# **Cabmate** Internet Booking System (IBSCab) **Web Service**

**Developer Documentation** 

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# 2 Introduction

Welcome to the Mobile Knowledge Systems Inc's IBS (Internet Booking Service) Web Services Developer Document. This section includes all documentation and guides to develop IBS client applications. This document presents information on all versions of IBS

IBS is a web service that presents a SOAP interface to the internet for use by 3rd party web applications. Using this interface, client application can create/modify user account and book or modify a trip through XDS host system via the web interface.



# 3 IBS FUNCTIONALITY

The IBS functionality is implemented as a Web Service application. These are web interfaces implemented in IBS:

Interface	Description
<u>IStaticData</u>	Provide access to "static" data (this data does not get changed very frequently, e.g. Vehicle types, pickup cities, drop-off cities)
	These data loaded at startup and gets from memory for quick access.
IWebAccount	Provide access to user account information: creating new accounts, modify existing, setting user favorite addresses for accounts, etc.
	Interfaces are inheritable (backwards compatible)
<u>IWEBOrder</u>	Provide access to trip information. For example: creating a new trip, modifying an existing trip, canceling a trip, etc.
	Interfaces are inheritable (backwards compatible)



#### 3.1 IStaticData

This interface returns static data; static data is data that will not change during live operation of IBS. These methods uses data loaded at moment of the IBS startup. To refresh the static data IBS (IIS) need to be restarted. If an interface method does not find any result (or is unsuccessful in the attempt) - a return code of -1 will be returned to the initiating interface.

#### 3.1.1 Methods list

Method	Return	Description	Version
<u>CheckServiceStatus</u>	String	Not implemented yet	All
<u>GetChargeTypes</u>	TChargeTypeArray	Return the list of payment types	All
GetCompanyZoneByGPS	String	Return zone name for specific company/fleet by GPS coordinates	All
<u>GetProviders</u>	<u>TProviderArray</u>	Return the list of providers	All
<u>GetVehicleTypes</u>	TVehicleTypeArray	Return the list of vehicle types	All
GetVersion	String	Return IBS version data	All
<u>GetZoneByGPS</u>	String	Return zone name by GPS coordinates for default company	All

#### 3.1.2 CheckServiceStatus

# **Method signature**

#### Other parameters

None

# Return value

Returns ??

#### Remarks

Returns current sevice status

#### **Examples**

# Requirements

# 3.1.3 GetChargeTypes

# **Method signature**

#### Other parameters

None

#### Return value

Returns the list of payment types

#### Remarks

Returns empty set if data not found

# **Examples**

#### Requirements

# 3.1.4 GetCompanyZoneByGPS

# **Method signature**

```
function GetCompanyZoneByGPS(

Login: string,

Password: string,

CompanyID: integer,

Lat: double

Lon: double

): string;
```

# Other parameters

Lon/Lat - GPS coordinates of location

#### Return value

Returns value is a zone name. If zone isn't found, the empty string will be returned

#### Remarks

None

#### **Examples**

# Requirements

#### 3.1.5 GetProviders

# **Method signature**

```
function GetProviders(

<u>Login</u>: string,

<u>Password</u>: string
): <u>TProviderArray</u>;
```

# Other parameters

None

#### Return value

Returns the list of providers (taxi companies)

#### Remarks

None

#### **Examples**

# Requirements

# 3.1.6 GetVehicleTypes

# **Method signature**

#### Other parameters

None

#### Return value

Returns the list of available vehicle types

#### Remarks

None.

# **Examples**

#### Requirements

#### 3.1.7 GetVersion

# **Method signature**

```
function GetVersion(
): string;
```

## Other parameters

None

#### Return value

Returns text data about DB and DLL version. The format can be changed in new versions

#### Remarks

None.

## **Examples**

#### Requirements

Interface: IStaticData

DLL version: b25 and above

# 3.1.8 GetZoneByGPS

# **Method signature**

```
function GetZoneByGPS(

Login: string,

Password: string,

Lat, Lon: double
): string;
```

#### Other parameters

Lon/Lat - location coordinates

#### Return value

Returns value is a zone name. If zone isn't found, the empty string will be returned

#### Remarks

Deprecated. Use GetCompanyZoneByGPS with default provider.

# **Examples**

# Requirements



# 3.2 IWebAccount3

Provide access to user account information.

# 3.2.1 Methods list

Method	Return	Description	Version
SaveAccount3	Integer	Create or save account	All

#### 3.2.2 SaveAccount3

# **Method signature**

#### Other parameters

Account – Account data in TBookAccount3 structure.

#### Return value

```
Returns - if user account saved successfully - Account ID (positive value) or negative error code:
- ??
```

#### Remarks

Allows saving and updating an account data.

# **Examples**

# Requirements

Interface: <a href="MebAccount3">IWebAccount3</a>

DLL version: All



# 3.3 IWEBOrder\_7 interface

The IWEBOrder interface is a Service that can be used for creating and modifying web based trip orders in associated host system. Interfaces provide access to trip information. Each interface inherits the functionality of its parent.

#### Methods list

Method	Description	Version
CancelBookOrder 2	Cancel booked order	All
<u>EstimateDistance</u>	Calculating the cost for distance	b44
EstimateFare 9	Calculating the cost of a trip	b33
GetAvailableVehicles 4	Return the list of available vehicles	All
GetBookOrder 7	Returns the order/trip information.	All
GetDriverLocation	Return current GPS coordinates of driver	All
GetOrdersStatus 4	Returns info for multiple orders	b37
GetOrderStatus 2	Return the status of an order/trip	All
<u>GetVehicleCandidates</u>	Returns a list of vehicle candidates for order	b46
GetVehicleLocation	Returns the longitude and latitude of a dispatched vehicle.	
RideCurrentFare	Returned currend cost for ride	
SaveBookOrder 12	Save an order/trip	
SaveExtrPayment	Save payment info	
SaveExtrPayment 2	Save payment info	
<u>SendDriverMsg</u>	Send message to a driver	
SendP2DCall	Passanger to driver call	b46
<u>UpdateJobPaymentType</u>	Set new payment method	b27
<u>UpdateJobToVehicle</u>	Assign a job to order	b45

#### 3.3.1 CancelBookOrder\_2

# **Method signature**

```
function CancelBookOrder_2(

Login: string,

Password: string,

OrderID: integer,

ContactPhone: string,

CCNumber: string,

AccountID: integer,

Reason: string
): integer;
```

#### Other parameters

OrderID - Order/Trip ID

ContactPhone – Contact phone number with this order/trip. This parameter is optional, if no Contact phone number; pass empty string in the input field.

CCNumber – Credit card number with this order/trip. This parameter is optional, if no credit card number; pass empty string in the input field.

AccountID – Account id with this order/trip. This parameter is optional, if no Account id, pass 0 in the input field.

Reason - cancellation reason

#### Return value

Returns - 1 if operation failed, else 0

#### Remarks

None

#### **Examples**



</Envelope>

# Requirements

Interface: <a href="MEBOrder5">IWEBOrder5</a> or higher

DLL version: All

#### 3.3.2 EstimateDistance

# **Method signature**

```
function EstimateDistance(
               Login: string,
               Password: string,
               Distance: double
               WaitTime: integer
               StopCount: integer
               PassangerCount: integer
               FrDate: TWEBTimeStamp
               AccountNum: string
               CustomerNum: integer
               CabType: integer;
               var TotalFare: Double
               var TripTime: integer
       ): integer;
Other parameters
       See EstimateFare_8
        aPBToken - always returned as 0
Return value
       Returns zero as successful result else negative value.
        Result of calculation stored in output parameters – TotalFare and TripTime
Remarks
        None
Examples
        <Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">
          <Body>
            <EstimateDistance xmlns="http://tempuri.org/">
               <Login>[string]</Login>
               <Password>[string]</Password>
               <Distance>[double]</Distance>
               <WaitTime>[int]</WaitTime>
               <StopCount>[int]</StopCount>
               <PassangerCount>[int]</PassangerCount>
               <FrDate>[TWEBTimeStamp]</FrDate>
               <AccountNum>[string]</AccountNum>
```

# Requirements

Interface: Any <a href="MEBOrder7">IWEBOrder7</a> or higher

DLL version: b44 and above.

