TELKOM API SPECIFICATION

Version 1.4.2

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Version 1.4.2

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		 Additional formatting API Versioning Change of all APIs to version 3 (v3) 	



		Replay NotificationE-jaze synchronous ATP API	
		- Bill validation	
		- Service registration	
		- Send SMS	
		- SMS Delivery status	
		- USSD	
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		- Application password encryption	
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		- SMS APIs	
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Glossary

ACRONYM	MEANING
API	Application Programming Interface
ATP	Airtime Purchase
B2C	Business to Customer
С2В	Customer to Business
СС	Country Code (254 for Kenya)
CR	Credit
DR	Debit
НТТР	Hyper Text Transfer Protocol
ISW	Interswitch
JSON	JavaScript Object Notation
L2	Layer 2 Business Accounts
L7	Layer 7 Subscriber Accounts
MFS	Mobile Financial Service(s)
MSISDN	Mobile Subscriber ISDN
NDC	National Destination Code e.g. 077
REST	Representational State Transfer
SOAP	Simple Object Access Protocol
TCS	Telepin Communications System
TKL	Telkom Kenya Limited
URL	Uniform Resource Locator



API Versioning and URL Format

The API version will be in the URL.

The API URLs will take the form:

{scheme}://{platform}.gw.mfs-tkl.com/tkash/{api name}/{api version}/{api context}

For example, asynchronous airtime purchase API on pre-production platform will be:

https://preprod.gw.mfs-tkl.com/tkash/airtimerequest/v3/atpAsync

ACRONYM	MEANING
{scheme}	https
{platform}	sandbox/preprod/uat/dev/"prod"
{api_name}	Specific API being called
{api_version}	${ m v3}$ (current version as at the time of this document). This is the only component that will change in the URL for any API
{api_context}	Names the specific API with its type i.e. synchronous or asynchronous



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1 Authentication

There are two levels of authentication.

1.1 API Gateway authentication

API Gateway authentication requires the API GW username and password in addition to authentication tokens. The username/password combination is to be used to login to the API store, and also to generate access tokens. At signup on the API store, two keys will be generated and assigned as below:

```
- Consumer key e.g. 57GyMT7YdM51EV63f62to3WYs94b
```

```
- Consumer Secrete e.g. 5fXpOUkNyr6nJAHVPixw R17CrUb
```

To generate access tokens, you"ll have to pass basic authorization header whose value is base64encode of the two keys above separated by a colon with no spaces between e.g. Consumer key:Consumer Secrete.

The following cURL example command shows how to generate an access token from the above keys using the Password Grant type.

```
curl -k -d "grant_type=password&username=Username&password=Password" -H "Authorization: Basic NTdHeU1UN11kTTUxRVY2M2Y2MnRvM1dZczk0Yjo1ZlhwT1VrTnlyNm5KQUhWUG14d19SMTdDclVi" https://preprod.gw.mfs-tkl.com/token
```

In a similar manner, you can generate an access token using the client credentials grant type with the following cURL command.

```
curl -k -d "grant_type=client_credentials" -H "Authorization: Basic
NTdHeU1UN11kTTUxRVY2M2Y2MnRvM1dZczk0Yjo1ZlhwT1VrTnlyNm5KQUhWUG14d19SMTdDclVi"
https://preprod.gw.mfs-tkl.com/token
```

By default, the access token is valid for 1 hour (3600 second)

1.2 Application User authentication

Application username and password will also be provided in addition to the API username and password. All requests initiated by the 3rd party and are transactional (e.g. disbursement, reversal, airtime purchase) will require application authentication in addition to API GW authentication (token). Non-transactional (e.g. notification replay, transaction status check, etc) will only require API GW authentication.

Sample Java Encryption

The password will need to be RSA encrypted with a public certificate. Sample encryption java code that will take the certificate is given below:

```
import java.io.File;
import java.io.FileInputStream;
import java.security.cert.X509Certificate;
import java.security.cert.CertificateFactory;
import javax.crypto.Cipher;
import java.security.PublicKey;

/*
    * filename: F:\password_ecryption_files\RSAEncryptPassword.java
    * to run this code, you'll need BouncyCastle JAR
    * download link: https://www.bouncycastle.org/download/bcprov-jdk15on-160.jar
    *
    * compile
```



```
javac -cp "F:\password_ecryption_files\bcprov-jdk15on-160.jar" RSAEncryptPassword.java
* execute
 * java -cp ".;F:\password ecryption files\bcprov-jdk15on-160.jar" RSAEncryptPassword
* sample output (should be in one line)
 * encrypted: Jw5XVyGZbHaDpzgK/fydIcsjbUvEYwk08o1uJGtLmotYdhzVDL9q+ikbd0JRrFru60gp7S
   S032LjvBruJwhwtFzQjb2oeM8WkCoRot/0IGA4T5MrNI8CQiWZ+IP91Gy6crPlDqw0ntcsXNxiVUDBRO
   a2yHhoDRrsE3s7E00K755Xb121K7XMkFnbU9qVCKl7NDiutsuJ48k9YFU2NepOsi6Gtw/01kwEo4anyD
   7RQqNTteS2hmIDMbNxX5i/VjJfT51Kp4ahziB/cUaY4F6nqRuQao0/Q4NzoLjA6/w8c1Xc2Zm8zOG7Iy
   YEXECXIYCNZNoF5Q4T/G0WA5LswrlEsw==
public class RSAEncryptPassword{
    public static void main(String[] args) throws Exception{
        String password = "2018";
        byte[] input = password.getBytes();
        FileInputStream inStream = new FileInputStream(new
File("F:\\password ecryption files\\telepinuatrsa.cer"));
        CertificateFactory cf = CertificateFactory.getInstance("X.509");
        X509Certificate cert = (X509Certificate)cf.generateCertificate(inStream);
        inStream.close();
        PublicKey publickey = (PublicKey)cert.getPublicKey();
        Cipher cipher = Cipher.getInstance("RSA");
        cipher.init(Cipher.ENCRYPT MODE, publickey);
        byte[] encryptedBytes = cipher.doFinal(input);
        String encryptedString = new
String(org.bouncycastle.util.encoders.Base64.encode(encryptedBytes)).trim();
        System.out.println("encrypted: " + encryptedString);
```

Sample PHP Encryption

Convert the certificate from DER to PEM format. This can be done using either CLI or GUI.

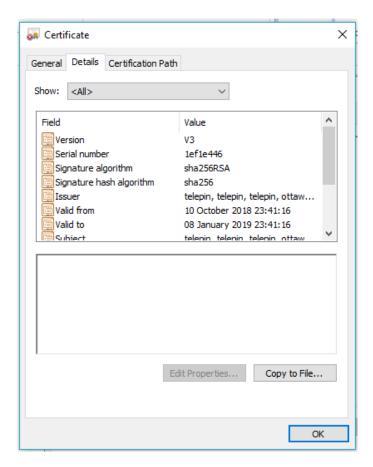
Using CLI, execute below command while in the directory where telepinuatrsa.cer is located (you can define full path).

```
openssl x509 -inform DER -in telepinuatrsa.cer > php telepinuatrsa.cer
```

Using GUI, follow below steps:

