

Flight Gateway Web Service Developer's Guide  
Fare Buzz, Inc

# Flight Gateway Web Service

## Developer's Guide

Version 2.0

February 2008

**Fare Buzz, Inc.**  
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# 1. Introduction

**Documentation Version: 2.0**

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**Written by: Serge Agroskin**

## 1.1 Introduction

The Fare Buzz Flight Gateway Web Service provides the client access to published and consolidator fares to anywhere in the world. Using the Flight Gateway the customer or agent can search for and book any fares that are available to Fare Buzz without leaving the clients website.

This documentation will provide the developer the details required to integrate the Flight Gateway with the clients booking system.

## 1.2 Account Setup

The account setup will be completed within 1-2 business days of the request.

## 1.3 Example Application/Code

The example application with all source code (.NET C#) will be provided for client use only. The client may use the application or source code to help in the development of their own website or application. The application and source code are provided without any warranty. Fare Buzz is not responsible for any issues or errors caused by using the application or source code.

To download please go to:

<https://ws.farebuzz.com/Resources/>

## 1.3 Development Time

The time to complete development will depend on the complexity of the client's website, developer experience, and development team size. The development time can range from 2 to 8 weeks in average cases.

## 1.4 Certification

Certification is required to make sure that Flight Gateway was integrated successfully and no issues come up during production. Until certification is complete, the client will only be able to do test bookings. The certification requirements can be download at :

<https://ws.farebuzz.com/Resources/>

### **1.5 Production Access**

Once certification is complete, production access will be enable for the account. All service and cancellation fees will apply to any bookings made on the production URL.

### **1.6 Support**

Support team can be contacted at [webservices@farebuzz.com](mailto:webservices@farebuzz.com). A member of the Fare Buzz technology support team will respond within 2 business days. In cases of any planned downtime for upgrades or maintenance, the users will be notified at least 2 days prior to the downtime. The length of downtime will be kept to a minimum. Planned downtime will be done only when required. In rare cases there may be unplanned downtime, in such situations users will be notified as soon as possible.

## **2. Copyright**

This document is for information purposes only and its content does not represent a contract in any form. The document may only be used upon a signed contract between the client and Fare Buzz. Fare Buzz expressly disclaims, and you expressly waive, any and all warranties. Fare Buzz reserves the right to alter product specifications without notice. No part of this publication may be reproduced or transmitted in electronic or mechanical form, including photocopy, recording, or any information storage or retrieval system, without the written permission of Fare Buzz, Inc.

## 3. Gateway Overview

### 3.1 Overview

**Gateway Version: 2.0**

**Release Date: February 2008**

**Project Manager: Serge Agroskin**

### 3.2 Connecting to Gateway

Connection to the web service must be done through SSL (Secure Socket Layer) using the links below. This is required to protect user confidentiality such as credit card and personal data. Fare Buzz will not be held responsible for loss of credit card or personal data by the client.

**Test URL:** <https://ws.farebuzz.com/test/FlightGateway.asmx>

**Test WSDL URL:** <https://ws.farebuzz.com/test/FlightGateway.asmx?WSDL>

**Production URL:** <https://ws.farebuzz.com/FlightGateway.asmx>

**Production WSDL URL:** <https://ws.farebuzz.com/FlightGateway.asmx?WSDL>

### 3.3 Authentication

Authentication is performed on every method call by passing the username and password in the SoapHeader. The username and password can be set in the FlightGateway GatewaySoapAuthenticationValue property.

## 4. Method References

### 4.1 SearchFlights

The SearchFlights method allows the client to search for all the available flights based on the search parameters requested. The search session is valid for 40 minutes, thus the booking request for any flights in this search must be done within 40 minutes of the search.

There is no set limit to the number of flights that will be returned. The results are based on the availability.

Excessive calling of SearchFlights method may result in billing charges. Please review the contract and terms of conditions for more information.

Please reference the following objects for this method:

FlightSearchRequest ( <b>Request Object</b> )
FlightSearchResponse ( <b>Return Value</b> )
TripType
FlightClass
FlightItinerary

### 4.2 BookFlight

The BookFlight method allows the client to send a booking request after a flight is selected from one of the available flights. The required client markup must be in the booking request. The booking request information will be validated and any validation errors will be returned. The total price in the booking request must match the actual total price. The credit card verified by our payment gateway. Once the information is validated, the booking will be created and the booking confirmation details returned. After the booking is created, the booking goes through several steps including fraud verification, ticketing, charging of the credit card, and finalizing the booking.

