

**Technical Document**

# **API**

## **[Application Programming Interface]**

**BoB Finance**

**September 13, 2022**

**Version 2.5**

**WesternUnion**  **WU**

**BOB**

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**2.5**

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**Ziad BOU CHACRA**

**Adding SendPinRequest and  
SendTouchPinRequest methods  
for Alfa and Touch.**

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# **1. Introduction**

## ***1.1. Document Purpose***

©BoB Finance S.A.L. is one of the largest networks of financial services operating in Lebanon. With over than 700 locations across the country, BoB Finance provides key services such as: Remittance, Bill Payments, Mobile Top-up and Corporate Cash Collection.

BoB Finance has developed an API that allows any third party to integrate and use its platform in order to make different payments for the different provided services.

The purpose of this document is to explain, how an entity would communicate with BoB Finance's API, what the requirements are and how the service should be implemented.

## ***1.2. Intended Audience***

This document is intended to represent a reference for all the parties willing to communicate with BoB Finance:

- Third Party
- BoB Finance

## 2. Functional Requirements

### 2.1. Services Diagram

BoB Finance provides multiple services and they are structured as per the below. You should note that the highest level is the Service, then under each service you can see multiple Service Providers and under each Service Provider one to many Product Types:

- Bill Collection
  - Alfa
  - Touch
    - Due Bill Amount
    - Deposit Amount
    - Advanced Amount
  - ...
- Money Transfer
  - Western Union
  - BoB Finance
  - ...
- ...

### 2.2. Configuration methods

- *RetrieveChannelServices*: This method will return all the groups of services available.
- *RetrieveChannelServiceProviders*: This method will return the services providers that the third party can consume and which are available under the selected service.
- *RetrieveChannelProductTypes*: This method will return the product types available for the selected service provider under the selected service.
- *GetChannelConfigurationFile*: This method will return the acceptable options for all the lists configured by BoB Finance.
- *GetAmountFees*: This method will return all the Fees information.
- *CheckComplianceName*: This method will return the compliance status of the provided customer at BoB Finance.

### 2.3. Transactional methods

- *RetrieveChannelResults*: This method will be called in order to search for a payment at BoB Finance.
- *InjectTransactionalPayment*: This method will be called in order to submit a payment at BoB Finance.
- *PrintEndOfDayReport*: This method will be used to print the MoF End of Day report. This report is mandatory in case a payment is available for Mechanique, Tax or VAT.
- *RetrieveTransactionReceipt*: This method will be used to print the Ogero receipt. The receipt is officially generated from the telecom company.

- *CancelChannelTransaction*: This method will be used to cancel an Ogero payment. Currently this method is only used for Ogero.
- *InsertTransferData*: This method will insert a new C2B Transfer for a specific Company.
- *ClearTransfers*: This method will remove All the C2B and Pending transfers for the company that are created through the API.
- *RemoveTransfer*: This method will remove a specific C2B transfer created through the API by the provided CRM Number.
- *SendPinRequest*: This method will be called in order to send the PIN code to the customers of Alfa prior of calling *RetrieveChannelResults* and get the amount.
- *SendTouchPinRequest*: This method will be called in order to send the PIN code to the customers of Touch prior of calling *RetrieveChannelResults* and get the amount.

#### **2.4. Non-transactional methods**

- *RetrieveChannelMetadata*: This method will return all the fields needed for a payment to be performed.
- *ShowPaymentsHistory*: This method will return all the transactions performed by a third party.
- *GetTransferStatus*: This method will return the latest status of a specified C2B Transfer.
- *GetCustomers*: This method will return all the C2B2C Customers of the specified Company.
- *GetTransfers*: This method will return all the C2B2C transactions created for by or for the specified company between a specific timeframe.
- *GetLimit*: This method will return the remaining LBP and USD balance of the configured limit for a C2B2C company.
- *GetTransactionDetails*: This method will return the information of the transaction related to the specified Reference Number.
- *SendSMS*: This method will send a mobile message containing the Transaction Reference Number to a specific Mobile Number.

### 3. Methods' Description

- **URL:** <https://185.174.240.230:8445/BoBFinanceAPI/WS/>
- **Domain:**
  - For UAT: **185.174.240.230**
  - For production: **services.bob-finance.com**
- **Port:** The port will be **8445**
- **RetrieveChannelServices:** is the method name and should change accordingly when retrieving services, service providers, product types, metadata, getting configuration file, getting results or on pay.
- All Returning attributes are stored and returned as JSON Objects and arrays.
- The parameter values that should be sent in **Arabic**, should be encoded Base64 first (... الحى الشارع).
- **Services:**
  - *RetrieveChannelServices:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/RetrieveChannelServices>
  - *RetrieveChannelServiceProviders:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/RetrieveChannelServiceProviders>
  - *RetrieveChannelProductTypes:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/RetrieveChannelProductTypes>
  - *GetChannelConfigurationFile:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/GetChannelConfigurationFile>
  - *GetAmountFees:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/GetAmountFees>
  - *CheckComplianceName:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/CheckComplianceName>
  - *RetrieveChannelResults:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/RetrieveChannelResults>
  - *InjectTransactionalPayment:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/InjectTransactionalPayment>
  - *PrintEndOfDayReport:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/PrintEndOfDayReport>
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  - *CancelChannelTransaction:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/CancelChannelTransaction>
  - *InsertTransferData:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/InsertTransferData>

- *ClearTransfers:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/ClearTransfers>
- *RemoveTransfer:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/RemoveTransfer>
- *SendPinRequest:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/SendPinRequest>
- *SendTouchPinRequest:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/SendTouchPinRequest>
- *RetrieveChannelMetadata:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/RetrieveChannelMetadata>
- *ShowPaymentsHistory:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/ShowPaymentsHistory>
- *GetTransferStatus:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/GetTransferStatus>
- *GetCustomers:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/GetCustomers>
- *GetTransfers:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/GetTransfers>
- *GetLimit:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/GetLimit>
- *GetTransactionDetails:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/GetTransactionDetails>
- *SendSMS:*  
<https://185.174.240.230:8445/BoBFinanceAPI/WS/SendSMS>

### 3.1. RetrieveChannelServices

This method will return all the groups of services available by providing their corresponding ID, Name, Description and Logo. This service id (known as ItemId) can be used as a filter. Passing it in the request of other methods will filter the response accordingly.

**N.B.:** Whenever an update is made on a specific service provider, a new call should be made to this method in order to be notified of the updated fields and reflect the changes, if needed.

Parameter Name	Type	Description	Required
Channel Type	String	Channel Type	True
Credentials	JSON	JSON user and pass	True

Return Attribute	Type	Description
Item ID	Integer	ID of the service
Item Name	String	Name of the service
Description	String	Description of the service
Logo	byte	Logo of the service
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)

#### 3.1.0. Request Example

```
{
  "ChannelType": "API",
  "Credentials": {
    "User": "adib.b",
    "Password": "1"
  }
}
```

Figure 1 - RetrieveChannelServices Request

### 3.1.1. Response example

```
{
  "ErrorDescription": "Channel Services retrieved successfully.",
  "Response": "H4sIAAAAAAAAAAKtWCKvMKU0tVrKKr1YKti0qy0xOVTAA8pQM1XSUnDx9fBSc
  \X18XJ1DPP39sInklebkxNbqIDQbgjQbA5X6
  +vu5RiqEBDn6Bbu5BmERwNBqBNJqYwICUuvp5xkcEhSp40+m40bp5
  +jn7IplFGJMrA7UJwopqcXJRZkFJZn5eSDzYIY756ekAo2Acf0Sc0FcFyTFCEmf\PR8pdhaAHUf7VAdAQAA",
  "ErrorCode": 100
}
```

Figure 2 - RetrieveChannelServices Response

### 3.1.2. Response Example Decompressed

```
{
  "Values":
  [
    {
      "Service0": ["1", "BILL COLLECTION", "BILL COLLECTION", null],
      "Service1": ["3", "MONEY TRANSFER", "MONEY TRANSFER", null],
      "Service2": ["844", "MINISTRY OF FINANCE", "MINISTRY OF FINANCE", null]
    }
  ],
  "Values description": ["Service Code", "Service Name", "Description", "Service Logo"]
}
```

Figure 3 - RetrieveChannelServices Response Decompressed



### 3.2. RetrieveChannelServiceProviders

This method will return the service providers (second level) that the third party can consume and which are available under the selected service.

This method provides the service providers' related ID, Name, Descriptions and Logos for the intended credentials and channel type. The service provider ID (known as VenId) can be used as a filter. Passing it in the request of other methods will filter the response accordingly.

**N.B.:** Whenever an update is made on a specific service provider, a new call should be made to this method in order to be notified of the updated fields and reflect the changes, if needed.

Parameter Name	Type	Description	Required
Channel Type	String	Channel Type	True
Credentials	JSON	JSON username and password	True
Item ID	Integer	ID of the service	False

Return Attribute	Type	Description
Ven ID	Integer	ID of the service provider
Ven Name	String	Name of the service provider
Description	String	Description of the service provider
Logo	byte	Logo of the service provider
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)

#### 3.2.0. Request Example

```
{
  "ItemId":6,
  "ChannelType":"API",
  "Credentials":
    {
      "User":"adib.b",
      "Password":"1"
    }
}
```

Figure 4 - RetrieveChannelServiceProviders Request

### 3.2.1. Response Example

```
{
  "ErrorDescription": "Channel Service Providers retrieved successfully.",
  "Response": "H4sIAAAVSEBkupz\\/+tLL\\r1Zd90VWPZ9U2i5K2txay6Q0hPAfDYwEQXQuCMBSG
\\8o4117kVxfD2VwqrCmbBRFeiI4QTEOzG\\G
\\t1WlgTfjnPd9HjshHNeD7KH3XWEjXrBBQPSOEgnZDE0Q11nkzGCqRFLNZzg0OMBQdjvlgJZsXSiqMIEUZJErEA
\\c8zaGvQVUxZuSCUu4xcSB8JZgVRyumIvYRpQjH1BKcRjFbS2bJ1dJWIdgT4efc\\kLZgaEMi9lp\\8Gh0xe=AAA=AAAAAG2
AAAAAG2QXQuCMBSG\\8o4117kVxfD2VwqrCmbBRFeiI4QTEOzG\\G
\\t1WlgTfjnPd9HjshHNeD7KH3XWEjXrBBQPSOEgnZDE0Q11nkzGCqRFLNZzg0OMBQdjvlgJZsXSiqMIEUZJErEA
\\c8zaGvQVUxZuSCUu4xcSB8JZgVRyumIvYRpQjH1BKcRjFbS2bJ1dJWIdgT4efc\\kLZgaEMi9lp\\8Gh0xe",
  "ErrorCode": 100
}
```

Figure 5 - RetrieveChannelServiceProviders Response

### 3.2.2. Response Example Decompressed

```
{
  "Values":
  [
    { "ServiceProvider0":
      [1, "ALFA", "ALFA", B@4235228]
    }
  ]
}
```

Figure 6 - RetrieveChannelServiceProviders Response Decompressed

```
"Values description":
["Service Provider Code", "Service provider Name", "Description", "Service Provider Logo"]
```

Figure 7 - RetrieveChannelServiceProviders Response Decompressed Fields

### 3.3. RetrieveChannelProductTypes

This method will return the product types available (third level) for the selected Service\Service provider. The types signify the different categories of payments that a customer can perform on the related Service Provider.

