flash

Partner API v4

API Manager

Contact Integrations

For any queries relating to this document or products and services of **Flash**, please contact:

integrations@flash.co.za

Revision History

Version	Date	Author(s)	Description
1.0	17/10/2023	Wesley Jansen	Initial Version
2.0	19/07/2024	Kwande Skaap	Environmental URLs, utilities purchase and Flash Pay Biller Codes,

1 Overview

The Flash Partner API provides access to Flash's products and services. We offer integrations for both Direct Merchants and Payment Service Providers. If you have any questions or queries, please feel free to contact us at integrations@flash.co.za

1.1 Authentication

All requests are protected by API bearer authentication using OAuth 2.0 access tokens. An access token is issued by the OAuth 2.0 server from the Access Token URL and is valid for 3600 seconds (60 minutes):

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Environment	Token URL
Staging	https://api-flashswitch-sandbox.flash-group.com/token
Production	https://api.flashswitch.flash-group.com/token

1.1.1 Generating an Access Token

Flash Integrations will have provided your organisation with an API Key for both Sandbox and/or Production. To obtain an access token, run the following command (where Authorization: Basic is followed by the API Key provided by Flash Integrations) and the response will include the access token as well as the token's validity period in seconds.

Request Example	Response Example

curl -k -d "grant_type=client_credentials"
-H "Authorization: Basic
X0ZlODIlDbllpeEVUbHBfdDJsWHdhOlN3SmY5dGd3STlxb0w4VmxHcGMwTWE"
https: //api.flashswitch.flash-group.com/token
	{
	    "access_token": "13035646-274b-30d9-b666-706c8f4dbab4",
	    "scope": "am_application_scope default",
	    "token_type": "Bearer",
	    "expires_in": 3600
	}

When testing in a Sandbox environment, make sure to use your Sandbox token. Once you're ready to send live transactions, you can switch to the Production token. If authorization errors occur due to an expired token or you feel your token may have been compromised, please generate a new token.

1.1.2 Authenticating an API call

To send API requests through the Flash Partner API, the access token must be included with every API call. To authenticate an API request, the following parameters must be sent.

1.1.2.1   Request Parameters

Parameter	Value
Location	Endpoint
Accept	application/json
Content-Type	application/json
Authorization	Bearer Access Token
Data	Request

1.1.2.2   Example Request and Response

Request Example	Response Example
curl --location 'https://api.flashswitch.flash-group.com/aggregation/4.0/1voucher/purchase' \ --header 'Content-Type: application/json' \ --header 'Accept: application/json' \ --header 'Authorization: Bearer 1009c9b5-c70f-3ca4-8429-bd568fbc7597' --data '{Request}'	Response

1.2   Error Handling

1.2.1   Response Codes

1.2.1.1   Successful Response

The API should return an HTTP status code 200 for all successful requests. The response body should be a JSON object containing a key responseCode with a value of 0. This indicates a successful operation. Additional data relevant to the request may be included in the response JSON object. Examples of successful responses can be found here.

PLEASE NOTE: JSON is a loosely structured protocol; whilst it is Flash's intention to conform as strictly as possible to the API data specifications as written, certain extra fields might be present in API response payloads that are not documented. Please configure your parser to be permissive when dealing with responses, and simply ignore any values that do not match the documented API structures.

1.2.1.2   Unsuccessful Response

If an API call is unsuccessful, it should still return an appropriate HTTP status code (non-200) to indicate the failure. The response JSON object should contain an error code and a descriptive error message to help identify the issue.

In some cases, an API call may result in an unsuccessful response (responseCode is not 0) despite an HTTP status code 200. This can occur due to errors from intermediary systems.

Example of an unsuccessful response:

Response Example
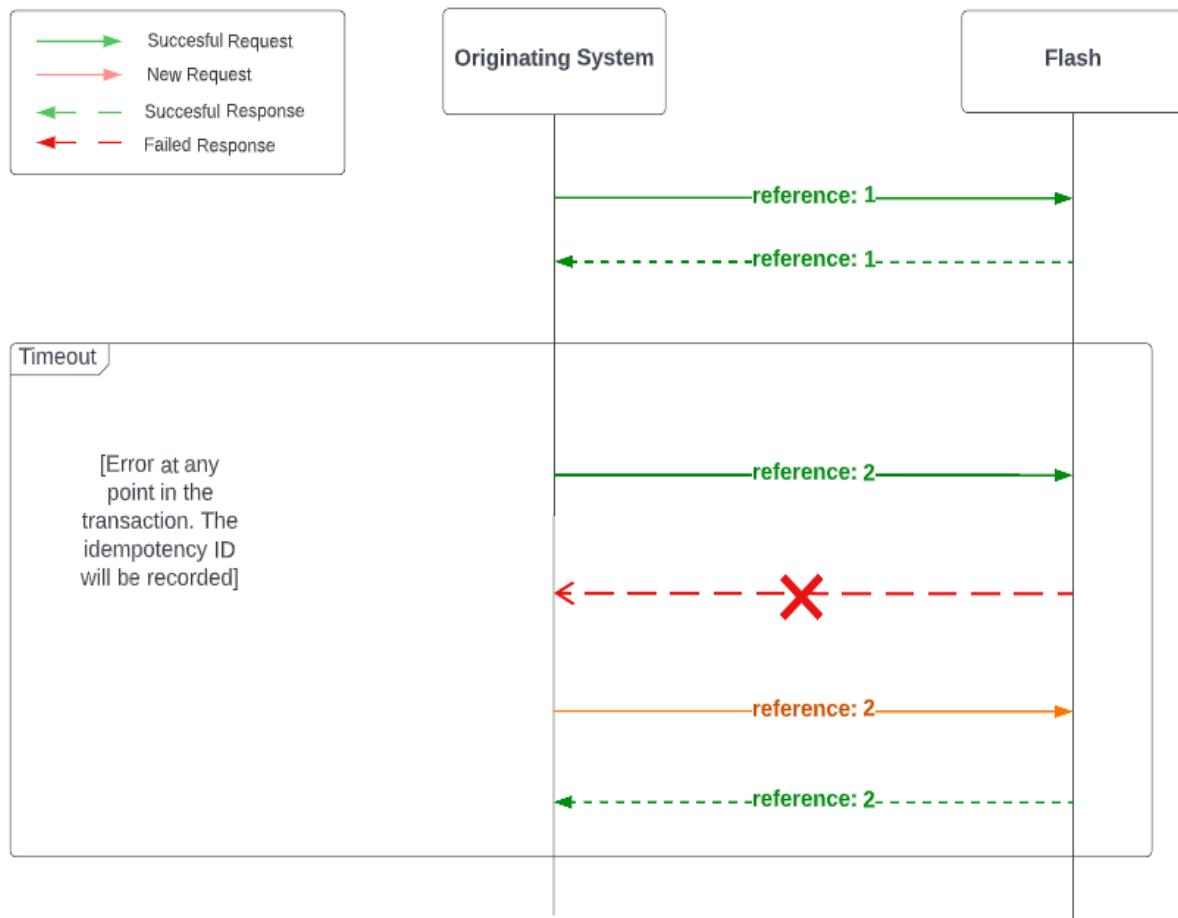
```
{
  "responseCode": 2402,
  "responseMessage": "The voucher you have entered could not be found",
  "reference": "Integrations_test",
  "transactionId": "257901",
  "path": "/api/v4/1voucher/redeem"
}
```

For a comprehensive list of possible error codes and their corresponding descriptions, please refer to Response Codes.

It is essential to handle both successful and unsuccessful responses appropriately in your application to ensure robust error handling and user experience.

1.2.2   Idempotent Requests

The endpoints in this API are designed with idempotency, which means that if a subsequent request is sent with the same **reference** as the initial request, it will return the response of the initial request. This is particularly useful in cases of a broken connection or timeout during the response process. To make use of the idempotency, subsequent requests or retries must include the same **reference**. The figure below shows an example of the flow of an idempotent request.

1.2.3 Reversals

Reversals are available on supported products where applicable. The reversal endpoint allows the complete reversal of a transaction to its original state. This functionality is particularly useful for Point of Sale (POS) applications, especially in cases where there is a broken connection or timeout during the response process.

When a reversal is successfully issued on a product, a new transaction is not recorded in the transaction file and all charges related to the original transaction are reversed, setting the original transaction's status to 'Reversed.'

Reversals can be performed only on the following Products: 1Voucher, Cash Out PIN, Eezi Voucher. Where reversals are not supported for a product, a specific error message will be returned.