#### 3.3.3 EstimateFare 9

# **Method signature**

```
function EstimateFare_9(
               Login: string,
               Password: string,
               aBookOrder: TBookOrder_8,
               out aTotalFare: Double,
               out aFare: Double,
               out aTolls: Double,
               out aDistance: Double,
               out aTripTime: Double
               out aPBToken: integer
       ): integer;
Other parameters
        aBookOrder - input data for calulation
        aTotalFare - output, equals to aFare + aTolls
       aFare - output, fare amount (Arcus)
       aTolls - output, currently not used. Always returns zero.
       aDistance - output, distance, in ?? (Arcus)
       aTripTime: Double - time in ?? (Arcus)
       aPBToken - ?? (Arcus)
Return value
       Returns - 1 if operation failed, else 0
Remarks
        Calculate estimate fields
Examples
        <Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">
          <Body>
            <EstimateFare_9 xmlns="http://tempuri.org/">
               <Login>[string]</Login>
               <Password>[string]</Password>
               <aBookOrder>[TBookOrder_8]</aBookOrder>
            </EstimateFare 9>
          </Body>
       </Envelope>
```



# Requirements

Interface: Any <a href="MEBOrder7">IWEBOrder7</a>
DLL version: b33 and above

#### 3.3.4 GetAvailableVehicles 4

# **Method signature**

```
function GetAvailableVehicles_4(
    Login: string,
    Password: string,
    Lon: Double
    Lat: Double
    MaxRadius: Double
    Count: Integer,
    BookedOnly: Boolean,
    VehicleTypes: TVehicleTypeArray
): TVehiclePositionArray_4
```

#### Other parameters

```
Lon - current search position

Lat - current search position

MaxRadius - max search radius

Count - max number or records to return (closest position first)

BookedOnly - returns booked only vehicles

VehicleTypes- return specified vehicles only.
```

#### Return value

Returns array of TVehiclePosition\_4 (vehicle number, location and DriverID)

#### Remarks

This method returns the array of available vehicles for the given location GPS, max radius and the max count with the filter by the Book In status and VehicleTypes

#### **Examples**

</Body>

# Requirements

Interface: Any <a href="IWEBOrder7">IWEBOrder7</a>

DLL All

#### 3.3.5 GetBookOrder 7

# **Method signature**

```
function GetBookOrder_7(

Login: string,

Password: string,

OrderID: integer,

ContactPhone: string,

CCNumber: string,

AccountID: integer

): TBookOrder 7;
```

#### Other parameters

```
OrderID - Order/Trip ID
```

ContactPhone – Contact phone number with this order/trip. This parameter is optional, if no Contact phone number; pass empty string in the input field.

CCNumber – Credit card number with this order/trip. This parameter is optional, if no credit card number; pass empty string in the input field.

AccountID – Account id with this order/trip. This parameter is optional, if no Account id, pass 0 in the input field.

#### Return value

Returns the details of the order/trip <a href="mailto:TBookOrder\_7">TBookOrder\_7</a> structure

#### Remarks

This method returns the details of an order/trip in the form of a TBookOrder\_7 structure.

#### **Examples**

#### Requirements

Interface: <a href="https://www.images.com/linear-regions-noted-regions-



DLL version: All

#### 3.3.6 GetDriverLocation

```
Method signature
```

#### Return value

Returns - 1 if operation failed, else 0. GPS info in Lon/Lat output parameters

#### Remarks

None

#### **Examples**

#### Requirements

Interface: <a href="MEBOrder">IWEBOrder</a> and above

DLL version: All

#### 3.3.7 GetOrdersStatus 4

# **Method signature**

# Other parameters

OrderIDList - List of Orders ID separated by pipe ('|') char

#### Return value

Returns list of orders statuses in TOrderStatusList 4 structure

#### Remarks

This method returns the list of orders statuses for the given list of orders IDs

# **Examples**

#### Requirements

Interface: <a href="IWEBOrder7">IWEBOrder7</a> and above

DLL b37 and above

#### 3.3.8 GetOrderStatus 2

# **Method signature**

```
function GetOrderStatus_2(
    Login: string,
    Password: string,
    OrderID: integer,
    ContactPhone: string,
    CCNumber: string,
    AccountID: integer
): TWEBOrderStatusValue;
```

#### Other parameters

```
OrderID - Order/Trip ID.
```

ContactPhone – Contact phone number with this order/trip. This parameter is optional, if no Contact phone number; pass empty string in the input field.

CCNumber – Credit card number with this order/trip. This parameter is optional, if no Credit card number to be specified, pass empty string in the input field.

AccountID – Account id with this order/trip. Optional. If no Account ID is to be specified, pass 0 in the input field.

#### Return value

Returns orders status in **TWEBOrderStatusValue**.structure

#### Remarks

None

#### **Examples**

#### Requirements

Interface: <a href="IWEBOrder7">IWEBOrder7</a> or above



DLL version: All

#### 3.3.9 GetVehicleCandidates

# **Method signature**

```
function GetVehicleCandidates(

<u>Login</u>: string

<u>Password</u>: string

OrderKey: <u>TBookOrderKey</u>
): TVehicleCompArray;
```

# Other parameters

OrderKey – structure containing the unique key of the order

#### Return value

List of vehicles

#### Remarks

This method returns returns a list of vehicle candidates for order

#### **Examples**

#### Requirements

Interface: <a href="IWEBOrder7">IWEBOrder7</a> or above DLL version: b46 and above

#### 3.3.10 GetVehicleLocation

# **Method signature**

```
function GetVehicleLocation (

Login: string,

Password: string,

OrderID: integer,

var Lon Double,

var Lan: Double,

): Integer;
```

# Other parameters

```
OrderID - Order/Trip ID.
```

Lon - if vehicle location found, then the longitude is returned via parameter.

Lat - if vehicle location found, then the latitude of its location is returned via parameter

#### Return value

Returns 0 If the location found, else returns -1

#### Remarks

This method returns the Longitude and Latitude of the current location of the vehicle allocated to a specified trip

#### **Examples**

# Requirements

Interface:

DLL

#### 3.3.11 RideCurrentFare

# **Method signature**

```
function RideCurrentFare(

Login: string,

Password: string,

RideID: integer,

out TotalFare: Double
): integer;
```

#### Other parameters

```
RideID - ID of existing ride

TotalFare – value of current fare
```

#### Return value

Returns zero as successful result else negative value.

#### Remarks

Function returns current fare for ride in TotalFare output parameter

#### **Examples**

```
Request:
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">
  <Body>
    <RideCurrentFare xmlns="http://tempuri.org/">
      <Login>taxi</Login>
      <Password>test</Password>
      <RideID>12345</RideID>
    </RideCurrentFare>
  </Body>
</Envelope>
Response:
<?xml version="1.0"?>
<SOAP-ENV:Envelope>
  <SOAP-ENV:Body SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
    <NS1:RideCurrentFareResponse xmlns:NS1="urn:WEBOrder_7Intf-IWEBOrder_7">
      <return xsi:type="xsd:int">0</return>
      <TotalFare xsi:type="xsd:double">1345</TotalFare>
    </NS1:RideCurrentFareResponse>
  </SOAP-ENV:Body>
```



</SOAP-ENV:Envelope>

# Requirements

Interface: <a href="MEBOrder7">IWEBOrder7</a> and above

DLL version: Cabmate - b41 and above.