This method retrieves all the product types of the service and service provider IDs passed within the request. For example, the product types of the service provider *Touch* are: *Due Amount*, *Advanced Amount* and *Deposit Amount*.

**N.B.:** Whenever an update is made on a specific service provider, a new call should be made to this method in order to be notified of the updated fields and reflect the changes, if needed.

Parameter Name	Type	Description	Required
Channel Type	String	Channel Type	True
Credentials	JSON	JSON username and password	True
Item ID	Integer	ID of the service	True
Ven ID	Integer	ID of the service provider	True

Return Attribute	Type	Description
Product ID	Integer	ID of the product
Product Name	String	Name of the product
Description	String	Description of the product
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)

#### 3.3.0. Request Example

```
{
  "ItemId":1,
  "VenId":2,
  "ChannelType":"API",
  "Credentials":
    {
      "User":"adib.b",
      "Password":"1"
    }
}
```

Figure 8 - RetrieveChannelProductTypes Request

### 3.3.1. Response Example

```
{
  "ErrorDescription": "Channel Service Providers retrieved successfully.",
  "Response": "H4sIAAAVSEBkupz\\/+tLL\\r1Zd90VwPZ9U2i5K2txay6Q0hPAFDYwEQXQuCMBSG\\  
\\8o4117kVxf2VwqrCmbBRFeiI4QTEOzG\\G\\  
\\t1WigTfjnPd9HjshHNeD7KH3XWEjXrBBQPSOEgnZDE0Q11nkzGCqRFLNZzg0OMBQdjvlgJZsXSiqMIEUZJErEA\\  
\\c8zaGvQVUxZuSCUu4xcS8BjZgVRyumIvYRpQjH1BKcRjFbS2bJ1dJWIdgT4efc\\\\/kLZgaEMi9lp\\8GhOxe=AAA=AAAAAG2\\  
AAAAAG2QXQuCMBSG\\8o4117kVxf2VwqrCmbBRFeiI4QTEOzG\\G\\  
\\t1WigTfjnPd9HjshHNeD7KH3XWEjXrBBQPSOEgnZDE0Q11nkzGCqRFLNZzg0OMBQdjvlgJZsXSiqMIEUZJErEA\\  
\\c8zaGvQVUxZuSCUu4xcS8BjZgVRyumIvYRpQjH1BKcRjFbS2bJ1dJWIdgT4efc\\\\/kLZgaEMi9lp\\8GhOxe",
  "ErrorCode": 100
}
```

Figure 9 - RetrieveChannelProductTypes Response

### 3.3.2. Response Example Decompressed

```
{
  "Values": {
    "Service1": [
      {
        "ServiceCode": 3,
        "ServiceName": "MONEY TRANSFER",
        "ServiceProvider0": [
          {
            "ServiceCode": 6,
            "ServiceName": "BOB FINANCE",
            "Product Type 0": [
              {
                "Product Type Id": 5,
                "Product Type": "C2B"
              }
            ]
          }
        ]
      }
    ],
    "Service0": [
      {
        "ServiceCode": 1,
        "ServiceName": "BILL COLLECTION",
        "ServiceProvider1": [
          {
            "ServiceCode": 2,
            "ServiceName": "TOUCH",
            "ProductType2": [
              {
                "Product Type Id": 3,
                "Product Type": "Deposit Amount"
              }
            ],
            "ProductType1": [
              {
                "Product Type Id": 2,
                "Product Type": "Advanced Payment"
              }
            ],
            "ProductType0": [
              {
                "Product Type Id": 1,
                "Product Type": "Due Bill Payment"
              }
            ]
          }
        ]
      }
    ]
  },
  "Values description": [
    "Service Code", "Service Name", "Service Provider Code", "Service Provider Name", "Product Type Id", "Product Type"
  ]
}
```

Figure 10 - RetrieveChannelProductTypes Response Decompressed

### 3.4. GetChannelConfigurationFile

For some Service Providers calling only the *RetrieveChannelMetadata* is not enough. Some of the input parameters for the *RetrieveChannelResults*, are considered to be lookups and their values should be displayed and considered as acceptable options based on the configuration set by BoB Finance. The lists of Countries and Currencies are examples of those lookups and should be read from BoB Finance. The acceptable options for the Currency field are “USD” and “LBP” and any other value will not be accepted.

**N.B.:** Whenever an update is made on a specific service provider, a new call should be made to this method in order to be notified of the updated fields and reflect the changes, if needed.

Parameter Name	Type	Description	Required
Channel Type	String	Channel Type	True
Credentials	JSON	JSON username and password	True
PreConfigured Data ID	String	ID of the data configuration	False

Return Attribute	Type	Description
Preconfigured Data	JSON	Preconfigured data (ex: Companies, countries, currency...)

#### 3.4.0. Request Example

```
{
  "ChannelType": "API",
  "Credentials": {
    "User": "adib.b",
    "Password": "1"
  }
}
```

Figure 11 - GetChannelConfigurationFile Request

### 3.4.1. Response Example

```
{
  "ConfigurationFileDataId:1":
  [
    {
      "DepositAmount1": [2,50], "DepositAmount0": [1,100]},
    {
      "ValuesDescription": ["Deposit Amount Id", "Deposit Amount Value"]}
  ],
  "ConfigurationFileDataId:2":
  [
    {
      "C2BCompany39": ["107009", "BOBCOM", "516"],
      "C2BCompany79": ["219737", "OLIVE GARDENS RESORT", "1201"],
      "C2BCompany75": ["109513", "SS-BOB COMPANY", "529"]
    },
    {
      "ValuesDescription": ["Customer Company Id", "Company Name", "Soc Id"]}
  ],
  "ConfigurationFileDataId:8":
  [
    {
      "RealEstateRegion1273": ["70", "430", "?????", "3394"],
      "RealEstateRegion1272": ["76", "436", "?????", "3394"]
    },
    {
      "ValuesDescription": ["Real Estate Region Id", "Real Estate Region Code", "Real Estate Region Name", "Parent Location Code"]}
  ],
  "ConfigurationFileDataId:7":
  [
    {
      "Province6": ["1", "3414", "?????", "0"],
      "Province8": ["2", "3373", "??? ?????", "0"]
    },
    {
      "ValuesDescription": ["Province Id", "Province Code", "Province Name", "Order Name"]}
  ],
  "ConfigurationFileDataId:9":
  [
    {
      "Country66": ["147", "OMAN"],
      "Country64": ["145", "MOROCCO"]
    },
    {
      "ValuesDescription": ["Country Id", "Country Name"]}
  ],
  "ConfigurationFileDataId:5":
  [
    {
      "IDType5": ["6", "PALESTINIAN REFUGEE CARD"],
      "IDType6": ["7", "UNITED NATIONS REFUGEE CARD"],
      "IDType0": ["1", "NATIONAL IDENTIFICATION CARD"]
    },
    {
      "ValuesDescription": ["Id Type Code", "Id Type Name"]}
  ]
}
```

Figure 12 - GetChannelConfigurationFile Response

### 3.4.2. PreConfigured Data IDs and Descriptions

If *PreConfiguredDataId* has been sent with the JSON request, the response will contain the specified data needed through this parameter. Otherwise, all data will be fetched and sent back in the response as in the next example.

ID	Description
1	Touch Deposit Amount
2	iTransfer C2B Company Lookup
3	Currency
4	Casa
5	ID Type Configuration Data
6	iTransfer C2B Country of Issue
7	Province
8	Real Estate Region
9	Country
10	Customer On Behalf Of
11	All Companies Customers
12	iTransfer C2B Casa
13	C2C Purpose of Transaction
14	C2C Source of Funds
15	C2C Payout or B2C Payout Type

```
{
  "PreConfiguredDataId":11,
  "ChannelType":"API",
  "Credentials":
  {
    "User":"adib.b",
    "Password":"1"
  }
}
```

Figure 13 - GetChannelConfigurationFile with PreConfiguredDataId Request

```
{
  "ConfigurationFileDataId:9":
  [
    {
      "Country66":["147","OMAN"],
      "Country64":["145","MOROCCO"]
    },
    {"ValuesDescription":["Country Id","Country Name"]}
  ]
}
```

Figure 14 - GetChannelConfigurationFile with PreConfiguredDataId Response



### 3.5. GetAmountFees

This is the method that will be called in order to return all the fees configured for the available services.

Parameter Name	Type	Description	Required																
Channel Type	String	Channel Type	True																
Credentials	JSON	JSON username and password	True																
Item ID	Integer	ID of the service	False																
Ven ID	Integer	ID of the service provider	False																
Product ID	Integer	ID of the product	False																
Parameters	JSON	<table><tr><th>Parameter Name</th><th>Type</th><th>Description</th><th>Required</th></tr><tr><td>Amount</td><td>String</td><td>Amount to get the fee for</td><td>False</td></tr><tr><td>Currency</td><td>String</td><td>Currency of the amount</td><td>False</td></tr><tr><td>PromoCode</td><td>String</td><td>Promo Code</td><td>False</td></tr></table>	Parameter Name	Type	Description	Required	Amount	String	Amount to get the fee for	False	Currency	String	Currency of the amount	False	PromoCode	String	Promo Code	False	True
Parameter Name	Type	Description	Required																
Amount	String	Amount to get the fee for	False																
Currency	String	Currency of the amount	False																
PromoCode	String	Promo Code	False																

Input parameters should be put in a JSON Object named according to the product type as following:

Return Attribute	Type	Description																																										
Request ID	String	Request ID (for tracking purposes)																																										
Values	JSON	<div> Main Key to list the Result attributes in it <table> <tr> <th>Return Attribute</th><th>Type</th><th>Description</th></tr> <tr> <td>Amount</td><td>Double String</td><td>Bill Amount</td></tr> <tr> <td>Amount1</td><td>Double String</td><td>0.0 for future use</td></tr> <tr> <td>Amount2</td><td>Double String</td><td>0.0 for future use</td></tr> <tr> <td>Fees</td><td>Double String</td><td>Fee amount calculated</td></tr> <tr> <td>Fees1</td><td>Double String</td><td>0.0 for future use</td></tr> <tr> <td>Additional Fees</td><td>Double String</td><td>Additional Charges Amount calculated</td></tr> <tr> <td>Rounding</td><td>Double String</td><td>Rounding amount calculated</td></tr> <tr> <td>Total Amount</td><td>Double String</td><td>Total Amount calculated</td></tr> <tr> <td>Currency</td><td>String</td><td>The used currency</td></tr> <tr> <td>Service Code</td><td>Integer</td><td>Service Code value</td></tr> <tr> <td>Service Name</td><td>String</td><td>Service Name value</td></tr> <tr> <td>Service Provider Code</td><td>Integer</td><td>Service Provider Code value</td></tr> <tr> <td>Service Provider Name</td><td>String</td><td>Service Provider Name value</td></tr> </table> </div>	Return Attribute	Type	Description	Amount	Double String	Bill Amount	Amount1	Double String	0.0 for future use	Amount2	Double String	0.0 for future use	Fees	Double String	Fee amount calculated	Fees1	Double String	0.0 for future use	Additional Fees	Double String	Additional Charges Amount calculated	Rounding	Double String	Rounding amount calculated	Total Amount	Double String	Total Amount calculated	Currency	String	The used currency	Service Code	Integer	Service Code value	Service Name	String	Service Name value	Service Provider Code	Integer	Service Provider Code value	Service Provider Name	String	Service Provider Name value
Return Attribute	Type	Description																																										
Amount	Double String	Bill Amount																																										
Amount1	Double String	0.0 for future use																																										
Amount2	Double String	0.0 for future use																																										
Fees	Double String	Fee amount calculated																																										
Fees1	Double String	0.0 for future use																																										
Additional Fees	Double String	Additional Charges Amount calculated																																										
Rounding	Double String	Rounding amount calculated																																										
Total Amount	Double String	Total Amount calculated																																										
Currency	String	The used currency																																										
Service Code	Integer	Service Code value																																										
Service Name	String	Service Name value																																										
Service Provider Code	Integer	Service Provider Code value																																										
Service Provider Name	String	Service Provider Name value																																										
Values Display Names	JSON	Main Key to list the Result Title values in it																																										
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)																																										