If no response is returned after calling the BookFlight method, please do not call the method a second time before checking if the original book request was completed. This is to prevent duplicate bookings and can be checked using the GetLastBookingRequest method.

Please reference the following objects for this method:

FlightBookRequest ( <b>Request Object</b> )
FlightBookResponse ( <b>Return Value</b> )
PassengerDetails
CreditCardDetails
AddressDetails
AgencyMarkupDetails

#### 4.3 CancelFlight

The CancelFlight method allows you to cancel a booking that was previously made. The refund amount depends on if the booking was already ticketed minus any service and cancellation fees. To cancel a booking only the Booking Number is required.

Please reference the following objects for this method:

FlightCancelRequest ( <b>Request Object</b> )
FlightCancelResponse ( <b>Return Value</b> )

#### 4.4 GetBookingDetails

The GetBookingDetails method returns all the current details and status for the booking based on the requested Booking Number. This should be used to retrieve ticket numbers and booking details.

Please reference the following objects for this method:

BookingDetailsRequest ( <b>Request Object</b> )
BookingDetailsResponse ( <b>Return Value</b> )
BookingStatusType
PassengerDetails

#### 4.5 GetLastBookingRequest

The GetLastBookingRequest method returns the BookingResponse from the search session requested. This method is for cases where the client needs to check if the booking request went through. The BookingResponse will only be returned if the Flight Gateway received the request and the BookFlight method finished.

Please reference the following objects for this method:



SearchSessionKey ( <b>Request Object</b> )
FlightBookResponse ( <b>Return Value</b> )

#### 4.6 GetInsuranceCost

The GetInsuranceCost method returns the total insurance fee for the requested total booking amount. This fee must be added to the InsuranceFee field in the booking request if the customer requested booking insurance.

Please reference the following objects for this method:

InsuranceCostRequest ( <b>Request Object</b> )
InsuranceCostResponse ( <b>Return Value</b> )

## 5. Object References

### 5.1 FlightSearchRequest Properties

Property Name	Description	Validation	Required (Y/N/C)
TypeOfTrip	<b>TripType Enum</b>		<b>Y</b>
FromCity	<b>String</b> The From Airport/City Code.	= 3 Characters	<b>Y</b>
ToCity	<b>String</b> The To Airport/City Code.	= 3 Characters	<b>Y</b>
ReturnFromCity	<b>String</b> The Return From Airport/City Code.	= 3 Characters = ToCity when ROUNDTRIP	<b>C</b> Required For TypeOfTrip ROUNDTRIP or OPENJAW
ReturnToCity	<b>String</b> The Return To Airport/City Code.	= 3 Characters	<b>C</b> Required For TypeOfTrip ROUNDTRIP or OPENJAW
DepartureDate	<b>DateTime</b> The date of departure. Only date, month, and year are required.	< Today + 11 months > Today	<b>Y</b>
ReturnDate	<b>DateTime</b> The date of return. Only date, month, and year are required.	< Today + 11 months > DepartureDate > Today	<b>C</b> Required For TypeOfTrip ROUNDTRIP or OPENJAW
NumberOfAdults	<b>Integer</b> The number of Adults to search	> 0 < 7	<b>Y</b>

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NumberOfChildren	<b>Integer</b> The number of Children to search	> 0 < 7	Y
NumberOfInfantsInLap	<b>Integer</b> The number of Lap Infants to search	> 0 < 7	Y
NumberOfInfantsOnSeat	<b>Integer</b> The number of Seat Infants to search	> 0 < 7	Y
NumberOfSeniors	<b>Integer</b> The number of Seniors Infants to search	> 0 < 7	Y
AirlinePreference	<b>String</b> Search will be made with this airline as priority.	Comma separated values of airline codes. Example "DL,AA,US"	N
ClassOfService	<b>FlightClass Enum</b> Type of service class to search for.		Y
IsNonStop	<b>Boolean</b> Set to true if a nonstop flight is required, false if no preference.		Y