2 API Reference

2.1 Base URL

The base URLs for this API are as follows:

Environment	Base URL
Sandbox	https://api-flashswitch-sandbox.flash-group.com
Production	https://api.flashswitch.flash-group.com

2.2 Accounts

The Accounts resource group provides non-product specific queries and actions relating an account. The following endpoints are available for Accounts:

2.2.1 List Products

HTTP Method	Endpoint
GET	Base URL/aggregation/4.0/accounts/{accountNumber}/products

2.2.1.1 Example Request and Response
For a request and response example, please refer to the List Products request and response.

2.2.2 Lookup a Product by Product Code

HTTP Method	Endpoint
GET	Base URL/aggregation/4.0/accounts/{accountNumber}/products/{productCode}

2.2.2.1 Example Request and Response
For a request and response example, please refer to the Lookup a Product by Product Code request and response

2.2.3 Lookup Products by Product Group

This applies to the following product groups: 1Voucher, Cash Out PIN, Cellular, Eezi Vouchers, Flash Token, Gift Vouchers, Prepaid Utilities and Flash Pay.

HTTP Method	Endpoint
GET	Base URL/aggregation/4.0/accounts/{accountNumber}/products/{productGroup}

2.2.3.1 Example Request and Response

For a request and response example, please refer to the Lookup Products by Product Group request and response

2.3 1Voucher

The 1Voucher product group provides the ability to access 1Voucher services, this includes purchasing, disbursing, redeeming and refunding a redemption of a 1Voucher. The following endpoints are available for 1Voucher:

2.3.1 Purchase a 1Voucher

Note: this request will only be available for purchasing a 1Voucher using payment methods.

HTTP Method	Endpoint
POST	Base URL/aggregation/4.0/1voucher/purchase

2.3.1.1 Request Parameters

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only **-,.,=** and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.
amount	Integer	Yes	**Cents**	**The value of the 1Voucher being purchased.** The currency is "ZAR" and the value is in cents.
storeId	String	No	**Alphanumeric characters** allowed	**The store where the 1Voucher was purchased.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** Store locations, each individual storeId will need to be sent in the request.
terminalId	String	No	**Alphanumeric characters** allowed	**The till in the store where the 1Voucher was purchased.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** store locations, each individual terminalId will need to be sent in the request.
paymentMethod	String	No	**Alphanumeric characters** allowed	**The paymentMethod used to make the 1Voucher purchase.**
metadata	Set of Key Value Pairs	No	**Up to 9 properties.** Property name up to 10 characters. Property value up to 43 characters	**Set of key-value pairs.** This can be useful for storing additional information about the transaction in a structured format. e.g. key-value pair: storeID and value could be used to identify Voucher redemptions at a store level.

2.3.1.2   Example Request and Response

For a request and response example, please refer to the Purchase a 1Voucher request and response.

2.3.2   Disburse a 1Voucher

Note: this request will only be available for disbursing 1Vouchers from an online balance.

HTTP Method	Endpoint
POST	Base URL/aggregation/4.0/1voucher/disburse

2.3.2.1   Request Parameters

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only -,.,= and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.
amount	Integer	Yes	**Cents**	**The value of the 1Voucher being disbursed.** The currency is "ZAR" and the value is in cents.
storeId	String	No	**Alphanumeric characters** allowed	**The store where the 1Voucher was disbursed.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** Store locations, each individual storeId will need to be sent in the request.
terminalId	String	No	**Alphanumeric characters** allowed	**The till in the store where the 1Voucher was disbursed.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** store locations, each individual terminalId will need to be sent in the request.
metadata	Set of Key Value Pairs	No	**Up to 9 properties.** Property name up to 10 characters. Property value up to 43 characters	**Set of key-value pairs.** This can be useful for storing additional information about the transaction in a structured format. e.g. key-value pair: storeID and value could be used to identify Voucher redemptions at a store level.

2.3.2.2   Example Request and Response

For a request and response example, please refer to the Disburse a 1Voucher request and response.

2.3.3   Redeem a 1Voucher

HTTP Method	Endpoint
POST	Base URL/aggregation/4.0/1voucher/redeem

2.3.3.1   Request Parameters

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only -,.,= and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.
pin	String	Yes	**16 digits**	The **pin of the voucher** to be redeemed
amount	Integer	Yes	**Cents**	**The value of the 1Voucher being redeemed.** The currency is "ZAR" and the value is in cents. "0" value will redeem the full value of the voucher.
storeId	String	No	**Alphanumeric characters** allowed	**The store where the 1Voucher was redeemed.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** Store locations, each individual storeId will need to be sent in the request.
terminalId	String	No	**Alphanumeric characters** allowed	**The till in the store where the 1Voucher was redeemed.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** store locations, each individual terminalId will need to be sent in the request.
mobileNumber	String	No	**11 Digits** (27 Country Code with no leading 0)	For a **Partial Redemption/Change Voucher** where the redeemed amount is less than the Voucher value, the new Voucher will be sent as an SMS to the mobileNumber provided. If no mobileNumber is supplied, the Voucher will be returned in the response.
metadata	Set of Key Value Pairs	No	**Up to 9 properties.** Property name up to 10 characters. Property value up to 43 characters	**Set of key-value pairs.** This can be useful for storing additional information about the transaction in a structured format. e.g. key-value pair: storeID and value could be used to identify Voucher redemptions at a store level.

2.3.3.2 Example Request and Response

For a request and response example, please refer to the Redeem a 1Voucher request and response.

2.3.4 Refund a 1Voucher Redemption

Note: This request does not reference the original redemption transaction. Instead, a new voucher is provided for the full requested amount and the amount will be deducted from the redemption balance.

HTTP Method	Endpoint
POST	Base URL/aggregation/4.0/1voucher/refund

2.3.4.1 Request Parameters

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only -,.,= and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.
amount	Integer	Yes	**Cents**	**The value of the 1Voucher being refunded.** The currency is "ZAR" and the value is in cents.
storeId	String	No	**Alphanumeric characters** allowed	**The store where the 1Voucher was refunded.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** Store locations, each individual storeId will need to be sent in the request.
terminalId	String	No	**Alphanumeric characters** allowed	**The till in the store where the 1Voucher was refunded.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** store locations, each individual terminalId will need to be sent in the request.
mobileNumber	String	No	**11 Digits** (27 Country Code with no leading 0)	For a **Refund**, the new Voucher will be sent as an SMS to the mobileNumber provided. If no mobileNumber is supplied, the Voucher will be returned in the response.
metadata	Set of Key Value Pairs	No	**Up to 9 properties.** Property name up to 10 characters. Property value up to 43 characters	**Set of key-value pairs.** This can be useful for storing additional information about the transaction in a structured format. e.g. key-value pair: storeID and value could be used to identify Voucher redemptions at a store level.

2.3.4.2   Example Request and Response

For a request and response example, please refer to the Refund a 1Voucher Redemption request and response.

2.3.5   Reverse a 1Voucher Transaction

Note: SMS is not supported for change voucher and refund transactions when a Merchant has been configured for Reversals. 1Vouchers that have been purchased and redeemed cannot be reversed.

HTTP Method	Endpoint
POST	Base URL/aggregation/4.0/1voucher/reverse

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only **-,.,=** and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
originalReference	String	Yes	Only **-,.,=** and **alphanumeric characters** allowed	**Client-defined reference number** of the original transaction that is being reversed.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.

2.3.5.1   Example Request and Response

For a request and response example, please refer to the Reverse a 1Voucher Transaction request and response

2.4   Gift Vouchers

The Gift Vouchers product group provides the ability to purchase Gift Voucher products. The following endpoints are available for Gift Vouchers:

2.4.1   Purchase a Gift Voucher

HTTP Method	Endpoint
POST	Base URL/aggregation/4.0/gift-voucher/purchase

2.4.1.1   Request Parameters

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only -,.,= and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.
amount	Integer	Yes	**Cents**	**The value of the Gift Voucher being purchased.** The currency is "ZAR" and the value is in cents.
productCode	Integer	Yes	**Positive Integers** allowed.	A **Flash assigned unique product identifier** that identifies a specific Gift Voucher product being purchased.
storeId	String	Yes	**Alphanumeric characters** allowed	**The store where the Gift Voucher was purchased.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** Store locations, each individual storeId will need to be sent in the request.
terminalId	String	Yes	**Alphanumeric characters** allowed	**The till in the store where the Gift Voucher was purchased.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** store locations, each individual terminalId will need to be sent in the request.
barcode	String	No	**Positive Integers** allowed.	A **Flash assigned EAN** that identifies a specific Gift Voucher product being purchased. A barcode can be provided in place of the product code. If a barcode is provided, the product code cannot be included and an error will be returned.

paymentMethod	String	No	**Alphanumeric characters** allowed	**The paymentMethod used to make the GiftVoucher purchase.**
metadata	Set of Key Value Pairs	No	**Up to 9 properties.** Property name up to 10 characters. Property value up to 43 characters	**Set of key-value pairs.** This can be useful for storing additional information about the transaction in a structured format. e.g. key-value pair: storeID and value could be used to identify Voucher redemptions at a store level.