### 3.5.0. Request Example

```
{
  "ChannelType": "API",
  "Credentials":
  {
    "User": "user",
    "Password": "pass"
  },
  "Parameters": {}
}
```

Figure 15 - GetAmountFees Request

### 3.5.1. Response Example

```
{
  "ErrorDescription": "Data received successfully.",
  "Response":
  "H4sIAAAAAAAAAAKtWCkvMKU0tVrKqVoryTS0uTkxPVbJSUqrVgUq4ZBYX5CRW+iXmYigKyUhVgEfQAAAA==",
  "ErrorCode": 100
}
```

Figure 16 - GetAmountFees Response

### 3.5.2. Response Example Decompressed

```
{
  "Values":
  [
    {
      "AmountSecondary": "0",
      "Amount": "1,250",
      "MaximumRange": "120,000,000",
      "Service": "BILL COLLECTION",
      "MinimumRange": "1,000",
      "ServiceProvider": "TOUCH",
      "TransType": "Sent",
      "Currency": "LBP"
    },
    {
      "AmountSecondary": "0",
      "Amount": "1,600",
      "MaximumRange": "120,000,000",
      "Service": "BILL COLLECTION",
      "MinimumRange": "1,000",
      "ServiceProvider": "ALFA",
      "TransType": "Sent",
      "Subagent": "BoB 6",
      "Currency": "LBP"
    }
  ],
  "ValuesDisplayNames":
  {
    "AmountSecondary": "Amount Secondary",
    "Amount": "Amount",
    "MaximumRange": "Maximum Range",
    "Service": "Service Name",
    "Channel": "Channel Name",
    "MinimumRange": "Minimum Range",
    "ServiceProvider": "Service Provider Name",
    "TransType": "Transaction Type",
    "TaxName": "Tax Name",
    "Company": "Company Name",
    "Subagent": "Subagent Name",
    "Currency": "Currency"
  },
  "RequestId": "95ed41b2-c3b6-45d7-bcd4-f6930360a952"
}
```

Figure 17 - GetAmountFees Response Decompressed

### 3.6. CheckComplianceName

This method will return the compliance status of the provided customer at BoB Finance.

Parameter Name	Type	Description	Required																								
Channel Type	String	Channel Type	True																								
Credentials	JSON	JSON username and password	True																								
Item ID	Integer	ID of the service	False																								
Ven ID	Integer	ID of the service provider	False																								
Product ID	Integer	ID of the product	False																								
Parameters	JSON	The parameters are related to the Customer that is being checked. <table><tr><th>Parameter Name</th><th>Type</th><th>Description</th><th>Required</th></tr><tr><td>Date of Birth</td><td>String</td><td>Date of Birth of the customer</td><td>True</td></tr><tr><td>ID Number</td><td>String</td><td>Identification Number of the customer</td><td>True</td></tr><tr><td>Year of Birth</td><td>String</td><td>Year of Birth of the customer</td><td>True</td></tr><tr><td>First Name</td><td>String</td><td>First Name of the customer</td><td>True</td></tr><tr><td>Last Name</td><td>String</td><td>Last Name of the customer</td><td>True</td></tr></table>	Parameter Name	Type	Description	Required	Date of Birth	String	Date of Birth of the customer	True	ID Number	String	Identification Number of the customer	True	Year of Birth	String	Year of Birth of the customer	True	First Name	String	First Name of the customer	True	Last Name	String	Last Name of the customer	True	True
Parameter Name	Type	Description	Required																								
Date of Birth	String	Date of Birth of the customer	True																								
ID Number	String	Identification Number of the customer	True																								
Year of Birth	String	Year of Birth of the customer	True																								
First Name	String	First Name of the customer	True																								
Last Name	String	Last Name of the customer	True																								

Input parameters should be put in a JSON Object named according to the product type as following:

Return Attribute	Type	Description
Request ID	String	Request ID (for tracking purposes)
Values	JSON	True or False
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)

### 3.6.0. Request Example

```
{
  "ItemId": 846,
  "VenId": 33,
  "ChannelType": "API",
  "ProductId": 40,
  "Credentials":
  {
    "User": "user_name",
    "Password": "user_password"
  },
  "Parameters":
  {
    "DateOfBirth": "01/01/2001",
    "IDNumber": "123456",
    "YearOfBirth": "2001",
    "FirstName": "CHRISTA",
    "LastName": "TAUK"
  }
}
```

Figure 18 – CheckComplianceName Request

### 3.6.1. Response Example

```
{
  "ErrorDescription": "Data received successfully.",
  "Response":
  "H4sIAAAAAAAAAAKtWCkvMKU0tVrKqVnJJLU4uyiwoyczPU7JSckvMKU5VqtVRCkotBCoo8",
  "ErrorCode": 100
}
```

Figure 19 – CheckComplianceName Response

### 3.6.2. *Response Example Decompressed*

```
{
  "Values":
  {
    "Description": "True"
  },
  "RequestId": "6258c624-a7af-4c29-a742-476e6e152535"
}
```

Figure 20 – CheckComplianceName Response Decompressed

### 3.7. RetrieveChannelResults

This is the method that will be called in order to search for a payment at BoB Finance. This is the first method that should be consumed in order to start with a transaction.

As mentioned above under [3.4. RetrieveChannelMetadata](#) section, the *Input Parameters* of this method, are going to be specified in the *RetrieveChannelMetadata* of each service provider.

Moreover, this method is going to provide the needed *Input Parameters* for *InjectTransactionalPayment*.

For example, for the *Alfa* service provider, when searching for a GSM Number the returned information will be the amount, fees, rounding, total amount, etc... in addition, to the Payer Name and Payer Mobile Number which are considered the *Input Parameters* for the *InjectTransactionalPayment* method.

**N.B:** For Alfa and Touch services, you need to call the *SendPinRequest* and the *SendTouchPinRequest* respectively prior of calling this method.

Parameter Name	Type	Description	Required
Channel Type	String	Channel Type	True
Credentials	JSON	JSON username and password	True
Item ID	Integer	ID of the service	True
Ven ID	Integer	ID of the service provider	True
Product ID	Integer	ID of the product	True
Input Parameters	JSON	Dynamic Input parameters from Metadata	True

Input parameters should be put in a JSON Object named according to the product type as following:

Return Attribute	Type	Description
Amount	Double String	Bill Amount
Amount1	Double String	0.0 for future use
Amount2	Double String	0.0 for future use
Fees	Double String	Fee amount calculated
Additional Fees	Double String	Additional Charges Amount calculated
Fee1	Double String	0.0 for future use
Currency	String	Currency of the transaction
Reference Number	String	Reference Number of the transaction
Additional dynamic input parameters	JSON	Additional inputs ( Ex.: Payer Name, Payer Mobile Number...)



Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)
----------------------------	------	---

### 3.7.0. Request Example

Input parameters should be put in a JSON Object named according to the product type as following:

```
Product Type: 1 ==> TouchDueMeta
Product Type: 2 ==> TouchAdvancedMeta
Product Type: 3 ==> TouchDepositMeta
Product Type: 4 ==> AlfaBillMeta
Product Type: 5 ==> C2BMeta
Product Type: 6 ==> PropertyBuiltMeta
```

Figure 21 - RetrieveChannelResults | ProductTypeIDs

```
{
  "ItemId":1,
  "AlfaBillMeta":
  {
    "GSNumber": "70102030"
  },
  "WenId":1,
  "ChannelType": "API",
  "ProductId":4,
  "Credentials":
  {
    "User": "adib.b",
    "Password": "1"
  }
}
```

Figure 22 - RetrieveChannelResults Request

### 3.7.1. Response Example

```
{
  "ErrorDescription": "Data received successfully.",
  "Response": "H4sIAAAAAAAAAAJ2TUWuDMBSF\\8rIs5SY6Sq+DaTgwzppS9+j3rhATLqYPJTif1\\iLKxD2TQPkpybez48V2\\oTIWFDqU3RftlpUEpCnG0iRMUIA0MNMgK9rYtQbsSwWCQ+wX2RJ3xShDxeu9k+DYaQy8obPB3sQVai4bJ+BNRFAFoB0HUXe5ZMpjn\\2DcSGgfPdHoLr6QGkYIN4d4NNyDFVwZL6poJq2e9qCczvcjcFa6XrxcqZsKcCJFw2Vkow3111k1NDcGWGHJyuBQ\\9a52HhStgY6VIcXhvmr0k\\co9Gfwc9y910cfEjF09wz3kxScylgWZQZ5EvM0h3uzOacm1GRvKU8YYbP7u\\YijofFSbKr1YG0T8jyBmycN+KTFaQFLTjz932WFW91\\1Bn3HNwQAAA==",
  "ErrorCode": 200
}
```

Figure 23 - RetrieveChannelResults Response

### 3.7.2. Response Example Decompressed

```
{
  "Values":
  {
    "Amount":338.27,
    "transactionId":96323,
    "Amount1":0,"InvoiceDate":"28-FEB-15",
    "referenceNumber":"2018040001262",
    "Amount2":0,"InvoiceNumber":"201502104045",
    "ContractNumber":"1000303762","Fees":10,
    "Name":"XXXXX","Fees1":0,"TotalAmount":353,
    "Currency":"USD","Rounding":-0.27,"AdditionalFees":5,
    "LineStatus":"CONN"
  },
  "FieldsInfo":
  {
    "Field3":{"filledOnSearch":1,"isRequired":1,"fieldParamName":"InvoiceDate","fieldType":"String","preconfiguredDataId":0},
    "Field2":{"filledOnSearch":1,"isRequired":1,"fieldParamName":"InvoiceNumber","fieldType":"String","preconfiguredDataId":0},
    "Field5":{"filledOnSearch":1,"isRequired":1,"fieldParamName":"Fees","fieldType":"String","preconfiguredDataId":0},
    "Field4":{"filledOnSearch":1,"isRequired":1,"fieldParamName":"Amount","fieldType":"String","preconfiguredDataId":0},
    "Field7":{"filledOnSearch":1,"isRequired":1,"fieldParamName":"TotalAmount","fieldType":"String","preconfiguredDataId":0},
    "Field6":{"filledOnSearch":1,"isRequired":1,"fieldParamName":"Rounding","fieldType":"String","preconfiguredDataId":0},
    "Field9":{"filledOnSearch":1,"isRequired":1,"fieldParamName":"LineStatus","fieldType":"String","preconfiguredDataId":0},
    "Field8":{"filledOnSearch":1,"isRequired":1,"fieldParamName":"Name","fieldType":"String","preconfiguredDataId":0},
    "Field12":{"filledOnSearch":0,"isRequired":0,"fieldParamName":"VIPNumber","fieldType":"Integer","preconfiguredDataId":0},
    "Field11":{"filledOnSearch":0,"constraintName":"8 Digits","isRequired":1,"fieldParamName":"PayerMobileNumber","fieldType":"String",
    "preconfiguredDataId":0},
    "Field10":{"filledOnSearch":0,"isRequired":1,"fieldParamName":"PayerName","fieldType":"String","preconfiguredDataId":0},
    "Field1":{"filledOnSearch":1,"isRequired":1,"fieldParamName":"ContractNumber","fieldType":"String","preconfiguredDataId":0},
    "Field13":{"filledOnSearch":1,"isRequired":1,"fieldParamName":"AdditionalFees","fieldType":"String","preconfiguredDataId":0},
    "Field0":{"filledOnSearch":0,"constraintName":"8 Digits","isRequired":1,"fieldParamName":"GSMNumber",
    "fieldType":"String","preconfiguredDataId":0}
  }
}
```

Figure 24 - RetrieveChannelResults Response Decompressed

### 3.8. InjectTransactionalPayment

This is the method that will be called in order to submit a payment at BoB Finance. This is the second method that should be consumed in order for a transaction to be committed.