### 3.3.12 SaveBookOrder 12

## **Method signature**

### Other parameters

```
BookOrder – see description of TBookOrder_12 type
```

Vehicles - in/out parameter. You can put a list of preferred vehicles for this order and get list of available/compatible vehicles

#### Return value

Returns – order key in TBookOrderKey structure. If operation fails, OrderID value of result will be negative.

#### Remarks

### **Examples**

## Requirements

Interface: Any <a href="MEBOrder7">IWEBOrder7</a> or higher

DLL b52 and above

### 3.3.13 SaveExtrPayment

## **Method signature**

```
function SaveExtrPayment(
    Login: string,
    Password: string,
    RideID: integer,
    Amount: double,
    AuthNum: string
): Integer;
```

## Other parameters

```
RideID – ride ID

Amount - Paid amount

AuthNum - Payment authorization number
```

### Return value

Returns if successful, this method returns 1

#### Remarks

External CC Payment. This method updates credit card payment information with an external data.

#### **Examples**

### Requirements

Interface: Any IWEBOrder

DLL version: Available in release 8.7.010 b3 and above

### 3.3.14 SaveExtrPayment 2

## **Method signature**

```
function SaveExtrPayment_2(
                Login: string,
                Password: string,
                OrderID: Integer,
               TransID: string,
               AuthNum: string,
               CardToken: string,
                PaymentType: string,
                PaymentProvider: string,
                MDTTip: Integer,
                MDTToll: Integer,
                MDTExtras: Integer,
                MDTFare: Integer,
                PaymentTipAmount: Integer,
                PaymentMeterAmount: Integer,
                PaymentTotal: Integer,
                AccountID: Integer,
                Name: string,
                Phone: string,
                Email: string,
               OS: string,
                UserAgent: string,
               GUID: String
       ): Integer,
Other parameters
        Login - IBS login name
        Password - IBS password
        OrderID - ID
        TransID - payment transaction ID
```

MDTTip - MDT tip amount in cents

MDTToll - MDT toll amount in cents

AuthNum - transaction response code CardToken - payment verification data

PaymentType - payment type (e.g. CreditCard)

PaymentProvider - payment provider (e.g. CMT)

```
MDTFare - MDT fare amount in cents
```

MDTExtras - MDT extras amount in cents

PaymentTipAmount - payment tip amount in cents

PaymentMeterAmount - payment meter amount in cents

PaymentTotal - payment total amount in cents

AccountID - IBS Account ID

Name - Customer name

Phone - Customer phone number

Email - Customer email account

OS - Operating System of TaxiHail APP (e.g. iPhone)

UserAgent - User agent from TaxiHail APP

#### Return value

Returns if successful, this method returns 0

### Remarks

This method updates payment information with an external CMT COF data.

### **Examples**

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">
  <Body>
    <SaveExtrPayment_2 xmlns="http://tempuri.org/">
      <Login>[string]</Login>
      <Password>[string]</Password>
      <OrderID>[int]</OrderID>
      <TransID>[string]</TransID>
      <AuthNum>[string]</AuthNum>
      <CardToken>[string]</CardToken>
      <PaymentType>[string]</PaymentType>
      <PaymentProvider>[string]</PaymentProvider>
      <MDTTip>[int]</MDTTip>
      <MDTToll>[int]</MDTToll>
      <MDTExtras>[int]</MDTExtras>
      <MDTFare>[int]</MDTFare>
      <PaymentTipAmount>[int]</PaymentTipAmount>
      <PaymentMeterAmount>[int]</PaymentMeterAmount>
      <PaymentTotal>[int]</PaymentTotal>
      <AccountID>[int]</AccountID>
      <Name>[string]</Name>
      <Phone>[string]</Phone>
```

```
<Email>[string]</Email>
<OS>[string]</OS>
<UserAgent>[string]</UserAgent>
<GUID>[string]</GUID>
</SaveExtrPayment_2>
</Body>
</Envelope>
```

## Requirements

Interface: Any IWEBOrder

DLL version: Available in release 8.7.010 b3 and above

# 3.3.15 SendDriverMsg

## **Method signature**

```
function SendDriverMsg (

Login: string,

Password: string,

CarID: integer,

Msg: string
): Integer;
```

### Other parameters

```
CarlD - Vehicle Number.
Msg - Message text.
```

### Return value

Returns if successful, this method returns 1

### Remarks

This method sends text message to MDT

### **Examples**

### Requirements

Interface: Any IWEBOrder

DLL version: Available in release 8.7.010 b3 and above

### 3.3.16 SendP2DCall

## **Method signature**

```
function SendP2DCall(

Login: string,

Password: string,

CarID: string;

OrderID: integer
): integer
```

### Other parameters

```
CarID – vehicle number
OrderID – orders ID
```

### Return value

Returns 0 (?) if the method succeeded, otherwise returns error code

### Remarks

None

### **Examples**

### Requirements

Interface: <a href="IWEBOrder7">IWEBOrder7</a> and above

DLL: b38 and above

## 3.3.17 UpdateJobPaymentType

## **Method signature**

```
function UpdateJobPaymentType(
    Login: string,
    Password: string,
    AccountID: integer,
    OrderID: integer,
    ChargeTypeID: integer
): integer
```

## Other parameters

AccountID not used yet ChargeTypeID not used yet

#### Return value

Returns 1 if the method succeeded, otherwise returns -1

### Remarks

Sends a message 'Payment in car' to the driver.

### **Examples**

### Requirements

Interface: <a href="IWEBOrder7">IWEBOrder7</a>
DLL version: None

## 3.3.18 UpdateJobToVehicle

## **Method signature**

### Other parameters