1. Double click on the certificate -> click on "Details" tab, then "Copy To File..." button



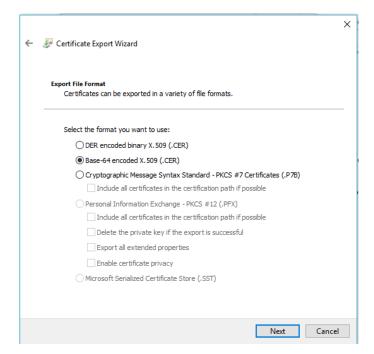


2. Click "Next" button:

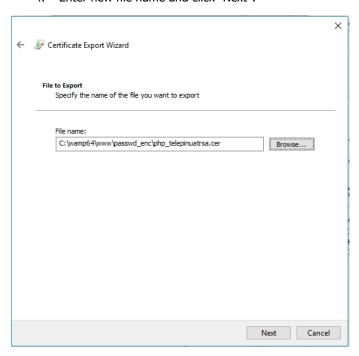


3. Select "Base-64 encoded X.509 (.CER)", then click "Next"



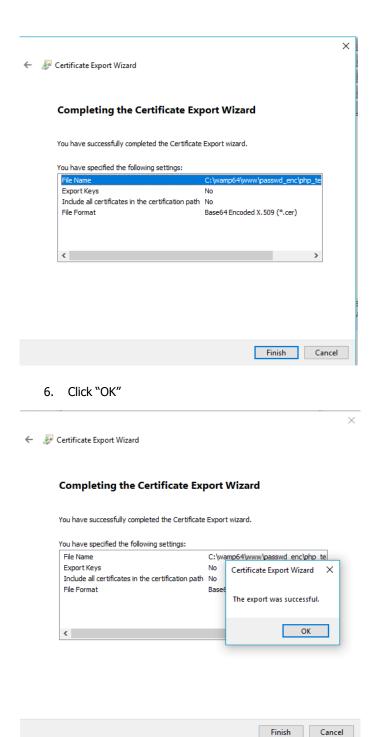


4. Enter new file name and click "Next":



5. Click finish:





Below code can be used to do the encryption:

```
<?php
// RSAEncryptPassword.php
// only works with X509 PEM certs, any DER certs must first be converted
class RSAEncryptPassword {
   public function_construct($cert_path, $app_password) {
        // dumb constructor...
        $this->cert_path = $cert_path;
```



```
$this->app password = $app password;
}
function EncryptPassword() {
if (!file exists($this->cert path)){
return("Certificate does not exist in <em>".$this->cert path."</em>");
}
$file size = filesize($this->cert path);
$cert path handle = fopen($this->cert path, "r");
$cert data = fread($cert path handle, $file size);
fclose($cert path handle);
$cert data = openssl x509 read($cert data);
$public key = openssl get publickey($cert data);
openssl public encrypt($this->app password, $encrypted text, $public key);
return(base64 encode($encrypted text));
//echo 'php encrypted ' . base64 encode($encrypted text);
}
}
* sample output of an encrypted password, in one line
* BD16WkGmpuGZeHBzLcXzcE6Eup8RH6ABOIhUaq9EWXI2kffcTd46L3jHfPjL5Lys
* K06qKjF/GRC4kHw7Zv4D8yrIa75y+vGGfhZFqnELux79RRmPv+BN/193Bffph1Ic
* jACEaIrqMLRBfEPFgquwfQ4ji1Rm1gtB4gurH6905YcR9TN+rI531VqH8rVvfi/Z
* D+YkS1P4HTixL6d3kHLqff/P8PyEGmSnDh/zkhv31k/fhRWq2sAqNwYqRtMX90IF
* GVEwHyt0zxI9fxXcQUpTOw==
*/
// assumes certificate is in the same directory as this file
$cert path = dirname( FILE ) . "\php telepinuatrsa.cer";
$app password = 'siriyangu!';
$pass_enc = new RSAEncryptPassword($cert_path, $app_password);
$encrypted password = $pass enc->EncryptPassword();
echo $encrypted password;
?>
```

2 URL Registration and Update

3rd party application will be required to register different types URL with the API gateway, depending on the services to be consumed.

- The Notification URL (for receiving C2B transactions)
- Account validation URL (for validation of account number entered by subscriber during bill payment, used for C2B-2)
- USSD or ONDEMAND or SUBSCRIPTION URL



2.1 Register URL

API Name	ConsumerAPI - v3	
{scheme}	https	
{platform}	preprod, uat, dev, "prod"	
{api_name}	Consumer	
{api_version}	v3	
{api_context}	Registerurl	
API Location	https://preprod.gw.mfs-tkl.com/consumer/v3/registerurl	
Request Method	POST	
Payload	<pre>{ "registerUrlRequest": { "consumerId": "string", "notificationUrl": "string", "validationUrlType": "string", "validationUrlType": "string", "creationDate": "string", } </pre>	
Content Type	application/json	
Responses	201 – Created	
(Note there"s no actual data besides		
the HTTP codes)		
	400 – Bad Request	
	409 – Conflict	
	500 – Internal Server Error	

2.2 Register URL Request Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
consumerId	String	Biller ID/Paybill number
notificationUrl	String	URL for notification
notificationUrlType	String	REST or SOAP
validationUrl	String	URL for account validation
validationUrlType	String	REST or SOAP
creationDate	String	Date Time Stamp (Format is 13-JUN-2018T12:15:00)

2.3 Update URL

Used to update an existing URL that was previously registered with "Register URL".



API Name	UpdateConsumerAPI - v3
{scheme}	https
{platform}	preprod, uat, dev, "prod"
{api_name}	update-consumer
{api_version}	v3
{api_context}	updateUrl
API Location	https://preprod.gw.mfs-tkl.com/update-consumer/v3/updateUrl
Request Method	PUT
Payload	<pre>{ "updateUrlRequest": { "consumerId": "string", "notificationUrl": "string", "validationUrlType": "string", "validationUrlType": "string", "creationDate": "string", } }</pre>
Content Type	application/json
Responses	<pre>200 - Updated { "updatedUrlResponse": { "consumerId": "consumerID passed", "notificationUrl": "notificationUrl", "notificationUrlType": "notificationUrl type regsitered", "validationUrl": "validation url passed", "validationUrlType": "validationUrl type passed", "creationDate": "creationDate" } }</pre>
	400 – Bad Request
	409 – Conflict
	500 – Internal Server Error

2.4 Update URL Request Object Parameter Definition

Similar to "Register URL" object parameters

2.5 Service Registration

This API shall perform registration 3rd party URL for USSD or sms services which are ONDEMAND, SUBSCRIPTION or BULK.

If type is ONDEMAND or SUBSCRIPTION, the parameter **serviceId** is required. If type is 'USSD' the parameter **ussdLevel** is required. If type is 'ONDEMAND' or 'SUBSCRIPTION' 'serviceId' is required.

API Name	ServiceRegistrationAPI - v3



preprod, uat, dev, "prod"
preprod, uat, dev, "prod"
serviceRegistration
v3
Register
https://preprod.gw.mfs-tkl.com/serviceRegistration/v3/register
POST
<pre>"registrationRequest": { "shortCode": "string", "url": "string", "type": "USSD", "serviceId": "string", "ussdLevel": "Basic", "email": "string" }</pre>
application/json
200 - OK { "result": "string", "referenceId": "string" } 400 - Bad Request 409 - Conflict 500 - Internal Server Error

2.6 Register URL Request Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
registrationRequest	Object	
shortCode	String	Content provider shortcode
url	String	Uniform resource locator
type	String	
serviceId	String	
ussdLevel	String	
email	String	



3 Airtime Purchase (ATP) API

Used for airtime purchase and has both asynchronous and synchronous versions. There two platforms for store of value are T-kash and E-jaze

3.1 T-kash Asynchronous ATP

3.1.1 Overview

This API is used to perform an Airtime Purchase by the API consumer and receives an acknowledgement from the API gateway with a referenceCode which is used to query back the status of the transaction using the <u>Transaction Status</u> API.

Note that this is not a call-back, but rather the API consumer polling for transaction status

API Name	AirtimePurchaseAPI - v3		
{scheme}	https		
{platform}	preprod, uat, dev, "prod"		
{api_name}	Airtimerequest		
{api_version}	v3		
{api_context}	atpAsync		
API Location	https://preprod.gw.mfs-tkl.com/tkash/airtimerequest/v3/atpAsync		
Request Method	POST		
Payload	<pre>{ "atpRequest": { "username": "string", "password": "string", "msisdn": "string", "amount": 0, "brandId": "string" } }</pre>		
Content Type	application/json		
Responses	<pre>202 - Accepted { "atpAsyncResponse": { "referenceCode": "e11893c5-b033-4e99-9473-a43d66b65fbb", "transactionType": "ATP" } } 400 - Bad Request</pre>		
	500 – Internal Server Error		



3.1.2 Request Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
username	String	API application username
password	String	Password of the API application user
msisdn	String	The mobile number for which you are purchasing airtime. The number format can include Country Code without + (254) or National Destination Code (077).
amount	Number	Transaction amount for the initiated transaction KShs. 10 – 10,000
brandId	Number	Internal identifier for type of the transaction, to be shared at integration time. For testing use 933

3.1.3 Response Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
referenceCode	String	Reference code of the of the accepted transaction example: e11893c5-b033-4e99-9473-
		a43d66b65fbb
transactionType	String	Type of the transaction performed example: ATP

3.2 T-kash Synchronous ATP

3.2.1 Overview

This API is used to perform an Airtime Purchase by the API consumer in a synchronous manner, and waits for the transformed JSON response received from T-kash.

API Name	AirtimePurchaseAPI - v3
{scheme}	https
{platform}	preprod, uat, dev, "prod"
{api_name}	Airtimerequest
{api_version}	v3
{api_context}	Atp
API Location (Pre-prod)	https://preprod.gw.mfs-tkl.com/tkash/airtimerequest/v3/atp
Request Method	POST
Payload	<pre>{ "atpRequest": { "username": "string", "password": "string", "msisdn": "string", "amount": 0, "brandId": "string"</pre>



```
}
                                       application/json
Content Type
Responses
                                       200 - OK
                                         "atpSyncResponse": {
                                           "resultCode": "string",
                                           "message": "string",
                                           "tklReference": "string",
                                           "originalAmount": 0,
                                           "finalAmount": 0,
                                           "activationDate": 0,
                                           "salesOrderNo": "string",
                                           "newBalance": 0,
                                           "paymentTotal": "string",
                                           "trnxFee": 0,
                                           "destinationMSISDN": "string"
                                       400 - Bad Request
                                       500 - Internal Server Error
```

3.2.2 Request Object Parameter Definition

The request object parameter definition is similar to those of asynchronous call defined in section 3.1.2 Request Objet Parameter Definition

3.2.3 Response Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
resultCode	String	Result code of the Response
message	String	Resulted message of the transaction
tklReference	String	TKL reference number
originalAmount	Number	Original transaction amount
finalAmount	Number	Final transaction amount with taxes (if any)
activationDate		Transaction date
salesOrderNo	Number	Transaction ID
newBalance	Number	New balance of the initiators wallet after the transaction
paymentTotal	Number	Final transaction amount with taxes and other charges (if any)
trnxFee	Number	Transaction fee
destinationMSISDN	String	The MSISDN for which airtime was purchased

3.3 E-jaze Synchronous ATP

3.3.1 Overview

This API is used to perform an Airtime Purchase by the API consumer in a synchronous manner, and waits for a response received from E-jaze.