2.4.1.2   Example Request and Response

For a request and response example, please refer to the Purchase a Gift Voucher request and response.

2.5   Cash Out PIN

The Cash Out PIN product group provides the ability to access Cash Out PIN services, this includes purchasing and cancelling the purchase of a Cash Out PIN. The following endpoints are available for Cash Out PIN:

2.5.1   Purchase a Cash Out PIN

HTTP Method	Endpoint
POST	Base URL/aggregation/4.0/cash-out-pin/purchase

2.5.1.1   Request Parameters

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only -,.,= and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.
amount	Integer	Yes	**Cents**	**The value of the Cash Out PIN being purchased.** The currency is "ZAR" and the value is in cents.
productCode	Integer	Yes	**Positive Integers** allowed.	A **Flash assigned unique product identifier** that identifies the Cash Out PIN product assigned to a Merchant account.
storeId	String	No	**Alphanumeric characters** allowed	**The store where the Cash Out PIN was purchased.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** Store locations, each individual storeId will need to be sent in the request.
terminalId	String	No	**Alphanumeric characters** allowed	**The till in the store where the Cash Out PIN was purchased.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** store locations, each individual terminalId will need to be sent in the request.
paymentMethod	String	No	**Alphanumeric characters** allowed	**The paymentMethod used to make the Cash Out PIN purchase.**

metadata	Set of Key Value Pairs	No	**Up to 9 properties.** Property name up to 10 characters. Property value up to 43 characters	**Set of key-value pairs.** This can be useful for storing additional information about the transaction in a structured format. e.g. key-value pair: storeID and value could be used to identify Voucher redemptions at a store level.

2.5.1.2   Example Request and Response

For a request and response example, please refer to the Purchase a Cash Out PIN request and response.

2.5.2   Cancel a Cash Out PIN Purchase

HTTP Method	Endpoint
POST	Base URL/aggregation/4.0/cash-out-pin/cancel

2.5.2.1   Request Parameters

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only -,.,= and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.
serialNumber	String	Yes	**Alphanumeric characters** allowed	**The serial number** issued for the Cash out PIN. This is used to identify the Voucher being cancelled.
productCode	Integer	Yes	**Positive Integers** allowed.	A **Flash assigned unique product identifier** that identifies the Cash Out PIN product assigned to a Merchant account.
storeId	String	No	**Alphanumeric characters** allowed	**The store where the Cash Out PIN was cancelled.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** Store locations, each individual storeId will need to be sent in the request.
terminalId	String	No	**Alphanumeric characters** allowed	**The till in the store where the Cash Out PIN was cancelled.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** store locations, each individual terminalId will need to be sent in the request.
metadata	Set of Key Value Pairs	No	**Up to 9 properties.** Property name up to 10 characters. Property value up to 43 characters	**Set of key-value pairs.** This can be useful for storing additional information about the transaction in a structured format. e.g. key-value pair: storeID and value could be used to identify Voucher redemptions at a store level.

2.5.2.2   Example Request and Response

For a request and response example, please refer to the Cancel a Cash Out PIN Purchase request and response.

2.5.3 Look up a Cash Out PIN

HTTP Method	Endpoint
POST	Base URL/aggregation/4.0/cash-out-pin/lookup

2.5.3.1 Request Parameters

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only -,.,= and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.
serialNumber	String	Yes	**Alphanumeric characters** allowed	**The serial number** issued for the Cash out PIN. This is used to identify the Voucher being looked up.
productCode	Integer	Yes	**Positive Integers** allowed.	A **Flash assigned unique product identifier** that identifies the Cash Out PIN product assigned to a Merchant account.
metadata	Set of Key Value Pairs	No	**Up to 9 properties.** Property name up to 10 characters. Property value up to 43 characters.	**Set of key-value pairs.** This can be useful for storing additional information about the transaction in a structured format. e.g. key-value pair: storeID and value could be used to identify Voucher redemptions at a store level.

2.5.3.2 Example Request and Response

For a request and response example, please refer to the Look up a Cash Out PIN request and response.

2.5.4 Reverse a Cash Out PIN Transaction

Note: Cash Out PINs that have been purchased and redeemed cannot be reversed.

HTTP Method	Endpoint
POST	Base URL/aggregation/4.0/cash-out-pin/reverse

Parameter	Data Type	Required	Format	Description

reference	String	Yes	Only -,.,= and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
originalReference	String	Yes	Only -,.,= and **alphanumeric characters** allowed	**Client-defined reference number** of the original transaction that is being reversed.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.

2.5.4.1 Example Request and Response

For a request and response example, please refer to the Reverse a Cash Out PIN request and response.

2.6 Flash Token

2.6.1 Purchase a Flash Token

HTTP Method	Endpoint
POST	Base URL/aggregation/flash-token/purchase

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only -,.,= and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.
amount	Integer	Yes	**Cents**	**The value of the Flash Token being purchased.** The currency is "ZAR" and the value is in cents.
storeId	String	No	**Alphanumeric characters** allowed	**The store where the Flash Token was purchased.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** Store locations, each individual storeId will need to be sent in the request.
terminalId	String	No	**Alphanumeric characters** allowed	**The till in the store where the Flash Token was purchased.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** store locations, each individual terminalId will need to be sent in the request.
paymentMethod	String	No	**Alphanumeric characters** allowed	**The paymentMethod used to make the Flash Token purchase.**
metadata	Set of Key Value Pairs	No	**Up to 9 properties.** Property name up to 10 characters. Property value up to 43 characters	**Set of key-value pairs.** This can be useful for storing additional information about the transaction in a structured format. e.g. key-value pair: storeID and value could be used to identify Voucher redemptions at a store level.

2.6.1.1 Example Request and Response

For a request and response example, please refer to the Purchase a 1Voucher request and response.

2.6.2   Reverse a Flash Token Transaction

Note: Flash Tokens that have been purchased and redeemed cannot be reversed.

HTTP Method	Endpoint
POST	Base URL/aggregation/4.0/flash-token/reverse

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only **-,.,=** and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
originalReference	String	Yes	Only **-,.,=** and **alphanumeric characters** allowed	**Client-defined reference number** of the original transaction that is being reversed.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.

2.6.2.1   Example Request and Response

For a request and response example, please refer to the Reverse a 1Voucher Transaction request and response

2.7 Cellular

The Cellular product group provides the ability to access Cellular services. This currently includes purchasing of Pinless Recharges. The following endpoints are available for Cellular:

2.7.1 Purchase a Cellular Pinless Recharge

HTTP Method	Endpoint
POST	[Base URL](#)/aggregation/4.0/cellular/pinless/purchase

2.7.1.1 Request Parameters

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only -,.,= and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.
amount	Integer	Yes	**Cents**	**The value of the Cellular Pinless Recharge being purchased.** The currency is "ZAR" and the value is in cents.
productCode	Integer	Yes	**Positive Integers** allowed.	A **Flash assigned unique product identifier** that identifies a specific Cellular product being purchased.
storeId	String	No	**Alphanumeric characters** allowed	**The store where the Cellular Pinless Recharge was purchased.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** Store locations, each individual storeId will need to be sent in the request.
terminalId	String	No	**Alphanumeric characters** allowed	**The till in the store where the Cellular Pinless Recharge was purchased.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** store locations, each individual terminalId will need to be sent in the request.
mobileNumber	String	Yes	**11 Digits** (27 Country Code with no leading 0)	The **mobile number** that the recharge is being requested for.
paymentMethod	String	No	**Alphanumeric characters** allowed	**The paymentMethod used to make the Cellular Pinless Recharge Purchase.**
metadata	Set of Key Value Pairs	No	**Up to 9 properties.** Property name up to 10 characters. Property value up to 43 characters	**Set of key-value pairs.** This can be useful for storing additional information about the transaction in a structured format. e.g. key-value pair: storeID and value could be used to identify Voucher redemptions at a store level.

2.7.1.2   Example Request and Response

For a request and response example, please refer to the Purchase a Cellular Pinless Recharge request and response.

