Example:** 1 |
| SeatList |  |  | O | Seat details are returned in this section |
| Seats |  |  | M | This is a list and will be repeated for each seat |
| refs (Attribute) |  | SeatAvailabilityRS/DataLists/SeatList/Seats/refs(Attribute) | O | Reference to a service (price) that is applicable for this seat  **Example:** Service2 |
| ListKey (Attribute) |  | SeatAvailabilityRS/DataLists/SeatList/Seats/ListKey (Attribute) | M | An unique key (flight and seat number)  **Example:** BA1395B39 |
| Location |  |  | M | Seat location details |
| Column |  | SeatAvailabilityRS/DataLists/SeatList/Seats/Location/Column | O | Seat column  **Example:** B |
| Row |  |  | O | Seat row |
| Number |  | SeatAvailabilityRS/DataLists/SeatList/Seats/Location/Row/Number | O | Row number  **Example:** 39 |
| SeatData |  |  | O | This is where the emergency exit criteria (for emergency exit seat) is returned. This will be returned only for emergency exit seats. |
| Marketing |  |  | O |  |
| Remarks |  |  | O |  |
| Remark |  | SeatAvailabilityRS/DataLists/SeatList/Seats/Location/Row/SeatData/Marketing/Remarks/Remark | M | This is a list and will be repeated for each emergency exit criteria  **Example:**  be over the age of 12 years  be able bodied and fit enough to open and operate an emergency exit door |
| Characteristics |  |  | O | Seat characteristics |
| Characteristic |  |  | M | This is a list and will be repeated for each seat characteristic |
| Code |  | SeatAvailabilityRS/DataLists/SeatList/Seats/Location/Characteristics/Characteristic/Code | M | IATA Code from codeset 9825  **Example:** RS |
| Definition |  | SeatAvailabilityRS/DataLists/SeatList/Seats/Location/Characteristics/Characteristic/Definition | O | IATA definition from codeset 9825  **Example:** Right side of aircraft |
| Details |  | SeatAvailabilityRS/DataLists/SeatList/Seats/Details | O | The seat category this seat belongs to  **Example:** GeneralSideSeat |
| Metadata |  |  | O |  |
| Other |  |  | O |  |
| OtherMetadata |  |  | M |  |
| AddressMetadatas |  |  | M |  |
| AddressMetadata |  |  | M | Billing address information is returned here |
| MetadataKey (Attribute) |  | SeatAvailabilityRS/Metadata/Other/OtherMetadata/AddressMetadatas/AddressMetadata/MetadataKey (Attribute) | M | Unique key  **Example:** Address |
| AddressType |  | SeatAvailabilityRS/Metadata/Other/OtherMetadata/AddressMetadatas/AddressMetadata/AddressType | O | Will always be “Billing” |
| AddressFields |  |  | O | Returns mandatory address fields details that should be provided when payment card is used as form of payment in OrderChangeRQ |
| FieldName |  | SeatAvailabilityRS/Metadata/Other/OtherMetadata/AddressMetadatas/AddressMetadata/AddressFields/ FieldName | M | **Example:**  <AddressFields>  <FieldName Mandatory="true">AddressLine1</FieldName>  <FieldName Mandatory="true">AddressLine2</FieldName>  <FieldName Mandatory="true">PostalCode</FieldName>  <FieldName Mandatory="true">CountryCode</FieldName>  </AddressFields> |
| Mandatory (Attribute) |  | SeatAvailabilityRS/Metadata/Other/OtherMetadata/AddressMetadatas/AddressMetadata/AddressFields/ FieldName/Mandatory (Attribute) | M | Boolean and will always be returned as “True”.  This is because the service will only return mandatory address fields that should be provided when payment card is used as form of payment in OrderChangeRQ |
| CurrencyMetadatas |  |  | M |  |
| CurrencyMetadata |  |  | M | This is where the number of decimal that is applicable for the currency code is returned |
| MetadataKey (Attribute) |  | SeatAvailabilityRS/Metadata/Other/OtherMetadata/CurrencyMetadatas/CurrencyMetadata/MetadataKey (Attribute) | M | Unique key  **Example:** GBP |
| Decimals |  | SeatAvailabilityRS/Metadata/Other/OtherMetadata/CurrencyMetadatas/CurrencyMetadata/Decimals | O | Number of decimal applicable for the currency code returned in the response  **Example:** 2 |
| PaymentCardMetadatas |  |  | M |  |
| PaymentCardMetadata |  |  | M | Returns the list of applicable payment cards along with the mandatory card information and mandatory billing address information that should be passed when a payment card is selected for payment in OrderChangeQ  **Note:** If PaymentOptions not returned, it means card payment is not applicable for the agent’s location (point of sale) and the customer’s billing country |
| MetadataKey (Attribute) |  | SeatAvailabilityRS/Metadata/Other/OtherMetadata/ PaymentCardMetadatas/ PaymentCardMetadata/ MetadataKey (Attribute) | M | Unique key  **Example:** Payment1 |
| CardCode |  | SeatAvailabilityRS/Metadata/Other/OtherMetadata/ PaymentCardMetadatas/ PaymentCardMetadata/ CardCode | M | **Example:** VI |
| CardName |  | SeatAvailabilityRS/Metadata/Other/OtherMetadata/ PaymentCardMetadatas/ PaymentCardMetadata/ CardName | O | **Example:** Visa Credit |
| CardType |  | SeatAvailabilityRS/Metadata/Other/OtherMetadata/ PaymentCardMetadatas/ PaymentCardMetadata/ CardType | O | **Example:** Credit |
| CardFields |  |  | O | Returns the list of mandatory payment card details that should be specified when a card is selected for payment in OrderChangeRQ |
| FieldName |  | SeatAvailabilityRS/Metadata/Other/OtherMetadata/ PaymentCardMetadatas/ PaymentCardMetadata/ CardFields/FieldName | M | This is a list and is repeated to return all the mandatory card details  **Example:**  <FieldName Mandatory="TRUE">CardType</FieldName>  <FieldName Mandatory="TRUE">CardCode</FieldName>  <FieldName Mandatory="TRUE">CardName</FieldName>  <FieldName Mandatory="TRUE">CardNumber</FieldName>  <FieldName Mandatory="TRUE">CardHolderName</FieldName>  <FieldName Mandatory="TRUE">Expiration</FieldName>  <FieldName Mandatory="TRUE">SeriesCode</FieldName> |
| Mandatory (Attribute) |  | SeatAvailabilityRS/Metadata/Other/OtherMetadata/ PaymentCardMetadatas/ PaymentCardMetadata/ CardFields/FieldName/ Mandatory (Attribute) | M | Boolean and will always be returned as “True”.  This is because the service will only return mandatory card details that should be provided when payment card is used as form of payment to purchase ancillaries through OrderChangeRQ |
| Surcharge |  |  | O | Surcharge fee applicable for the payment card |
| Amount |  | SeatAvailabilityRS/Metadata/Other/OtherMetadata/ PaymentCardMetadatas/ PaymentCardMetadata/ Surcharge/Amount | M | Total surcharge amount for all passengers  **Example:** 20.00 |
| Code (Attribute) |  | SeatAvailabilityRS/Metadata/Other/OtherMetadata/ PaymentCardMetadatas/ PaymentCardMetadata/ Surcharge/Amount/Code (Attribute) | O | Currency Code  **Example:** GBP |
| Errors |  |  | M | Error information |
| Error |  | SeatAvailabilityRS/Errors/Error | M | This is a list so more than one error will be returned by repeating Error  BA error code and message  **Example:**  Unable to return seat map – Invalid flight details requested for one or more flights |
| ShortText (Attribute) |  | SeatAvailabilityRS/Errors/Error/ShortText | O | PADIS error code  **Example:** 467 |
| Code (Attribute) |  | SeatAvailabilityRS/Errors/Error/Code | O | PADIS error message  **Example:**  Flight segment not found in carrier’s PNR |

