



HUBTEL BALANCE QUERY & TRANSFER

API Reference



API Change Log

Changes between document issues are cumulative. The latest document issue contains all the changes made in earlier issues.

v1.0.5 (2024-02-13)

Hubtel Contacts updated.

v1.0.4 (2024-01-04)

Links updated.

v1.0.3 (2023-10-25)

A new endpoint for Prepaid Balance Query.

v1.0.2 (2023-09-06)

This is the first official issue.

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1.0 Overview of the Hubtel Balance Query & Transfer API

The **Hubtel Balance Query API** allows you to check the balances of both POS Sales and Prepaid Deposit accounts associated with your Hubtel Merchant Account.

The **Hubtel Balance Transfer API** facilitates the transfer of funds from your POS Sales account to your Prepaid Deposit account within your Hubtel Merchant Account.

You can find your **POS Sales** and your **Prepaid Deposit** account numbers [here](#).

2.0 Getting Started

First, you need to hold a Hubtel Merchant Account to be able to use the Hubtel Balance Query and Transfer API.

If you already have a Hubtel account, then skip to **Step 2**.

Step 1: Create a Hubtel Account

Step 2: Have the Account Verified and approved.

2.1 Authentication

For this API, there are two mandatory methods of authentication:

1. API Keys

You need to authenticate every API request you make to Hubtel Verification API using **Basic Auth**. Authenticate by encoding your username (**API ID**) and password (**API Key**) to **Base64 HTTP Basic Authorization** given in the formula below.

Authorization: Basic {base64_encode(APIID:APIKey)}

A Base64 encoding of your API keys should have a similar Authorization header appear like this: **Basic a2hlcW2sb3U6bWdhtHdgYW8=**. Try a sample basic auth encoding [here](#).

Login to your Hubtel account [here](#) to generate your API ID and API Key(s).

Please contact your Retail Systems Engineer to add scopes to your API Keys.

2. Business IP Whitelisting

You must share your public IP address with your Retail System Engineer for whitelisting.

All API Endpoints are live and only requests from whitelisted IP(s) can reach these endpoints shared in this reference.

3.0 API Reference

The **Hubtel Balance Query and Transfer API** focuses on

1. Balance Query
2. Balance Transfer

3.1 Balance Query

1. POS Sales Balance Query

This endpoint can be used to query the balance of your POS Sales account.

To initiate a request, make an HTTP **GET** request to the below URL with the required parameters. Passing your Hubtel POS Sales account number in the endpoint is mandatory. Find your POS Sales Account number [here](#) after logging into your Hubtel Merchant Account.

API Endpoint	https://trnf.hubtel.com/api/inter-transfers/{POS_SALES_ACCOUNT_NUMBER}
Request Type	GET
Content-Type	JSON

Request Parameters			
Parameter	Type	Requirement	Description
POS_SALES_ACCOUNT_NUMBER	Number	Mandatory	The merchant's Hubtel POS Sales account number. Find yours here .

- [Sample POS Sales Balance Query Request](#)

```
GET api/inter-transfers/11684 HTTP/1.1
Host: trnf.hubtel.com
Accept: application/json
Content-Type: application/json
Authorization: Basic endje0BiZHza250fT3=
Cache-Control: no-cache
```

Response Parameters		
Parameter	Type	Description
responseCode	String	The unique response code on the status of the transaction.
message	String	The message containing the status of the transaction.

data	Object	An object containing the required data response from the POS Sales Balance Query API .
amount	Number	The balance of the account queried.

- **Sample Server Response**

```
{
  "responseCode": "0000",
  "message": "Success",
  "data": {
    "amount": 123.50
  }
}
```

2. Prepaid Deposit Balance Query

This endpoint can be used to query the balance of your Prepaid Deposit account.

To initiate a request, make an HTTP **GET** request to the below URL with the required parameters. Passing your Hubtel Prepaid Deposit account number in the endpoint is mandatory. Find your Prepaid Deposit account number [here](#) after logging into your Hubtel Merchant Account.

API Endpoint	https://trnf.hubtel.com/api/inter-transfers/prepaid/{PREPAID_DEPOSIT_ACCOUNT_NUMBER}
Request Type	GET
Content-Type	JSON

Request Parameters			
Parameter	Type	Requirement	Description
PREPAID_DEPOSIT_ACCOUNT_NUMBER	Number	Mandatory	The merchant's Hubtel Prepaid Deposit account number. Find yours here .

- **Sample Prepaid Deposit Balance Query Request**

GET [api/inter-transfers/prepaid/11691](https://trnf.hubtel.com/api/inter-transfers/prepaid/11691) HTTP/1.1

Host: trnf.hubtel.com

Accept: [application/json](#)

Content-Type: [application/json](#)

Authorization: Basic [endje0BiZHhza250fT3=](#)

Cache-Control: [no-cache](#)

Response Parameters		
Parameter	Type	Description
responseCode	String	The unique response code on the status of the transaction.
message	String	The message containing the status of the transaction.
data	Object	An object containing the required data response from the Prepaid Deposit Balance Query API .
amount	Number	The balance of the account queried.