### 5.2 FlightSearchResponse Properties

Property Name	Description	Validation	Required (Y/N/C)
FlightItineraryList	<b>List&lt;FlightItinerary&gt;</b> List of available flights. Could be empty if none available.		Y
FlightSearchRequest	<b>FlightSearchRequest</b> Original Flight Search Request		Y
SearchSessionKey	<b>String</b> Unique Search Session Key. This search key is valid for 40 minutes of the search request. Booking request must be sent within this time limit.		Y

### 5.3 FlightBookRequest Properties

Property Name	Description	Validation	Required (Y/N/C)
SearchSessionKey	<b>String</b> The search session key is required to load the correct flight itinerary to book.	= Original Search Session Key	Y
ContractID	<b>Integer</b> The contract ID of the flight		Y

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	itinerary to book.		
Passengers	<b>List&lt;PassengerDetails&gt;</b> The list of passenger details for each requested passenger in the booking.	At least 1 Passenger. Must match the number of passengers in the search. No duplicate names, all passenger names must be unique.	<b>Y</b>
AgencyMarkupDetails	<b>AgencyMarkupDetails</b> The client markup that will be added to the booking.		<b>Y</b>
CreditCard	<b>CreditCardDetails</b> The credit card details that will be used to charge the booking amount.		<b>Y</b>
BillingDetails	<b>AddressDetails</b> The billing details of the account holder of the Credit Card.		<b>Y</b>
ShippingDetails	<b>AddressDetails</b> The shipping details for shipment of paper ticket.		<b>C</b> Required only for paper tickets
ContactPhoneNumber	<b>String</b> The primary contact number in case of any booking issues.	> 9 Characters	<b>Y</b>
SpecialRequests	<b>String</b> Any special requests for the booking. A request is not guaranteed.		<b>N</b>

### 5.4 FlightBookResponse Properties

Property Name	Description	Validation	Required (Y/N/C)
BookingNumber	<b>Integer</b> Unique booking number required to reference this booking.		<b>C</b>
PNR	<b>String</b> The record locator for this booking.		<b>C</b>
Confirmed	<b>Boolean</b> Returned true if booking has been made successfully. False if there was a booking issue.		<b>Y</b>
Message	<b>String</b> Message will provide extra information about booking status.		<b>Y</b>
TotalAmount	<b>Float</b> The total amount of the booking		<b>C</b>

	that will be charged.		
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### 5.5 FlightCancelRequest Properties

Property Name	Description	Validation	Required (Y/N/C)
BookingNumber	<b>Integer</b> The booking number to cancel.	> 0	Y

### 5.6 FlightCancelResponse Properties

Property Name	Description	Validation	Required (Y/N/C)
FlightCancelRequest	<b>FlightCancelRequest</b> The original cancellation request.		Y
Confirmed	<b>Boolean</b> Returned true if booking has been cancelled successfully.		Y
Message	<b>String</b> Message will provide extra information about cancellation.		Y

### 5.7 BookingDetailsRequest Properties

Property Name	Description	Validation	Required (Y/N/C)
BookingNumber	<b>Integer</b> The booking number to get booking details for.	> 0	Y

### 5.8 BookingDetailsResponse Properties

Property Name	Description	Validation	Required (Y/N/C)
BookingNumber	<b>Integer</b> Booking number.		Y
PNR	<b>String</b> The record locator.		Y
BookingStatus	<b>BookingStatusType Enum</b> The current status of this booking.		Y
BookedOn	<b>DateTime</b> The date and time the booking was made on.		Y

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TicketExpireTime	<b>DateTime</b> The time limit by which the tickets must be issued to not lose this fare. In case of payment issues, the client can lose the booking request if not resolved by this time.		<b>N</b>
TicketedOn	<b>DateTime</b> The date and time of when the fare was ticketed.		<b>N</b>
Passengers	<b>List&lt;PassengerDetails&gt;</b> The list of passengers for this booking including any ticket numbers that have been issued.		<b>Y</b>
TotalAmount	<b>Float</b> The total amount for this booking.		<b>Y</b>
PaidAmount	<b>Float</b> The amount that has been paid.		<b>Y</b>

