

# **Mobile Knowledge**

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

### **Developer Documentation**

**Revision: A40**

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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.

### **Figure: IBS 8.05 Architecture**

The IBS application is comprised of two distinct components: The IBS processor and the IBS web server.

### **Figure: IBS Application**

The Web server component faces outward toward the Internet and is the primary contact for 3rd party client application. The IBS processor component receives data from the web server. It communicates requests to the XDS database and XDS application receives responses to its requests.

## 3 FUNCTIONALITY

---

Functionality is implemented as RESTful Web Service application. There are web interfaces implemented in dll:

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

## 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
<a href="#">CheckServiceStatus</a>	String	Not implemented yet	All
<a href="#">GetChargeTypes</a>	<a href="#">TChargeTypeArray</a>	Return the list of payment types	All
<a href="#">GetCompanyZoneByGPS</a>	String	Return zone name by GPS coordinates	All
<a href="#">GetProviders</a>	<a href="#">TProviderArray</a>	Return the list of providers	All
<a href="#">GetVehicleTypes</a>	<a href="#">TVehicleTypeArray</a>	Return the list of vehicle types	All
<a href="#">GetVersion</a>	String	Return IBS version data	All
<a href="#">GetZoneByGPS</a>	String	Return zone name by GPS coordinates	All



## 3.1.2 CheckServiceStatus

### Method signature

```
function CheckServiceStatus(  
    Login: string,  
    Password: string  
): string;
```

### Other parameters

None

### Return value

Returns ??

### Remarks

Returns current service status

### Examples

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <CheckServiceStatus xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
    </CheckServiceStatus>  
  </Body>  
</Envelope>
```

### Requirements

Interface: [IStaticData](#)

DLL version: All

## 3.1.3 GetChargeTypes

### Method signature

```
function GetChargeTypes (  
    Login: string,  
    Password: string,  
    CompanyID: integer,  
): TChargeTypeArray;
```

### Other parameters

None

### Return value

Returns the list of payment types

### Remarks

Returns empty set if data not found

### Examples

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <GetChargeTypes xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
      <CompanyID>[int]</CompanyID>  
    </GetChargeTypes>  
  </Body>  
</Envelope>
```

### Requirements

Interface: [IStaticData](#)

DLL version: All

## 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

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <GetCompanyZoneByGPS xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
      <ACompanyID>[int]</ACompanyID>  
      <Lat>[double]</Lat>  
      <Lon>[double]</Lon>  
    </GetCompanyZoneByGPS>  
  </Body>  
</Envelope>
```

### Requirements

Interface: [IStaticData](#)

DLL version: All

## 3.1.5 GetProviders

### Method signature

```
function GetProviders(  
    Login: string,  
    Password: string  
): TProviderArray;
```

### Other parameters

None

### Return value

Returns the list of providers (taxi companies)

### Remarks

None

### Examples

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <GetProviders xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
    </GetProviders>  
  </Body>  
</Envelope>
```

### Requirements

Interface: [IStaticData](#)

DLL version: All

## 3.1.6 GetVehicleTypes

### Method signature

```
function GetVehicleTypes(  
    Login: string,  
    Password: string,  
    CompanyID: integer,  
): TVehicleTypeArray;
```

### Other parameters

None

### Return value

Returns the list of available vehicle types

### Remarks

None.

### Examples

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <GetVehicleTypes xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
      <CompanyID>[int]</CompanyID>  
    </GetVehicleTypes>  
  </Body>  
</Envelope>
```

### Requirements

Interface: [IStaticData](#)

DLL version: All

## 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

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <GetVersion xmlns="http://tempuri.org/" />  
  </Body>  
</Envelope>
```

### 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

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <GetZoneByGPS xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
      <Lat>[double]</Lat>  
      <Lon>[double]</Lon>  
    </GetZoneByGPS>  
  </Body>  
</Envelope>
```

### Requirements

Interface: [IStaticData](#)

DLL version: All

## 3.2 IWebAccount3

Provide access to user account information.

### 3.2.1 Methods list

Method	Return	Description	Version
<a href="#">SaveAccount3</a>	Integer	Create or save account	All



## 3.2.2 SaveAccount3

### Method signature