- **Sample Server Response**

```
{
  "responseCode": "0000",
  "message": "Success",
  "data": {
    "amount": 11.60
  }
}
```

3.2 Balance Transfer

This endpoint allows you to transfer funds from your POS Sales account to your Prepaid Deposit account within your Hubtel Merchant Account.

To initiate a Balance Transfer request, make an HTTP **POST** request to the below URL with the required parameters. Passing your POS Sales Account Number in the endpoint is also mandatory. Find your POS Sales Account Number [here](#) after logging into your Hubtel Merchant Account.

API Endpoint	https://trnf.hubtel.com/api/inter-transfers/{POS_SALES_ACCOUNT_NUMBER}
Request Type	POST
Content-Type	JSON

Request Parameters			
Parameter	Type	Requirement	Description
POS_SALES_ACCOUNT_NUMBER	Number	Mandatory	The POS Sales Account Number of the your merchant account. Find yours here .
Description	String	Mandatory	A brief description of the transaction.

Amount	Number	Mandatory	The amount to be sent from the account specified. E.g. 0.50
ClientReference	String	Mandatory	The reference provided by the API user, and must be unique and preferably be alphanumeric characters. Maximum length is 36 characters
DestinationAccountNumber	String	Mandatory	The account you are transferring to, i.e., the Prepaid Deposit Account Number Find yours here .
PrimaryCallbackUrl	String	Mandatory	URL used to receive callback payload of Balance Transfer transactions from Hubtel.

- **Sample Balance Transfer Request**

POST /api/inter-transfers/11684 HTTP/1.1

Host: trnf.hubtel.com

Accept: application/json

Content-Type: application/json

Authorization: Basic endje0BiZHza250fT3=

Cache-Control: no-cache

```
{
  "Description": "Hubtel Transfer Test",
  "Amount": 0.8,
  "ClientReference": "bd0iof4803202ef49",
  "DestinationAccountNumber": "11691",
  "PrimaryCallbackUrl": "https://webhook.site/b513d1a9-e7826-f315254a6ede",
}
```

Response Parameters		
Parameter	Type	Description
responseCode	String	The unique response code on the status of the transaction.
message	String	The message containing the status of the transaction.
data	Object	An object containing the required data response from the Hubtel Balance Transfer API .
clientReference	String	The reference provided by the API user.
amount	Number	The amount sent from the account specified.
charges	Number	The amount charged. There is no charge. It is free.
meta	String	This is usually null.
recipientName	String	The name on the Merchant account.

- Sample Server Response

```
{
  "responseCode": "0001",
  "message": "Pending",
  "data": {
    "clientReference": "bd0iof4803202ef49",
    "description": "Your request has been accepted. We'll notify you when the transaction is completed.",
    "amount": 0.8,
    "charges": 0,
    "meta": null,
    "recipientName": "gershon"
  }
}
```

3.3 Balance Transfer Callback

The **Hubtel Balance Transfer API** mandatorily sends a payload to callbackURL provided in each request. The callback payload determines **final status** of a pending transaction response i.e. transaction with **0000** ResponseCode. The callback URL you specified in the Balance Transfer request should be implemented to listen for a HTTP POST payload from Hubtel.

Hubtel Balance Transfer has an **asynchronous flow**. This means that the final status of a transaction cannot be determined immediately after a request. It may take some time (usually less than 30 seconds). Hence, it is **paramount** and **required** to implement an HTTP callback on your server to be able **to receive the final status** of each transaction.

We recommend using services like [RequestBin](#) or [Webhook](#) to test your callback. These services allow you to define temporary dummy endpoints which will show you the requests and all the data you are receiving from Hubtel.

- Sample Balance Transfer Callback

```
{
  "ResponseCode": "0000",
  "Message": "Success",
  "Data": {
    "ClientReference": "bd0iof4803202ef49",
    "Description": "Hubtel Transfer Test",
    "Amount": 0.8,
    "Charges": null,
    "Meta": null,
    "RecipientName": "gershon",
  }
}
```

4.0 API Response Codes

The Hubtel Balance Query and Transfer API uses standard HTTP error reporting. Successful requests return HTTP status codes in the 2xx. Failed requests return status codes in 4xx and 5xx. Response Codes are included in the JSON response body, which contains information about the error or status:

<u>HTTP StatusCode</u>	<u>ResponseCode</u>	<u>Description</u>	<u>Required Action</u>
200	0000/0001	The request has been processed successfully.	None
401		None.	Pass the correct Account Number in the request. Ensure your API keys are valid.
400	4000	Prepaid Account Number is invalid for this transaction./ Provided client reference already exists. Please check and try again.	Ensure you are passing the correct Prepaid Account Number/ Ensure ClientReference is unique.

Contact Us

Hubtel

63 Hotel Road
Accra - Ghana

Postal Code: GA098
Digital Address: GA-098-9573

P.O. Box CT 2156 Cantonments Accra, Ghana.

Telephone: (+233) 30 700 0573

Support: business@hubtel.com

www.hubtel.com

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