### 5.9 AddressDetails Properties

Property Name	Description	Validation	Required (Y/N/C)
FirstName	<b>String</b>	> 2 Characters	<b>Y</b>
MiddleInitial	<b>String</b>	= 1 Character	<b>N</b>
LastName	<b>String</b>	> 2 Characters	<b>Y</b>
Email	<b>String</b>	> 5 Characters	<b>Y</b>
Phone	<b>String</b>	> 8 Characters	<b>Y</b>
AddressLine1	<b>String</b>	> 5 Characters	<b>Y</b>
AddressLine2	<b>String</b>		<b>N</b>
City	<b>String</b>	> 3 Characters	<b>Y</b>
State	<b>String</b>	> 1 Characters	<b>Y</b>
Zip	<b>String</b>	> 4 Characters	<b>Y</b>
Country	<b>String</b>	> 1 Characters	<b>Y</b>

## 5.10 CreditCardDetails Properties

Property Name	Description	Validation	Required (Y/N/C)
CardType	<b>CCType Enum</b> The type of credit card.		Y
CardNumber	<b>String</b> The credit card number with no spaces or dashes.	> 11 Character	Y
AccountCCV	<b>String</b> The credit card verification number that is found on back of card.	> 2 Characters	Y
ExpirationDate	<b>DateTime</b> The expiration date, only month and year is required.	> Today	Y
IPAddress	<b>String</b> The IP address of the user entering the credit card. This is required for fraud prevention.	> 5 Characters	Y

## 5.11 FlightItinerary Properties

Property Name	Description	Validation	Required (Y/N/C)
SearchSessionKey	<b>String</b> The search session key for this search.		Y
ContractID	<b>Integer</b> The contract ID is unique only to this search session. The combination of the search session key and contract ID will allow you to book this itinerary.		Y
IsETicket	<b>Boolean</b> Determines if the fare is Electronic Ticket or Paper Ticket.		Y
AirlineCode	<b>String</b> The primary airline code for this itinerary.		Y
AirlineName	<b>String</b> The primary airline name for this itinerary.		Y
ClassOfService	<b>String</b> The class of service for this itinerary.		Y
FromCity	<b>String</b>		Y

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ToCity	<b>String</b>		<b>Y</b>
IsDomestic	<b>Boolean</b> Determines if the itinerary is Domestic or International.		<b>Y</b>
NumberOfStops	<b>Integer</b> The number of stops for this itinerary.		<b>Y</b>
PriceDetails	<b>FlightPriceDetails</b> The price details for this itinerary.		<b>Y</b>
FlightSegmentList	<b>List&lt;FlightSegment&gt;</b> All the flight segments in this itinerary.		<b>Y</b>

### 5.12 FlightPriceDetails Properties

Property Name	Description	Validation	Required (Y/N/C)
CurrencyCode	<b>String</b> The currency code the prices are in.		<b>Y</b>
AdultBaseFare	<b>Float</b> The base fare for each adult.		<b>Y</b>
SeniorBaseFare	<b>Float</b> The base fare for each senior.		<b>Y</b>
ChildBaseFare	<b>Float</b> The base fare for each child.		<b>Y</b>
InfantOnSeatBaseFare	<b>Float</b> The base fare for each seat infant.		<b>Y</b>
InfantInLapBaseFare	<b>Float</b> The base fare for each lap infant.		<b>Y</b>
AdultTaxAndFees	<b>Float</b> The taxes and fees for each adult.		<b>Y</b>
SeniorTaxAndFees	<b>Float</b> The taxes and fees for each senior.		<b>Y</b>
ChildTaxAndFees	<b>Float</b> The taxes and fees for each child.		<b>Y</b>
InfantOnSeatTaxAndFees	<b>Float</b> The taxes and fees for each seat infant.		<b>Y</b>
InfantInLapTaxAndFees	<b>Float</b> The taxes and fees for each lap infant.		<b>Y</b>
AdultMarkup	<b>Float</b> The default adult markup loaded from your client agency account.		<b>Y</b>