As mentioned above under [3.6. RetrieveChannelResults](#) section, the *Input Parameters* of this method, are going to be specified in the response of the *RetrieveChannelResults* method.

Parameter Name	Type	Description	Required
ChannelType	String	Channel Type	True
Credentials	JSON	JSON username and password	True
Item ID	Integer	ID of the service	True
Ven ID	Integer	ID of the service provider	True
Product ID	Integer	ID of the product	True
Input Parameters	JSON	Dynamic Input parameters from Result method	True
Transaction ID	Integer	Transaction ID. The value should be included in <u>Double Quotes</u> ""	True

Return Attribute	Type	Description
Reference Number	String	Reference Number of the transaction
Description	String	Description of the transaction
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)

#### 3.8.0. Request Example

Input parameters should be put in a JSON Object named according to the product type as following:

```
Product Type: 1 ==> TouchDueResult
Product Type: 2 ==> TouchAdvancedResult
Product Type: 3 ==> TouchDepositResult
Product Type: 4 ==> AlfaBillResult
Product Type: 5 ==> C2BResult
Product Type: 6 ==> PropertyBuiltResult
```

Figure 25 - InjectTransactionalPayment | ProductTypeIDs

```

{
  "TransactionId":96323,"ItemId":1,
  "TouchDueResult":
  {
    "Amount":"338.27","GSMNumber":"70666666",
    "InvoiceDate":"28-FEB-15","InvoiceNumber":"201502104045","ContractNumber":"1000303762",
    "PayerName":"API Touch",
    "Name":"XXXXX",
    "Fees":"10","ReferenceNumber":"20180400001262","PayerMobileNumber":"03743001",
    "TotalAmount":"353","Rounding":"-0.27",
    "LineStatus":"CONN","AdditionalFees":"5"
  },
  "VenId":2,
  "ChannelType":"API",
  "ProductId":1,
  "Credentials":
  {
    "User":"username",
    "Password":"password"
  }
}

```

Figure 26 - InjectTransactionalPayment Request

### 3.8.1. Response Example

```

{
  "ErrorDescription":"Transaction Paid successfully.",
  "Response":"H4sIAAAAAAAAAAKtWCilKzCtOTC7JzM9zSS1OLsosADGVrJSMDAwtdEwMgMDQyMxISQdZZVBqWmpRa15yKqa6WgDMMYDFUwAAAA==",
  "ErrorCode":100
}

```

Figure 27 - InjectTransactionalPayment Response

### 3.8.2. Response Example Decompressed

```

{
  "TransactionDescription":"20180400001262",
  "TransactionReference":"20180400001262"
}

```

Figure 28 - InjectTransactionalPayment Response Decompressed

### 3.9. PrintEndOfDayReport

This method will be used to print the MoF End of Day report. This report is mandatory in case a payment is available for Mechanique, Tax or VAT.

The PDF is returned in the result and it is Base64 encoded and it should be decoded in order to convert it to a valid PDF file.

Parameter Name	Type	Description	Required								
ChannelType	String	Channel Type	True								
Credentials	JSON	JSON username and password	True								
Item ID	Integer	Service ID	True								
Ven ID	Integer	Service Provider ID	True								
Product ID	Integer	Product ID	True								
{MetaKey}	String	The {MetaKey} represents the key of the service <table><tr><th>Parameter Name</th><th>Type</th><th>Description</th><th>Required</th></tr><tr><td>End of Day Date</td><td>String</td><td>The payment date "dd/MM/yyyy"</td><td>True</td></tr></table>	Parameter Name	Type	Description	Required	End of Day Date	String	The payment date "dd/MM/yyyy"	True	True
Parameter Name	Type	Description	Required								
End of Day Date	String	The payment date "dd/MM/yyyy"	True								

Return Attribute	Type	Description
Row Number	Double String	Sequence number of the row
Reference	String	Reference Number of the transaction
MoF Total Amount	Double String	Bill Amount of the transaction
Encoded Report PDF Bytes	String	The Base64 encoded PDF File. This string should be decoded in order to generate the PDF file.
EndOfDayData	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)

### 3.9.0. Request Example

```
{
  "ChannelType": "API",
  "ItemId": 2497,
  "VenId": 19,
  "ProductId": 20,
  "MechanicMeta": {
    "EndOfDayDate": "01/07/2018"
  },
  "Credentials": {
    "User": "jawad",
    "Password": "jawad1"
  }
}
```

Figure 29 - PrintEndOfDayReport Request

### 3.9.1. Response Example

```
{
  "ErrorDescription": "Data retrieved successfully.",
  "Response": "H4sIAAAAAAAAAIyax46s4HZGX8U6U6SETndGzhmKcOUB0U0Rofzy5tgDjyzdSasHTVX9sPf3rdWq//rz5YeJ3P6jKLd8bb97009//vmpP+58mceYleuff/xyy6pcyykv39+  
NwftnPR2YcT6m/c9//uOPMOV:URZu+Z3X3eZF9tnL7c8//6gfVnBb6Na7QFNlvfVrhMz5zKVID3vM2VztJGE+FRIdW340Wx6tJ56N5REYumOd1NIHyE3zTORasCeTCgfpP03mFLF3+6QeQX9  
M1wNuIRYgK/nNW5/VmRUTJXys8dEdaQld7gpeaa0Vv22x+rHTZ310u0a+H+ck+FfHnmldPgUrsfDnXUPXGj0e0yxKgR4J8ELKWOZxECRxiWYiEj3U170cLZ+HdyzZfCUXEU0QVJug53UD  
BQeAN4631Z5B0b3CEX9W4PnQ27qXoUns1iN/zxCKxyimNOKZ1zsZa1imh1BXVZrU0D0DKyNTY1p9T/vagsxCeW5mDvaEzHe4ZJ39N0TcOk4Ht0GB+a8X7mD9Hy2GGUFZ1EkRUFUICtuc4ed4  
VlnbZi2igKaMz5bMx1IVXRjtGqLuf1hf9nk0uPXh/fX2echfCyZ/eeLCurAEugcC8YgAjpyk84vks85WBPdFTLKRecbWVTJK9Q60D/54q6TprHwR0aM3YhFM3rDnHy1No0ZZwonib/YOJ8vQ  
/JKNScolUEceP1zM1dY1RZ3Ykq8D52TksvTwJ72hk0HOzcglQ6eZ5sGVsZ70NUzVNFVXiUpX6uYL1DNuoy5HpdGW3n1gdfQdsdV/LBwATfQL0I1K2dg51khB3ioZ3aZwf5yQ4FH2sb+j1sa  
awbGLM1fM3LmRVkYsibqd1S2y5YVb8XID0E50/OuRcRK4gTA8y3e9eiyVG3gLY4W6AB3L9rUAE25NdnbbmQwJfy8e5GPcncmucTnw0QeOC8BNvJKN9f2ku/41Y+SziVeK9wGmBbh/c2qw  
WsEBJauAmuzq1/Usir+abeJ8VC902jPUsIjlddBuP9Slyj/eaqJvq4hZhs1LvtnaWZfGuTiAHc+SY51kD8WGeDoudR2k6WJ1vQmReao5m9Zbx8yK+hco+RxxHG054x3T15joIoH22pVsbb41m  
Yvv9g37jW3FqUaqda1vJKOI400pt+miJGCAVA/LRkPT0q3dcRLpZpV1+Unp8XXbUgG2pJ5kg63WfAFpJ+IaQAHQeYIEfLJ41mzzVwjTHaAoZ9h5+HH+VV1GQDT11gUWZxbkQq9aitdNzEW5n  
pGVYx+ZiZ49M0f4Tv70dvlCTwaC7neoTg6+0Dh7Z0201eAYaUUN28iCm3Uht8Tad9c76eTchUaMufcY2RokPto0+7NDu74Pd7H8TTCNubUuTHb0etv6kdXUwV83SMSSwznp1+E47np8
```

Figure 30 - PrintEndOfDayReport Response

### 3.9.2. Response Example Decompressed

```
{
  "Values description":
  [
    "RowNumber", "Reference", "MoFTotalAmount", "EncodedReportPDFBytes": "JVBERi0x  
dPp1c2/Xqe9Ufd85Vadq//z6zbl2nReW+6HBvGd+4+Z833z/XPo0/60duPLbbx+5d377/KH1S9cP  
wPv/xmC7zZQxwO9ec50bAhnrrftVmT/dggK3oXndS707faBPMUwjeDzEAG5fOHp9dvME2Lp/dNXt0  
yZjpuu46fBcp0gNODs0hdpw9w15nf1dgQpJuc66V0UDkrs/BOcx+YAFYJ2tDhGTUIwtJ3WnNwaur  
YBxg77JvilCE4r5vgCIpfOWYe5j9ws6xN9lrNUF1GRM0Vfkn6PUK48AZzLQEi30UzQJKegCfv+Fz  
hAdyUk18NUaF0JuGtMyxwBrFKtGE6YcHxD1hEmt/xb18fFhJSt0IlpVUDk45LYhbaV6WJiWjoQ1  
OHoEDGg9xDS5bII4xLG0Fey4rWjkq6kYZKqpwOSmiQMOPmfTP00Vv2LakwlmFwn1Wuz6kOztsgd1M  
1dnNKfM8IiPawo4UJjqcpdcVU7Kx/5LeZFGvd3rxqf9unN9k1Zfsv2Fvk85PRp/H0X47zQYVDep0  
HPIAnCUY8qNvYa4vSx4IHGFO49AJ1iA0wpA3xDigiYGFn2klwcjx0cS4vArUyCR2CrOgIgw4/5gIB  
ZUj14svuFiHX/oD4/G7/bLPJ2tr50TftN1InI4+JGWzPh1VjoeNuTiLJ/vz6t81V4lpLzNNmyGFI  
uFLBZFogVLpxBsiu4DStNyChHsHW29pXb0ilwPcQGPHzQUNV50Cva1pOA6pNA5j1dSwWaNNSuNV  
Utiq12qZ6mrZ02f00hSrzyKKG70j3ArF+oWCpp4XtC6KL770eoenrSR1sPucsoGgVzna50YN5E11  
P1XzwegplbmRzdHJlYW0KZW5kb2JqCjQzIDAgb2JqCjw8L1R5cGUvWFJlZi9XWzEgMyAyXS9Sb29  
NvZGU+PnN0cmVhbQp4nC3LTQ7BUBiF4XPaoj9oqfqb2QdNJ2LQqU2ImcQCrEaMLUcaibHYwqXHdw  
go=", "EndOfDayData": { "row0": [ "1", "20191000000186 ویمور ریمس", "317000" ] }}
```

Figure 31 - PrintEndOfDayReport Response Decompressed

### 3.9.3. PDF File Base64 Decoded

**Figure 32 - PrintEndOfDayReport Base64 Decoded**

### 3.10. *RetrieveTransactionReceipt*

This method will be used to print the Ogero receipt. The receipt is officially generated from the telecom company.