```
function SaveAccount3(  
    Login: string,  
    Password: string,  
    Account: TBookAccount3  
): Integer;
```

### 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

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <SaveAccount3 xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
      <Account>[TBookAccount3]</Account>  
    </SaveAccount3>  
  </Body>  
</Envelope>
```

### Requirements

Interface: [IWebAccount3](#)

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
<a href="#">CancelBookOrder_2</a>	Cancel booked order	All
<a href="#">EstimateDistance</a>	Calculating the cost for distance	b44
<a href="#">EstimateFare_9</a>	Calculating the cost of a trip	b33
<a href="#">GetAvailableVehicles_4</a>	Return the list of available vehicles	All
<a href="#">GetBookOrder_7</a>	Returns the order/trip information.	All
<a href="#">GetDriverLocation</a>	Return current GPS coordinates of driver	All
<a href="#">GetOrdersStatus_4</a>	Returns info for multiple orders	b37
<a href="#">GetOrderStatus_2</a>	Return the status of an order/trip	All
<a href="#">GetVehicleCandidates</a>	Returns a list of vehicle candidates for order	b46
<a href="#">GetVehicleLocation</a>	Returns the longitude and latitude of a dispatched vehicle.	All
<a href="#">RideCurrentFare</a>	Returned currend cost for ride	b41
<a href="#">SaveBookOrder_12</a>	Save an order/trip	b45
<a href="#">SaveExtrPayment</a>	Save payment info	All
<a href="#">SaveExtrPayment_2</a>	Save payment info	All
<a href="#">SendDriverMsg</a>	Send message to a driver	All
<a href="#">SendP2DCall</a>	Passanger to driver call	b46
<a href="#">UpdateJobPaymentType</a>	Set new payment method	b27
<a href="#">UpdateJobToVehicle</a>	Assign a job to order	b45

## 3.3.1 CancelBookOrder\_2

### Use Case Example

User wants to cancel trip after booking.

### 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 xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <CancelBookOrder_2 xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
      <OrderID>[int]</OrderID>  
      <ContactPhone>[string]</ContactPhone>  
      <CCNumber>[string]</CCNumber>  
      <AccountID>[int]</AccountID>
```

```
<Reason>[string]</Reason>  
</CancelBookOrder_2>  
</Body>  
</Envelope>
```

## Requirements

Interface: [IWEBOrder5](#) or higher

DLL version: All

## 3.3.2 EstimateDistance

### Use Case Example

The third party app is able to send the parameters listed below and get a price of the trip returned. This can be used to provide a fare price before booking or used as an estimate.

### Method signature

```
function EstimateDistance(  
    Login: string,  
    Password: string,  
    Distance: double  
    WaitTime: integer  
    StopCount: integer  
    PassangerCount: integer  
    FrDate: TWEBTimeStamp  
    CabType: string;  
    AccountNum: integer  
    CustomerNum: string  
    var TotalFare: Double  
    var TripTime: integer  
): integer;
```

### Other parameters

See [EstimateFare 8](#)  
aPbToken - always returned as 0

### Return value

Returns - 1 if operation failed, else 0  
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>
<CabType>[string]</CabType>
<AccountNum>[int]</AccountNum>
<CustomerNum>[string]</CustomerNum>
</EstimateDistance>
</Body>
</Envelope>
```

## Requirements

Interface: Any [IWEBOrder7](#) or higher

DLL version: b44 and above.

### 3.3.3 EstimateFare\_9

#### Use Case Example

Another method to get a fare estimate.

#### 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 calculation  
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 [IWEBOrder7](#)

DLL version: b33 and above



## 3.3.4 GetAvailableVehicles\_4

### Use Case Example

Display certain number available vehicles and their locations to a user on a map.