```
OrderKey – Order unique number
Vehicle – should be assigned to order
```

#### Return value

Returns 0 (?) if the method succeeded, otherwise returns negative error code

### Remarks

None

### **Examples**

### Requirements

Interface: <a href="IWEBOrder7">IWEBOrder7</a> and above

DLL b38 and above



# 4 SAMPLE DATA FLOWS

The following section outlines three sample data flows to illustrate the usage of IBS methods between the IBS server and an IBS client to achieve the following:

- Standard Trip booking via credit card
- Standard Account Creation
- Standard Trip booking via Account



## 4.1 Standard Trip booking via credit card:

- 1. Import the IBS Web Service from Web client application
- 2. Trip details are received through web client regarding various aspects of trip booking:
  - Name
  - o Contact Phone Number
  - Pickup Address
  - Drop-off Address
  - o Passenger no
  - Pickup Date & pickup Time
  - o Etc.
- 3. Create a 'TbookOrder' object (ex. tOrder) and initialize with information collected from the client as in step 2) above. tOrder will be the object used to build the trip order from the customer.
- 4. If an estimated fare is to be generated from XDS and presented to the customer via the IBS client, set the 'OrderStatus' in tOrder structure to 'TWEBOrderStatusValue.wosPriceQry'.
- Call the 'SaveBookOrder' method with tOrder as a parameter. This will create the order entity in the XDS database but the order will not be submitted for dispatching at this point until further information is collected.
- 6. 'SaveBookOrder' will return the status of the save within XDS as an 'OrderID'. If the 'OrderID' is a positive integer, it represents that the action was successful and this 'OrderID' will be used to further update information regarding this trip. If the action was unsuccessful, -1 will be returned in the 'OrderID' field.
- Assuming that the 'SaveBookOrder' action was successful (i.e. non negative) set 'OrderID' and 'ConfirmationID' inside the tOrder structure with the ID returned from the 'SaveBookOrder' call.
- 8. If fare estimate is to be displayed:
  - o Call the 'GetBookOrder' method and pass the 'OrderID' returned from item 6) above
  - If 'GetBookOrder' call is successful, a 'TbookOrder' structure will be returned, otherwise –1 will be returned (unsuccessful)
  - The fare estimate will be store inside the returned 'TbookOrder' structure.
  - Add this data to the appropriate filed in tOrder.
- 9. Gather CC details from user
  - Get all the credit card information from the user. Credit Card number and expiry date are mandatory fields.
  - Fill tOrder structure with credit card details received from the user.
- 10. Book the trip
  - To book the trip in XDS, set the 'OrderStatus' field in the tOrder structure to 'TWEBOrderStatusValue.wosPost'.
  - o Call the 'SaveBookOrder' method with tOrder as input parameter.
  - XDS will receive trip and perform a pre-authorization on the credit card with the value pre-provisioned by the transportation company.
  - If 'SaveBookOrder' method was successful, a non-negative 'OrderID' will be returned by the method.

#### **Notes**

- If 'SaveBookOrder' is called with tOrder field 'OrderStatus' set to something other
   'TWEBOrderStatusValue.wosPost', IBS will create a temporary trip in XDS database, which gets removed
   by XDS when it performs its periodic garbage collection audit of the database. To ensure that the trip
   receives a permanent entry in the database 'TWEBOrderStatusValue.wosPost' must be utilized.
- 2. If you want to modify an existing trip, first modify the details in the tOrder structure then call 'getBookOrder' with tOrder as parameter. This method will return another 'TbookOrder' (sOrder) structure

3. With modifying trip's OrderID and if it is successful, it will return a TBookOrder structure. Modify the information inside this structure (don't change OrderID) and call SaveBookOrder with modifying TBookOrder structure. This time IBS will modify existing trip whose ID is TBookOrder's OrderID.  3. With modifying trip's OrderID and call SaveBookOrder's OrderID.  4. This time IBS will modify existing trip whose ID is TBookOrder's OrderID.  5. TBookOrder's OrderID.  5. TBookOrder's OrderID.  6. TBookOrder's OrderID.  6. TBookOrder's OrderID.  6. TBookOrder's OrderID.  7. TBookOrder's OrderID.  8. TBookOrder's Order's Order		
	3.	With modifying trip's OrderID and if it is successful, it will return a TBookOrder structure. Modify the information inside this structure (don't change OrderID) and call SaveBookOrder with modifying TBookOrder structure. This time IBS will modify existing trip whose ID is TBookOrder's OrderID.



### 4.2 Standard Account Creation

- 1. Connect to IBS Web Service from Web client application.
- 2. Receive customer information through web client UI interface such as:
  - Name
  - o Contact Phone Number
  - Position
  - Department
  - o Login
  - Password
  - o Etc.
- 3. Create 'TbookAccount' object (ex. tAccount) and initialize with the information collected in step 2).
- 4. Call the 'SaveAccount' method and pass tAccount as a parameter.
- 5. Check the return parameter from the 'SaveAccount' method. If a positive value is retuned in the 'AccountID 'this means that the procedure was successful and an account object has been created in the XDS database. (Note that in order to have the account accessed through the web, the XDS administrator must approve it). If the result is a –1000, this means that an account with the desired ID already exists in the XDS database. All other negative values indicate the inability to create the account in the database.



### 4.3 Standard Trip booking via Account

- 1. Connect to IBS Web Service from Web client application.
- 2. Allow user to login to account through web client.
- 3. Collect Trip details through web client regarding various aspects of trip booking:
  - Name
  - AccountID
  - Contact Phone Number
  - o Pickup Address
  - Drop-off Address
  - Number of Passengers
  - Pickup Date & pickup Time
  - o Etc.
- 4. Create 'TbookOrder' (ex. tOrder) object and initialize with information collected in 2) above.
- 5. If a fare estimate is required for the booking do the following:
  - o In the tOrder structure, set the 'OrderStatus' field to 'TWEBOrderStatusValue.wosPriceQry'
- 6. Call the 'SaveBookOrder' method passing tOrder as an input parameter.
- 7. Determine if the call to 'SaveBookOrder' was successful:
  - Check the value returned in the 'OrderID' field: if value is non-negative, this indicates a positive result a negative return code indicates a failure.
- 8. Set 'OrderID' and 'ConfirmationID' fields of tOrder with the successful 'OrderID' value returned in item 7) above.
- 9. If required Retrieve fare estimate details from IBS:
  - Call 'GetBookOrder' and pass 'OrderID' from 7)a. above
  - o If 'GetBookOrder' is successful, a 'TbookOrder' structure will be returned, otherwise -1.
  - Fare field inside returned 'TbookOrder' structure has the estimated fare. Set the fare inside tOrder structure with the received fare.
- 10. Commit the trip to XDS for dispatching:
  - o Set the 'OrderStatus' field in tOrder structure to 'TWEBOrderStatusValue.wosPost'
  - o Call 'SaveBookOrder' method and pass the tOrder object as a parameter.