The returned receipt is represented as an HTML page.

Parameter Name	Type	Description	Required								
Channel Type	String	Channel Type	True								
Credentials	JSON	JSON username and password	True								
Item ID	Integer	ID of the service	True								
Ven ID	Integer	ID of the service provider	True								
Product ID	Integer	ID of the product	True								
Transaction ID	Integer	Transaction ID received from previously called methods	True								
{MetaKey}	String	The {MetaKey} represents the key of the service <table><tr><th>Parameter Name</th><th>Type</th><th>Description</th><th>Required</th></tr><tr><td>Reference Number</td><td>String</td><td>Reference Number received from previously called methods</td><td>True</td></tr></table>	Parameter Name	Type	Description	Required	Reference Number	String	Reference Number received from previously called methods	True	True
Parameter Name	Type	Description	Required								
Reference Number	String	Reference Number received from previously called methods	True								

Return Attribute	Type	Description
Print Receipt	String	HTML table containing the structured receipt



### 3.10.0. Request Example

```
{
  "TransactionId": 1705816,
  "ItemId": 1,
  "VenId": 3,
  "OgeroPrintCancelPRM": {
    "ReferenceNumber": "20191100000129"
  },
  "ChannelType": "API",
  "ProductId": 16,
  "Credentials": {
    "User": "jawad",
    "Password": "jawad1"
  }
}
```

### Figure 33 - RetrieveTransactionReceipt Request

### 3.10.1. Response Example

```
{
  "ErrorDescription": "Transaction Receipt is successfully printed.",
  "Response": "H4sIAAAAAAAAAA01d63bayJZ+Fa2edcY/6G4kIS5Kt72WBB13AxZ3WPkjgRDiIoEQ17PmRy50Z/IavTLuRBE1NcmXeLGlFvYsu59V1mvwUF8sq9XDAwSG/3EAcbJS5pXDA/jg6Plz5flzCbxiO3A3yM6Qq0ArpLl0XrcKgQ+jAZZRlEiBIAJ0JCETyfy1VQRX6qMRMFvsgJASuUiCyBgXpFFyqAYqGcSa/AXQVNJwvDeh9cptauJ1JQY7+Qc3p5AgqRvi+R3JaEsNivgcRyFfJyxAIUH48wlciojicCYD9xLQBHembepJ+pYwIEyTeA48FAuBryU8N9YLXy7n54TaESFct3PMHDMxMiwWsQAhmMAGSvYcmofIwSQgxkAlFuYI1YJhCOp0jQmGj3sTkYfJmhBqjhEg6e5z0+Z1RQYr6/YycowdCMShmmpGh0IrWGCR
```

### Figure 34 - RetrieveTransactionReceipt Response

### 3.10.2. Response Example Decompressed

```
{ "PrintReceipt": "<table width='100%' border='0'>\r\r\n\r\n                < tr>\r\r\n\r\n                                < td width  
= '30%'>\r\n                        < center>\r\n                            < img src =  
'/9j/4AAQSkZJRgABAQEAYABgAAD/4QBORXhpZGAgAATUOAKgAAAAgAABAMBAAUAAAABAAAAPIEQAAEAAAABAQAAFE  
RAAQAAAAABAAAAFESAAQAAAAABAAAAAAAAAAAAAYagAACxj//baEMACAYGBwYFCacHBwk/CaoMFAOMCwsMGRITD  
xQdGh8eHRocHCAKlicgliwjHBwoNyksMDEONDqfJzk9ODI8LjM0Mv/bAE MB C Q k J D A s M G A 0 N G D I h H C E y M j l y M j l y M j l y M j l  
y M j l y M j l y M j l y M j l y M j l y M j l y M j l y M v / A A B E I A C O A L Q M B i g A C E Q E D E Q H / x A A F A A A B B Q E B A Q E B A Q A A A  
A A A A A A A A Q I D B A U G B w g J C q v / x A C 1 E A A C A Q M D a g Q D B Q U E B A A A X 0 B A g M A B B E f e i E x Q Y T U W E H I n E U M o G r O q q J q R h
```

**Figure 35 - RetrieveTransactionReceipt Response Decompressed**

### 3.11. *CancelChannelTransaction*

This method will be used to cancel an Ogero payment. Currently this method is only used for Ogero.

Parameter Name	Type	Description	Required
Channel Type	String	Channel Type	True
Credentials	JSON	JSON username and password	True
Item ID	Integer	ID of the service	True
Ven ID	Integer	ID of the service provider	True
Product ID	Integer	ID of the product	True
Transaction ID	Integer	Transaction ID received from previously called methods	True
Reference Number	String	Reference Number received from previously called methods	True

Return Attribute	Type	Description
ReferenceNumber	String	Reference Number of the transaction

#### 3.11.0. Request Example

```
{
  "TransactionId":1705797,
  "ItemId":1,
  "VenId":3,
  "OgeroPrintCancelPRM":{
    "ReferenceNumber":"20191100000128"
  },
  "ChannelType":"API",
  "ProductId":16,
  "Credentials":{
    "User":"jawad",
    "Password":"jawad1"
  }
}
```

Figure 36 - CancelChannelTransaction Request

### 3.11.1. Response Example

```
{
  "ErrorDescription": "Transaction is successfully canceled.",
  "Response": "H4sIAAAAAAAAAAKtWCKpNSy1KzUt09SvNTUotUrJSMjIwtDQ0NAABQyMLpVoAWAeV5yQAAAA=",
  "ErrorCode": 100
}
```

Figure 37 - CancelChannelTransaction Response

### 3.11.2. Response Example Decompressed

```
{
  "ReferenceNumber": "20191100000128"
}
```

Figure 38 - CancelChannelTransaction Response Decompressed

### 3.12. *InsertTransferData*

This method will insert a new C2B Transfer for a specific Company.

Parameter Name	Type	Description	Required
Channel Type	String	Channel Type = CO	True
Credentials	JSON	JSON username and password	True
Model	String	Transfer Model = C2B	True
First Name	String	First Name of the customer	True
Last Name	String	Last Name of the customer	True
CRM Number	String	CRM Number of the customer	True
Amount	Integer	Amount of the transfer	True
Currency	String	Currency of the transfer	True
Description 1	String	Free text field available for the company. The provided value will be displayed on the receipt for the customer.	False
Description 2	String	Free text field available for the company. The provided value will be displayed on the receipt for the customer.	False
Description 3	String	Free text field available for the company. The provided value will be displayed on the receipt for the customer.	False

Return Attribute	Type	Description
CRM Number	String	CRM Number provided in the request for confirmation
Is Success	String	True or False
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)

### 3.12.0. Request Example

```
{
  "ChannelType": "CO",
  "Credentials":
  {
    "User": "user_name",
    "Password": "user_password"
  },
  "Model": "C2B",
  "FirstName": "Rachelle",
  "LastName": "Antonios",
  "CRMNumber": "Alfa00",
  "Amount": "100",
  "Currency": "USD",
  "Description1": "Description1",
  "Description2": "Description2",
  "Description3": "Description3"
}
```

Figure 39 – InsertTransferData Request

### 3.12.1. Response Example

```
{
  "ErrorDescription": "Transfer Data inserted successfully.",
  "Response": "H4sIAAAAAAAAAIuuVsosDi5NTk4tLlayUiopKk1V0lFyDvL1K81NSi0CCjnmPCUaGCjVxgIApCYlxSsAAAA=",
  "ErrorCode": "100"
}
```

Figure 40 – InsertTransferData Response

### 3.12.2. Response Example Decompressed

```
{
  "isSuccess": "true",
  "CRMNumber": "Alfa00"
}
```

Figure 41 – InsertTransferData Response Decompressed

### 3.13. ClearTransfers

This method will remove All the C2B and Pending transfers for the company that are created through the API.

Parameter Name	Type	Description	Required
Channel Type	String	Channel Type = CO	True
Credentials	JSON	JSON username and password	True
Model	String	Transfer Model = C2B	True

Return Attribute	Type	Description
Status	String	True or False
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)

#### 3.13.0. Request Example

```
{
  "ChannelType": "CO",
  "Credentials":
  {
    "User": "user_name",
    "Password": "user_password"
  },
  "Model": "C2B"
}
```

Figure 42 – ClearTransfers Request

#### 3.13.1. Response Example

```
{
  "ErrorDescription": "Not Paid Transfers are cleared successfully.",
  "Response": "H4sIAAAAAAAAAIuuVsosDi5NTk4tLlayUiopKk1Vqo0FAGH8fd8WAAAA",
  "ErrorCode": "100"
}
```

Figure 43 – ClearTransfers Response

### ***3.13.2. Response Example Decompressed***

```
{  
  "isSuccess": "true"  
}
```

**Figure 44 – ClearTransfers Response Decompressed**

### 3.14. RemoveTransfer

This method will remove a specific C2B transfer created through the API by the provided CRM Number.

Parameter Name	Type	Description	Required
Channel Type	String	Channel Type = CO	True
Credentials	JSON	JSON username and password	True
Model	String	Transfer Model = C2B	True
CRM Number	String	CRM Number of the customer	True

Return Attribute	Type	Description
CRM Number	String	CRM Number provided in the request for confirmation
Status	String	True or False
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)

#### 3.14.0. Request Example

```
{
  "ChannelType": "CO",
  "Credentials": {
    "User": "user_name",
    "Password": "user_password"
  },
  "Model": "C2B",
  "CRMNumber": "JB1234"
}
```

Figure 45 – RemoveTransfer Request

#### 3.14.1. Response Example

```
{
  "ErrorDescription": "Transfer(s) removed successfully.",
  "Response": "H4sIAAAAAAAAAIuuVsosDi5NTk4tLlayUiopKk1V0lFyDvL1K81NSi0CCnk5GRoZmyjVxgIA+ogmDysAAAA=",
  "ErrorCode": "100"
}
```

Figure 46 – RemoveTransfer Response



### ***3.14.2. Response Example Decompressed***

```
{  
  "isSuccess": "true",  
  "CRMNumber": "JB1234"  
}
```

**Figure 47 – RemoveTransfer Response Decompressed**

### 3.15. SendPinRequest

This method will be called in order to send the **PIN** code to the customers of Alfa prior of calling *RetrieveChannelResults* and get the amount.