### 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 of 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

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <GetAvailableVehicles_4 xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
      <Lon>[double]</Lon>  
      <Lat>[double]</Lat>  
      <maxRadius>[double]</maxRadius>  
      <count>[int]</count>
```

```
<BookedOnly>[boolean]</BookedOnly>  
<VehicleTypes>[TVehicleTypeArray]</VehicleTypes>  
</GetAvailableVehicles_4>  
</Body>  
</Envelope>
```

## Requirements

Interface: Any [IWEBOrder7](#)

DLL All

## 3.3.5 GetBookOrder\_7

### Use Case Example

To display full trip details in third party app.

### 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 [TBookOrder\\_7](#) structure

### Remarks

This method returns the details of an order/trip in the form of a [TBookOrder\\_7](#) structure.

### Examples

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <GetBookOrder_7 xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
      <OrderID>[int]</OrderID>  
      <ContactPhone>[string]</ContactPhone>  
      <CCNumber>[string]</CCNumber>  
      <AccountID>[int]</AccountID>  
    </GetBookOrder_7>  
  </Body>
```

</Envelope>

## Requirements

Interface: [IWEBOrder7](#) or higher

DLL version: All

## 3.3.6 GetDriverLocation

### Use Case Example

Track a driver coming to a user's pick up location.

### Method signature

```
function GetDriverLocation (  
    Login: string,  
    Password: string,  
    DriverID: integer,  
    out Lon: Double,  
    out Lat: Double  
): integer;
```

### Other parameters

DriverID - Driver's ID (call number)  
out Lon – GPS return value  
out Lat – GPS return value

### Return value

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

### Remarks

None

### Examples

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <GetDriverLocation xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
      <DriverID>[string]</DriverID>  
      <Lon>[double]</Lon>  
      <Lat>[double]</Lat>  
    </GetDriverLocation>  
  </Body>  
</Envelope>
```

### Requirements

Interface: [IWEBOrder](#) and above  
DLL version: All

## 3.3.7 GetOrdersStatus\_4

### Use Case Example

Track status for all active orders.

### Method signature

```
function GetOrdersStatus_4 (  
    Login: string,  
    Password: string,  
    OrderIDList: TOrderIDList  
): TOrderStatusList\_4
```

### 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

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <GetOrdersStatus_4 xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
      <OrderIDList>FirstID|SecondID</OrderIDList>  
    </GetOrdersStatus_4>  
  </Body>  
</Envelope>
```

### Requirements

Interface: [IWEBOrder7](#) and above

DLL b37 and above

## 3.3.8 GetOrderStatus\_2

### Use Case Example

Track status for a single active order.

### 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

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <GetOrderStatus_2 xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
      <OrderID>[int]</OrderID>  
      <ContactPhone>[string]</ContactPhone>  
      <CCNumber>[string]</CCNumber>  
      <AccountID>[int]</AccountID>  
    </GetOrderStatus_2>  
  </Body>  
</Envelope>
```

## Requirements

Interface: [IWEBOrder7](#) or above

DLL version: All



## 3.3.9 GetVehicleCandidates (beta – do not use)

### Method signature

```
function GetVehicleCandidates(  
    Login: string  
    Password: string  
    OrderKey: TBookOrderKey  
): 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

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <GetVehicleCandidates xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
      <OrderKey>[TBookOrderKey]</OrderKey>  
    </GetVehicleCandidates>  
  </Body>  
</Envelope>
```

### Requirements

Interface: [IWEBOrder7](#) and above

DLL version: b46 and above

## 3.3.10 GetVehicleLocation

### Use Case Example

Track status and location of vehicle.

### 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

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <GetVehicleLocation xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
      <OrderID>[int]</OrderID>  
      <Lon>[double]</Lon>  
      <Lat>[double]</Lat>  
    </GetVehicleLocation>  
  </Body>  
</Envelope>
```

### Requirements

Interface: [IWEBOrder7](#) and above

DLL All

## 3.3.11 RideCurrentFare

### Use Case Example

Third party app can display current price of fare for active trip.

### 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. Currently implemented in Cabmate version only.

### 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>
```

```
</NS1:RideCurrentFareResponse>  
</SOAP-ENV:Body>  
</SOAP-ENV:Envelope>
```

## Requirements

Interface: [IWEBOrder7](#) and above

DLL: b41 and above.

## 3.3.12 SaveBookOrder\_12

### Use Case Example

Used to book an order.

### Method signature