  - If 'SaveBookOrder' is success, it will return 'OrderID', otherwise –1 will be returned.



# 5 USED TYPES

# 5.1.1 Sample types

Integer – used int32

Double -

String -



# 5.2 Ordinal types

# 5.2.1 TAccountType

Name	Description
actNone	Regular account
actWebAccount	Web account

## 5.2.2 TCCTransResult

Name	Ordinal value	Description
ctrNone	0	No result
ctrDeclined	1	Transaction declined
ctrApproved	2	Transaction Approved
ctrTimeout	3	Transaction failed because the timeout

# 5.2.3 TRptFormat

Name	Description
PrPDF	Portable Document Format
PrRTF	Rich Text Format
prText	Plain text
prHTML	HyperText Markup Language
prExcel	Microsoft Excel format

## 5.2.4 TWEBAccountStatus

Name	Ordinal value	Description
wasNone	0	
wasCreate	1	
wasUpdate	2	
wasNotUnique	3	
wasMoved	4	
wasValid	5	
wasSuspended	6	

## 5.2.5 TWEBOrderStatusValue

Value		Description
wosNone	0	new order (not posted)
wosAddrValidQry	1	
wosAddrValidating	2	
wosAddrValidatingTimeout	3	

wosAddrNotValid	4	
wosAddrValid	5	
	_	the Jah was Cahadala
wosSCHED	6	the Job was Schedule
wosCANCELLED	7	the Job was Cancel
wosPost	8	
wosMove	9	
wosMoved	10	
wosDONE	11	the Job was Done
wosWAITING	12	the Job Unassigned to Driver (to be dispatched)
wosASSIGNED	13	Driver Assigned for the Job(dispatched)
wosARRIVED	14	TAXI at Pickup Point
wosLOADED	15	Customer on Board
wosNOSHOW	16	Driver has Arrive, but Customer not Show up at Pickup Point.
wosAddrPostalValidQry	17	For future use
wosCANCELLED_DONE	18	the Job was Cancel and Removed from XDS (cancelled)
wosCCPreauthQry	19	request for Credit Card Preauthorization (Fare is required)
wosCCSaleQry	20	request for Credit Card Sale (Fare Amount is required)
wosCCProcessing	21	request in process
wosCCProcDone	22	request process done
wosPriceQry	23	request for Trip Price
wosPriceCalculating	24	request in process
wosPriceDone	25	request process done
wosReportQry	26	Report Query placed
wosReportProcessing	27	Processing report
wosReportDone	28	Report completed
wosCCEncryptCCInfo	29	request for CCInforEncryption
wosCCEncryptCCInfoDone	30	request for CCInforEncryption
wosTIMEOUT	31	status after ride canceled by timer
wosDoneNotPayed*	32	ride is done but not payed yet

## 5.3 Structured and array types

# 5.3.1 TAccountItem

Name	Туре	Description
AccountID	Int	A unique ID for this account.
Name	String	Account Name.
AccountLogin	String	Login ID use to login in Web client.
AccountPassword	String	Login password use to login in Web client.
WebReservation	boolean	UNKNOW

# 5.3.2 TAirportItem

Name	Туре	Description
AirportAddress	String	Airport's address.
City	String	Airport city name.
Region	String	Airport region name.
AirportCode	String	Airport's code.
Lon	Double	Longitude of the Airport address.
Lat	Double	Latitude of the Airport address.

# 5.3.3 TAirportArray

Structure which is an array of **TAirportItem**.

## 5.3.4 TAirlineItem

Name	Туре	Description
AirID	String	Airline's ID.
AirName	String	Airline's name.

# 5.3.5 TAirlineArray

Structure which is an array of TAirlineItem

### 5.3.6 TBannedZone

Name	Туре	Description
Zone	String	Zone name
ZoneID	integer	Zone ID
Vehicles	TVehicleNameArray	Array of strings
Drivers	TDriverNameArray	Array of strings

# 5.3.7 TBannedZoneArray

Structure which is an array of TBannedZone

## 5.3.8 TBookAccount

Name	Туре	Description
АссТуре	TAccountType	Type of account
AccountID	Integer	User account ID
AccountName	string	
Address	TWEBAddress	
CCEndMonth	string	
CCEndYear	string	
CCHolder	string	
CCIssueNumber	string	
CCNumber	string	
CCSecurityCode	string	
CCStartMonth	string	
CCStartYear	string	
Fax	string	
FirstName	string	
LastName	string	
Phone	string	
ServiceProviderID	Integer	Not used yet
Title	string	
WEBID	string	
WEBPassword	string	
WEBStatus	TWEBAccountStatus	
eMail	string	

# 5.3.9 TBookAccount2

Inherited from TBookAccount

Name	Туре	Description
Name	Туре	Description
OwnerID	Int	User account owner ID.
OwnerType	Int	User account owner type:
		0 – account user
		1 – department user
TextBack	Boolean	Default flag for Text back message.
EmailBack	Boolean	Default flag for EMail back message.
CallBack	Boolean	Default flag for Call back message.
AccountAdmin	Boolean	For the future use.

Priority	Boolean	Booking priority.
Email2	String	Email2 address.
MobilePhone	String	Mobile phone number.
BusinessType	String	For the future use.
UserPosition	String	Account user's position.
TripRemark	String	The default trip remark.
AdminNotes	String	Administrator note.
LPoints	String	Loyalty points.
BarCode	String	Account user bar code.
DeptName	String	User department name. If new account has the Department name then the new department will be created within the account.
DriverRating	Int	XDS driver rating.
CallbackPhone	Int	1 – use landline phone for call back
		2 – use mobile phone for call back
EMailbackAddress	Int	1 – use Email1 for email back
		2 – use Email2 phone for email back
Prompt1	TPromptField	Account prompt 1
Prompt2	TPromptField	Account prompt 2
Prompt3	TPromptField	Account prompt 3
Prompt4	TPromptField	Account prompt 4
Prompt5	TPromptField	Account prompt 5
Prompt6	TPromptField	Account prompt 6
Prompt7	TPromptField	Account prompt 7
Prompt8	TPromptField	Account prompt 8
FavoriteAddresses	TWEBFavotiteAddress []	List of account user favorite addresses (up to 8)
Exceptions	TException []	List of exceptions for the account
VehicleTypes	TVehicleTypeItem []	List of account vehicle types

# 5.3.10 TBookAccount3

Inherited from TBookAccount2

Name	Туре	Description
Name	Туре	Description
OwnerID	Int	User account owner ID.
OwnerType	Int	User account owner type:
		0 – account user
		1 – department user
TextBack	Boolean	Default flag for Text back message.
EmailBack	Boolean	Default flag for EMail back message.

CallBack	Boolean	Default flag for Call back message.
AccountAdmin	Boolean	For the future use.
Priority	Boolean	Booking priority.
Email2	String	Email2 address.
MobilePhone	String	Mobile phone number.
BusinessType	String	For the future use.
UserPosition	String	Account user's position.
TripRemark	String	The default trip remark.
AdminNotes	String	Administrator note.
LPoints	String	Loyalty points.
BarCode	String	Account user bar code.
DeptName	String	User department name. If new account has the Department name then the new department will be created within the account.
DriverRating	Int	XDS driver rating.
CallbackPhone	Int	1 – use landline phone for call back
		2 – use mobile phone for call back
EMailbackAddress	Int	1 – use Email1 for email back
		2 – use Email2 phone for email back
Prompt1	TPromptField	Account prompt 1
Prompt2	TPromptField	Account prompt 2
Prompt3	TPromptField	Account prompt 3
Prompt4	TPromptField	Account prompt 4
Prompt5	TPromptField	Account prompt 5
Prompt6	TPromptField	Account prompt 6
Prompt7	TPromptField	Account prompt 7
Prompt8	TPromptField	Account prompt 8
FavoriteAddresses	TWEBFavotiteAddress []	List of account user favorite addresses (up to 8)
Exceptions	TException []	List of exceptions for the account
VehicleTypes	TVehicleTypeItem []	List of account vehicle types
UserCustomerID:	String	Umbrella account ID for account User

## 5.3.11 TBookOrder

Name	Туре	Description
AccountID	Int	Account id associated with this order/trip if booking done by account user.
CCAuth	String	Transaction authorization value.