## URLs to access this web service

### Live URL

<https://api.ba.com/selling-distribution/SeatAvailability/V2>

***Note:*** *If you are operating on the earlier version of our APIs, the endpoint is*

*<https://api.ba.com/selling-distribution/SeatAvailability/V1>*

*Please note that this version does not support all the latest functionality and it uses IATA Schema 1.1.3*

### Test URL

<https://test.api.ba.com/selling-distribution/SeatAvailability/V2>

***Note:*** *If you are operating on the earlier version of our APIs, the endpoint is*

*[https:/test./api.ba.com/selling-distribution/SeatAvailability/V1](https://api.ba.com/selling-distribution/SeatAvailability/V1)*

*Please note that this version does not support all the latest functionality and it uses IATA Schema 1.1.3*

### Mandatory headers

In order to access our API, you will need to pass the following two headers for each call

**Client-key**: Your 24-bit API connection key

**SOAPAction:** SeatAvailabilityV01

## Sample SOAP NDC Request to access this web service









## Sample SOAP NDC Response







## Sample SOAP NDC Response with errors



## Sample SOAP Response with errors

Any schema validation error will be returned as SOAP Fault



# Frequently Asked Questions

## FAQs

**Q: Can I change the 24-bit connection key provided by British Airways developer website?**

**A:** No, these keys are issued using a secured algorithm and cannot be modified. However if you feel that your key has been compromised, we can block the existing one and issue a new one for you.