```
function SaveBookOrder_12 (  
    Login: string,  
    Password: string,  
    BookOrder: TBookOrder\_11,  
    Vehicles: TVehicleCompArray  
): TBookOrderKey
```

### Other parameters

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

Other parameters same as in SaveBookOrder\_11 method

### Return value

Returns – order key in [TBookOrderKey](#) structure. If operation fails, OrderID value of result will be negative.

### Remarks

### Examples

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <SaveBookOrder_12 xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
      <BookOrder>[TBookOrder_11]</BookOrder>  
      <Vehicles>[TVehicleCompArray]</Vehicles>  
    </SaveBookOrder_12>  
  </Body>  
</Envelope>
```

### Requirements

Interface: [IWEBOrder7](#) and above

DLL b45 and above

## 3.3.13 SaveExtrPayment\_2

### Use Case Example

After a user has completed payment for the trip, this allows the third party app to update the dispatch system and inform the driver of the payment status.

### Method signature

```
function SaveExtrPayment_2(  
    Login: string,  
    Password: string,  
    OrderID: Integer,  
    TransID: string,  
    AuthNum: string,  
    CardToken: string,  
    PaymentType: string,  
    PaymentProvider: string,  
    MDTPip: Integer,  
    MDTToll: Integer,  
    MDTEExtras: 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  
AuthNum - transaction response code  
CardToken - payment verification data  
PaymentType - payment type (e.g. CreditCard)

PaymentProvider - payment provider (e.g. CMT)  
MDTTip - MDT tip amount in cents  
MDTToll - MDT toll amount in cents  
MDTFare - MDT fare amount in cents  
MDTEtras - 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>
      <MDTEtras>[int]</MDTEtras>
      <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: All



## 3.3.14 SendDriverMsg

### Use Case Example

Passenger can send driver text message to their in vehicle mobile data terminal or driver app.

### Method signature

```
function SendDriverMsg (  
    Login: string,  
    Password: string,  
    CarID: integer,  
    Msg: string  
): Integer;
```

### Other parameters

CarID - Vehicle Number.

Msg - Message text.

### Return value

Returns if successful, this method returns 1

### Remarks

This method sends text message to MDT

### Examples

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <SendDriverMsg xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
      <CarID>[string]</CarID>  
      <Msg>[string]</Msg>  
    </SendDriverMsg>  
  </Body>  
</Envelope>
```

### Requirements

Interface: Any [IWEBOrder](#)

DLL All

## 3.3.15 SendP2DCall (beta –do not use)

### 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

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <SendP2DCall xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
      <CarID>[string]</CarID>  
      <OrderID>[int]</OrderID>  
    </SendP2DCall>  
  </Body>  
</Envelope>
```

### Requirements

Interface: [IWEBOrder7](#) and above  
DLL: b38 and above

## 3.3.16 UpdateJobPaymentType

### Use Case Example

If passenger needs to change payment type after booking trip.

### 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

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <UpdateJobPaymentType xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
      <AccountID>[int]</AccountID>  
      <OrderID>[int]</OrderID>  
      <ChargeTypeID>[int]</ChargeTypeID>  
    </UpdateJobPaymentType>  
  </Body>  
</Envelope>
```

### Requirements

Interface: [IWEBOrder7](#)

DLL version: None

## 3.3.17 UpdateJobToVehicle

### Use Case Example

#### Method signature

```
function UpdateJobToVehicle(  
    Login: string,  
    Password: string,  
    OrderKey: TBookOrderKey;  
    Vehicle: TVehicleComp  
): integer
```

#### 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

```
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">  
  <Body>  
    <SendP2DCall xmlns="http://tempuri.org/">  
      <Login>[string]</Login>  
      <Password>[string]</Password>  
      <CarID>[string]</CarID>  
      <OrderID>[int]</OrderID>  
    </SendP2DCall>  
  </Body>  
</Envelope>
```

#### Requirements

Interface: [IWEBOrder7](#) 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

### 4.1.1 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
  - Contact Phone Number
  - Pickup Address
  - Drop-off Address
  - Passenger no
  - Pickup Date & pickup Time
  - 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 dispatch system and presented to the customer via the IBS client, set the 'OrderStatus' in tOrder structure to ['TWEBOrderStatusValue.wosPriceQry'](#).
5. Call the 'SaveBookOrder' method with tOrder as a parameter. This will create the order entity in the dispatch system 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 dispatch system 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.
7. 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:
  - 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 dispatch system, set the 'OrderStatus' field in the tOrder structure to ['TWEBOrderStatusValue.wosPost'](#).
  - Call the 'SaveBookOrder' method with tOrder as input parameter.
  - Dispatch system 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

1. 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.