CCExpMonth	String	Credit Card Expiry month.
CCExpYear	String	Credit Card Expiry year.

CCHolder	String	Cardholder name.
CCIssueNumber	String	Card issue number.
CCNumber	String	Credit Card Number.
CCRespondText	String	The response message.
CCSecurityCode	String	Credit card security code.
CCStartMonth	String	Card start month.
CCStartYear	String	Card start year.
CCTransDate	String	Credit card transaction date.
CCTransID	Int	CCAS log transaction ID. If not submitted with a credit card booking then new transaction starts.
CCTransResult	TCCTransResult	Card transaction result:
ConfirmationID	Int	Order ID or Ride ID. If the ConfirmationID is greater than 0 then the existing booking will be updated. Otherwise, the new booking record will be created.
ContactPhone	String	Phone number specified in order contact field.
Customer	String	Passenger Name.
DropoffAddress	TWEBAddress	Drop off address structure.
EstDistance	Double	Estimated trip distance. To force distance calculation the value should be set to 0.00 when the order is save.
Fare	Double	Fare amount. To force a new fare calculation the value should be set to 0.00 when the order is saved
Note	String	Ride Note specified in trip/order.
OrderDate	TWEBTimeStamp	Order submission Date (Time/Date in which trip booking was made called)
OrderID	Int	Web order ID (the same as RideID)
OrderStatus	TWEBOrderStatusValue	Status of trip/order
Passengers	Int	Number of passengers.
Phone	String	Phone number from which order was placed (if applicable).
PickupAddress	TWEBAddress	Pickup address structure.
PickupDate	TWEBTimeStamp	The requested/scheduled Pickup date (leave the time part of the structure blank).
PickupTime	TWEBTimeStamp	The requested/scheduled Pickup time (leave the date part of the structure blank).
ServiceProviderID	Int	Currently not in use.
		<b>-</b>
Tolls	Double	Toll amount associated with trip/order
Tolls  VehicleTypeID	Double Int	Cab type id.



# 5.3.12 TBookOrder\_2

TBookOrder\_2 is derived from TBookOrder. So it has all properties from TBookOrder plus its own properties as outlined in the table below.

Name	Туре	Description
Airline	String	Airline code/name.
AirportCode	String	Airport code.
Arrival	TWEBTimeStamp	Flight arrival time.
CancelNum	Integer	Ride cancellation number
CrewAuthoriz	String	Flight crew authorization number.
Flight	String	Flight number.
MajorIntersect	String	Closest major intersection for the pickup.
OrderedBy	String	Name of individual who booked the trip
PermanentRem	String	Trip permanent remark.

## 5.3.13 TBookOrder\_3

TBookOrder\_3 is derived from TBookOrder\_2. So it has all properties from TBookOrder\_2 plus TBookOrder and properties as specified below.

Name	Туре	Description
CallBack	Bool	Call back flag. If set to true, then message will be send to phone which is stored in CallBackNo.
CallBackNo	String	Phone number for the call back.
CCAddress	String	Credit Card holder billing address.
CCPostCode	String	Credit Cardholder billing Postcode.
EmailBack	Bool	Email back flag. If set to true, then message will be send to email which is stored in EmailBackAdd.
EmailBackAdd	String	Email back address.
Field1	String	Generic field 1 value.
Field2	String	Generic field 2 value.
Field3	String	Generic field 3 value.
Field4	String	Generic field 4 value.
Field5	String	Generic field 5 value.
Field6	String	Generic field 6 value.
Field7	String	Generic field 7 value.
Field8	String	Generic field 8 value.
Prompt1	String	Prompt1 value.
Prompt2	String	Prompt2 value.
Prompt3	String	Prompt3 value.
Prompt4	String	Prompt4 value.

Prompt5	String	Prompt5 value.
Prompt6	String	Prompt6 value.
Prompt7	String	Prompt7 value.
Prompt8	String	Prompt8 value.
RideID	Integer	Ride ID
RideStops	TWEBAddress []	List of stops (address structures). TWebAddress [0] is pickup address and TWebAddress [n] is final destination.
TxtBack	Bool	Text back flag. If set to true, then message will be send to mobile phone which is stored in TxtBackAdd.
TxtBackAdd	String	Text back address.

## 5.3.14 TBookOrder\_4

TBookOrder\_4 is derived from <u>TBookOrder\_3</u>. So it has all properties from <u>TBookOrder\_3</u> and <u>TBookOrder\_2</u> and <u>TBookOrder\_3</u> and <u>TBookOrder\_3</u> and <u>TBookOrder\_3</u>.

Name	Туре	Description
ccFirst	String	Credit Cardholder billing First name.
ccLast	String	Credit Cardholder billing Last name.
ccCity	String	Credit Cardholder billing City name.
ccState	String	Credit Cardholder billing State. (Abbreviate the state or province name)
ссТуре	String	

## 5.3.15 TBookOrder\_5

TBookOrder\_5 is derived from <u>TBookOrder\_4</u>. So it has all properties from <u>TBookOrder\_4</u> and <u>TBookOrder\_3</u> and <u>TBookOrder\_2</u> and <u>TBookOrder\_3</u> and properties as specified below.

Name	Туре	Description
CabNo	String	XDS Cab Number (if assigned)
CallNumber	String	XDS Driver Call Number (if assigned)
ChargeTypeID	Integer	XDS Charge Type ID (available from IStatic)
DispByAuto	Boolean	Flag to dispatch by Auto Dispatcher
FrCity	String	Pickup city name
FrRegion	String	Pickup state/prov name
RideExceptions	TExceptionsArray	Array of TException
ToCity	String	Drop-off city name
ToRegion	String	Drop-off state/prov name

## 5.3.16 TBookOrder\_6

TBookOrder\_6 is derived from <u>TBookOrder\_5</u>. So it has all properties from <u>TBookOrder\_5</u> and <u>TBookOrder\_4</u> and <u>TBookOrder\_2</u> and <u>TBookOrder\_2</u> and <u>TBookOrder\_3</u> and <u>TBookOrder\_8</u> and <u>TBookOrder\_9</u> and <u>TBookOrder\_9</u>

Name	Туре	Description
Priority	Integer	XDS Priority flag (0 or 1)

## 5.3.17 TBookOrder\_7

TBookOrder\_7 is derived from <u>TBookOrder\_6</u>. So it has all properties from <u>TBookOrder\_6</u> and <u>TBookOrder\_5</u> and <u>TBookOrder\_3</u> and <u>TBookOrder\_3 </u>

Name	Туре	Description
Tips	Currency	XDS gratuity amount
VAT	Currency	VAT.Missing in some builds

### 5.3.18 TBookOrder\_8

TBookOrder\_8 is derived from <u>TBookOrder\_7</u>. So it has all properties from <u>TBookOrder\_7</u> and <u>TBookOrder\_6</u> and <u>TBookOrder\_5</u> and <u>TBookOrder\_4</u> and <u>TBookOrder\_3</u> and <u>TBookOrder\_2</u> and <u>TBookOrder\_8</u> and properties as specified below.

Name	Туре	Description
AccountNum	String	Not used. For Cabmate compatibility.
CustomerNum	Integer	Not used. For Cabmate compatibility.
WaitTime	Integer	Not used. For Cabmate compatibility.

### 5.3.19 TBookOrder\_10

TBookOrder\_10 is derived from TBookOrder\_8

Name	Туре	Description
JobOfferPrompt	String	Drivers prompt message on "Accept/Decline" screen
AssignDriver	String	Preference driver
AssignCab	String	Preference vehicle
ExpirySec	integer	Currently for internal use. Set to zero or ignore

### 5.3.1 TBookOrder 11

TBookOrder\_11 is derived from TBookOrder\_10

Name	Туре	Description
GUID	String	Drivers prompt message on "Accept/Decline" screen
TipAmount	integer	Tip amount in cents
TipPercent	integer	Tip percent
PBToken	integer	Price book token

### 5.3.1 TBookOrder\_12

TBookOrder\_11 is derived from TBookOrder\_11

Name	Туре	Description
JobOfferAcceptTimeout	integer	Time in seconds the MDT will wait for Accept.

JobProvider	integer	Indicator of who entered the Job*
TipIncentive	Currency	TIP Incentive amount

These fields will be sent with "JobOffer" field to MDT.

<sup>\*</sup> Job Provider accepted values:

Name	Description