2.8   Eezi Vouchers

The Eezi Voucher product group provides the ability to access Eezi Voucher services. This currently only includes purchasing of Eezi Airtime. The following endpoints are available for Eezi Voucher:

2.8.1   Purchase an Eezi Voucher

HTTP Method	Endpoint
POST	Base URL/aggregation/4.0/eezi-voucher/purchase

2.8.1.1   Request Parameters

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only -,.,= and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.
amount	Integer	Yes	**Cents**	**The value of the Eezi Voucher being purchased.** The currency is "ZAR" and the value is in cents.
productCode	Integer	Yes	**Positive Integers** allowed.	A **Flash assigned unique product identifier** that identifies a specific Eezi Voucher product being purchased.
storeId	String	No	**Alphanumeric characters** allowed	**The store where the Eezi Voucher was purchased.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** Store locations, each individual storeId will need to be sent in the request.
terminalId	String	No	**Alphanumeric characters** allowed	**The till in the store where the Eezi Voucher was purchased.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** store locations, each individual terminalId will need to be sent in the request.
paymentMethod	String	No	**Alphanumeric characters** allowed	**The paymentMethod used to make the Eezi Voucher purchase.**
metadata	Set of Key Value Pairs	No	**Up to 9 properties.** Property name up to 10 characters. Property value up to 43 characters	**Set of key-value pairs.** This can be useful for storing additional information about the transaction in a structured format. e.g. key-value pair: storeID and value could be used to identify Voucher redemptions at a store level.

2.8.1.2   Example Request and Response

For a request and response example, please refer to the Purchase an Eezi Voucher request and response.

2.8.2   Reverse an Eezi Voucher Transaction

Note: Eezi Vouchers that have been purchased and redeemed cannot be reversed.

HTTP Method	Endpoint
POST	[Base URL](#)/aggregation/4.0/eezi-voucher/reverse

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only **-,.,=** and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
originalReference	String	Yes	Only **-,.,=** and **alphanumeric characters** allowed	**Client-defined reference number** of the original transaction that is being reversed.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.

2.8.2.1   Example Request and Response

For a request and response example, please refer to the [Reverse an Eezi Voucher Transaction](#) request and response.

2.9 Prepaid Utilities

The Prepaid Utilities product group provides the ability to access Prepaid Utility services. This currently includes purchasing of Water & Electricity vouchers.

2.9.1 Look up a Meter Number

HTTP Method	Endpoint
POST	[Base URL](#)/aggregation/4.0/prepaid-utilities/lookup

2.9.1.1 Request Parameters

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only **-,.,=** and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.
amount	Integer	Yes	**Cents**	**The value of the Prepaid Utility voucher being purchased.** The currency is "ZAR" and the value is in cents.
meterNumber	String	Yes	**Alphanumeric characters** allowed	The **meter number** that the purchase is being requested for.
isFBE	Boolean	No	**true** or **false**	Identifies if the purchase request is for **Free Basic Electricity**. The default value is **false** if this parameter is not sent in the request.
metadata	Set of Key Value Pairs	No	**Up to 9 properties.** Property name up to 10 characters. Property value up to 43 characters	**Set of key-value pairs.** This can be useful for storing additional information about the transaction in a structured format. e.g. key-value pair: storeID and value could be used to identify Voucher redemptions at a store level.

2.9.1.2 Example Request and Response

For a request and response example, please refer to the [Look up a Meter Number](#) request and response.

2.9.2   Purchase a Prepaid Utility Voucher

HTTP Method	Endpoint
POST	Base URL/aggregation/4.0/prepaid-utilities/purchase

2.9.2.1   Request Parameters

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only -,.,= and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.
amount	Integer	Yes	**Cents**	**The value of the Prepaid Utility voucher being purchased.** The currency is "ZAR" and the value is in cents.
meterNumber	String	Yes	**Alphanumeric characters** allowed	The **meter number** that the purchase is being requested for.
storeId	String	No	**Alphanumeric characters** allowed	**The store where the Prepaid Utility Voucher was purchased.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** Store locations, each individual storeId will need to be sent in the request.
terminalId	String	No	**Alphanumeric characters** allowed	**The till in the store where the Prepaid Utility Voucher was purchased.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** store locations, each individual terminalId will need to be sent in the request.
paymentMethod	String	No	**Alphanumeric characters** allowed	**The paymentMethod used to make the Prepaid Utility Voucher purchase.**
isFBE	Boolean	No	**true** or **false**	Identifies if the purchase request is for **Free Basic Electricity**. The default value is **false** if this parameter is not sent in the request.
metadata	Set of Key Value Pairs	No	**Up to 9 properties.** Property name up to 10 characters. Property value up to 43 characters	**Set of key-value pairs.** This can be useful for storing additional information about the transaction in a structured format. e.g. key-value pair: storeID and value could be used to identify Voucher redemptions at a store level.

2.9.2.2   Example Request and Response

For a request and response example, please refer to the Purchase a Prepaid Utility Voucher request and response.

2.10 Flash Pay

The Flash Pay product group provides the ability to query the balance, disburse to, or pay customer accounts at Flash Pay billers. The following endpoints are available for Flash Pay.

PLEASE NOTE: The Flash Pay endpoints are designed to work in the following order:

1. Call /flash-pay/balance endpoint to confirm if customer account details are correct
2. Call /flash-pay/disburse OR /flash-pay/purchase endpoint to load funds into on to the relevant biller account

2.10.1 Lookup a Flash Pay Biller Account

HTTP Method	Endpoint
POST	Base URL/aggregation/4.0/flash-pay/balance

2.10.1.1   Request Parameters

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only -,.,= and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.
accountReference	String	Yes	**Alphanumeric characters** allowed	The **account reference** of the customer being looked up at the Flash Pay Biller. This is to be prefixed with the provided biller codes
storeId	String	No	**Alphanumeric characters** allowed	**The store where the Prepaid Utility Voucher was purchased.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** Store locations, each individual storeId will need to be sent in the request.
terminalId	String	No	**Alphanumeric characters** allowed	**The till in the store where the Prepaid Utility Voucher was purchased.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** store locations, each individual terminalId will need to be sent in the request.
metadata	Set of Key Value Pairs	No	**Up to 9 properties.** Property name up to 10 characters. Property value up to 43 characters	**Set of key-value pairs.** This can be useful for storing additional information about the transaction in a structured format. e.g. key-value pair: storeID and value could be used to identify Voucher redemptions at a store level.

2.10.1.2 Example Request and Response

For a request and response example, please refer to the Lookup a Flash Pay Biller Account Balance request and response.

2.10.2 Pay a Flash Pay Biller Account

Note: this request will only be available for paying a Flash Pay Biller Account using payment methods.

HTTP Method	Endpoint
POST	Base URL/aggregation/4.0/flash-pay/purchase

2.10.2.1 Request Parameters

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only -,.,= and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.
accountReference	String	Yes	**Alphanumeric characters** allowed	The **account reference** of the customer being paid to at the Flash Pay Biller. This is to be prefixed with the provided biller codes
amount	Integer	Yes	**Cents**	**The amount being paid to the Flash Pay Biller.** The currency is "ZAR" and the value is in cents.
paymentMethod	String	No	**Alphanumeric characters** allowed	**The paymentMethod used to make the Flash Pay Biller Account Payment.** The Payment Methods can either be "Cash" or "Credit Card"
terminalID	String	No	**true** or **false**	**The till in the store where the Flash Pay Biller Account was paid.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** store locations, each individual terminalId will need to be sent in the request.
storeID	String	No	**true** or **false**	**The store where the Flash Pay Biller Account was paid.** For Merchants with **Digital** channels, this will be a single value. For Merchants with **Physical** Store locations, each individual storeId will need to be sent in the request.
metadata	Set of Key Value Pairs	No	**Up to 9 properties.** Property name up to 10 characters. Property value up to 43 characters	**Set of key-value pairs.** This can be useful for storing additional information about the transaction in a structured format. e.g. key-value pair: storeID and value could be used to identify Voucher redemptions at a store level.

2.10.2.2 Example Request and Response

For a request and response example, please refer to the Pay a Flash Pay Biller Account request and response.

2.10.3 Disburse into a Flash Pay Biller Account

Note: this request will only be available for disbursing into Flash Pay Biller Accounts from an online balance.

HTTP Method	Endpoint
POST	Base URL/aggregation/4.0/flash-pay/disburse

2.10.3.1 Request Parameters

Parameter	Data Type	Required	Format	Description
reference	String	Yes	Only -,.,= and **alphanumeric characters** allowed	**Client-defined reference number** Must be unique for all transactions.
accountNumber	String	Yes	**Alphanumeric characters** allowed	The **account number** of the Merchant.
accountReference	String	Yes	**Alphanumeric characters** allowed	The **account reference** of the customer being disbursed to at the Flash Pay Biller. This is to be prefixed with the provided biller codes
amount	Integer	Yes	**Cents**	**The amount being disbursed to the Flash Pay Biller.** The currency is "ZAR" and the value is in cents.
metadata	Set of Key Value Pairs	No	**Up to 9 properties.** Property name up to 10 characters. Property value up to 43 characters	**Set of key-value pairs.** This can be useful for storing additional information about the transaction in a structured format. e.g. key-value pair: storeID and value could be used to identify Voucher redemptions at a store level.