## 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
  - Contact Phone Number
  - Position
  - Department
  - Login
  - Password
  - 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 returned in the 'AccountID' this means that the procedure was successful and an account object has been created in the dispatch system database. 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
  - Pickup Address
  - Drop-off Address
  - Number of Passengers
  - Pickup Date & pickup Time
  - 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:
  - 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
  - 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:
  - Set the 'OrderStatus' field in tOrder structure to '[TWEBOrderStatusValue.wosPost](#)'
  - 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 TVehicleCompType

Name	Description
vctNumber	
vctPimID	
vctMedallion	

### 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
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	Type	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	UNKNOWN

### 5.3.2 TAirportItem

Name	Type	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	Type	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	Type	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	Type	Description
AccType	<a href="#">TAccountType</a>	Type of account
AccountID	Integer	User account ID
AccountName	string	
Address	<a href="#">TWEBAddress</a>	
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	<a href="#">TWEBAccountStatus</a>	
eMail	string	

## 5.3.9 TBookAccount2

Inherited from TBookAccount

Name	Type	Description
<b>Name</b>	<b>Type</b>	<b>Description</b>
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	Type	Description
Name	Type	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	Type	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	<a href="#">TCCTransResult</a>	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	<a href="#">TWEBAddress</a>	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	<a href="#">TWEBTimeStamp</a>	Order submission Date (Time/Date in which trip booking was made called)
OrderID	Int	Web order ID (the same as RideID)
OrderStatus	<a href="#">TWEBOrderStatusValue</a>	Status of trip/order
Passengers	Int	Number of passengers.
Phone	String	Phone number from which order was placed (if applicable).
PickupAddress	<a href="#">TWEBAddress</a>	Pickup address structure.
PickupDate	<a href="#">TWEBTimeStamp</a>	The requested/scheduled Pickup date (leave the time part of the structure blank).
PickupTime	<a href="#">TWEBTimeStamp</a>	The requested/scheduled Pickup time (leave the date part of the structure blank).
ServiceProviderID	Int	Currently not in use.
Tolls	Double	Toll amount associated with trip/order
VehicleTypeID	Int	Cab type id.
VehicleTypeName	String	Cab type name.

## 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	Type	Description
Airline	String	Airline code/name.
AirportCode	String	Airport code.
Arrival	<a href="#">TWEBTimeStamp</a>	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	Type	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	<a href="#">TWEBAddress</a> []	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 [TBookOrder\\_3](#). So it has all properties from [TBookOrder\\_3](#) and [TBookOrder\\_2](#) and [TBookOrder](#) and properties as specified below.

Name	Type	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)
ccType	String	

## 5.3.15 TBookOrder\_5

TBookOrder\_5 is derived from [TBookOrder\\_4](#). So it has all properties from [TBookOrder\\_4](#) and [TBookOrder\\_3](#) and [TBookOrder\\_2](#) and [TBookOrder](#) and properties as specified below.

Name	Type	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	<a href="#">TExceptionsArray</a>	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 [TBookOrder\\_5](#). So it has all properties from [TBookOrder\\_5](#) and [TBookOrder\\_4](#) and [TBookOrder\\_3](#) and [TBookOrder\\_2](#) and [TBookOrder](#) and properties as specified below.

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

## 5.3.17 TBookOrder\_7

TBookOrder\_7 is derived from [TBookOrder\\_6](#). So it has all properties from [TBookOrder\\_6](#) and [TBookOrder\\_5](#) and [TBookOrder\\_4](#) and [TBookOrder\\_3](#) and [TBookOrder\\_2](#) and [TBookOrder](#) and properties as specified below.

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

## 5.3.18 TBookOrder\_8

TBookOrder\_8 is derived from [TBookOrder\\_7](#). So it has all properties from [TBookOrder\\_7](#) and [TBookOrder\\_6](#) and [TBookOrder\\_5](#) and [TBookOrder\\_4](#) and [TBookOrder\\_3](#) and [TBookOrder\\_2](#) and [TBookOrder](#) and properties as specified below.