Parameter Name	Type	Description	Required								
Channel Type	String	Channel Type = CO	True								
Credentials	JSON	JSON username and password	True								
Alfa Pin Param	JSON	Main key to list the required parameters in it <table><tr><th>Parameter Name</th><th>Type</th><th>Description</th><th>Required</th></tr><tr><td>GSM Number</td><td>String</td><td>Mobile number of the transaction</td><td>True</td></tr></table>	Parameter Name	Type	Description	Required	GSM Number	String	Mobile number of the transaction	True	True
Parameter Name	Type	Description	Required								
GSM Number	String	Mobile number of the transaction	True								

Return Attribute	Type	Description
AlfaTN Id	String	Transaction ID as generated by Alfa
MSISDN	String	The mobile number of the transaction
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)

#### 3.15.0. Request Example

```
{
  "ChannelType": "API",
  "Credentials": {
    "User": "*****",
    "Password": "*****"
  },
  "AlfaPinParam": {
    "GSMNumber": "76560236"
  }
}
```

Figure 48 – SendPinRequest Request

### 3.15.1. Response Example

```
{
  "ErrorDescription": "Transfer(s) removed successfully.",
  "Response": "H4sIAAAAAAAAAIuuVsosDi5NTk4tLlayUiopKk1V0lFyDvL1K81NSi0CCnk5GRoZmyjVxgIA+ogmDysAAAA=",
  "ErrorCode": "100"
}
```

Figure 49 – SendPinRequest Response

### 3.15.2. Response Example Decompressed

```
{
  "AlfaTNId": "BOL7656023620220630122111",
  "ResponseText": "Success",
  "ResponseCode": "00",
  "MSISDN": "76560236"
}
```

Figure 50 - SendPinRequest Response Decompressed

### 3.16. SendTouchPinRequest

This method will be called in order to send the **PIN** code to the customers of Touch prior of calling *RetrieveChannelResults* and get the amount.

Parameter Name	Type	Description	Required												
Channel Type	String	Channel Type = CO	True												
Credentials	JSON	JSON username and password	True												
Touch Pin Param	JSON	Main key to list the required parameters in it <table><tr><th>Parameter Name</th><th>Type</th><th>Description</th><th>Required</th></tr><tr><td>Service</td><td>String</td><td>Three options are available: 1. invoice 2. advance 3. deposit</td><td>True</td></tr><tr><td>GSM Number</td><td>String</td><td>Mobile number of the transaction</td><td>True</td></tr></table>	Parameter Name	Type	Description	Required	Service	String	Three options are available: 1. invoice 2. advance 3. deposit	True	GSM Number	String	Mobile number of the transaction	True	True
Parameter Name	Type	Description	Required												
Service	String	Three options are available: 1. invoice 2. advance 3. deposit	True												
GSM Number	String	Mobile number of the transaction	True												

Return Attribute	Type	Description
Token	String	Token number as generated by Touch
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)

#### 3.16.0. Request Example

```
{
  "ChannelType": "API",
  "Credentials": {
    "User": "*****",
    "Password": "*****"
  },
  "TouchPinParam": {
    "Service": "invoice",
    "GSMNumber": "81004537"
  }
}
```

Figure 51 – SendTouchPinRequest Request

### 3.16.1. Response Example

```
{
  "ErrorDescription": "Transfer(s) removed successfully.",
  "Response": "H4sIAAAAAAAAAIuuVsosDi5NTk4tLlayUiopKK1V0lFyDvL1K81NSi0CCnk5GRoZmyjVxgIA+ogmDysAAAA=",
  "ErrorCode": "100"
}
```

Figure 52 – SendTouchPinRequest Response

### 3.16.2. Response Example Decompressed

```
{
  "token": "PiPb3oSf9bqdfFCxctHoTCWBVeQ0HRDDATBdQv4S9IU"
}
```

Figure 53 – SendTouchPinRequest Response Decompressed

### 3.17. RetrieveChannelMetadata

This method will return all the fields needed for a payment to be performed. Therefore, in order to make any transaction or to build the form for a specific Service\Service Provider\Product type; a call should be made to this method to get the prerequisites.

For example, if we consider *Alfa* or *Touch* as service providers; the metadata method will return all the input parameters needed for the search method along with their related properties. The GSM Number is considered to be:

- Required field
- String type
- Composed of 8 characters

In general, this method returns the needed fields and parameters to be used in the call of the method *RetrieveChannelResults*.

**N.B.:** Whenever an update is made on a specific service provider, a new call should be made to this method in order to be notified of the updated fields and reflect the changes, if needed.

Parameter Name	Type	Description	Required
Channel Type	String	Channel Type	True
Credentials	JSON	JSON username and password	True
Item ID	Integer	ID of the service	True
Ven ID	Integer	ID of the service provider	True
Product ID	Integer	ID of the product	True

Return Attribute	Type	Description
Input Parameters	JSON	Input parameters (with their types) that need to be filled to continue
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)

#### 3.17.0. Request Example

```
{
  "ItemId":1,
  "VenId":1,
  "ChannelType":"API",
  "ProductId":4,
  "Credentials":
  {
    "User":"adib.b",
    "Password":"1"
  }
}
```

Figure 54 - RetrieveChannelMetadata Request

### 3.17.1. Response Example

```
response:
{
  "ErrorDescription": "Channel Metadata Retrieved Successfully.",
  "Response": "H4sIAAAAAAAAAOwJy2rDMBBFfyXM2gvJddvgZ2wSsmK0x8Q0jgZqkiu7BtC8L9Xdh9041AIxYQsdXU1j4NmTnAH+Qkq0hrVxmROLmHnCVQ06saGV6PNa4V5A8J5Gt8ciJM6IVoqQi16g2QA4cEHAZH2KJaHIu9MAZ1ib7RwQ9uhtUa5TdmOJFfOVKF1c0hCsDgi2GLGmUg++0s8b0hhzEpT8Cja0ni17MtKXSPVTF9yn4uPgWYZx18VfgsDr1SotCzJx9EQ0jb105T0a6JgZciiKGnLoF0Ah7pn3nwF+ExK3H0hxx\\BMo9Y+ARY+BRyCuHFGIgsGmC3Mi\\DCyNHh+Uxwri\\JhjsAhGLbeXbubiRXROJS77Fk1ryZ5YF67oPSBacM1UGAAA=",
  "ErrorCode": 100
}
```

Figure 55- RetrieveChannelMetadata Response

### 3.17.2. Response Example Decompressed

```
{
  "Field0":
  {
    "productId": 4, "constraintName": "8 Digits",
    "isRequired": 1, "fieldParamName": "GSMNumber",
    "fieldType": "String", "serviceProviderCode": 1,
    "serviceCode": "1", "dependsOn": 0, "fieldName": "GSM Number",
    "fieldId": 1, "preConfiguredDataId": 0, "dependsOnSelection": 0
  }
}
```

Figure 56 - RetrieveChannelMetadata Response Decompressed

### 3.18. *ShowPaymentsHistory*

This method will be used for reconciliation purposes between any third party and BoB Finance. The method will return all the transactions successfully received and registered and it can be called at any time.

Parameter Name	Type	Description	Required
Channel Type	String	Channel Type	True
Credentials	JSON	JSON username and password	True
Item ID	Integer	ID of the service	False
Ven ID	Integer	ID of the service provider	False
From Date	String	The beginning date range of the payments with format "dd/MM/yyyy"	False
To Date	String	The ending date range of the payments with format "dd/MM/yyyy"	False

Return Attribute	Type	Description
Reference Number	String	Reference Number of the transaction
Service Name	String	Service Name of the transaction
Service Provider Name	String	Service Provider Name of the transaction
Principal Amount	Double String	Bill Amount of the transaction. This Amount represents the initial amount before adding the any fees and rounding
Fees	Double String	The fee set for the transaction
Additional Fees	Double String	Additional fee set for the transaction on top of the original fee (if any)
Rounding	Double String	The rounding calculated. This calculation is not set for all the third parties.
Total Amount	Double String	The Total Amount calculation for the transaction
Currency	String	The currency of the transaction
Transaction Date	String	Transaction payment date in the format of "dd/MM/yyyy hh:mm:ss"
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)



### 3.18.0. Request Example

```
{
  "ChannelType": "API",
  "ItemId": 3,
  "VenId": 6,
  "FromDate": "01/07/2018",
  "ToDate": "05/09/2018",
  "Credentials": {
    "User": "jawad",
    "Password": "jawad1"
  }
}
```

Figure 57 - ShowPaymentsHistory Request

### 3.18.1. Response Example

```
{
  "ErrorDescription": "Data retrieved successfully.",
  "Response": "H4sIAAAAAAAAAAK2Sw0vDMBiG/0rJlUJrc2qb5q47FAauG90URHZR18wFepC0nYzhFzdxda5444w5SL73e/PxvIGcwGNWdKIB/ARU/Q4BfwaIeY5HQ4chRIAN5otk+mSt0yhZxdNUN0aLkRXPKigZT7VCEN5BqAtyPr7V1+wFxcNqoncMXRi4GCMQcpxyCkDG9tgkcFSBh0/8BwFEvqFwMQulIQ4xJzAHosNNmDUCFwLwxCyP2F7kj/gwrM3B0PBewNOaQ8mBkxY4GBCHY/43t/A8AJnwaUcBrgy7kFL3yEIJxhsPmwQS1Hkzaza1SZLKnZCiWorkq58EUPrYQ6SK2zUvyopaoPMheq7y6VrLbyLSuisu6qVndiob+SDVItc1m96jLKc9nKusqK31vX7dXAuF0GezSGyqom25rLk6wVN3nuzuFuUS9rv+dlyZvmVkf/BHRUAO+yAgAA",
  "ErrorCode": 100
}
```

Figure 58 - ShowPaymentsHistory Response

### 3.18.2. Response Example Decompressed

```
{
  "Values": {
    "row0": [
      "185-549-8113",
      "MONEY TRANSFER",
      "BOB FINANCE",
      "100.00",
      "3.00",
      "0.00",
      "3",
      "106.00",
      "USD",
      "20/07/2018 04:29:48",
      "row1": [
        "480-675-6034",
        "MONEY TRANSFER",
        "BOB FINANCE",
        "100.00",
        "3.00",
        "0.00",
        "3",
        "106.00",
        "USD",
        "18/07/2018 11:02:30",
        "row2": [
          "784-985-9908",
          "MONEY TRANSFER",
          "BOB FINANCE",
          "1000.00",
          "6.00",
          "0.00",
          "0",
          "1006.00",
          "USD",
          "12/07/2018 04:27:44",
          "row3": [
            "387-234-5365",
            "MONEY TRANSFER",
            "BOB FINANCE",
            "10000000.00",
            "87000.00",
            "0.00",
            "0",
            "10087000.00",
            "LBP",
            "12/07/2018 04:23:32"
          ]
        },
        "FieldsInfo": [
          "ReferenceNumber",
          "ServiceName",
          "ServiceProviderName",
          "PrincipalAmount",
          "Fees",
          "Rounding",
          "AdditionalFees",
          "TotalAmount",
          "Currency",
          "TransactionDate(dd/MM/yyyy hh:mm:ss)"
        ]
      }
    ]
  }
}
```

Figure 59 - ShowPaymentsHistory Response Decompressed

### 3.19. *GetTransferStatus*

This method will return the latest status of a specified C2B Transfer. The Status might be "PAID" or "NOT PAID"

Parameter Name	Type	Description	Required
Channel Type	String	Channel Type	True
Credentials	JSON	JSON username and password	True
Model	String	Transfer Model = C2B	True
CRM Number	String	Customer CRM Number	True

Return Attribute	Type	Description
Status	String	Status of the transfer
Currency	String	The currency of the transfer
CRM Number	String	CRM Number of the transfer
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)

#### 3.19.0. Request Example

```
{
  "ChannelType": "CO",
  "Credentials":
  {
    "User": "user_name",
    "Password": "user_password"
  },
  "Model": "C2B",
  "CRMNumber": "JB1234"
}
```

Figure 60 - GetTransferStatus Request

#### 3.19.1. Response Example

```
{
  "ErrorDescription": "Data retrieved successfully.",
  "Response": "H4sIAAAAAAAAAIuuVgouSSwpLVayUvLzD1EicPR0UdJRcg7y9SvNTUotAgp7ORkaGZsolcYCAPdZ5xosAAAA",
  "ErrorCode": 100
}
```

Figure 61 - GetTransferStatus Response

### 3.19.2. Response Example Decompressed

```
[
  {
    "Status": "NOT PAID",
    "Currency": "USD",
    "CRMNumber": "JB1234"
  },
  {
    "Status": "PAID",
    "Currency": "LBP",
    "CRMNumber": "JB1234"
  }
]
```

Figure 62 - GetTransferStatus Response Decompressed

### 3.20. *GetCustomers*

This method will return all the C2B2C Customers of the specified Company.