API Name	EjazeAPI- v1



{scheme}	https
{platform}	preprod, uat, dev, "prod"
{api_name}	Ejaze
{api_version}	v3
{api_context}	ejaze-atp
API Location	https://preprod.gw.mfs-tkl.com/ejaze/v1/ejazeAtp
Request Method	POST
Payload	<pre>{ "airtimeRequest": { "loginId": "string", "password": "string", "code": "string", "sourceMsisdn": "string", "destMsisdn": "string", "amount": "string", "extrefnum": "string" } </pre>
Content Type	application/xml
Responses	<pre>200 - OK { "airtimeResponse": { "date": "string", "txnStatus": "string", "extrefnum": "string", "message": "string", "transactionId": "string" } }</pre> 400 - Bad Request
	500 – Internal Server Error

3.4 Request Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
userId	String	Login ID of the Operator user
msisdn	String	Destination subscriber"s MSISDN
extrefnum	String	Unique Reference number in the external system

3.4.1 Response Object Parameter Definition

ELEMENT	Type	DESCRIPTION
	IYDC	DESCITE LIGHT



date	String	Response Type e.g. OTHERBALANCERESP
txnStatus	String	Status of the Barring request. Transaction Status=200 means Success, Transaction Status Other than 200 means failed
DATE	String	Date and time on which user has been barred in PreTUPS. HH are in 24 Hour format
extrefnum	String	Unique Reference number of the external system.
message	String	Transaction ID
transactionId	String	If successful, ID for the processed transaction

3.5 **Ejaze Balance Check**

3.5.1 Overview

This API is used to perform an e-jaze balance query.

API Name	EjazeAPI - v1
{scheme}	https
{platform}	preprod, uat, dev, "prod"
{api_name}	Ejaze
{api_version}	V1
{api_context}	ejazeBalance
API Location (Pre-prod)	https://preprod.gw.mfs-tkl.com/ejaze/v1/ejazeBalance
Request Method	POST
Payload	<pre>"airtimeBalanceResp": { "txnStatus": "string", "errorKey": "string", "date": "string", "extrefnum": "string", "code": "string", "msisdn": "string", "loginId": "string", "balance": "string" } }</pre>
Content Type	application/json
Responses	<pre>200-OK { "airtimeBalanceResp": { "txnStatus": "string", "errorKey": "string", "date": "string", "extrefnum": "string", "code": "string", "msisdn": "string",</pre>



```
"loginId": "string",
    "balance": "string"
}

400 - Bad Request

500 - Internal Server Error
```

3.6 Request Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
userId	String	Login ID of the Operator user
msisdn	String	Destination subscriber"s MSISDN
extrefnum	String	Unique Reference number in the external system

3.6.1 Response Object Parameter Definition		
ELEMENT	Туре	DESCRIPTION
txnStatus	String	Status of the transaction
errorKey	String	Error message if transaction failed
date	String	Date and time on which request generated by external system
extrefnum	Number	Unique Reference number in the external system
code	String	Product code
msisdn	String	Destination subscriber"s MSISDN
loginId	String	Login ID of the Operator user
balance	String	Balance of the subscriber account

3.7 **Ejaze PIN Change**

3.7.1 Overview

This API will perform account pin change for an ejaze account.

API Name	EjazeAPI - v1
{scheme}	https
{platform}	preprod, uat, dev, "prod"
{api_name}	Ejaze
{api_version}	V1
{api_context}	ejazePin



API Location (Pre-prod)	https://preprod.gw.mfs-tkl.com/ejaze/v1/ejazePin
Request Method	POST
Payload	<pre>"pinChangeRequest": { "msisdn": "string", "password": "string", "pin": "string", "newPin": "string", "confirmNewPin": "string", "loginId": "string" } </pre>
Content Type	application/json
Responses	<pre>200 - OK { "pinChangeResponse": { "date": "string", "txnStatus": "string", "message": "string" } } 400 - Bad Request</pre>
	400 – Bad Request 500 – Internal Server Error

3.8 Request Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
msisdn	String	Destination subscriber"s MSISDN
password	String	Password of the origin
pin	String	Pin of the subscriber
newPin	String	New Pin of the subscriber
confirmNewPin	String	Confirmation on New Pin of the subscriber
loginId	String	LoginId of the origin

3.8.1 Response Object Parameter Definition		
ELEMENT	Туре	DESCRIPTION
txnStatus	String	Status of the transaction
errorKey	String	Error message if transaction failed
date	String	Date and time on which request generated by external system
extrefnum	Number	Unique Reference number in the external system
code	String	Product code
msisdn	String	Destination subscriber"s MSISDN
loginId	String	Login ID of the Operator user
balance	String	Balance of the subscriber account



4 Transaction Status

4.1 Overview

This is implemented as a generic API that accepts a referenceCode and a transaction type, and provides a persistent response when called

API Name	TransactionStatusAPI - v3
{scheme}	https
{platform}	preprod, uat, dev, "prod"
{api_name}	Transactionstatus
{api_version}	v3
{api_context}	Getstatus
API Location	https://preprod.gw.mfs- tkl.com/tkash/transactionstatus/v3/getstatus?referenceCode={referenceCode}
	&transactionType={transactionType}
Request Method	GET
Payload	?referenceCode={referenceCode}&transactionType={transactionType}
Responses	<pre>200 - OK The actual content of the response will be varied depending on the transactionType value. Sample Response for B2C Pending Response: { "Message": " Pending response " } Sample Response for B2C Success: { "b2cResponse": { "statusTrnxId": "737820d7-8ea4-4c9f-9632-07aac9d1d201", "statusTrnxType": "B2C", "resultCode": 0, "message": "TXN ID: 522862 Successful. You have sent KShs. 10.00 bank to wallet transfer to 254773774954 - Faith Wanjala on 11/09/18 12:39. Charges KShs. 11.00. Your balance: KShs. 725,350.00.", "tKlReference": 43087, "originalAmount": 10, "finalAmount": 24, "trnxFee": null, "externalRef": "EXT_TXN_ID_011", "salesOrderNo": 522862, "newBalance": 725350, "destinationMSISDN": 254773774954, "networkName": "Benson Oluga", "info": "KCB Bank to Wallet test" }</pre>



```
400 - Bad Request

404 - referenceCode not found or transactionType not found

{
    "result": "Transaction ID e11893c5-b033-4e99-9473-a43d66b65fbb and Type
B2C not found"
}

500 - Internal Server Error
```

4.2 Transaction Status Request Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
referenceCode	String	Reference code obtained in the transaction request
transactionType	String	Possible values are
		- ATP
		- B2C
		- C2B
		- B2B

4.3 Transaction Status Response Object Parameter Definition

Depends on the transactionType, check the actual response parameter definition in the respective synchronous API responses

5 Replay Notification

5.1 Overview

This is implemented as a generic API that accepts a referenceCode and a transaction type, and provides a persistent response when called.

API Name	CommonNotificationReplayAPI - v3		
{scheme}	https		
{platform}	preprod, uat, dev, "prod"		
{api_name}	notificationReplay		
{api_version}	v3		
{api_context}	replayNotification		
API Location	https://preprod.gw.mfs-		



	<pre>tkl.com/notificationReplay/v3/replayNotification?notificationType={transac tionType}&id={consumerID}&limit={notificationCount}</pre>		
Request Method	GET		
Payload	<pre>?notificationType={transactionType}&id={consumerID}&limit={limitCount}</pre>		
Responses	<pre>200 - OK { "replayNotificationResponse": { "id": "string", "notificationType": "string", "notificationCount": "string" } } 400 - Bad Request</pre>		
	404 – id not found		
	500 – Internal Server Error		

5.2 Request Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
Id	String	Consumer ID/biller ID/Pay bill number used in the Register URL
notificationType	String	Possible values are
		- ATP
		- B2C
		- C2B
		- B2B
Limit	Number	The number of transactions to be given in the response

5.3 Response Object Parameter Definition

Similar to request parameters

Business to Customer Transactions

This is used for transactions where the debit account is a prefunded business disbursement account and the credit account is a subscriber or another business.

B2C transactions have an optional name lookup (NLU) API.

If the business is just disbursing funds, for example, a batch salary payment, then only the payment API call is recommended.

If the business will be performing individual transactions through some external interface e.g. mobile app/USSD, then a name lookup API call is required, followed by a the payment API call.

For example, if the business is a bank and has offered its customers to send money from their bank accounts to T-kash wallets through a mobile app, then the bank must make the name lookup API call and present it to the customer with the recipient details, before making the payment API call to complete the transaction.



Note:

NLU is always synchronous. However, post NLU, the actual payment can be synchronous or asynchronous.

6.1 B2C Name Lookup (NLU) API

This API performs a lookup against the MSISDN and returns the name of the intended destination subscriber, among other info related to the transaction.