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	If this markup will be used it must be passed to FlightBookRequest.		
SeniorMarkup	<b>Float</b> The default adult markup loaded from your client agency account. If this markup will be used it must be passed to FlightBookRequest.		<b>Y</b>
ChildMarkup	<b>Float</b> The default child markup loaded from your client agency account. If this markup will be used it must be passed to FlightBookRequest.		<b>Y</b>
InfantOnSeatMarkup	<b>Float</b> The default seat infant markup loaded from your client agency account. If this markup will be used it must be passed to FlightBookRequest.		<b>Y</b>
InfantInLapMarkup	<b>Float</b> The default lap infant markup loaded from your client agency account. If this markup will be used it must be passed to FlightBookRequest.		<b>Y</b>
BaseTotal	<b>Float</b> The total of all passenger base fares multiplied by number of each passenger.		<b>Y</b>
MarkupTotal	<b>Float</b> The total of all passenger markups multiplied by number of each passenger.		<b>Y</b>
TaxAndFees	<b>Float</b> The total of all passenger taxes and fees multiplied by number of each passenger.		<b>Y</b>
ShippingFee	<b>Float</b> The total shipping fee. The fee will be \$0 if electronic ticket.		<b>Y</b>
Total	<b>Float</b> The final total.		<b>Y</b>



### 5.13 FlightSegment Properties

Property Name	Description	Validation	Required (Y/N/C)
FlightNumber	<b>String</b> The flight number for this segment.		Y
DepartureDateTime	<b>DateTime</b> The departure date and time for this segment.		Y
ArrivalDateTime	<b>DateTime</b> The arrival date and time for this segment.		Y
FlightDuration	<b>String</b> The duration of this segment.		Y
NumberOfStops	<b>Integer</b> The number of stops in this segment.		Y
StopAirport	<b>String</b> The stop airport if this is not a direct flight.		C
AirlineName	<b>String</b> The specific airline name for this flight segment.		Y
SourceCity	<b>String</b> The source city for this segment.		Y
DestinationCity	<b>String</b> The destination city for this segment.		Y
FlightEquipment	<b>String</b> The type of flight equipment for this segment.		Y
FlightCabin	<b>String</b> The flight cabin type of this segment.		Y
ClassOfFlight	<b>String</b> The class of this segment.		Y
OperatedBy	<b>String</b> The primary airline.		Y
BoundType	<b>String</b> The bound type describes if it's an outbound (OUTBOUN) or inbound (INBOUND) segment.		Y
SegmentOrderID	<b>Integer</b> The unique ID of each segment. The segments should be displayed in order based on this ID.		Y
TripID	<b>Integer</b> The trip to which a segment belongs. Multiple segments can		Y

	be a part of one trip.		
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### 5.14 PassengerDetails Properties

Property Name	Description	Validation	Required (Y/N/C)
PassengerID	<b>Integer</b> The unique ID for each passenger.		<b>Y</b>
Title	<b>String</b> The title for this passenger. Example "Mr" "Mrs" "Dr"	< 3 Characters	<b>Y</b>
FirstName	<b>String</b> The first name of this passenger. Must match the passengers Passport.	> 2 Characters	<b>Y</b>
LastName	<b>String</b> The last name of this passenger. Must match the passengers Passport.	> 2 Characters	<b>Y</b>
MiddleInitial	<b>String</b> The middle initial of this passenger. Must match the passengers Passport.	< 2 Characters Can be empty	<b>Y</b>
FreqFlyerNumber	<b>String</b> The frequent flyer number of this passenger if available.		<b>N</b>
SpecialRequests	<b>String</b> Any special requests for this passenger.		<b>N</b>
PassengerType	<b>PaxType</b> The passenger type.		<b>Y</b>
BirthDate	<b>DateTime</b> The birth date of this passenger. Only date, month, and year are required.	> Today and must pass PaxType Validation	<b>Y</b>
AssociatedAdultID	<b>Integer</b> The adult which the lap infant is associated with.	Must match the PassengerID of a unique Adult in the Flight	<b>C</b> Required For PaxType INFANTINLAP
TicketNumber	<b>String</b> Ticket Number is assigned after booking and can be retrieved by calling GetBookingDetails method.		<b>N</b>