0	Generic Job (generated by dispatch)
1	Arro
2	TaxiHail
3	Curb

## 5.3.2 TBookOrderList\_3

Name	Туре	Description
OrderCount	Integer	Total number of trips/bookings.
OrderList	TOrderList 3	Array of trips/bookings.

# 5.3.3 TBookOrderList\_4

Name	Туре	Description
OrderCount	Integer	Total number of trips/bookings.
OrderList	TOrderList 4	Array of trips/bookings.

## 5.3.4 TBookOrderList\_5

Name	Туре	Description
OrderCount	Integer	Total number of trips/bookings.
OrderList	TOrderList 5	Array of trips/bookings.

## 5.3.5 TBookOrderList\_6

Name	Туре	Description
OrderCount	Integer	Total number of trips/bookings.
OrderList	TOrderList 6	Array of trips/bookings.

## 5.3.6 TBookOrderList\_7

Name	Туре	Description
OrderCount	Integer	Total number of trips/bookings.
OrderList	TOrderList_7	Array of trips/bookings.

## 5.3.7 TBookOrderList\_8

Name	Туре	Description	

OrderCount	Integer	Total number of trips/bookings.
OrderList	TOrderList_8	Array of trips/bookings.

# 5.3.8 TBookOrderKey

Name	Туре	Description
GUID	String	Unique global indefenr
OrderID	Integer	Orders primary key

## 5.3.9 TChargeTypeItem

Name	Туре	Description
ChargeTypeID	Integer	Charge Type ID
ChargeTypeName	String	XDS Charge Type Name

# 5.3.10 TChargeTypeArray

Structure which is an array of <a href="https://example.com/TChargeTypeltem">TChargeTypeltem</a>

## 5.3.11 TCityItem

Name	Туре	Description
CityID	Int	City's ID.
Name	String	City's name.

## 5.3.12 TCityArray

Structure which is an array of **TCityItem**.

# 5.3.13 TDriverType

Name	Туре	Description
ID	Integer	Driver type ID
Name	String	Driver Type short description

## 5.3.14 TDriverTypeArray

Structure which is an array of <a href="https://doi.org/10.100/journal.org/">TDriverType</a>

# 5.3.15 TException

Name	Туре	Description
ExID	Int	Exception's ID.
ExName	String	Exception's name.

## 5.3.16 TExceptionsArray

Structure which is an array of TException



## 5.3.17 TExceptionItem

Name	Туре	Description
ID	Int	Exception's ID.
Name	String	Exception's name.

## 5.3.18 TExceptionArray

Structure which is an array of TExceptionItem

### 5.3.19 TFavoriteAddressesArray

Structure which is an array of TWEBFavotiteAddress

### 5.3.20 TFlatRatePlaceItem

Name	Туре	Description
Index	Int	Flat rate place index.
Name	String	Flat rate place name.

## 5.3.21 TFlatRatePlaceArray

Structure which is an array of TFlatRatePlaceItem

### 5.3.22 TFlatRateValue

Name	Туре	Description
ID	String	A unique ID for flat rate.
Price	Double	Price for the flat rate.
Tolls	Double	Tolls for the flat rate.

### 5.3.23 TOrderIDList

Structure which is an array of integer values

### 5.3.24 TOrderList\_3

Structure which is an array of TBookOrder 3

### 5.3.25 TOrderList 4

Structure which is an array of TBookOrder 4

### 5.3.26 TOrderList\_5

Structure which is an array of TBookOrder\_5

## 5.3.27 TOrderList\_6

Structure which is an array of TBookOrder 6

### 5.3.28 TOrderList\_7

Structure which is an array of TBookOrder 7

## 5.3.29 TOrderList\_8

Structure which is an array of TBookOrder\_8

### 5.3.30 TOrderStatus

Name	Туре	Description
DriverFirstName	String	
DriverLastName	String	
DriverMobilePhone	String	
ETATime	TWEBTimeStamp	
Fare	Double	
OrderID	Integer	
OrderStatus	TWEBOrderStatusValue	
Tips	Double	
Tolls	Double	
VAT	Double	
VehicleColor	String	
VehicleCoordinateLat	Double	
VehicleCoordinateLong	Double	
VehicleMake	String	
VehicleModel	String	
VehicleNumber	String	
VehicleRegistration	String	

# 5.3.31 TOrderStatus\_2

Name	Туре	Description
CallNumber	String	
ReferenceNumber	String	
TerminalId	String	

# 5.3.32 TOrderStatus\_3

Name	Туре	Description
PairingCode	String	Added for Cabmate compatibility
Surcharge	Double	Added for Cabmate compatibility

# 5.3.33 TOrderStatus\_4

Name	Туре	Description
DriverNumber	Integer	Added for Cabmate compatibility
OriginalImg	String	Added for Cabmate compatibility
ThumbnailImg	String	Added for Cabmate compatibility
WebImg	String	Added for Cabmate compatibility



### 5.3.34 TOrderStatusList

Structure which is an array of TOrderStatus

## 5.3.35 TOrderStatusList\_2

Structure which is an array of TOrderStatus\_2

## 5.3.36 TOrderStatusList\_3

Structure which is an array of TOrderStatus 3

## 5.3.37 TOrderStatusList\_4

Structure which is an array of TOrderStatus\_4

# 5.3.38 TPaymentAuthorization3dParty

Name	Туре	Description
ApprovalText	String	Text to display to the Driver. Example: "Payment Approved"
Approved	Boolean	Value Meaning 0 False 1 True
ApprovedAmount	String	Amount approved as currency string. Example: "\$15.00"
AuthorizationNumber	String	The authorization number. Note: Not required for CASH or External payment
Card Number	String	Masked card number. Example: "**********4460". Note: Not required for CASH or External payment
CardType	String	Set to "Card Name/Account/Cash" depending Payment Type field. Note: Not required for CASH or External payment
CCSequenceNumber	String	The transaction sequence number. Note: Not required for CASH or External payment
CollectAmount	String	Amount Outstanding as currency string. Additional Payment required. Example: "\$19.00"
DiscountAmount	String	Amount as currency string Amount echoed back or adjusted
ExpiryDate	String	Expiry date in following format "Mmyy".  Note: Not required for CASH or External payment
ExtrasAmount	String	Extras Amount as currency string Extras amount echoed back.
FareAmount	String	Fare Amount as currency string Fare Amount echoed back
JobNumber	Integer	The job number of the payment is linked to
PayType	Integer	Value Meaning 0 Cash 1 Account 3 Credit Card 6 External Payment
Surcharge Amount	String	Amount as currency string Amount echoed back or adjusted

TaxAmount	String	Tax Amount as currency string Tax Amount echoed back.
TipAmount		Tip Amount as currency string
TollsAmount	String	Tolls Amount as currency string Tolls Amount echoed back or adjusted
TransactionDate	String	Transaction date in following format "dd/MM/yy".
TransactionTime	String	Transaction time in the following format "hh:mm:ss [AM, PM]". Example: "9:54:30 AM".

### 5.3.39 TProviderItem

Name	Туре	Description
ProviderName	String	Company Name.
ProviderID	String	Company alpha numeric ID.
ProviderNum	Integer	Company numeric ID (ProviderID in TWebOrder).
IsDefault	Boolean	Is this a default provider

## 5.3.40 TProviderArray

Structure which is an array of TProviderItem

### 5.3.41 TRun

TRun is derived from TBookOrder. So it has all properties from TBookOrder plus its own properties as outlined in the table below.

Name	Туре	Description
RunNum	String	
RunRides	TOrderList_6	

# 5.3.42 TSetupIBS not completed

Name	Туре	Description
Setup_IBS_ID	String	A unique id for the IBS setup.
CompanyID	Int	For future use.
ReservationLeadMin	Int	Minimum lead-time required when booking a trip via the web (in minutes). E.g. ReservationLeadMin = 20, and now it is 10:30 am, so a trip can be book earliest 10:50 am.
CancellationLeadMin	Int	Minimum lead-time for canceling a trip through web (in minutes). E.g. CancellationLeadMin = 30, now it is 10:30 am, a trip is booked for 11:30 am. So that trip can be cancel latest by 11 am.
MaxPassengersPerOrder	Int	Maximum number of passengers can be select for a single trip booking through web.
CCTimeoutMin	Int	Setup the timeout for web client for requesting any page from server (in minutes)