Name	Type	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	Type	Description
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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

## 5.3.20 TBookOrder\_11

TBookOrder\_10 is derived from TBookOrder\_8

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

## 5.3.21 TBookOrderKey

Name	Type	Description
GUID	String	Uniques key for using with multiple Cabmate interfaces
OrderID	Integer	Order primary key

## 5.3.22 TBookOrderList\_3

Name	Type	Description
OrderCount	Integer	Total number of trips/bookings.
OrderList	<a href="#">TOrderList_3</a>	Array of trips/bookings.

## 5.3.23 TBookOrderList\_4

Name	Type	Description
OrderCount	Integer	Total number of trips/bookings.
OrderList	<a href="#">TOrderList_4</a>	Array of trips/bookings.

## 5.3.24 TBookOrderList\_5

Name	Type	Description
OrderCount	Integer	Total number of trips/bookings.
OrderList	<a href="#">TOrderList_5</a>	Array of trips/bookings.

## 5.3.25 TBookOrderList\_6

Name	Type	Description
OrderCount	Integer	Total number of trips/bookings.
OrderList	<a href="#">TOrderList_6</a>	Array of trips/bookings.

## 5.3.26 TBookOrderList\_7

Name	Type	Description
OrderCount	Integer	Total number of trips/bookings.
OrderList	<a href="#">TOrderList_7</a>	Array of trips/bookings.

## 5.3.27 TBookOrderList\_8

Name	Type	Description
OrderCount	Integer	Total number of trips/bookings.
OrderList	<a href="#">TOrderList_8</a>	Array of trips/bookings.

## 5.3.28 TChargeTypeItem

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

## 5.3.29 TChargeTypeArray

Structure which is an array of [TChargeTypeItem](#)

## 5.3.30 TCityItem

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

## 5.3.31 TCityArray

Structure which is an array of [TCityItem](#).

## 5.3.32 TDriverType

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

## 5.3.33 TDriverTypeArray

Structure which is an array of [TDriverType](#)

## 5.3.34 TException

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

## 5.3.35 TExceptionsArray

Structure which is an array of [TException](#)

## 5.3.36 TExceptionItem

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

## 5.3.37 TExceptionArray

Structure which is an array of [TExceptionItem](#)

## 5.3.38 TFavoriteAddressesArray

Structure which is an array of [TWEBFavotiteAddress](#)

## 5.3.39 TFlatRatePlaceltem

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

## 5.3.40 TFlatRatePlaceArray

Structure which is an array of [TFlatRatePlaceltem](#)

## 5.3.41 TFlatRateValue

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

## 5.3.42 TOrderIDList

Structure which is an array of integer values

## 5.3.43 TOrderList\_3

Structure which is an array of [TBookOrder\\_3](#)

## 5.3.44 TOrderList\_4

Structure which is an array of [TBookOrder\\_4](#)

## 5.3.45 TOrderList\_5

Structure which is an array of [TBookOrder\\_5](#)

## 5.3.46 TOrderList\_6

Structure which is an array of [TBookOrder\\_6](#)

## 5.3.47 TOrderList\_7

Structure which is an array of [TBookOrder\\_7](#)

## 5.3.48 TOrderList\_8

Structure which is an array of [TBookOrder\\_8](#)

## 5.3.49 TOrderStatus

Name	Type	Description
DriverFirstName	String	
DriverLastName	String	
DriverMobilePhone	String	
ETATime	<a href="#">TWEBTimeStamp</a>	
Fare	Double	
OrderID	Integer	
OrderStatus	<a href="#">TWEBOrderStatusValue</a>	
Tips	Double	
Tolls	Double	
VAT	Double	
VehicleColor	String	
VehicleCoordinateLat	Double	
VehicleCoordinateLong	Double	
VehicleMake	String	
VehicleModel	String	
VehicleNumber	String	
VehicleRegistration	String	

## 5.3.50 TOrderStatus\_2

Name	Type	Description
CallNumber	String	
ReferenceNumber	String	
TerminalId	String	

## 5.3.51 TOrderStatus\_3

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

## 5.3.52 TOrderStatus\_4

Name	Type	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
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## 5.3.53 TOrderStatusList

Structure which is an array of [TOrderStatus](#)

## 5.3.54 TOrderStatusList\_2

Structure which is an array of [TOrderStatus\\_2](#)

## 5.3.55 TOrderStatusList\_3

Structure which is an array of [TOrderStatus\\_3](#)

## 5.3.56 TOrderStatusList\_4

Structure which is an array of [TOrderStatus\\_4](#)

## 5.3.57 TPaymentAuthorization3dParty

Name	Type	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”.