API Name	B2CPaymentAPI - v3		
{scheme}	https		
{platform}	preprod, uat, dev, "prod"		
{api_name}	b2c		
{api_version}	v3		
{api_context}	Namelookup		
API Location	https://preprod.gw.mfs-tkl.com/tkash/b2c/v3/namelookup		
Content Type	application/json		
Request Method	POST		
Payload	<pre>"nameLookupRequest": { "username": "string", "password": "string", "msisdn": "string", "amount": 0, "brandId": "string", "info1": "string", "info2": "string", "info3": "string", "externalRef": "string" }</pre>		
Response	<pre>200 - OK { "nameLookupResponse": { "resultCode": "string", "destinationMSISDN": "string", "amount": number, "transactionFee": number, "firstName": " string", "lastName": " string", "info1": "string", "info2": "string", "info3": "string", "externalRef": "string" } 400 - Bad Request</pre>		



404 – account not found 500 – Internal Server Error

6.1.1 Request Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
Username	String	API username
Password	String	API user password
Msisdn	String	Destination subscriber"s MSISDN
Amount	String	Transaction amount for the initiated transaction
brandId	String	Transaction type identifier - a numeric value to be shared at the time of account setup. May be different for test and production environments. For testing use 898 for bank to wallet, 930 every other disbursement payment
info1	String	Sender Institution/Bank/Business Name (Additional information associated with the transaction) - optional
info2	String	Sender Bank Account Name (Additional information associated with the transaction) - optional
info3	String	Sender unique ID/bank account number (Additional information associated with the transaction) - optional
externalRef	String	External reference ID

6.1.2 Response Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
nameLookupResponse	Object	
resultCode	String	Result code of the Response, 0 for success, any other failed
destinationMSISDN	String	Destination subscriber"s MSISDN
Amount	Number	Associated fee to be charged by T-kash if the transaction is completed
transactionFee	Number	Fee associated with the transaction
firstName	String	First name of the destination subscriber
lastName	String	Last name of the destination subscriber
info1	String	Sender Institution/Bank/Business Name (Additional information associated with
		the transaction) - optional
info2	String	Sender Bank Account Name (Additional information associated with the
		transaction) - optional
info3	String	Sender unique ID/bank account number (Additional information associated with
		the transaction) - optional
externalRef	String	External reference ID

6.2 Synchronous B2C Payment API

This API shall accept a payment request and provides a response within the request session.



API Name	B2CPaymentAPI - v3 https preprod, uat, dev, "prod"		
{scheme}			
{platform}			
{api_name}	b2c		
{api_version}	v3		
{api_context}	Sync		
API Location	https://preprod.gw.mfs-tkl.com/tkash/b2c/v3/sync		
Content Type	application/json		
Request Method	POST		
Payload	<pre>{ "creditSyncRequest": { "username": "string", "password": "string", "msisdn": "254772071999", "amount": 10, "brandId": "string", "info1": "Institution/business name", "info2": "string", "info3": "string", "externalRef": "string" } </pre>		
Response	<pre>200 - OK { "creditSyncResponse": { "resultCode": "0", "message": "transaction message ", "tklReference": "45134", "originalAmount": 10, "finalAmount": 10, "trnxFee": 1, "externalRef": "ext001", "salesOrderNo": "549425", "newBalance": 99893, "destinationMSISDN": "254772071999", "networkName": "business name", "info": "001001001" } } 400 - Bad Request 404 - account not found 500 - Internal Server Error</pre>		

6.2.1 Synchronous B2C Payment Request Object Parameter Definition

The actual parameter definition is similar to "name lookup".

6.2.2 Synchronous B2C Payment Response Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
resultCode	String	Reference code obtained in the transaction request



Message	String	Resulted message of the transaction
tklReference	String	T-kash reference number
originalAmount	Number	Original transaction amount
finalAmount	Number	Final transaction amount with taxes where applicable
trnxFee	String	Transaction fee
externalRef	String	Additional information associated with the transaction as was sent in
		the request
salesOrderNo	String	Sales order number/transaction ID
newBalance	Number	Source account balance post the transaction
destinationMSISDN	String	Subscriber recipient mobile number
networkName	String	Sender organisation name
Info	String	Additional information associated with the transaction as was sent in
		the request

6.3 Asynchronous B2C Payment API

This API is implemented in asynchronous nature where the API consumer gets an ACCEPTED (201) status the moment API is invoked with a response that contains a unique referenceCode.

It requires the API consumer to <u>"register a notification UR"</u> with the API Portal.

The referenceCode provided to the consumer is used to query the status of that transaction.

Note: this is not a callback

Refer to **Transaction Status** query

API Name	B2CPaymentAPI - v3	
{scheme}	https	
{platform}	preprod, uat, dev, "prod"	
{api_name}	b2c	
{api_version}	v3	
{api_context}	Async	
API Location	https://preprod.gw.mfs-tkl.com/tkash/b2c/v3/async	
Content Type	application/json	



```
Request Method
                          POST
Payload
                            "creditAsyncRequest": {
                              "username": "string",
                              "password": "string",
                              "msisdn": "string",
                              "amount": 0,
                              "brandId": "string",
                              "infol": "string",
                              "info2": "string",
                              "info3": "string",
                              "externalRef": "string"
                            }
                          }
                          200 - OK
Responses
                            "creditAsyncResponse": {
                              "referenceCode": "e11893c5-b033-4e99-9473-a43d66b65fbb",
                              "transactionType": "B2C"
                          400 - Bad Request sample1:
                            "Error": "Value you have entered for msisdn is invalid. Enter your
                          mobile number with 12 digits starting with country code. eg:25477xxxxxxx"
                          OR
                            "Error": "Could not build full log message:
                          javax.xml.stream.XMLStreamException: Unexpected symbol: STRING"
                          }
                          Bad Request sample2:
                            "Error": {
                              "code": "-1",
                              "message": "For input string: \"string\""
                            }
                          }
                          404 - account not found
                          500 - Internal Server Error
```

6.3.1 Asynchronous B2C Payment Request Object Parameter Definition

Contains the request object to perform B2C payment API. The definition is similar to <u>name lookup</u> request parameters.

6.3.2 Asynchronous B2C Payment Response Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
referenceCode	String	Reference code obtained in the transaction request
transactionType	String	B2C



Transaction Notification

This API is triggered to the business when a business account receives funds in any of the below 3 scenarios:

- C2B1
- C2B2
- T-kash code redemption

The notification API is like a "fire-and-forget". If the notification end point is inaccessible, or the end point responds negatively, the transaction status does not change. However, HTTP 202 Accepted is expected as a response, else, the notification will be queued for a limited duration within which it'll be available for retrieval by the business in the <u>replay API</u>.

It's the duty of the 3rd party to filter out duplicates using transactionId.

The notification contains two keys: "notificationType" and "notificationBody". "notificationBody" have child elements which will vary depending on "notificationType", while "notificationType" can take any of the three scenarios described above.

Simulation API

This is a GET request on /c2b/{billerId}. Gives a static response on the URL that was registered in the "Register URL", and is similar to the Notification response below.

API Name	SimulateAPI - v3	
{scheme}	https	
{platform}	preprod, uat, dev, "prod"	
{api_name}	Simulate	
{api_version}	v3	
{api_context}	c2b/{billerID}	
API Location	https://preprod.gw.mfs-tkl.com/simulate/v3/c2b/{billerID}	
Content Type	application/json	
Request Method	GET	
Payload	billerIDdefined at the time of Registering Notification URL	
Responses	200 – OK	
	Content payload is similar to C2B notification depending on whether a REST or SOAP defined at the	
	time of Registering Notification URL	
	The actual notification happens post this simulation response on the listening endpoint registered in Register	
	URL	
	400 – Bad Request	



404 - If the ID is not Registered one. Error Message is "consumer ID not found"

500 - Internal Server Error

7.1.2 Transaction Notification (SOAP Request)

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"</pre>
xmlns:pay="http://www.telkom.co.ke/PaymentNotification/">
   <soap:Header/>
   <soap:Body>
      <pay:notificationType>RECEIVEPAYMENT/pay:notificationType>
      <pay:notificationBody>
         <transactionAmount>200.50</transactionAmount>
    <transactionDate>2013-02-22T08:22:54</transactionDate>
         <transactionId>4838384/transactionId>
    <!--Optional:-->
         <transactionFee>400</transactionFee>
    <billerMsisdn>25477586949494/billerMsisdn>
        <billerId>4383</pillerId>
    <!--Optional:-->
        <accountNumber>A2393</accountNumber>
    <!--Optional:-->
         <accountBalance>444.33</accountBalance>
    <brandId>BillPayment/brandId>
         <brandName>Water Company
        <srcAccountName>Water Company</srcAccountName>
         <sourceMSISDN>2547756636363/sourceMSISDN>
    <!--Optional:-->
         <txnTime>05-12-18T 12:13:3</txnTime>
    <accBalance>14500.65</accBalance>
         <destinationFees>0.5</destinationFees>
    <destAccName>Water Company</destAccName>
         <accountId>41231</accountId>
        <customersIDdocumentType>National ID</customersIDdocumentType>
        <customersIDdocumentNumber>41524651/customersIDdocumentNumber>
      </pay:notificationBody>
   </soap:Body>
</soap:Envelope>
```

7.1.3 Transaction Notification (SOAP Response)

Defines a response expected from 3rd party. If this response is not received, then the notification will be queued for Replay

Notification



7.1.4 Transaction Notification (REST Request)

```
{
   "notificationType": "RECEIVEPAYMENT",
   "notificationBody": {
      "transactionAmount": "125",
      "transactionDate": "2018-12-05T12:13:39",
      "transactionId": "248335",
      "transactionFee":"-5",
      "billerMsisdn": "25477xxxxxxxxx",
      "billerId":"103",
      "accountNumber": "123456",
      "accountBalance": "3126",
      "brandId": "545",
      "brandName": "OfflineAndSemiOnlineBillers",
      "srcAccountName": "Test Name",
      "sourceMSISDN": "254XXXXX",
      "txnTime":"05-12-18T 12:13:3",
      "accBalance": "3126",
      "destinationFees":"-5",
      "destAccName": "Test Collection",
      "accountId": "4513",
      "customersIDdocumentType":"string",
      "customersIDdocumentNumber":"string"
}
```

7.1.5 Transaction Notification (REST Response)

Defines a response expected from 3rd party. If this response is not received, then the notification will be queued for Replay

Notification