The customers might have been created manually on the back office application, uploaded automatically as a batch, or uploaded by the company using the API Uploaded Transfers.

Parameter Name	Type	Description	Required
Channel Type	String	Channel Type	True
Credentials	JSON	JSON username and password	True
First Name	String	First Name of the customer	False
Last Name	String	Last Name of the customer	False

Return Attribute	Type	Description
Transfer Number	String	Transfer Number of the transfer
First Name	String	First Name of the customer
Middle Name	String	CRM Number of the customer
Last Name	String	Last Name of the customer
ID Type	String	Identification Card Type of the customer
ID Number	String	Identification Card Number of the customer
ID Expiry Date	String	Identification Card Expiration Date of the customer
Phone Number	String	Phone Number of the customer
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)

#### 3.20.0. *Request Example*

```
{
  "ChannelType": "CO",
  "Credentials":
  {
    "User": "user_name",
    "Password": "user_password"
  },
  "FirstName": "Julie",
  "LastName": "B"
}
```

Figure 63 - GetCustomers Request

### 3.20.1. Response Example

```
{
  "ErrorDescription": "Data retrieved successfully.",
  "Response": "H4sIAAAAAAAAAIuuVgouSSwpLVayUvLzD1EicPR0UdJRcg7y9SvNTUotAgp7ORkaGZsolcYCAPdZ5xosAAAA",
  "ErrorCode": 100
}
```

Figure 64 - GetCustomers Response

### 3.20.2. Response Example Decompressed

```
[
  {
    "MiddleName": "J",
    "IdExpiryDate": "07/07/2077",
    "IdNumber": "7777",
    "IdType": "Extract of civil registry",
    "FirstName": "JULIE",
    "PhoneNumber": "07777777",
    "LastName": "BOUTROS"
  },
  {
    "MiddleName": "",
    "IdExpiryDate": "13/12/2055",
    "IdNumber": "777",
    "IdType": "Passport",
    "FirstName": "JULIE",
    "PhoneNumber": "12345678",
    "LastName": "B"
  }
]
```

Figure 65 - GetCustomers Response Decompressed

### 3.21. *GetTransfers*

This method will return all the C2B2C transactions created for by or for the specified company between a specific timeframe.

Parameter Name	Type	Description	Required													
Channel Type	String	Channel Type = CO	True													
Credentials	JSON	JSON username and password	True													
Model	String	Transfer Model (C2B or B2C)	True													
CRM Number	String	CRM Number of the customer at the company	True													
Date Time From	String	Timeframe Begin Date/Time ISO 8601 Format: <u>Ex</u> : 2021-03-24T13:15:30Z	True													
Date Time To	String	Timeframe End Date/Time ISO 8601 Format: <u>Ex</u> : 2021-03-24T13:30:30Z	True													
Transfer Number	String	Transfer Number of the transfer	False													
Status Code	Integer String	Status Codes Table by Model: <table><thead><tr><th>Model</th><th>Status Name</th><th>Status Code</th></tr></thead><tbody><tr><td rowspan="2">C2B</td><td>Creation</td><td>20</td></tr><tr><td>Canceled</td><td>9</td></tr><tr><td rowspan="2">B2C</td><td>Paid</td><td>7</td></tr><tr><td>Reverse Pay</td><td>22</td></tr></tbody></table>	Model	Status Name	Status Code	C2B	Creation	20	Canceled	9	B2C	Paid	7	Reverse Pay	22	False
Model	Status Name	Status Code														
C2B	Creation	20														
	Canceled	9														
B2C	Paid	7														
	Reverse Pay	22														

Return Attribute	Type	Description
Channel Type	String	Channel Type = CO
Model	String	Model of the transfer(C2B or B2C)
Transfer Number	String	Transfer Number of the transfer
Principal Amount	String	Bill Amount of the transfer. This Amount represents the initial amount before adding the any fees and rounding
Currency	String	Currency of the transfer
First Name	String	First Name of the customer
Middle Name	String	Middle name of the customer
Last Name	String	Last Name of the customer

Customer of Behalf of	String	Customer On Behalf Of Name (only if Model = C2B)
Reference Number	String	Reference Number = Customer CRM Number (displayed only if Model = C2B)
Status	String	Latest Status of the transfer
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)

### 3.21.0. Request Example

```
{
  "ChannelType": "CO",
  "Credentials":
  {
    "User": "user_name",
    "Password": "user_password"
  }
  "DateTimeFrom": "2021-03-01T00:00:00Z",
  "DateTimeTo": "2021-03-10T00:00:00Z",
  "Model": "C2B",
  "TransferNumber": "282-227-7863",
  "StatusCode": "20"
}
```

Figure 66 – GetTransfers Request

### 3.21.1. Response Example

```
{
  "ErrorDescription": "Data retrieved successfully.",
  "Response": "H4sIAAAAAAAAAIuuVgouSSwpLVayUvLzD1EIcPR0UdJRcg7y9SvNTUotAgp7ORkaGZso1cYCAPdZ5xosAAAA",
  "ErrorCode": 100
}
```

Figure 67 – GetTransfers Response

### 3.21.2. Response Example Decompressed

```
[
  {
    "Status": "Creation",
    "PrincipalAmount": "250.00",
    "TransferNumber": "584-712-7298",
    "StatusDate": "08/03/2021 03:01:41 pm",
    "MiddleName": "RACHELLE",
    "Model": "C2B",
    "ReferenceNumber": "JB777",
    "CustomerOnBehalfOf": "JULIE RACHELLE BOUTROS",
    "FirstName": "JULIE",
    "LastName": "BOUTROS",
    "ChannelType": "CO",
    "Currency": "USD"
  },
  {
    "Status": "Creation",
    "PrincipalAmount": "250.00",
    "TransferNumber": "282-227-7863",
    "StatusDate": "08/03/2021 02:33:37 pm",
    "MiddleName": "RACHELLE",
    "Model": "C2B",
    "ReferenceNumber": "JB777",
    "CustomerOnBehalfOf": "JULIE RACHELLE BOUTROS",
    "FirstName": "JULIE",
    "LastName": "BOUTROS",
    "ChannelType": "CO",
    "Currency": "USD"
  },
  {
    "Status": "Paid",
    "PrincipalAmount": "250.00",
    "TransferNumber": "281-296-4249",
    "StatusDate": "08/03/2021 03:38:27 pm",
    "MiddleName": "",
    "Model": "C2B",
    "ReferenceNumber": "JB777",
    "CustomerOnBehalfOf": "JULIE B",
    "FirstName": "JULIE",
    "LastName": "B",
    "ChannelType": "CO",
    "Currency": "LBP"
  }
]
```

Figure 68 – GetTransfers Response Decompressed



### 3.22. *GetLimit*

This method will return the remaining LBP and USD balance of the configured limit for a C2B2C company.

Parameter Name	Type	Description	Required
Channel Type	String	Channel Type = CO	True
Credentials	JSON	JSON username and password	True

Return Attribute	Type	Description
Maximum Total Amount	String	Maximum Total Amount limit configured for the company
Remaining Total Amount	String	Remaining Total Amount balance for the company
Maximum Transaction Number	String	Maximum Transaction Number limit configured for the company
Remaining Transaction Number	String	Maximum Transaction Number balance for the company
Currency	String	The related configured Currency
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)

#### 3.22.0. Request Example

```
{
  "ChannelType": "CO",
  "Credentials":
  {
    "User": "user_name",
    "Password": "user_password"
  }
}
```

Figure 69 – GetLimit Request

### 3.22.1. Response Example

```
{
  "ErrorDescription": "Data retrieved successfully.",
  "Response":
    "H4sIAAAAAAAAAIuuVvJNrMjMLcONyS9JzHHMzS/NK1FQs1IyMTUwUNJRCKrNTczMy8xLR5LGJluUmFecmFySmZ/nV5qblFoEUgNUADMbh'
    id5Mpqt8nAKUamMBLNw2tCMBAAA=",
  "ErrorCode": 100
}
```

Figure 70 – GetLimit Response

### 3.22.2. Response Example Decompressed

```
[
  {
    "MaximumTotalAmount": "4500",
    "RemainingTotalAmount": "4500",
    "RemainingTransactionNumber": "4",
    "MaximumTransactionNumber": "4",
    "Currency": "USD"
  },
  {
    "MaximumTotalAmount": "3500000",
    "RemainingTotalAmount": "3500000",
    "RemainingTransactionNumber": "5",
    "MaximumTransactionNumber": "5",
    "Currency": "LBP"
  }
]
```

Figure 71 – GetLimit Response Decompressed

### 3.23. *GetTransactionDetails*

This method will return the information of the transaction related to the specified Reference Number.

Parameter Name	Type	Description	Required								
Channel Type	String	Channel Type	True								
Credentials	JSON	JSON username and password	True								
Item ID	Integer	ID of the service	False								
Ven ID	Integer	ID of the service provider	False								
Product ID	Integer	ID of the product	False								
Parameters	JSON	Main key to list the required parameters in it <table><tr><th>Parameter Name</th><th>Type</th><th>Description</th><th>Required</th></tr><tr><td>Reference Number</td><td>String</td><td>Reference Number of the transaction</td><td>True</td></tr></table>	Parameter Name	Type	Description	Required	Reference Number	String	Reference Number of the transaction	True	True
Parameter Name	Type	Description	Required								
Reference Number	String	Reference Number of the transaction	True								

Return Attribute	Type	Description									
Request ID	String	Request ID for the current enquiry									
Values	JSON	<div> Main key to list the result values in it <table> <tr> <th>Return Attribute</th><th>Type</th><th>Description</th></tr> <tr> <td>Status</td><td>String</td><td>Last Status of the transaction</td></tr> <tr> <td>Reference Number</td><td>String</td><td>Reference Number of the transaction</td></tr> </table> </div>	Return Attribute	Type	Description	Status	String	Last Status of the transaction	Reference Number	String	Reference Number of the transaction
Return Attribute	Type	Description									
Status	String	Last Status of the transaction									
Reference Number	String	Reference Number of the transaction									
Values Display Names	JSON	<div> Main key to list the result Title values in it <table> <tr> <th>Return Attribute</th><th>Type</th><th>Description</th></tr> <tr> <td>Status</td><td>String</td><td>"Status" title</td></tr> <tr> <td>Reference Number</td><td>String</td><td>"Reference Number" title</td></tr> </table> </div>	Return Attribute	Type	Description	Status	String	"Status" title	Reference Number	String	"Reference Number" title
Return Attribute	Type	Description									
Status	String	"Status" title									
Reference Number	String	"Reference Number" title									
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)									

### 3.23.0. Request Example

```
{
  "ItemId": 846,
  "VenId": 33,
  "ChannelType": "API",
  "ProductId": 40,
  "Credentials":
  {
    "User": "user_name",
    "Password": "user_password"
  },
  "Parameters":
  {
    "ReferenceNumber": "202103000000402"
  }
}
```

Figure 72 –GetTransactionDetails Request

### 3.23.1. Response Example

```
{
  "ErrorDescription": "Data received successfully.",
  "Response":
  "H4sIAAAAAAAAAAKtWCkvMKU0tVrKqVoryTS0uTkxPVbJSUqrVgUq4ZBYX5CRW+iXmYigKyUhVgEfQAAAA==",
  "ErrorCode": 100
}
```

Figure 73 – GetTransactionDetails Response

### 3.23.2. Response Example Decompressed

```
{
  "Values":
  [
    {
      "Status": "Paid",
      "ReferenceNumber": "20210300000402"
    }
  ],
  "ValuesDisplayNames":
  {
    "Status": "Status",
    "ReferenceNumber": "Reference Number"
  },
  "RequestId": "5dc2b80b-b5c5-4b5f-ab1c-da11b51d2d53"
}
```

Figure 74 – GetTransactionDetails Response Decompressed

### 3.24. SendSMS

This method will send a mobile message containing the Transaction Reference Number to a specific Mobile Number. The message is predefined in the system.