2.10.3.2 Example Request and Response

For a request and response example, please refer to the Disburse into a Flash Pay Biller Account request and response.

3 Example Requests and Responses

3.1.1 List Products

Request Example	Response Example
| {} | ```
{
  "responseCode": 0,
  "responseMessage": "string",
  "products": [
    {
      "productCode": 0,
      "productName": "string",
      "minimumAmount": 0,
      "maximumAmount": 0,
      "status": "string",
      "supplierName": "string",
      "vendor": "string",
      "productGroup": "string",
      "barcode": "string",
      "billerCode": "string",
      "productType": 0,
      "allowReversal": true,
      "fixedAmount": true,
      "content": {
        "redemptionInstructions": "string",
        "termsAndConditions": "string"
      }
    }
  ]
}
``` |

3.1.2 Lookup a Product by Product Code

Request Example	Response Example
| {} | ```
{
  "responseCode": 0,
  "responseMessage": "string",
  "products": [
    {
      "productCode": 0,
      "productName": "string",
      "minimumAmount": 0,
      "maximumAmount": 0,
``` |

```
        "status": "string",
        "supplierName": "string",
        "vendor": "string",
        "productGroup": "string",
        "barcode": "string",
        "billerCode": "string",
        "productType": 0,
        "allowReversal": true,
        "fixedAmount": true,
        "content": {
          "redemptionInstructions": "string",
          "termsAndConditions": "string"
        }
      }
    ]
  }
```

3.1.3 Lookup Products by Product Group

Request Example	Response Example
{}	``` { "responseCode": 0, "responseMessage": "string", "products": [{ "productCode": 0, "productName": "string", "minimumAmount": 0, "maximumAmount": 0, "status": "string", "supplierName": "string", "vendor": "string", "productGroup": "string", "barcode": "string", "billerCode": "string", "productType": 0, "allowReversal": true, "fixedAmount": true, "content": { "redemptionInstructions": "string", "termsAndConditions": "string" } }] } ```

3.1.4 Purchase a 1Voucher

Request Example	Response Example
``` { "reference": "string", "accountNumber": "string", "amount": 0, "storeId": "string", "terminalId": "string", "paymentMethod": "string", "metadata": { "additionalProp1": "string", "additionalProp2": "string", "additionalProp3": "string" }, } ```	``` { "responseCode": 0, "responseMessage": "string", "accountNumber": "string", "reference": "string", "transactionDate": "string", "transactionId": 0, "metadata": { "additionalProp1": "string", "additionalProp2": "string", "additionalProp3": "string" }, "storeId": "string", "terminalId": "string", "amount": 0, ```

```
"voucher": {
  "amount": 0,
  "expiryDate": "string",
  "pin": "string",
  "serialNumber": "string",
  "status": "string",
  "content": {
    "redemptionInstructions": "string",
    "termsAndConditions": "string"
  }
}
}
```

3.1.5   Disburse a 1Voucher

Request Example	Response Example

{
 "reference": "string",
 "accountNumber": "string",
 "amount": 0,
 "storeId": "string",
 "terminalId": "string",
 "metadata": {
  "additionalProp1": "string",
  "additionalProp2": "string",
  "additionalProp3": "string"
 },
}
	{
	 "responseCode": 0,
	 "responseMessage": "string",
	 "accountNumber": "string",
	 "reference": "string",
	 "transactionDate": "string",
	 "transactionId": 0,
	 "metadata": {
	  "additionalProp1": "string",
	  "additionalProp2": "string",
	  "additionalProp3": "string"
	 },
	 "storeId": "string",
	 "terminalId": "string",
	 "amount": 0,
	 "voucher": {
	  "amount": 0,
	  "expiryDate": "string",
	  "pin": "string",
	  "serialNumber": "string",
	  "status": "string",
	  "content": {
	   "redemptionInstructions": "string",
	   "termsAndConditions": "string"
	  }
	 }
	}

3.1.6   Redeem a 1Voucher

Request Example	Response Example

{
 "reference": "string",
 "accountNumber": "string",
 "amount": 0,
 "mobileNumber": "string",
 "storeId": "string",
 "terminalId": "string",
 "pin": "string",
 "metadata": {
  "additionalProp1": "string",
  "additionalProp2": "string",
  "additionalProp3": "string"
 },
	{
	 "responseCode": 0,
	 "responseMessage": "string",
	 "accountNumber": "string",
	 "reference": "string",
	 "transactionDate": "string",
	 "transactionId": 0,
	 "metadata": {
	  "additionalProp1": "string",
	  "additionalProp2": "string",
	  "additionalProp3": "string"
	 },
	 "storeId": "string",

```
        "terminalId": "string",
        "amount": 0,
        "voucher": {
          "amount": 0,
          "expiryDate": "string",
          "pin": "string",
          "serialNumber": "string",
          "status": "string",
          "content": {
            "redemptionInstructions": "string",
            "termsAndConditions": "string"
          }
        }
      }
```

3.1.7   Refund a 1Voucher Redemption

Request Example	Response Example

``
{
  "reference": "string",
  "accountNumber": "string",
  "amount": 0,
  "mobileNumber": "string",
  "storeId": "string",
  "terminalId": "string",
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}
``
	``
	{
	  "responseCode": 0,
	  "responseMessage": "string",
	  "accountNumber": "string",
	  "reference": "string",
	  "transactionDate": "string",
	  "transactionId": 0,
	  "metadata": {
	    "additionalProp1": "string",
	    "additionalProp2": "string",
	    "additionalProp3": "string"
	  },
	  "storeId": "string",
	  "terminalId": "string",
	  "amount": 0,
	  "voucher": {
	    "amount": 0,
	    "expiryDate": "string",
	    "pin": "string",
	    "serialNumber": "string",
	    "status": "string",
	    "content": {
	      "redemptionInstructions": "string",
	      "termsAndConditions": "string"
	    }
	  }
	}
	``

3.1.8   Reverse a 1Voucher Transaction

Request Example	Response Example

``
{
  "reference": "string",
  "originalReference": "string",
  "accountNumber": "string",
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
}
``
	``
	{
	  "responseCode": 0,
	  "responseMessage": "string",
	  "accountNumber": "string",
	  "reference": "string",
	  "transactionDate": "string",
	  "transactionId": 0,
	  "metadata": {
	    "additionalProp1": "string",
	    "additionalProp2": "string",
	    "additionalProp3": "string"
	  },
	  "storeId": "string",
	  "terminalId": "string",
	``

```
        "mobileNumber": "string",
        "amount": 0,
        "voucher": {
         "amount": 0,
         "expiryDate": "string",
         "redemptionDate": "string",
         "pin": "string",
         "serialNumber": "string",
         "status": "string",
         "content": {
           "redemptionInstructions": "string",
           "termsAndConditions": "string"
         }
        }
       }
      }
```

3.1.9   Purchase a Flash Token

Request Example	Response Example

<pre>{
 "reference": "string",
 "accountNumber": "string",
 "amount": 0,
 "productCode": "0",
 "storeId": "string",
 "terminalId": "string",
 "paymentMethod": "string",
 "metadata": {
   "additionalProp1": "string",
   "additionalProp2": "string",
   "additionalProp3": "string"
 }
}</pre>
	<pre>{
	 "responseCode": 0,
	 "responseMessage": "string",
	 "accountNumber": "string",
	 "reference": "string",
	 "transactionDate": "string",
	 "transactionId": 0,
	 "metadata": {
	   "additionalProp1": "string",
	   "additionalProp2": "string",
	   "additionalProp3": "string"
	 },
	 "storeId": "string",
	 "terminalId": "string",
	 "amount": 0,
	 "voucher": {
	   "amount": 0,
	   "expiryDate": "string",
	   "pin": "string",
	   "serialNumber": "string",
	   "status": "string",
	   "content": {
	     "redemptionInstructions": "string",
	     "termsAndConditions": "string"
	   }
	  }
	}</pre>

3.1.10   Reverse a Flash Token Transaction

Request Example	Response Example

<pre>{
 "reference": "string",
 "accountNumber": "string",
 "amount": 0,
 "productCode": "0",
 "storeId": "string",
 "terminalId": "string",
 "paymentMethod": "string",
 "metadata": {
   "additionalProp1": "string",
   "additionalProp2": "string",
   "additionalProp3": "string"
 }</pre>
	<pre>{
	 "responseCode": 0,
	 "responseMessage": "string",
	 "accountNumber": "string",
	 "reference": "string",
	 "transactionDate": "string",
	 "transactionId": 0,
	 "metadata": {
	   "additionalProp1": "string",
	   "additionalProp2": "string",
	   "additionalProp3": "string"
	 },
	 "storeId": "string",</pre>