```
{
   "ReceivePaymentResponse":{
     "responseCode":10010,
     "responseMessage":"API was notified"
   }
}
```

7.1.6 Request Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
notificationType	String	RECEIVEPAYMENT (other types to be implimented)
notificationBody	Object	
transactionAmount	String	Amount as was entered by subscriber at the time of bill payment
transactionDate	String	YYYY-MM-DDTHH24:MI:SS e.g. 2018-12-05T12:13:39
transactionId	String	Transaction identifier



transactionFee	String	Transaction fee. The actual amount credited into the biller"s account is
		transactionAmount less transactionFee
billerMsisdn	String	Account number of the biller in T-kash
billerId	String	Pay bill number/Consumer ID
accountNumber	String	Account on the biller"s end to which the payment is being made
accountBalance	String	Biller"s account balance post receiving this transaction
brandId	String	Unique identifier of the transaction type
brandName	String	The transaction type associated with brandId
srcAccountName	String	Subscriber"s name associated with sourceMSISDN
sourceMSISDN	String	Subscriber"s mobile number
txnTime	String	Transaction date, ignore
accBalance	String	Biller"s account balance post receiving this transaction, similar to
		accountBalance
destinationFees	String	Charges on the biller associated with receiving the payment.
destAccName	String	Biller"s account name as registered in T-kash and associated with
		billerMsisdn
accountId	String	A unique identifier associated with billerMsisdn
customersIDdocumentType	String	Registration document type used to register subscriber in T-kash e.g. National
		ID, Passport
customersIDdocumentNumber	String	Registration document number used to register subscriber in T-kash associated with customersIDdocumentType
		with customerstraccumentrype

8 Customer to Business Transactions

These are transactions in which the subscriber initiates a transaction via subscriber channels such as USSD/APP/DSTK to a 3rd Party. The third party must establish a collections account. Categorised into 3:

- C2B0 Also called Offline C2B. The third party collections account receives all transactions. No system integration for API calls required. Reports can be generated at regular interval or on request or downloading from the T-kash web portal https://partner.tkash.co.ke/.
- 2. **C2B1** Also called **semi-online C2B** or **C2B without account validation**. The third party collections account receives all transactions directed to it and an API notification is sent out at the end of every transaction. System integration for the notification API is required. Reconciliations can still be done off system through other reporting mechanisms.



3. C2B2 – Also called online C2B or C2B with account validation. The third party collections account receives all transactions directed to it but before the transaction is completed a validation of the account number entered by the subscriber is done on the 3rd party application. The transaction is only completed if the account is successfully validated. On successful validation, a dr/cr is done then an API notification is also sent out. Requires 2 API calls, one for account validation, and the other for transaction notification.

8.1 C2B1 – Customer Initiated Without Account Validation

The 3rd party is notified of a successful transaction on the URL that was registered in <u>"Register URL"</u>. It utilises both a REST and SOAP <u>"notification"</u>

8.2 C2B2 – Customer Initiated With Account Validation

The 3rd party is notified of a successful transaction on the URL that was registered in "Register URL". It utilises both a REST and SOAP "notification".

However, before a transaction is completed, a "BillerValidationAPI" call is made to the 3rd party to validate if the account number entered by subscriber exists. If the account exists, the transaction is completed and a notification is sent out to the 3rd party.

The result of the notification does not change the status of the transaction

The C2B-2 can be further grouped into postpaid and prepaid. For postpaid, the 3rd expects a predefined fixed amount of payment e.g. an airline ticket payment. In this case, the bill validation response is expected to contain this amount. For prepaid, the biller is flexible and accepts any amount.

8.2.1 Bill Validation			
API Name	BillerValidationAPI - v3		
API Location	The API calls the URL provided in the "Register URL"		
Content Type	application/json		
Request Method	POST		
Payload (to the biller)	<pre>validationType:BILLER validationBody{ sourceMsisdn:"string" billerAccountNumber:"string" sourceName:"string" billerId:"string" billerMsisdn:"string" amount:"string" Infol:"string" regDocType:"string" idNumber: }</pre>		
Responses (from the biller)	<pre>200 - OK { "billerValidationRespond": { "resultCode":"0", "userBalance":"1000.00",</pre>		



8.2.2 Request Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
sourceMsisdn	Numeric String	The subscriber"s account mobile number including country code.
billerAccountNumber	Numeric String	The subscriber"s account number on biller"s system
sourceName	String	Subscriber"s name
billerId	Numeric String	The billing company ID (biller"s alias or paybill number)
billerMsisdn	Numeric String	Biller"s account MSISDN
Amount	Float	The Payment Amount as entered by subscriber
Info1	String	The Payment Extra Info 1
regDocType	String	Customer"s ID document type (KYC data)
idNumber	String	Customer"s ID document number (KYC data)

8.2.3 Response Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
billerValidationRespond	Object	
resultCode	String	0 for successfully found account number, failed for any other code
userBalance	String	The bill payer"s current balance (applicable for prepaid scenario) – describes the



		balance in the customer"s balance
amountOwed	String	The payer"s amount owed/due (applicable for postpaid scenario) – describes the amount the subscriber is expected to pay
dueDate	String	The due date (applicable for postpaid scenario) format 2013-02-22T08:22:54 (YYYY-MM-DD T HH:MI:SS)
accountNum	String	Account number
infol	String	The payer"s account name on the biller"s system
info2	String	Extra Reference 2
info3	String	Extra Reference 3
info4	String	Extra Reference 4

9 Reversal APIs

Although maker/checker mechanism exists, the approval is an internal API and is not publicly availed for the details described in the Reversal request below.

9.1 Reversal Request

9.1.1 Overview

This API acts differently on the basis of whether its consumer is source or destination of the transaction being reversed:

Scenario 1:

If the API consumer is the destination of the original transaction being reversed (e.g. in a collection wallet) then the transaction completes in one step. It assumes an approval process has been done on the consumer secosystem and so the consumer is just effecting a reversal.

Scenario 2:

If the API consumer is the source of the transaction being reversed (e.g. in a disbursement wallet) then the transaction reserves the amount being reversed from the subscriber account but does not credit the account to which it's being reversed. TK team have a process to approve the transaction post other external validations.

API Name	PaymentReversalAPI - v3
{scheme}	https
{platform}	preprod, uat, dev, "prod"



	_
{api_name}	Reversals
{api_version}	v3
{api_context}	Requestrefund
API Location	https://preprod.gw.mfs-tkl.com/reversals/v3/requestrefund
Content Type	application/json
Request Method	POST
Payload	<pre>{ "requestRefundRequest": { "username": "string", "password": "string", "transactionRef": "string", "refundReason": "1" } }</pre>
Response	200 – OK – Scenario 1
	<pre>200 - OK - Scenario 2 { "requestRefundResponse": { "resultCode": "string", "message": "string", "requestId": "string" } } 400 - Bad Request 404 - transactionRef not found 500 - Internal Server Error</pre>

9.1.2 Reversal Request Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
username	String	Application username
password	String	Application password
transactionRef	String	Transaction ID = Sales Order Number of the original transaction being reversed
refundReason	Number	1 – Wrong destination account 2 – Wrong amount
		3 – Wrong payment type 4 – Other

9.1.3 Reversal Response Object Parameter Definition – Scenario 1

ELEMENT	Туре	DESCRIPTION
resultCode	String	0 for success, failed for any other code
message	String	Status message
requestId	Number	Unique ID that identifies the reversal request. Is used to call the reversal approval API below



9.1.4 Reversal Response Object Parameter Definition – Scenario 2

ELEMENT	Туре	DESCRIPTION
resultCode	String	0 for success, failed for any other code
Message	String	Status message
requestId	Number	Unique ID that identifies the reversal request. Is used to call the reversal approval API below

9.2 Reversal Approval

9.2.1 Overview

Take the reversal refundRequestId received in the reversal request to complete the reversal.

Given the description in <u>"Reversal Request"</u>, you do not this API and is only here for the documentation purpose.

API Name	PaymentReversalAPI - v3		
{scheme}	https		
{platform}	preprod, uat, dev, "prod"		
{api_name}	Reversals		
{api_version}	v3		
{api_context}	Approverefund		
API Location	https://preprod.gw.mfs-tkl.com/reversals/v3/approverefund		
Content Type	application/json		
Request Method	POST		
Payload	<pre>{ "approveRefundRequest": { "username": "string", "password": "string", "refundRequestId": "string" } }</pre>		
Response	<pre>200 - OK { "approveRefundResponse": { "resultCode": "string", "message": "string", "systemReference": "string", "transactionId": "string" } } 400 - Bad Request 404 - refundRequestId not found 500 - Internal Server Error</pre>		



9.2.2 Approval Request Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
approveRefundRequest	Object	
username	String	Application username
password	String	Application password
refundRequestId	String	A reversal identifier that was received as requestId in the response to the reversal request

9.2.3 Approval Response Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
resultCode	String	0 for success, failed for any other code
Message	String	Status message
systemReference	Number	Unique ID that identifies the reversal
transactionId	Number	A new transaction ID (Sales Order Number) of the new transaction as a result of reversal

10 Transfer to Bank APIs

This API requires that at least a bank account is pre-registered with the T-kash account. The pre-registration allows a max of 5 bank accounts to be associated with a T-kash account. It involves 2 calls: one, to get the list of preregistered bank accounts and two, to do an actual bank transfer. The 2^{nd} call is a similar in many ways to

10.1 Get List of Pre-registered Bank Accounts

10.1.1 Overview

API Name	PayAgentAPI - v3
{scheme}	https
{platform}	preprod, uat, dev, "prod"
{api_name}	payAgent
{api_version}	v3
{api_context}	listpayees
API Location	https://preprod.gw.mfs-tkl.com/payAgent/v3/listpayees
Content Type	application/json
Request Method	POST
Payload	{ "listPayeeRequest": {