## 5.3.58 TProviderItem

Name	Type	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

## 5.3.59 TProviderArray

Structure which is an array of [TProviderItem](#)

## 5.3.60 TRun

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

Name	Type	Description
RunNum	String	
RunRides	<a href="#">TOrderList_6</a>	

## 5.3.61 TVehicleComp

Name	Type	Description
VehicleCompType	<a href="#">TVehicleCompType</a>	
VehicleID	string	
ETADistance	Integer	
ETATime	Integer	
Rating	string	

## 5.3.62 TVehicleCompArray

Structure which is an array of [TVehicleComp](#)

## 5.3.63 TVehiclePosition

Name	Type
VehicleNumber	String
Longitude	Double



Latitude	Double
GPSTimestamp	TWEBTimeStamp

## 5.3.64 TVehiclePositionArray

Structure which is an array of [TVehiclePosition](#)

## 5.3.65 TVehiclePosition\_2

TVehiclePosition\_2 is derived from [TVehiclePosition](#). So it has all properties from TVehiclePosition and properties as specified below.

Name	Type
DriverID	String

## 5.3.66 TVehiclePositionArray\_2

Structure which is an array of [TVehiclePosition\\_2](#)

## 5.3.67 TVehiclePosition\_3

TVehiclePosition\_3 is derived from [TVehiclePosition\\_2](#). So it has all properties from [TVehiclePosition\\_2](#).

## 5.3.68 TVehiclePositionArray\_3

Structure which is an array of [TVehiclePosition\\_3](#)

## 5.3.69 TVehiclePosition\_4

TVehiclePosition\_4 is derived from [TVehiclePosition\\_3](#). So it has all properties from [TVehiclePosition\\_3](#) and properties as specified below.

Name	Type
VehicleType	TVehicleTypeItem

## 5.3.70 TVehiclePositionArray\_4

Structure which is an array of [TVehiclePosition\\_4](#)

## 5.3.71 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

## 5.3.72 TVehicleTypeArray

Structure which is an array of [TVehicleTypeItem](#)

## 5.3.73 TWEBAddress

Name	Type	Description
AddressID	integer	
AptBaz	string	

CityID	integer	
CountryID	integer	
Latitude	double	
Longitude	double	
Postal	string	
RegionID	integer	
RunOrder	integer	
StopOrder	integer	
StopPass	integer	
StopTime	<a href="#">TWEBTimeStamp</a>	
StreetPlace	string	

## 5.3.74 TWebDriver

Name	Type	Description
DriverID	string	XDS driver call number
Exceptions	<a href="#">TExceptionsArray</a>	list of exceptions. Available from b16
DisqualifiedZones	<a href="#">TZoneNameArray</a>	list of banned zones. Available 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)

## 5.3.75 TWebDriver\_2

Name	Type	Description
ProviderID	integer	
ProviderCode	string	
CallNumber	string	
Lat	double	
Lon	double	
LastGPSUpdate	<a href="#">TWEBTimeStamp</a>	
EstimETA	<a href="#">TWEBTimeStamp</a>	

## 5.3.76 TWebDriverList

Structure which is an array of TWebDriver

## 5.3.77 TWebDriverList\_2

Structure which is an array of TWebDriver\_2

## 5.3.78 TWEBFavotiteAddress

TWEBFavotiteAddress is derived from [TWEBAddress](#). So it has all properties from [TWEBAddress](#) and properties as specified below.

Name	Type	Description
AddressAlias	string	

## 5.3.79 TWEBTimeStamp

Name	Type	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

## 5.3.80 TWebVehicle

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

## 5.3.81 TZoneNameArray

Structure which is an array of string

## 6 COMMON PARAMETERS

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### 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

## 7 APPENDIX A: ERROR CODES

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-1	Unknown error
-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