```
}                                              "terminalId": "string",
                                               "amount": 0,
                                               "voucher": {
                                                 "amount": 0,
                                                 "expiryDate": "string",
                                                 "pin": "string",
                                                 "serialNumber": "string",
                                                 "status": "string",
                                                 "content": {
                                                   "redemptionInstructions": "string",
                                                   "termsAndConditions": "string"
                                                 }
                                               }
                                              }
```

3.1.11 Purchase a Gift Voucher

Request Example	Response Example

<pre>{
 "reference": "string",
 "accountNumber": "string",
 "amount": 0,
 "storeId": "string",
 "terminalId": "string",
 "barcode": "string",
 "paymentMethod": "string",
 "metadata": {
   "additionalProp1": "string",
   "additionalProp2": "string",
   "additionalProp3": "string"
 },
}</pre>
	<pre>{
	 "responseCode": 0,
	 "responseMessage": "string",
	 "accountNumber": "string",
	 "reference": "string",
	 "transactionDate": "string",
	 "transactionId": 0,
	 "metadata": {
	   "additionalProp1": "string",
	   "additionalProp2": "string",
	   "additionalProp3": "string"
	 },
	 "storeId": "string",
	 "terminalId": "string",
	 "amount": 0,
	 "voucher": {
	   "amount": 0,
	   "expiryDate": "string",
	   "pin": "string",
	   "serialNumber": "string",
	   "barcode": "string",
	   "status": "string",
	   "content": {
	     "redemptionInstructions": "string",
	     "termsAndConditions": "string"
	   }
	 }
	}</pre>

3.1.12 Purchase a Cash Out PIN

Request Example	Response Example

<pre>{
 "reference": "string",
 "accountNumber": "string",
 "amount": 0,
 "productCode": "0",
 "storeId": "string",
 "terminalId": "string",
 "paymentMethod": "string",
 "metadata": {
   "additionalProp1": "string",
   "additionalProp2": "string",
   "additionalProp3": "string"
 }</pre>
	<pre>{
	 "responseCode": 0,
	 "responseMessage": "string",
	 "accountNumber": "string",
	 "reference": "string",
	 "transactionDate": "string",
	 "transactionId": 0,
	 "metadata": {
	   "additionalProp1": "string",
	   "additionalProp2": "string",
	   "additionalProp3": "string"
	 },
	 "storeId": "string",</pre>

```
}                                    "terminalId": "string",
                                     "amount": 0,
                                     "voucher": {
                                      "amount": 0,
                                      "expiryDate": "string",
                                      "pin": "string",
                                      "serialNumber": "string",
                                      "status": "string",
                                      "content": {
                                        "redemptionInstructions": "string",
                                        "termsAndConditions": "string"
                                      }
                                     }
                                    }
```

3.1.13 Cancel a Cash Out PIN Purchase

Request Example	Response Example

<pre>{
 "reference": "string",
 "accountNumber": "string",
 "serialNumber": "string",
 "productCode": "0",
 "storeId": "string",
 "terminalId": "string",
 "metadata": {
  "additionalProp1": "string",
  "additionalProp2": "string",
  "additionalProp3": "string"
 }
}</pre>
	<pre>{
	 "responseCode": 0,
	 "responseMessage": "string",
	 "accountNumber": "string",
	 "reference": "string",
	 "transactionDate": "string",
	 "transactionId": 0,
	 "metadata": {
	  "additionalProp1": "string",
	  "additionalProp2": "string",
	  "additionalProp3": "string"
	 },
	 "storeId": "string",
	 "terminalId": "string",
	 "amount": 0,
	 "voucher": {
	  "amount": 0,
	  "expiryDate": "string",
	  "pin": "string",
	  "serialNumber": "string",
	  "status": "string",
	  "content": {
	    "redemptionInstructions": "string",
	    "termsAndConditions": "string"
	  }
	 }
	}</pre>

3.1.14 Lookup a Cash Out PIN

Request Example	Response Example

<pre>{
 "reference": "string",
 "accountNumber": "string",
 "serialNumber": "string",
 "productCode": 0,
 "metadata": {
  "additionalProp1": "string",
  "additionalProp1": "string",
  "additionalProp1": "string"
 }
}</pre>
	<pre>{
	 "responseCode": 0,
	 "responseMessage": "string",
	 "accountNumber": "string",
	 "reference": "string",
	 "transactionDate": "string",
	 "transactionId": 0,
	 "metadata": {
	  "additionalProp1": "string",
	  "additionalProp2": "string",
	  "additionalProp3": "string"
	 },
	 "voucher": {</pre>

```
        "amount": 0,
        "expiryDate": "string",
        "pin": "string",
        "serialNumber": "string",
        "status": "string",
        "content": {
          "redemptionInstructions": "string",
          "termsAndConditions": "string"
        }
      }
    }
  }
```

3.1.15 Reverse a Cash Out PIN Transaction

Request Example	Response Example

`{`
` "reference": "string",`
` "originalReference": "string",`
` "accountNumber": "string",`
` "metadata": {`
`   "additionalProp1": "string",`
`   "additionalProp2": "string",`
`   "additionalProp3": "string"`
` },`
`}`
	`{`
	` "responseCode": 0,`
	` "responseMessage": "string",`
	` "accountNumber": "string",`
	` "reference": "string",`
	` "transactionDate": "string",`
	` "transactionId": 0,`
	` "metadata": {`
	`   "additionalProp1": "string",`
	`   "additionalProp2": "string",`
	`   "additionalProp3": "string"`
	` },`
	` "storeId": "string",`
	` "terminalId": "string",`
	` "mobileNumber": "string",`
	` "amount": 0,`
	` "voucher": {`
	`   "amount": 0,`
	`   "expiryDate": "string",`
	`   "redemptionDate": "string",`
	`   "pin": "string",`
	`   "serialNumber": "string",`
	`   "status": "string",`
	`   "content": {`
	`     "redemptionInstructions": "string",`
	`     "termsAndConditions": "string"`
	`   }`
	` }`
	`}`

3.1.16 Purchase a Cellular Pinless Recharge

Request Example	Response Example

`{`
` "reference": "string",`
` "accountNumber": "string",`
` "amount": 0,`
` "mobileNumber": 0,`
` "storeId": "string",`
` "terminalId": "string",`
` "paymentMethod": "string",`
` "metadata": {`
`   "additionalProp1": "string",`
`   "additionalProp2": "string",`
`   "additionalProp3": "string"`
	`{`
	` "responseCode": 0,`
	` "responseMessage": "string",`
	` "accountNumber": "string",`
	` "reference": "string",`
	` "transactionDate": "string",`
	` "transactionId": 0,`
	` "metadata": {`
	`   "additionalProp1": "string",`
	`   "additionalProp2": "string",`
	`   "additionalProp3": "string"`
	` },`

```
        }                                      "storeId": "string",
}                                              "terminalId": "string",
                                               "amount": 0,
                                               "rechargeDetails": {
                                                 "rechargeType": "string",
                                                 "callCentre": "string",
                                                 "rechargeVendor": "string"
                                               }
                                             }
```

3.1.17 Purchase an Eezi Voucher

Request Example	Response Example

<pre>{
 "reference": "string",
 "accountNumber": "string",
 "amount": 0,
 "productCode": "0",
 "storeId": "string",
 "terminalId": "string",
 "paymentMethod": "string",
 "metadata": {
   "additionalProp1": "string",
   "additionalProp2": "string",
   "additionalProp3": "string"
 }
}</pre>
	<pre>{
	 "responseCode": 0,
	 "responseMessage": "string",
	 "accountNumber": "string",
	 "reference": "string",
	 "transactionDate": "string",
	 "transactionId": 0,
	 "metadata": {
	   "additionalProp1": "string",
	   "additionalProp2": "string",
	   "additionalProp3": "string"
	 },
	 "storeId": "string",
	 "terminalId": "string",
	 "amount": 0,
	 "voucher": {
	   "amount": 0,
	   "expiryDate": "string",
	   "pin": "string",
	   "serialNumber": "string",
	   "status": "string",
	   "content": {
	     "redemptionInstructions": "string",
	     "termsAndConditions": "string"
	   }
	 }
	}</pre>

3.1.18 Reverse an Eezi Voucher Transaction

Request Example	Response Example

<pre>{
 "reference": "string",
 "originalReference": "string",
 "accountNumber": "string",
 "metadata": {
   "additionalProp1": "string",
   "additionalProp2": "string",
   "additionalProp3": "string"
 },
}</pre>
	<pre>{
	 "responseCode": 0,
	 "responseMessage": "string",
	 "accountNumber": "string",
	 "reference": "string",
	 "transactionDate": "string",
	 "transactionId": 0,
	 "metadata": {
	   "additionalProp1": "string",
	   "additionalProp2": "string",
	   "additionalProp3": "string"
	 },
	 "storeId": "string",
	 "terminalId": "string",
	 "mobileNumber": "string",
	 "amount": 0,
	 "voucher": {
	   "amount": 0,
	   "expiryDate": "string",</pre>