Parameter Name	Type	Description	Required																
Channel Type	String	Channel Type	True																
Credentials	JSON	JSON username and password	True																
Item ID	Integer	ID of the service	False																
Ven ID	Integer	ID of the service provider	False																
Product ID	Integer	ID of the product	False																
Parameters	JSON	<div> Main Key to list the required parameters in it <table> <tr> <th>Parameter Name</th><th>Type</th><th>Description</th><th>Required</th></tr> <tr> <td>Mobile Number</td><td>String</td><td>Mobile Number to which the SMS will be sent to (Must be 7 or 8 digits)</td><td>True</td></tr> <tr> <td>Reference Number</td><td>String</td><td>Reference Number that will be sent in the SMS. <b>This value will be neglected in case the Message was provided</b></td><td>False</td></tr> <tr> <td>Message</td><td>String</td><td>The message to be sent. <b>In case the value was <u>empty</u> the default message will be sent instead</b></td><td>False</td></tr> </table> </div>	Parameter Name	Type	Description	Required	Mobile Number	String	Mobile Number to which the SMS will be sent to (Must be 7 or 8 digits)	True	Reference Number	String	Reference Number that will be sent in the SMS. <b>This value will be neglected in case the Message was provided</b>	False	Message	String	The message to be sent. <b>In case the value was <u>empty</u> the default message will be sent instead</b>	False	True
Parameter Name	Type	Description	Required																
Mobile Number	String	Mobile Number to which the SMS will be sent to (Must be 7 or 8 digits)	True																
Reference Number	String	Reference Number that will be sent in the SMS. <b>This value will be neglected in case the Message was provided</b>	False																
Message	String	The message to be sent. <b>In case the value was <u>empty</u> the default message will be sent instead</b>	False																

		<div>holding the Reference Number provided above.</div>				

Return Attribute	Type	Description						
Request ID	String	Request ID used for tracking purposes						
Values	JSON	<div> Main Key to list the result values in it <table> <tr> <th>Return Attribute</th><th>Type</th><th>Description</th></tr> <tr> <td>ZMessage</td><td>String</td><td>SMS Message</td></tr> </table> </div>	Return Attribute	Type	Description	ZMessage	String	SMS Message
Return Attribute	Type	Description						
ZMessage	String	SMS Message						
Values Display Names	JSON	<div> Main Key to list the result Title values in it <table> <tr> <th>Return Attribute</th><th>Type</th><th>Description</th></tr> <tr> <td>ZMessage</td><td>String</td><td>Message Value Title</td></tr> </table> </div>	Return Attribute	Type	Description	ZMessage	String	Message Value Title
Return Attribute	Type	Description						
ZMessage	String	Message Value Title						
Error Code and Description	JSON	JSON response if success or fail with error description (error in webservice or block period or agent host limit etc..)						

### 3.24.0. Request Example

```
{
  "ChannelType": "API",
  "Credentials":
  {
    "User": "user_name",
    "Password": "user_password"
  },
  "ItemId": 846,
  "VenId": 33,
  "ProductId": 40,
  "Parameters":
  {
    "MobileNumber": "78547854",
    "ReferenceNumber": "20210300000110"
  }
}
```

Figure 75 – SendSMS Request



### 3.24.1. Response Example

```
{
  "ErrorDescription": "Data received successfully.",
  "Response":
  "H4sIAAAAAAAAAAKtWCkvMKU0tVrKqVoryTS0uTkxPVbJSUqrVgUq4ZBYX5CRW+iXmYigKyUhVgEfQAAAA==",
  "ErrorCode": 100
}
```

Figure 76 – SendSMS Response

### 3.24.2. Response Example Decompressed

```
{
  "Values":
  {
    "ZMessage": "Dear Customer, thank you for visiting BOB Finance, your CashIn payment reference is: 20210300000402."
  },
  "ValuesDisplayNames":
  {
    "ZMessage": "The Message"
  },
  "RequestId": "b74ecffe-6753-425f-b89d-83014458e8b7"
}
```

Figure 77 - SendSMS Response Decompressed

## 4. Appendix

### 4.1. REST Call Example

```
JSONObject jsonObject      = new JSONObject();
JSONObject obj             = new JSONObject();
JSONObject meta            = new JSONObject();
HostnameVerifier hostnameVerifier = org.apache.http.conn.ssl.SSLSocketFactory.ALLOW_ALL_HOSTNAME_VERIFIER;
DefaultHttpClient client   = new DefaultHttpClient();
SchemeRegistry registry    = new SchemeRegistry();
SSLSocketFactory socketFactory = SSLSocketFactory.getSocketFactory();

jsonObject.put("ChannelType", "API");
obj.put("User", "adib");
obj.put("Password", "1");
jsonObject.put("Credentials", obj);
jsonObject.put("VenId", 1);
jsonObject.put("ItemId", 1);
jsonObject.put("ProductId", 4);
meta.put("GSMNumber", "70102030");
jsonObject.put("AlfaBillMeta", meta);

socketFactory.setHostnameVerifier((X509HostnameVerifier) hostnameVerifier);
registry.register(new Scheme("https", socketFactory, 443));

SingleClientConnManager mgr = new SingleClientConnManager(client.getParams(), registry);
DefaultHttpClient httpClient = new DefaultHttpClient(mgr, client.getParams());

HttpsURLConnection.setDefaultHostnameVerifier(hostnameVerifier);

String json      = jsonObject.toString();
StringEntity se  = new StringEntity(json, "UTF-8");
HttpPost httpPost = new HttpPost("https://10.1.10.29:8444/Intra/BoBFinanceAPI/WS/RetrieveChannelResults");

se.setContentType(MediaType.APPLICATION_JSON);
httpPost.addHeader("Accept", "application/json");
httpPost.addHeader("Content-Type", "application/json");
httpPost.setEntity(se);

HttpResponse httpResponse = httpClient.execute(httpPost);
InputStream inputStream  = httpResponse.getEntity().getContent();
String result            = convertStreamToString(inputStream);

System.out.println("Result: " + result);
```

Figure 78 - REST Call Example

#### Notes:

- All screenshots are for previewing purposes only
- Response is encoded with base64 after being compressed with GZIP
- Logos are encoded Base64 in the response

## 4.2. API Error Codes

The following error codes table is used by the API for all the services.

Error Code	Error Description
100	Success
101	Error in process
102	Request parameter is null
103	Parameter Type mismatch
104	Missing parameters
105	No access to services or service providers
106	Credentials and Channel combination error
107	The Combination Item, Vendor, Product is wrong
201	Error in Process
203	Parameter Type mismatch
204	Missing parameters
205	No access to services or service providers
207	Constraint violation
208	Configuration file data violation
209	Unicity
210	Data dependency
211	Limit Control
212	Business rules
213	Miscellaneous
214	Block period
215	No fees available for the amount
216	Parameters used to Pay should match the ones received in Results method
217	Data integrity violation

#### **4.3. MoF Mechanique *InjectTransactionalPayment* Request**

For the MoF Mechanique service, the *InjectTransactionalPayment* request requires a trick. The values of the Street, Building and Neighborhood should be Arabic and at the same time encoded to Base64.

This information is described in the FieldsInfo attribute of the related columns when calling the *RetrieveChannelResults* method.

For example, بيروت will be encoded to **2KjZitix2YjYqg==**

#### 4.4. Testing Data

Below you can find the testing data that can be used for the different services. The mentioned data are always valid and they can be consumed at any time:

Service		Testing Data
Alfa	70102030	PIN# 1234
Touch	03030405	
Ogero	Number in good condition	1123120
	A number with penalty	1123121
	Number paid at the same store	1123122
	Wrong number format	1123123
	Number domiciliated at the bank	1123124
VAT	Any MoF Reference and Amount is accepted as long as the Reference is consisted of 12 characters and the Amount in LBP. For example: 813122925349 and 120000 LBP	

#### 4.5. E-Cash: Create B2C Transfer

Below you can find the requests and the responses that can be used in order to create B2C transfer in the company's name.

##### 4.5.0. B2C Company Check

Call "RetrieveChannelResults" to check the fields that should be sent upon the payment's creation. This web service can be called once and not on each creation.

##### 4.5.0.1. Request Example

```
{
  "ItemId":3,
  "VenId":6,
  "ProductId":38,
  "B2CMeta":{
    "CompanyName":" XXXXXX",
    "AccountNumber":"0140112345600",
    "Currency":"LBP"
  },
  "ChannelType":"API",
  "Credentials":{
    "User":" XXXXXX",
    "Password":" XXXXXX"
  }
}
```

Figure 79 - B2C Company Check Request

##### 4.5.0.2. Response Example

```
{
  "Values":{
    "AccountNumber":"0140112345600",
    "CompanyName":" XXXXXX",
    "Currency":"LBP"
  },
  "Validation Status":"Data Validated.",
  "ValuesDisplayNames":{
    "Amount":"Amount",
    "AccountNumber":"Account Number",
    "ReceiverEmail":"Receiver Email",
    "ReceiverMobile":"Receiver Mobile",
    "ReceiverFirstName":"Receiver First Name",
    "CompanyName":"Company Name",
    "ReceiverLastName":"Receiver Last Name",
    "Currency":"Currency"
  },
}
```

Figure 80 - B2C Company Check Response

#### 4.5.1. B2C Transfer Creation

Call "InjectTransactionalPayment" to create the transfer.

##### 4.5.1.1. Request Example

```
{
  "B2CResult":{
    "CompanyName":"XXXXXX",
    "Amount":"15000",
    "Currency":"LBP",
    "ReceiverFirstName":"Ziad",
    "ReceiverLastName":"BOU CHACRA",
    "ReceiverMobile":"03726408",
    "ReceiverEmail":"ZBouChacra@bobfin.com"
  },
  "ItemId":3,
  "VenId":6,
  "ProductId":38,
  "ChannelType":"API",
  "Credentials":{
    "User":"XXXXXX",
    "Password":"XXXXXX"
  }
}
```

Figure 81 - B2C Transfer Creation Request

##### 4.5.1.2. Response Example

```
{"TransactionReference":"889-201-6197"}
```

Figure 82 - B2C Transfer Creation Response