```
"username": "string",
                                    "password": "string",
                                    "accountMsisdn": "string",
                                    "favGroupId": 1
                                  }
                                 }
Response
                                 200 - OK
                                   "listPayeeResponse": {
                                    "resultCode": "string",
                                    "message": "string",
                                    "payeeList": [
                                       "accountNumber": "string",
                                       "favBankName": "string",
                                       "favGroupId": "string",
                                       "favAccountNum": "string"
                                     }
                                    ]
                                  }
                                 400 - Bad Request
                                 404 -not found
                                 500 - Internal Server Error
```

10.1.2 List Bank Accounts Request Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
username	String	Application username
password	String	Application password
accountMsisdn	String	MSISDN of the originating account
favGroupId	String	Type of the Payee to list. [1]T-Kash Contacts [27]Favourite Banks

10.1.3 List Bank Accounts Response Object Parameter Definition – Scenario 1

ELEMENT	Туре	DESCRIPTION
resultCode	String	0 for success, failed for any other code
message	String	Status message
payeeList		Request object
accountNumber	String	Account Number of the payee



favBankName	String	Name of the bank retrieved
favGroupId	String	Code of the payee group
favAccountNum	String	Acccount number for the bank to receive the funds

10.1.4 Overview

This API is meant to send money from the third party collection account to the bank account which was created with their account on Tkash.

API Name	PayAgentAPI - v3
{scheme}	https
(1 + 6	and the state of t
{platform}	preprod, uat, dev, "prod"
{api_name}	payAgent
{api_version}	v3
(and antaut)	nov.
{api_context}	pay
API Location	https://preprod.gw.mfs-tkl.com/payAgent/v3/listpayees
Content Type	application/json
Daniel Mathad	POST
Request Method	POST
Payload	{
	"payPayeeRequest": {
	"username": "string",
	"password": "string",
	"accountMsisdn": "string",
	"shortCode": "string",
	"amount": 0,
	"accountNumber": "string",
	"payeeType": "string"
	}
	}
Response	200 – OK
	{
	"payPayeeResponse": {
	"resultCode": "string",
	"message": "string",
	"customerRefNo": "string",
	"amount": 0,
	"finalAmount": 0,
	"TinaiAmount": U,



```
"transactionDate": "string",
   "transactionCharges": 0,
   "transactionId": "string",
   "newBalance": 0,
   "totalAmount": 0,
   "sourceFees1": 0,
   "sourceFees2": 0,
   "sourceFees3": 0,
   "sourceFees4": 0,
   "destinationFees1": 0,
   "destinationFees2": 0,
   "destinationFees3": 0,
   "destinationFees4": 0,
   "destinatipnAccount": "string"
 }
}
400 - Bad Request
404 -not found
500 - Internal Server Error
```

10.1.5 List Bank Accounts Request Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
username	String	Application username
password	String	Application password
accountMsisdn	String	MSISDN of the originating account
shortCode	String	Type of the Payee to list. [1]T-Kash Contacts [27]Favourite Banks
amount	String	Send to bank shortcode provided by TKL
accountNumber	String	Account number to receive the funds. (Has to be in the list in the listPayees api)
payeeType	String	Type of the Payee to list. [1]T-Kash Contacts [27]Favourite Banks

10.1.6 List Bank Accounts Response Object Parameter Definition – Scenario 1

ELEMENT	Туре	DESCRIPTION
resultCode	String	0 for success, failed for any other code
message	String	Status message
customerRefNo		Customer reference number
amount	String	Payment amount
finalAmount	String	Amount after taxes
transactionDate	String	Code of the payee group



transactionCharges	String	Transaction charges for the payment
transactionId	String	Transaction ID
newBalance	String	New wallet balance after the transaction
totalAmount	String	Payment total amount, after fees and taxes and commission as applicable
sourceFees1	String	Payment source fees1 (fees on source if applicable)
sourceFees2	String	Payment source fees2 (commission to source if applicable)
sourceFees3	String	Payment source fees3 (commission to source parent account if applicable)
sourceFees4	String	Payment source fees4 (tax to source if applicable)
destinationFees1	String	Payment destination fees1 (fees on destination if applicable)
destinationFees2	String	Payment destination fees2 (commission to destination if applicable)
destinationFees3	String	Payment destination fees3 (commission to destination parent account if applicable)
destinationFees4	String	Payment destination fees4 (tax on destination if applicable)
destinatipnAccount	String	Destination account number

11 T-kash Code APIs

T-kash codes are special types of C2B transactions. They are of three types depending on where it is being redeemed:

- a. T-kash code for buy goods and services, used at T-kash merchants and other merchant aggregators
- T-kash code for agent withdrawal, used at T-kash agents and other agent aggregators
- c. T-kash code for ATM withdrawal, used at Verve ATMs

The API only covers T-kash codes for agent withdrawals and merchant payments (buy goods and services) for respective aggregators.

There are 3 related APIs:

- 1. for submitting a code
- 2. for notification
- 3. for checking the code status in case the notification is not sent within the expected timespan

11.1 Submit T-kash Code

11.1.1 Overview

Submits the code as was generated by the subscriber and given to a merchant/agent. The successful synchronous response to this API is just an HTTP Accepted 202. However, a notification is sent on a notification URL with the actual transaction details. The notification URL is part of the request parameters and not the ones in the Register URL.

See Notification for actual values in T-kash Code Status Inquiry

API Name	PayCodeAgentAPI - v3	
{scheme}	https	



{platform}	preprod, uat, dev, "prod"
{api_name}	paycodeAgent
{api_version}	v3
{api_context}	submitpaycode
API Location	https://preprod.gw.mfs-tkl.com/paycodeAgent/v3/submitpaycode
Content Type	application/json
Request Method	POST
Payload	<pre>"submitPaycodeRequest": { "username": "string", "password": "string", "brandId": "string", "amount": 0, "payCode": "string", "otpCode": "string", "merchantName": "string", "merchantCode": "string", "merchantLocation": "string", "info1": "string", "info2": "string", "notificationUrl": "string" } </pre>
Response	202 – Accepted
	400 – Bad Request
	500 – Internal Server Error

11.1.2 Submit T-kash Code Request Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
username	String	Application username
password	String	Application password
brandId	String	Unique identifier for transaction type
amount	Number	Transaction amount
payCode	Number	T-kash Code
otpCode	Number	Always pass as 1234 (for merchant and agent redemptions)
merchantName	String	The merchant/agent name
merchantCode	String	The merchant/agent code or other unique ID for the merchant/agent
merchantLocation	String	The merchant/agent physical location
info1	String	Extra info associated with the transaction



info2	String	Extra info associated with the transaction
notificationUrl	String	URL on which you"re listening for the notification

11.2 T-kash Code Status Inquiry

11.2.1 Overview

Submits the code as was generated by the subscriber and given to a merchant/agent. The successful synchronous response to this API is just an HTTP Accepted 202. However, a **notification** is sent on a notification URL with the actual transaction details. The notification URL is part of the request parameters and is not included in the register URL.

API Name	PayCodeAgentAPI - v3		
{scheme}	https		
{platform}	preprod, uat, dev, "prod"		
{api_name}	paycodeAgent		
{api_version}	v3		
{api_context}	paycodestatus		
API Location	https://preprod.gw.mfs-tkl.com/paycodeAgent/v3/paycodestatus		
Content Type	application/json		
Request Method	POST		
Payload	<pre>{ "paycodeStatusRequest": { "username": "string", "password": "string", "payCode": "string" } }</pre>		
Response	<pre>200 - OK { "paycodeStatusResponse": { "resultCode": "string", "message": "string", "subscriberMobile": "string", "paycode": "string", "userKey": "string", "paycodeStatus": "string", "transactionYype": "string", "merchantName": "string", "merchantCode": "string", "merchantLocation": "string", "infol": "string", "info2": "string", "salesOrderNumber": "string", "salesOrderMSISDN": "string", "sourceMSISDN": "string", "sourceAccountName": "string", "string", "sourceAccountName": "string", "string", "sourceAccountName": "string", "sourceAccountName": "string", "string", "sourceAccountName": "string", "string", "sourceAccountName": "string", "string", "string", "string", "sourceAccountName": "string", "string",</pre>		



```
"destinationMSISDN": "string",
    "destinationAccountName": "string",
    "transactionAmount": 0,
    "notification_time": "string"
    }
}
400 - Bad Request