**Q: Do I need to advise British Airways of any IP changes?**

A: No, the API endpoints are not dependent on your IP and therefore you do not need to let us know of any change on your end.

**Q: Can I modify the username used for the Developer website?**

**A:** Yes, you would need to register with a new name, and let your usual BA contact know so that your accesses can be transferred from your previous account to the new one.

# Usability Guide

## Usage advice

**SeatAvailability Service**

1. SeatAvailability service should be called to get the seat map and the full seat price details.
2. The service returns prices in the currency of the agent’s country.
3. The service returns one seat map per flight on the requested cabin and it returns only the unoccupied seats along with seat display details such as the column details, row start and end position for each column, seat (Aisle seat, Rear facing etc) and non-seat characteristics (Galley, Lavatory etc).
4. If emergency exit seat is selected the service assumes that the client has accepted the terms and conditions to sit in an emergency exit seat. Those terms and conditions can be reviewed through the link provided in the API response.
5. Once the seat is selected OrderCreate should be called to book the seats along with flights.
6. The service returns seat prices taking into account customer’s FQTV details and agent’s corporate discount code (BACCI code).
7. The service returns a warning message, if seat map is not returned for some of the requested flights. Example: Seat map is requested for BA117 and BA1516, but seat map is returned only for BA117 then response will contain warning message saying seat map is not returned for BA1516.
8. The service returns BA seating policy and Terms and conditions link in the response
9. If only OrderID is specified in the request, the service returns priced seat map(s) for all flights in the booking, if applicable. This is a post-sale behaviour only.
10. Along with OrderID client may also request specific flights in the booking – service will return priced seat map(s) only for the requested flights in this case. The flight details specified in the request must match with the details present in the booking otherwise error will be returned. This is a post-sale behaviour only.
11. The service checks if the agent requesting the seat map is the one who has created the booking and is accessing the API via the same channel as booking creation. It returns error if the agent details do not match.
12. The service will not accept FQTV details in the SeatAvailability RQ post-sale scenario. It returns seat price based on FQTV details already present in the booking. Please note that it is possible to add FQTV details post-sale independently, and call SeatAvailability afterwards.
13. If a customer has already purchased a seat then the seat price returned will be a differential amount for each seat category. **Example:** If a customer has already paid £20 for a general seat then in the response general seat price will be returned as £0.00 ,but for example, Twin seat price will be returned as £10 (Actual cost of a Twin seat is £30, but since the customer has already paid £20 only the differential amount will be returned). This is a post-sale behaviour only.
14. The service returns payment options – list of applicable cards that should be used to purchase seats via OrderChange service. Please note that payment options will be returned only when SeatAvailability service is called in post-sale scenario, since the payment options are returned in Flight Price service in booking flow.
15. In Post-Sale scenario - Once the seat is selected OrderChange should be called to book or change seats.
16. For a held booking, the service returns Seat Map if only free seats are available. This is because paid seats can’t be booked once held booking is created.

**General**

1. The service returns prices in exact decimal value based on the currency (e.g. GBP will be returned at 2 decimals, while JPY will be returned at integer level only).
2. The service checks if the agent calling the service has the right to create BA bookings. If the agent does not have such authority then the service will not proceed and will return an error.
3. The service checks if the requesting Travel Management Company (TMC) is allowed to service the corporate and returns error if it is not allowed.
4. The service returns responses in the agent’s preferred language. If the agent’s preferred language is not supported by BA or the agent’s preferred language is not passed in the request then the default language will be used, which is English. Please see section 7 for the languages that are supported by BA.

# Appendix 1 –Web Services error responses

## SeatAvailability error/ineligibility checks

|  |  |
| --- | --- |
| PADIS Error Code | PADIS Error Text |
| 102 | Unable to process |
| 304 | System Temporarily unavailable |
| 100 | Seat map not available, request seat at check-in |
| 200 | FQTV number not accepted |
| 129 | No PNR Match Found |
| 375 | Requestor not authorized for this function for this PNR |
| 467 | Flight segment not found in carrier's PNR |
| 208 | Advance Seat Selection Not Available, Flight Already Departed |
| 202 | Advance Seat Selection Not Available for this Carrier |
| 461 | Ineligible for Requested Action -Group PNR not allowed |
| 201 | Advance Seat Selection Not Available for this Class/Compartment/Zone |

# Appendix 2 – Languages supported by BA

BA supports the below 11 languages

|  |  |
| --- | --- |
| Language Code | Language |
| EN | English |
| ES | Spanish |
| JA | Japanese |
| FR | French |
| IT | Italian |
| ZH | Chinese |
| DE | German |
| PT | Portuguese |
| RU | Russian |
| PL | Polish |
| SV | Swedish |