# UPS API Specification for LIB  3<sup>rd</sup> Party Bill payments

The purpose of this API document is to facilitate the integration between Vite-Lion Bank UPS and third party Billing systems. The API enables account-to-account transactions on Lion Bank.

## PROTOCOL

The API specification document describes a middleware that uses the standard HTTP RESTful Web Service protocol. All methods are designed to be synchronous and session-less, meaning that each request is self-contained and receives a single synchronous response. The service can be accessed through the access point specified in the following scheme:

▪       http://{LIB_UPS_API_BASE_URL}/{METHOD}

{METHOD} relates to the specific method name to be used in the integration

And a **token** should be specified on the header.

## DATA FORMAT

 Both the requests and the responses shall use a standard JSON data format.

## 1. Search Bills

➢ An API for search a bill by biller Id/name/phone/short_code/Customer Id or other keys.

▪ **Endpoint**:http://{LIB_UPS_API_BASE_URL}/api/ups/search/bills?keyword='searched text'

▪ **Method**: GET

▪ **Headers**:  LIB_UPS_TOKEN: < {{token }}>

REQUEST Query PARAMETERS

| Name | Description | Type | Required |
|------|-------------|------|----------|
| keyword | Searched text | String | Yes |

## Expected Response

*On success  bill list which contains the searched field*

```json
{"error":false,
"statusCode":200,
"items":[{
    "_id": "6597aa70c57c1209639c8cb2",
    "customerName": "hana mebratu kiros",
    "mobile": "",
    "amount": 5,
    "penalty": 0,
    "serviceFee": 3,
    "billCCY": "ETB",
    "paymentTerm": "September",
    "registrationFee": 0,
    "materialsFee": 0,
    "transportationFee": 0,
    "othersFee": 0,
    "isPaid": false,
    "orgId": "6597a3f3239d54c10ee6cb79",
    "orgName": "Henon Test",
    "customer": "6597a8d3239d54c10ee6cc89",
    "customerOrgId": "HT-ST0005",
    "billCode": "HT-N8WR2GZU"
}
]
}
```

*On error*

```json
{
"error":true,
"statusCode":500,
"items":[]
}
```

## 2. Bill Query

➢ An API for querying a bills  by bill id concatenated by * if more than 1 bills are requested.

- **Endpoint**: http://{LIB_UPS_API_BASE_URL}/api/ups/more_bills-query

- **Method**: GET

- **Headers**:  LIB_MOB_TOKEN: < {{token }}>

### REQUEST PARAMETERS

| Name | Description | Type | Required |
|------|-------------|------|----------|
| Params | Bill code(bill codes concatenated w by  *) ex: 'BTHDFF788*BTHeFR546' | String | Yes |

**Expected response:**

*On success: array of the bills which contains the bill_Ids on the parameter*

```json
{"error":false,
 "statusCode":200,
 "items":[{
     "_id": "6597aa70c57c1209639c8cb2",
     "customerName": "hana mebratu kiros",
     "amount": 5,
     "billCCY": "ETB",
     "paymentTerm": "September",
     "isPaid": false,
     "orgId": "6597a3f3239d54c10ee6cb79",
     "orgName": "Henon Test",
     "customer": "6597a8d3239d54c10ee6cc89",
     "customerOrgId": "HT-ST0005",
     "billCode": "HT-N8WR2GZU"
}
]
}
```

*On error*

```
{
"error":true,
"statusCode":500,
"items":[]
}
```

## 3. Pay Bill  Call back Api
➢ An API call after successful Transaction of the order.

- ▪ **Endpoint**: http://{LIB_UPS_API_BASE_URL}/api/ups/c2b-payment-validation-request
- ▪ **Method**: POST
- ▪ **Headers**:  LIB_UPS_TOKEN: < {{token }}>

**REQUEST BODY PARAMETERS**
**NB: array of the bills**

| Name | Description | Type | Required |
|------|-------------|------|----------|
| transType | Type :'LIB BANK PAYMENT' | String | Yes |
| amount | Paid amount (sum of the returned bill with the given bill code) | Number | yes |
| billCode | The paid bill code | String | yes |
| transactionNumber | Bank Transaction Number | String | yes |

## Request Format:

## Body

```
[{
    "transType": "LIB BANK Payment",
    "amount": 950,
    "transactionNumber": "RFDT567474747",
    "billCode":"G-HTY787686"}]
```

**success Response: ResultCode = 0**

```
{
    "error":false,
    "statusCode":200,
    "ResultCode":0
}
```

**Failed Response: ResultCode = 1**

```
{
    "error":true,
    "statusCode":500,
    "ResultCode":1
}
```