500 - Internal Server Error
```

11.2.2 T-kash Code Status Inquiry Request Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
paycodeStatusRequest	Object	
username	String	Application username
Password	String	Application password
payCode	Object	T-kash code submitted in the <u>"Submit T-kash Code"</u>

11.2.3 T-kash Code Status Inquiry Response Code Definition

ELEMENT	Туре	DESCRIPTION
paycodeStatusResponse	Object	
resultCode	Number	0 – success, any other code is failed
message	String	Status message
subscriberMobile	String	Subscriber's mobile number
paycode	String	Paycode submitted
userKey	String	Key of the user
paycodeStatus	String	Status of the paycode
transactionType	String	Type of the transaction
merchantName	String	Name of the merchant/agent redeeming the code
merchantCode	String	Code of the merchant (Unique merchant/agent ID) redeeming the code
merchantLocation	String	Location of the merchant/agent redeeming the code
infol	String	Extra information 1
info2	String	Extra information 2
salesOrderNumber	String	Sales order number (transaction ID)
salesOrderDate	String	Sales order date
salesOrderMSISDN	String	MSISDN related to the Sales order
sourceMSISDN	String	Source MSISDN
sourceAccountName	String	Name of the source account holder
destinationMSISDN	String	Destination account MSISDN (aggregator's collection account)
destinationAccountName		Destination account name (aggregator's collection account)
transactionAmount	String	Amount of the transaction
notification_time	String	Time of the notification received



12 USSD & Bulk SMS

12.1.1 On Demand Request Object Parameter Definition

This is the request forwarded to the third party's registered url whenever a customer requests for an their demand service.

Content Type	application/json
Request Method	POST
Payload	{ "msisdn":"+254771166540", "shortcode":"254xxxx", "message":"NEWS", "referenceCode":"436432366684763434522" }
Response	200 – OK 400 – Bad Request 500 – Internal Server Error

12.1.2 Subscription Request Object Parameter Definition

This is the request forwarded to the third party's registered url whenever a customer requests to either opt in or out of their subscription service.

Content Type	application/json
Request Method	POST
Payload	{ "msisdn":"+254771166540", "shortcode":"254xxxx", "message":"SUBSCRIBE", "referenceCode":"436432366684763434522" }
Response	200- OK 400 - Bad Request 500 - Internal Server Error



12.2 Bulk SMS API

12.2.1 Overview

This API shall perform send SMS and provide with a response.

API Name	BSCAPI - v3			
{scheme}	https			
{platform}	preprod, uat, dev, "prod"			
{api_name}	Sendsms			
{api_version}	v3			
{api_context}	Sendsmsrequest			
API Location	https://preprod.gw.mfs-tkl.com/sms/sendsms/v3/sendsmsrequest			
Content Type	application/json			
Request Method	POST			
Payload	<pre>"sendSMSRequest": { "CpId": "string", "CpPassword": "string", "timestamp": "string", "serviceId": 0, "senderAddress": "254XXXX", "smsTextMessage": { "message": "string" }, "address": ["string"], "receiptRequest": { "notifyURL": "string", "callbackData": "string" } }</pre>			
Response	<pre>200 - OK { "errorStatus":false, "message":"it is valid request", "ResponseIdentifier":"436432366684763434535" } 400 - Bad Request</pre>			



500 - Internal Server Error

12.2.2 SMS Delivery Status Request Object Parameter Definition		
ELEMENT	Туре	DESCRIPTION
sendSMSRequest	Object	
CpId	String	Content provider identifier
CpPassword	String	Content provider password
Timestamp	String	Date and time
Serviced	String	Required for ONDEMAND & SUBSCRIPTION SMS registrations
senderAddress	String	Shortcode in the format 254xxxx
smsTextMessage		
Message		Content
Address		MSISDN
receiptRequest	Object	
notifyURL		URL to receive notifications through
callbackData		Executable at a given time

12.2.3 SMS Delivery Status Response Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
deliveryStatusSMSResponse	object	
errorStatus	String	The type of error
Message	String	Content
ResponseIdentifier	String	Unique response number

12.3 SMS Delivery Notification API

12.3.1 Overview

This API shall perform delivery status check for send SMS and provide with a response.

API Name	BSCDeliveryStatusAPI - v3
{scheme}	https
{platform}	preprod, uat, dev, "prod"
{api_name}	deliveryreport
{api_version}	v3



```
{api context}
                         status
API Location
                         https://preprod.gw.mfs-tkl.com/sms/deliveryreport/v3/status
Content Type
                         application/json
                         POST
Request Method
Payload
                         //For where we query delivery status by MSISDN.
                           "deliveryStatusSMSRequest": {
                             "CpId": "string",
                             "CpPassword": "string", "timestamp": "string",
                             "serviceId": 0,
                             "address": "254772d4145",
                             "referenceCode": "string"
                         }
                         //For when we query delivery status without MSISDN
                           "deliveryStatusSMSRequest": {
                             "CpId": "string",
                             "CpPassword": "string", "timestamp": "string",
                             "serviceId": 0,
                             "referenceCode": "string"
                           }
                         200 - OK
Response
                           "deliveryInfoList": [
                             {
                               "dateTime": "2019-02-24 16:30:24",
                               "address": "254772d4145",
                               "referenceCode": "1",
                               "senderAddress": "ldsfwfse32rwedfc",
                               "message": "Sample Text",
                               "messageId": "0239842752",
                               "deliveryReceipt": "",
                               "deliveryStatus": "MessageWaiting"
                         }
```



```
"deliveryInfoList": [
      "dateTime": "2019-02-24 16:30:24",
      "address": "254772d4145",
      "referenceCode": "1",
      "senderAddress": "ldsfwfse32rwedfc",
      "message": "Sample Text",
      "messageId": "0239842752",
      "deliveryReceipt": "",
      "deliveryStatus": "MessageWaiting"
    },
    {
      "dateTime": "2019-02-29 16:30:24",
      "address": "254771241125",
      "referenceCode": "ldsfwfse32rwedfc",
      "senderAddress": "25470025",
      "message": "Sample Message",
      "messageId": "0239842788",
      "deliveryReceipt": "",
      "deliveryStatus": "MessageWaiting"
  ]
}
400 - Bad Request
500 - Internal Server Error
```

12.3.2 SMS Delivery Status Request Object Parameter Definition

ELEMENT	Туре	DESCRIPTION
deliveryStatusSMSRequest	Object	
CpId	String	Content Provider Identifier
CpPassword	String	Content Provider Password
Timestamp	String	Date/Time
serviceId	String	Service Identifier
referenceCode	String	

12.3.3 SMS Delivery Status Response Object Parameter Definition

ELEMENT Type DESCRIPTION



deliveryStatusSMSResponse	object	
errorStatus	String	
Message	String	
deliveryDetails	String	

12.3.4 Delivery Status Definition

STATUS	DESCRIPTION
DeliveredToTerminal	The message is delivered to terminal successfully.
DeliveryUncertain	The delivery status is unknown. For example, because the message was handed off to another network.
MessageWaiting	The message is still queued for delivery. This status is temporary.
MessageSendToSMSC	The message is accepted by SMSC but not delivered to terminal

12.4 USSD

12.4.1 Overview

This API shall allow consumer to integrate their application with the USSD GW. A separate USSD doc shall be provided, but it's basically a get request with most of the payload in HTTP headers

API Name		
{scheme}	https	
{platform}	preprod, uat, dev, "prod"	
{api_name}	ussd	
{api_version}	v3	
{api_context}	ussd-api	
API Location	https://dev.gw.mfs-tkl.com/ussd/v3/	
Content Type	application/json	
Request Method	GET	
Payload	<pre>Session-ID MSISDN ShortCode curl -X GET \ 'http://some_url:port/ussd?menu=2' \ -H 'Accept: text/xml' \ -H 'Inputs: xxxx \ -H ' Session-ID: xxxx \</pre>	



	-H 'ShortCode: xxx	
Response	200 – OK	
	<pre><?xml version="1.0" encoding="UTF-8"?></pre>	
	<ussdresponse></ussdresponse>	
	400 – Bad Request	
	500 – Internal Server Error	

13 Till Notification API

The third part will have to register a notification URL with Telkom Kenya Limited to receive the till notification payload from Telkom Kenya Limited.

13.1.1 Till Notification (REST Request)

```
"notificationType": "RECEIVEPAYMENT",
   "notificationBody":{
      "brandName": "MerchantTillPaymentWithAlias",
      "tillNumber": "624249",
      "customersIDdocumentNumber":"",
      "transactionDate": "Fri Sep 18 22:08:41 EAT 2020",
      "transactionTime": "18-09-20 21:51:07",
      "transactionId": "53775731",
      "destinationAccountName": "Test Merchant",
      "destinationFees": "0.0",
      "accountId": "66896",
      "transactionFee": "0.00000",
      "sourceMSISDN": "25477xxxxxxxxxx",
      "transactionAmount": "40.0",
      "brandId": "1047",
      "customersIDdocumentType":"String",
      "accBalance": "0.0",
      "accountBalance": "286.50000",
      "billerMsisdn": "25477xxxxxxxxxx",
      "sourceAccountName": "Test Name"
  }
}
```



13.1.2 Till Notification (REST Response)

```
Defines a response expected from the 3<sup>rd</sup> party.