### 5.15 PaxType Enum Properties

Property Name	Description	Validation	Required (Y/N/C)
ADULT	Enum		
CHILD	Enum	> 2 Years Old and < 11 Years Old at Arrival Date	
SENIOR	Enum	> 65 Years Old at Departure Date	
INFANTONSEAT	Enum	< 2 Years Old at Arrival Date	
INFANTINLAP	Enum	< 2 Years Old at Arrival Date	

### 5.16 CCType Enum Properties

Property Name	Description	Validation	Required (Y/N/C)
VI	Enum Visa		
CA	Enum MasterCard		
AX	Enum American Express		
DC	Enum Diners Club		
DS	Enum Discover		
CB	Enum Carte Blanche		

### 5.17 TripType Enum Properties

Property Name	Description	Validation	Required (Y/N/C)
ONEWAY	Enum One way trip has no return flight.		
ROUNDTRIP	Enum Roundtrip has both outbound and return flights.		
OPENJAW	Enum Openjaw is the same as roundtrip but with different ToCity and ReturnFromCity.		

MULTICITY	<b>Enum</b> Multicity search is not implemented for current web service version.	<b>Not Valid</b>	
NONE	<b>Enum</b> None is a placeholder type.	<b>Not Valid</b>	

### 5.18 FlightClass Enum Properties

Property Name	Description	Validation	Required (Y/N/C)
ECONOMY	<b>Enum</b> Economy class.		
BUSINESS	<b>Enum</b> Business class.		
FIRST	<b>Enum</b> First class.		

### 5.19 BookingStatusType Enum Properties

Property Name	Description	Validation	Required (Y/N/C)
PaymentPending	<b>Enum</b> The booking has been made and awaiting payment to be completed.		
TimeLimitExpired	<b>Enum</b> The ticketing time limit has expired.		
PaymentReceived	<b>Enum</b> The payment has been completed. Tickets will be issued shortly.		
Cancelled	<b>Enum</b> The booking has been cancelled prior to tickets being issued.		
AutoTicketed	<b>Enum</b> The booking has been automatically ticketed by the system.		
Ticketed	<b>Enum</b> The booking has been manually ticketed.		
Void	<b>Enum</b> The booking has been voided after tickets were issued.		

## 5.20 AgencyMarkupDetails Properties

Property Name	Description	Validation	Required (Y/N/C)
AdultMarkup	<b>Float</b> The markup to add to the net rate for each adult.	Positive value	Y
ChildMarkup	<b>Float</b> The markup to add to the net rate for each adult.	Positive value	Y
SeniorMarkup	<b>Float</b> The markup to add to the net rate for each adult.	Positive value	Y
InfantInLapMarkup	<b>Float</b> The markup to add to the net rate for each adult.	Positive value	Y
InfantOnSeatMarkup	<b>Float</b> The markup to add to the net rate for each adult.	Positive value	Y
InsuranceFee	<b>Float</b> The insurance fee for the booking.	Positive value Must be the correct insurance cost for this booking.	Y
Total	<b>Float</b> The total amount of the booking.	Positive value Must match the exact total of contract cost + insurance + shipping fee + agency markup	Y

## 5.21 InsuranceCostRequest Properties

Property Name	Description	Validation	Required (Y/N/C)
AdultTotal	<b>Float</b> The total fare for each adult.	Positive value	Y
ChildTotal	<b>Float</b> The total fare for each child.	Positive value	Y
SeniorTotal	<b>Float</b> The total fare for each senior.	Positive value	Y
InfantOnSeatTotal	<b>Float</b> The total fare for each seat infant.	Positive value	Y
InfantInLapTotal	<b>Float</b> The total fare for each lap infant.	Positive value	Y
AdultCount	<b>Int</b> The total count of adults.	Positive value	Y
ChildCount	<b>Int</b> The total count of children.	Positive value	Y
SeniorCount	<b>Int</b> The total count of seniors.	Positive value	Y

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InfantOnSeatCount	<b>Int</b> The total count of seat infants.	Positive value	<b>Y</b>
InfantInLapCount	<b>Int</b> The total count of lap infants.	Positive value	<b>Y</b>

### 5.22 InsuranceCostResponse Properties

Property Name	Description	Validation	Required (Y/N/C)
InsuranceCost	<b>Float</b>		<b>Y</b>