```
              "redemptionDate": "string",
              "pin": "string",
              "serialNumber": "string",
              "status": "string",
              "content": {
                "redemptionInstructions": "string",
                "termsAndConditions": "string"
              }
            }
          }
```

3.1.19 Lookup a Meter Number

Request Example	Response Example

`{`
`  "reference": "string",`
`  "accountNumber": "string",`
`  "amount": 0,`
`  "meterNumber": string,`
`  "isFBE": true`
`  "metadata": {`
`    "additionalProp1": "string",`
`    "additionalProp2": "string",`
`    "additionalProp3": "string"`
`  }`
`}`
	`{`
	`  "responseCode": 0,`
	`  "responseMessage": "string",`
	`  "accountNumber": "string",`
	`  "reference": "string",`
	`  "amount": 0,`
	`  "transactionDate": "string",`
	`  "transactionId": "string",`
	`  "metadata": {`
	`    "additionalProp1": "string",`
	`    "additionalProp2": "string",`
	`    "additionalProp3": "string"`
	`  },`
	`  "billingInfo": {`
	`    "arrearValue": 0,`
	`    "arrearDesc": "string",`
	`    "maximumVendValue": 0,`
	`    "minimumVendValue": 0,`
	`    "tariffName": "string"`
	`  },`
	`  "meterInfo": {`
	`    "algorithmCode": "string",`
	`    "customerInfo": {`
	`      "address": "string",`
	`      "name": "string"`
	`    },`
	`    "keyRevisionNumber": "string",`
	`    "meterNumber": "string",`
	`    "supplyGroupCode": "string",`
	`    "tariffIndex": "string",`
	`    "tokenTechnology": "string",`
	`    "utilityInfo": {`
	`      "address": "string",`
	`      "callCentre": "string",`
	`      "name": "string",`
	`      "vatNumber": "string"`
	`    }`
	`  },`
	`  "isFBE": true`
	`}`

3.1.20 Purchase a Prepaid Utility Voucher

Request Example	Response Example

`{`
`  "reference": "string",`
`  "accountNumber": "string",`
`  "amount": 0,`
`  "meterNumber": string,`
	`{`
	`  "responseCode": 0,`
	`  "responseMessage": "string",`
	`  "accountNumber": "string",`
	`  "reference": "string",`
	`  "transactionDate": "string",`

```
"isFBE": true
"storeId": "string",
"terminalId": "string",
"paymentMethod": "string",
"metadata": {
  "additionalProp1": "string",
  "additionalProp2": "string",
  "additionalProp3": "string"
 }
}
```