MinLenLoginID	Int	Minimum length for web login id (in number of characters).

MinLenPass	Int	Minimum length for web login password (in number of characters).
InvoicePATH	String	Local Path for storage of invoice files.
ReportPATH	String	Local Path for storage of trip report files.
ReportDays	Int	When creating trip report, client needs to pass starting date and end date of trip and here they can setup maximum number of days difference between start and end date for trip report.
ReportType	String	Format of trip report ("PDF" or "HTML").
CreateAccountWeb	Bool	Whether the Web client can request to create a new web account via the web interface. (True – permitted, False – not permitted)
EditAccountWeb	Bool	Whether the Web client can allow the web account to be edited via the web interface (True – permitted, False – not permitted)
OneTimeWebBooking	Bool	Indicates whether the one time booking interface via the web is to be presented. (True – permitted, False – not permitted)
CancelTripWeb	Bool	Indicates whether the canceling of a trip is available through the web interface. (True – available, False – not available)
EditTripWeb	Bool	Indicates whether the editing of an existing trip is permitted through the web interface. (True – permitted, False – not permitted)
UseAccountPromptsWeb	Bool	Indicates whether the use of account based prompts will be required through the web. (True – account prompts permitted, False – account prompts NOT permitted)
TripHistory	Bool	Indicates whether an account user is permitted to view their trip history via the web. (True – permitted, False – no permitted)
Mapping	Bool	Indicates whether an account user is able to track the vehicle that is assigned to their trip via the web. (True – permitted, False – not permitted)
DisplayQuote	Bool	Indicates whether price quotes for booked trips will be made available via the web. (True – quotes will be displayed, False – quotes will not be displayed)
EMailFlags	Bool	Indicates whether options to provide email notifications for trips are permitted through the web. (True – permitted, False – not permitted)
TxtBackFlags	Bool	Indicates whether options to provide text message based notifications for trips are permitted through the web. (True – permitted, False – not permitted)
CallOutFlags	Bool	Indicates whether options to provide a phone callback type notification for trips are permitted through the web. (True – permitted, False – not permitted)

# 5.3.43 TVehicleCompType

Name	Description

vctNumber	??
vctPimID	
vctMedallion	

### 5.3.44 TVehicleComp

Name	Туре
VehicleCompType	TVehicleCompType
VehicleID	string
ETADistance	Integer
ETATime	Integer
Rating	string

# 5.3.45 TVehicleCompArray

Structure which is an array of TVehicleComp

### 5.3.46 TVehiclePosition

Name	Туре
VehicleNumber	String
Longitude	Double
Latitude	Double
GPSLastUpdated	TWEBTimeStamp

### 5.3.47 TVehiclePositionArray

Structure which is an array of TVehiclePosition

### 5.3.48 TVehiclePosition\_2

TVehiclePosition\_2 is derived from <u>TVehiclePosition</u>. So it has all properties from TVehiclePosition and properties as specified below.

Name	Туре
DriverID	String

### 5.3.49 TVehiclePositionArray\_2

Structure which is an array of TVehiclePosition 2

### 5.3.50 TVehiclePosition\_3

TVehiclePosition\_3 is derived from <u>TVehiclePosition\_2</u>. So it has all properties from <u>TVehiclePosition\_2</u>.

## 5.3.51 TVehiclePositionArray\_3

Structure which is an array of TVehiclePosition 3



## 5.3.52 TVehiclePosition\_4

TVehiclePosition\_4 is derived from <u>TVehiclePosition\_3</u>. So it has all properties from <u>TVehiclePosition\_3</u> and properties as specified below.

Name	Туре
VehicleType	TVehicleTypeItem

## 5.3.53 TVehiclePositionArray\_4

Structure which is an array of TVehiclePosition 4

## 5.3.54 TVehicleTypeItem

Method	Description	Return Type
Name	String	Vehicle type name
Capacity	Int	Vehicle capacity
ID	Int	Unique vehicle type ID
IsDefault	Boolean	Is this vehicle type a company default

# 5.3.55 TVehicleTypeArray

Structure which is an array of <a href="TVehicleTypeItem">TVehicleTypeItem</a>

### 5.3.56 TWEBAddress

Name	Туре	Description
AddressID	integer	
AptBaz	string	
CityID	integer	
CountryID	integer	
Latitude	double	
Longitude	double	
Postal	string	
RegionID	integer	
RunOrder	integer	
StopOrder	integer	
StopPass	integer	
StopTime	TWEBTimeStamp	
StreetPlace	string	

### 5.3.57 TWebDriver

Name	Туре	Description
DriverID	string	XDS driver call number
Exceptions	<u>TExceptionsArray</u>	list of exceptions. Avialable from b16
DisqualifiedZones	<u>TZoneNameArray</u>	list of banned zones. Avialable from b16

FirstName	string	Driver's first name
LastName	string	Driver's last name
MobilePhone	string	Driver's mobile phone number
VehicleColor	string	Car color (if signed in)
VehicleMake	string	Make of the vehicle (if signed in)
VehicleModel	string	Vehicle's model (if signed in)
VehicleRegistration	string	License plate (if signed in)
VehicleType	string	Cab type name (if signed in)

# 5.3.58 TWebDriver\_2

Name	Туре	Description
ProviderID	integer	
ProviderCode	string	
CallNumber	string	
Lat	double	
Lon	double	
LastGPSUpdate	TWEBTimeStamp	
EstimETA	TWEBTimeStamp	

### 5.3.59 TWebDriverList

Structure which is an array of TWebDriver

# 5.3.60 TWebDriverList\_2

Structure which is an array of TWebDriver\_2

### 5.3.61 TWEBFavotiteAddress

TWEBFavotiteAddress is derived from <u>TWEBAddress</u>. So it has all properties from <u>TWEBAddress</u> and properties as specified below.

Name	Туре	Description
AddressAlias	string	

# 5.3.62 TWebReport

Name	Туре	Description
AccountID	Int	Account ID.
FrDate	TWEBTimeStamp	From date range.
ToDate	TWEBTimeStamp	To date range.
OrderID	Int	Order id.
RepFormat	TRptFormat	An enum structure containing report format name. Currently only PDF and html are supported.
Filename	String	After the IBS populate report, it returns the report filename with full path.



# 5.3.63 TWEBTimeStamp

Name	Туре	Description
Year	integer	Year field
Month	integer	Month field
Day	integer	Day field
Hour	integer	Hour field
Minute	integer	Minute field
Second	integer	Second field
Fractions	integer	Fractions

# 5.3.64 TWebVehicle

Name	Туре	Description
CabNo	string	Vehicle number
CabType	string	type of cab
Color	string	Color
CompanyID	string	Company text code
Company_ID	Integer	Company ID
DisqualifiedZones	<u>TZoneNameArray</u>	banned zones list
Exceptions	<u>TExceptionsArray</u>	vehicle exceptions
License	string	License No
Make	string	
Model	string	
Registration	string	
TypeName	string	

# 5.3.65 TZoneNameArray

Structure which is an array of string



# **6** COMMON PARAMETERS

# 6.1.1 Login

Type: String

Client application's login ID to access IBS.

## 6.1.2 Password

Type: String

Client application's password to access IBS.

# 6.1.3 CompanyID

Type: Integer

Company ID returned from GetProviders function. Use zero for using default company

Unknown error

-1

# 7 APPENDIX A: IBS ERROR CODES

- -4 Empty Param
  -5 Incorrect Param
  -6 Database connection problem
  -1000 Account Name not unique
  -2000 Operation timeout
  -3000 Action not allowed
- -4000 Account ID not unique-5000 Shared validation error-6000 Duplicate reservation
- -7000 Cannot assign taxi to order
- -8000 Cancelling job error reservation is already cancelled/completed