```
"transactionId": 0,
"storeId": "string",
"terminalId": "string",
"amount": 0,
"metadata": {
  "additionalProp1": "string",
  "additionalProp2": "string",
  "additionalProp3": "string"
},
"billingInfo": {
  "taxAmount": 0,
  "unitType": "string",
  "units": 0,
  "freeUnits": 0,
  "exclusiveAmount": 0,
  "receiptNumber": "",
  "transactionNumber": 0
},
"charges": {
  "debt": {
    "value": 0,
    "description": "string"
  },
  "fixedCost": [
    {
      "value": 0,
      "description": "string"
    }
  ]
},
"meterinfo": {
  "meterNumber": "string",
  "keyRevisionNumber": 0,
  "supplyGroupCode": 0,
  "tariffIndex": 0,
  "tokenTechnology": "string",
  "algorithmCode": "string",
  "oldSupplyGroupCode": "string",
  "oldTariffIndex": "string",
  "oldKeyRevisionNumber": "string",
  "newSupplyGroupCode": "string",
  "newTariffIndex": "string",
  "newKeyRevisionNumber": "string",
  "customerInfo": {
    "name": "string",
    "address": "string"
  },
  "utilityInfo": {
    "address": "string",
    "callCentre": "string",
    "utilityname": "string",
    "vatNumber": "string"
  },
  "consumerMessage": "string"
  "tariffName": "string"
},
"tokens": [
  {
    "tokenDescription": "string",
    "serialNumber": "string",
    "token": "string"
  }
],
"tariffBlocks": [
  {
    "amount": 0,
    "units ": 0,
    "costPerUnit": 0,
    "tariffName": "string"
  }
]
```

	}

3.1.21 Lookup a Flash Pay Biller Account Balance

Request Example	Response Example

``json
{
 "reference": "string",
 "accountNumber": "string",
 "accountReference": "string",
 "storeId": "string",
 "terminalId": "string",
 "metadata": {
  "additionalProp1": "string",
  "additionalProp2": "string",
  "additionalProp3": "string"
 }
}
``
	``json
	{
	 "responseCode": 0,
	 "responseMessage": "string",
	 "accountNumber": "string",
	 "reference": "string",
	 "transactionDate": "string",
	 "transactionId": 0,
	 "metadata": {
	  "additionalProp1": "string",
	  "additionalProp2": "string",
	  "additionalProp3": "string"
	 },
	 "amount": 0,
	 "biller": {
	  "code": "string",
	  "name": "string",
	  "callCentre": "string",
	  "reference": "string"
	 },
	 "consumer": {
	  "name": "string",
	  "accountNo": "string",
	  "accountStatus": "string",
	  "cellNumber": "string"
	 }
	}
	``

3.1.22 Pay a Flash Pay Biller Account

Request Example	Response Example

``json
{
 "reference": "string",
 "accountNumber": "string",
 "accountReference": "string"
 "amount": 0
 "paymentMethod": "string",
 "storeId": "string",
 "terminalId": "string",
 "metadata": {
  "additionalProp1": "string",
  "additionalProp2": "string",
  "additionalProp3": "string"
 }
}
``
	``json
	{
	 "responseCode": 0,
	 "responseMessage": "string",
	 "accountNumber": "string",
	 "reference": "string",
	 "transactionDate": "string",
	 "transactionId": 0,
	 "metadata": {
	  "additionalProp1": "string",
	  "additionalProp2": "string",
	  "additionalProp3": "string"
	 },
	 "storeId": "string",
	 "terminalId": "string",
	 "amount": 0,
	 "biller": {
	  "code": "string",
	  "name": "string",
	  "callCentre": "string",
	  "reference": "string"
	 },
	 "consumer": {
	  "name": "string",
	  "accountNo": "string",
	  "accountStatus": "string",
	  "cellNumber": "string"
	``

| }
}

3.1.23 Disburse into a Flash Pay Biller Account

Request Example	Response Example
<pre>{
"reference": "string",
"accountNumber": "string",
"accountReference": "string"
"amount": 0,
"storeId": "string",
"terminalId": "string",
"metadata": {
"additionalProp1": "string",
"additionalProp2": "string",
"additionalProp3": "string"
}
}</pre>	<pre>{
"responseCode": 0,
"responseMessage": "string",
"accountNumber": "string",
"reference": "string",
"transactionDate": "string",
"transactionId": 0,
"metadata": {
"additionalProp1": "string",
"additionalProp2": "string",
"additionalProp3": "string"
},
"storeId": "string",
"terminalId": "string",
"amount": 0,
"biller": {
"code": "string",
"name": "string",
"callCentre": "string",
"reference": "string"
},
"consumer": {
"name": "string",
"accountNo": "string",
"accountStatus": "string",
"cellNumber": "string"
}
}</pre>

4   Flash Pay Biller Codes

Biller Code	Biller
51010	DStv Bill Payments
51050	Starsat
51051	Betway
51052	Yesplay
51053	Talk360
51014	Rochester
51015	Russells
51016	Hifi Corporation
51017	Incredible Connection
51018	Sleepmasters
51019	Barnetts
51020	Electric Express
51021	Bed And Lounge
51022	EBestBuyBeds
51023	Furniture Warehouse
51024	Hardware Warehouse
51025	Morkels
51026	Moto Mia
51027	Penny Pinchers
51028	Poco
51029	Timbercity
51030	Timberpinchers
51031	Joshua Doore
51032	Price and Pride
51033	Bradlows

5 Response Codes

Response Code	Response Message
1033	Payout for the account has already been processed
2003	Insufficient balance to proceed with the transaction
2101	The product you are looking for could not be found
2102	Products not found for the specified account.
2103	Invalid value entered for the selected product.
2104	Products not found.
2105	The 3rd party system could not process the current request
2200	Billing information not found for the specified account.
2201	A duplicate transaction was found.
2202	Account not found.
2203	The selected account is not linked to a wallet.
2204	Invalid amount entered for the selected product.
2205	Start date cannot be greater than the end date.
2206	Transaction process failed to complete.
2207	Unable to update the wallet balance.
2209	No transactions found for the current payout.
2210	A timeout occurred, please resubmit the request.
2211	A timeout occurred from the 3rd party system, please submit the same request again
2212	Invalid reference amount.
2213	Duplicate billing items found for the specified account.
2220	Transaction is busy processing.
2222	An internal system error occurred.
2223	Unable to retrieve the list of products.
2224	Billing information not found for the specified account.
2229	Failed to import products from an external source.
2230	Amount cannot be greater than 0 for an FBE purchase.
2231	Request body validation failed.
2232	JWT missing from the request header.
2233	Failed to verify the JWT.
2248	The transaction has already been processed.
2249	The specified transaction does not exist.
2253	The cancel request has already been processed.
2256	The request does not match previous transaction values.
2257	Incorrect product code supplied.
2258	Unable to process tariff, token canceled.
2259	Unable to process tariff, token expired.
2260	Unable to process tariff, token redeemed.
2261	Tariff already processed.
2267	Invalid/Processed status for the original transaction.
2268	Invalid product code for the specified transaction.
2269	Invalid account for the specified transaction.
2270	Invalid account number specified.
2271	Unable to verify account subscription.
2272	Unable to process the current request.
2273	Reversal for the specified product is not allowed.
2274	The specified account is not configured for reversals.

2275	Unable to process reversal for specified transaction
2276	Unable to process reversal for specified transaction
2277	Unable to process reversal for specified transaction
2278	Invalid gateway specified.
2279	The specified account is configured for reversals, mobile number is not allowed.
2280	Reversal has already been processed.
2281	Unable to process reversal due to the allocated time limit.
2282	Amount does not match the original transaction.
2283	Invalid product specified for the current request.
2284	The specified account is currently inactive.
2285	Inactive management account.
2300	Third party system could not process the current request
2301	The reference provided exceeds the maximum character count.
2302	Third party system could not process the current request
2303	The amount entered is less than the outstanding arrears.
2304	The meter number you have entered is invalid
2305	The customer could not be found.
2306	The meter number you have entered is not registered for Free Basic Electricity (FBE).
2307	The amount you have entered is invalid.
2308	Some required properties are missing from the request.
2309	The selected request is not supported for the meter number you have entered.
2310	The meter number you have entered has not been registered.
2311	The meter number you have entered has been blocked from purchasing.
2312	Free Basic Electricity (FBE) has already been issued.
2313	The customer has arrears on their account.
2314	The customer is not active or has been blocked from purchasing.
2315	No successful vending has been found for the meter number.
2316	The token number you have provided is not valid.
2318	The third-party system message queue is full.
2319	The third-party system is not responding.
2320	Tender amount is less than the transaction amount.
2321	Flash balance at the network is depleted.
2322	The customer's account could not be found.
2323	No allowed routes found on the third-party system.
2324	No active route found on the third-party system.
2325	The customer's account has not been initialized.
2326	Transaction could not be found on the third-party system.
2327	The third-party system response format error.
2328	Invalid message length on the third-party system.
2329	The customer's account is not active.
2330	Invalid service provider on the third-party system.
2331	A timeout occurred from the 3rd party system, please submit the same request again
2332	Recharge without activation.
2333	Inputted denomination is out of range.
2334	Invalid financial institution.
2335	Invalid MSISDN on the network.
2336	Payphone not linked.
2337	Barred or deactivated MSISDN.
2338	MSISDN service expired.
2339	Invalid tender type on the third-party system.

2340	Sale not found on the third-party system.
2341	Tender amount too low to proceed with the transaction.
2342	Invalid tender amount.
2343	Invalid utility on the third-party system.
2344	The meter number you have entered is invalid
2345	Meter request not supported.
2346	Meter request not allowed.
2347	Tender amount less than receiver amount.
2348	Meter has been deleted.
2349	Invalid requirement for FBE.
2350	Tender amount too high.
2351	Out of stock.
2352	Customer account has arrears.
2353	No previous transactions on the third-party system.
2354	Customer account is not active.
2355	MSISDN not registered with RICA.
2356	Specified meter is not registered for FBE.
2357	Third-party internal error.
2358	Invalid reference ID.
2359	Duplicate reference on the third-party system.
2360	Invalid request on the third-party system.
2361	Invalid network request.
2362	Invalid recharge type.
2363	Invalid meter ID.
2364	Invalid transaction type on the third-party system.
2365	Invalid token tech on the third-party system.
2366	Missing parameters on the third-party system.
2367	Invalid service type on the third-party system.
2368	MSISDN linked to a different network.
2369	MSISDN user not registered.
2370	Invalid terminal.
2371	The customer's account is blacklisted.
2372	The same transaction has been submitted more than once.
2373	Transaction threshold per second exceeded
2376	Authentication failure at the network.
2377	Transaction threshold per second exceeded
2378	A network error occurred, please resubmit the request.
2400	Third-party system error.
2401	The voucher you have entered has already been used, please use another voucher pin.
2402	The voucher you have entered could not be found.
2403	The voucher you have entered has been cancelled.
2405	The voucher you have entered has expired.
2406	The amount entered is too small.
2408	The amount entered is too large.
2409	The voucher has already been cancelled.
2410	The refund amount does not match the redemption amount.
2412	The voucher you have entered cannot be reversed.
2413	The voucher has already been reversed.
2414	The voucher cannot be cancelled.
2500	The 3rd party system could not process the current request

2501	Provider account has not been linked.
2600	Third-party system unspecified error.
2601	Processing error on the third-party system.
2602	Request input error on the third-party system.
2603	Request validation error on the third-party system.
2604	Token could not be found.
2611	Token could not be found for the given PIN.
2612	Token could not be found for the given serial number.
2613	Token could not be found for the given token ID.
2614	Token could not be found for the given cancelled PIN.
2615	Token could not be found for the given cancelled token ID.
2616	Token could not be found for the given cancelled serial number.
2617	Token could not be found for the given expired PIN.
2618	No tokens were found for the expiry query.
2630	Request input cannot be null.
2632	Invalid country code.
2633	Invalid currency code.
2641	Expiry end date validation failed.
2660	Internal gateway failure
2661	A timeout occurred from the 3rd party system, please submit the same request again
2662	Internal gateway error
2663	Internal gateway corrupted
2664	Internal gateway rule failure.
2670	Token missing redemption.
2671	Face Value less than minimum product value
2672	Token face value is more than the maximum product value.
2673	Token has already expired.
2674	Token has already been redeemed.
2675	Token already had service fee deducted.
2676	Token is not active.
2677	The token you have entered has been cancelled.
2680	Token already cancelled
2681	Token status is incorrect.
2700	Unspecified error.
2701	Processing error.
2702	Input validation error.
2703	Request validation error.
2704	Token not found.
2770	Internal gateway failure
2771	A timeout occurred from the 3rd party system, please submit the same request again
2772	Internal gateway error
2773	Internal gateway corrupted
2774	Internal gateway rule failure for Tvs.
2781	Tvs token status is incorrect.
3700	Unspecified security error.
3701	Security token is missing from the request.
3702	Security token is blank.
3703	Malformed security token.
3704	Invalid security token.
3711	Security key provider failure

All the following response codes will result in the same response message: System temporarily unavailable, please try again in a couple of minutes.

Response Code
2001, 2225, 2226, 2227, 2228, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2250, 2251, 2252, 2254, 2255, 2262, 2263, 2264, 2265, 2266

6   Change Log

6.1   July 2024

- Updated authentication URLs
- Updated environmental base URLs
- Added Flash Pay Biller Codes
- Updated utilities purchase response

6.2   October 2023

- Added barcode property to Purchase a Gift Voucher

6.3   September 2023

- Added Flash Pay Balance Lookup, Purchase and Disbursement.
- Added Flash Token Purchase and Reversal.
- Added Response Codes.
- Added Lookup Products by Product Group.
- Updated response models of Account lookups to return response messages.

6.4   July 2023

- Added Reversals to error handling.
- Added further detail to Response Codes.

6.5   April 2023

- Added V4 Base structure.