{
    "ReceivePaymentResponse":{
        "responseCode":10010,
        "responseMessage":"API was notified"
     }
}
```

13.13 Request Object Parameter Definition

13.13 Request Object Farameter Definition				
ELEMENT	Туре	DESCRIPTION		
notificationType	String	RECEIVEPAYMENT		
notificationBody	Object			
transactionAmount	String	Amount as was entered by subscriber at the time of bill payment		
transactionDate	String	YYYY-MM-DDTHH24:MI:SS e.g. 2018-12-05T12:13:39		
transactionId	String	Transaction identifier		
transactionFee	String	Transaction fee. The actual amount credited into the biller's account is transactionAmount less transactionFee		
billerMsisdn	String	Account number of the biller in T-kash		
tillNumber	String	Till number /Consumer ID		
accountBalance	String	Biller"s account balance post receiving this transaction		
brandId	String	Unique identifier of the transaction type		
brandName	String	The transaction type associated with brandId		
sourceAccountName	String	Subscriber"s name associated with sourceMSISDN		
sourceMSISDN	String	Subscriber"s mobile number		
transactionTime	String	Transaction date, ignore		
accBalance	String	Biller"s account balance post receiving this transaction, similar to accountBalance		
destinationFees	String	Charges on the biller associated with receiving the payment.		
destinationAccountName	String	Biller"s account name as registered in T-kash and associated with billerMsisdn		

29th September 2020

Version 1.4.2

Telkom	

accountId	String	A unique identifier associated with billerMsisdn
customersIDdocumentType	String	Registration document type used to register subscriber in T-kash e.g. National ID, Passport
customersIDdocumentNumber	String	Registration document number used to register subscriber in T-kash associated with customersIDdocumentType



14 ERROR CODES

-1 General error. Usually a general operation failure or an insufficient privilege. -2 Destination interface is down. Please contact customer Trace the root cause issue in the support Trace the root cause issue in the try to telnet or ping the interface.	e logs and ce.
an insufficient privilege. -2 Destination interface is down. Please retry transaction later try to telnet or ping the interface.	ce.
-2 Destination interface is down. Please retry transaction later try to telnet or ping the interface	ce.
try to telnet or ping the interface	ce.
10 New years and is country New years and is country Country and a country assumed	
New password is empty. New password is empty. Supply a non-empty password.	
11 New password and new New password and new Ensure password and password	I
password confirmation do password confirmation do not confirmation match.	
not match. match.	
New password length is less New password length too Supply a longer password.	
than the length specified in short.	
the password policy.	
14 New password contains less New password less than min Supply a password with more a	Ipha
alpha characters than the alpha length. characters.	
minimum defined in the	
password policy.	
New password length is New password length too long. Supply a shorter password.	
greater than the length	
specified in the password	
policy.	
16 New password is in your New password in history. Pick another password.	
password history.	
17 New password matches the New password matches Pick another password.	
default password. default.	
18 New password is in global New password in dictionary. Pick another password.	
password dictionary.	



19	New password matches the	New password matched	Pick another password.
	user's username.	username	
20	Error decrypting password	New password.	Investigate possible HSM or network
	using the HSM.		issue.
21	Password is all numeric and	Password all numeric	Provide non-numeric characters in the
	policy prohibits this		password
22	Password matches a	Password matches prohibited	Pick another password.
	prohibited pattern.	pattern	
901	Rejected execution (access	Service is not available. Please	The TCS license has been reached.
	queue is full).	try again later.	Contact the Telkom Technical Team.
100001	Password is incorrect.	Password incorrect, please try	Try another password.
		again.	
100002	Account is locked due to too	Account is locked. Please	Investigate the reason for the lock before
	many invalid password	contact customer care.	activating the account.
	attempts or on purpose by		
	customer care.		
100003	User/terminal is locked due	User is locked. Please contact	Investigate the reason for the lock before
	to too many invalid password	customer care.	activating the terminal.
	attempts.		
100004	Terminal type supplied does	Unable to log in with the	Try a different terminal type.
	not match the one defined in	supplied terminal type.	
	the password policy.		
100005	User/terminal not found	Account not found. Please	Register user/terminal.
		contact customer care to	
		register.	
100006	User/terminal is already in	User already in session.	Wait for other user/terminal to complete
	session.		the transaction.
100051	Invalid OTP	Invalid OTP	Request a new OTP and try again
100098	App version error	You must download new app	Redirect the user to appstore



100099	Common authentication	You've entered an invalid	Action depends on the exact error. Please
	error used for secure	mobile number or PIN. Try	see the logs for the exact error code.
	environments where the	again?	
	exact nature of the error		
	must be hidden to prevent		
	against security threats.		
100105	User/terminal is already in a	User already in a web session.	Wait for the other user/terminal to
	web session.		complete the web session.
100110	Source plan error. The source	System error. Please contact	Determine if the source plan is supposed
	account belongs to an	customer support.	to be prevented from performing this
	unauthorized plan (P2P).		transaction before arranging to have the
			source plan authorized.
100111	The entered amount is below	Amount entered is too low.	Enter a higher amount.
	the minimum amount for the		
	selected brand.		
100112	Source limit problem for the	Source limit problem	Increase the limit for the source or wait
	source velocity control.		for a new limit cycle (next day)
100113	The entered short code is not	Invalid entry. Please try again	Account does not have the
	authorized for use with this	or contact customer support.	privilege/access role for this service. This
	account.		is most likely correct as configured.
100114	Payment to self is not	You are not allowed to perform	Payment to self is prevented. This is most
	authorized.	this transaction.	likely correct as configured.
100115	The maximum number of	You have exceeded the	Customer must wait until the following
	daily transactions (wallet	maximum number of daily	day to try this transaction.
	limit) is reached.	transactions allowed for your	
		account.	
100116	The payment system is	The payment system is	Check the network connection and
	unavailable.	unavailable. Please try again	inquire about the availability of the 3rd
		later.	party system in the context of this
			transaction.



		There is a problem looking up	Add the subscriber to the lookup table.
lo	ookup table.	your number. Please try again	
		later.	
100118 R	Rejected execution (access	Service is not available. Please	The TCS license limit has been reached.
q	queue is full)	try again later.	
100119 T	he source payment system	System error. Please contact	The source for the service class for the
is	s undefined.	customer support.	transaction type is misconfigured.
100120 D	Duplicate transaction	A duplicate transaction was	Duplicate transaction was prevented as
d	letected (two consecutive	detected.	configured.
ic	dentical transactions).		
100121 B	Bill underpayment is not	Bill underpayment not	Bill underpayment is not permitted as
	illowed.	permitted. Please try again.	configured.
100100	S.II.	· · · ·	_
	Bill overpayment is not	Bill overpayment not	Bill overpayment is not permitted as
а	illowed.	permitted. Please try again.	configured.
100123 T	he maximum daily number	You have exceeded your	Customer must wait until the following
0	of transactions (wallet limit)	maximum allowed number of	day to try this transaction.
h	nas been reached.	daily transactions.	
100124 T	he account information is	This account information is not	Complete account registration.
n	not registered.	registered. Please complete	
		registration or contact	
		customer care.	
100125 T	he account information is	This account information is not	Customer care must verify the account.
n	not verified.	verified. Please contact	
		customer care.	
100126 T	he bill information not	You have not registered for this	Customer must register for this service
r	egistered.	service. Please register your bill	before using it.
		first.	



100127	The agent/initiator location is	Transaction rejected due to	Agent must move into the permitted
	rejected (geolock).	restriction on agent location.	location and try again.
	Agent is attempting to		
	perform a transaction is in a		
	location that is not		
	permitted. This can also occur		
	if the cell tower location		
	cannot be determined.		
100128	The client/recipient location	Transaction rejected due to	Subscriber must move into the permitted
	is rejected (geolock).	restriction on subscriber	location and try again.
		location.	
	Subscriber is partaking in a		
	transaction in a restricted		
	location. This can also occur if		
	the cell tower location cannot		
	be determined.		
100129	Supplied billing account	Incorrect billing length or	Customer must enter the correct billing
	number does not match the	format.	length or format.
	billing account number		
	criteria.		
100130	Msave cannot be completed.	MSave operation cannot be	Check logs.
		completed.	
	Msave amount is greater		
	than the original amount, or		
	another error has occurred.		



100131	Product does not exist for the	You have entered an invalid	Customer must choose another amount.
	specified brand.	amount.	
	It is likely that the		
	configuration is correct;		
	however, it is possible that		
	the customer has chosen an		
	amount that is not permitted		
	and there is no associated		
	product with it.		
100132	The maximum daily sales	You have reached the	Customer should try again the next day.
	order amount has been	maximum daily sales order	
	reached for the requested	amount.	
	service.		
100133	The maximum monthly sales	You have reached the	Customer should try again the next
	order amount has been	maximum monthly sales order	month.
	reached for the requested	amount.	
	service.		
100134	The maximum weekly sales	You have reached the	Customer should try again the next week.
	order amount had been	maximum weekly sales order	
	reached for the requested	amount.	
	service.		
100135	TAC provided by the	Invalid or expired TAC provided	Customer should obtain another TAC and
	transaction initiator is invalid	by transaction initiator.	try again.
	or has expired.		
100136	TAC provided by the	Invalid or expired TAC provided	Recipient should obtain another TAC and
	transaction recipient is invalid	by transaction recipient.	try again.
	or has expired.		
100137	The account status is	The recipient account is	Investigate the reason for the suspended
	"suspended".	suspended.	status before activating the account.
	For information on account		



	status, see the Customer Service User Guide.		
100138	The account status is	The recipient account is	Investigate the reason for the
	"terminated".	terminated.	termination status before activating the
			account.
	For information on account		
	status, see the Customer		
	Service User Guide.		
100139	The account status is "non-	The recipient account is not	Investigate the reason for the non-active
	active".	active.	status before activating the account.
	For information on account		
	status, see the Customer		
	Service User Guide.		
100140	Problem with the sender limit	The sender has exceeded his	Increase the sender limit or wait for the
	velocity check.	maximum allowed amount	next cycle (next day).
100141	Payment system parameter	System error. Please try again.	System is misconfigured. Contact Telepin.
	checks failed.		
100142	A brand matrix error	You cannot perform this	For information on brand matrices
	occurred. There is no brand	transaction from this account.	contact Telkom Customer Care.
	matrix relationship defined		
	between two parties.		
100143	The user entered a bill	You entered a bill account	Customer must enter the correct bill
	account number that was too	number that was too short.	account number.
	short.		
100144	The user entered a bill	You entered a bill account	Customer must enter the correct bill
	account number that was too	number that was too long.	account number.
	long.		



account number that did not meet the exact length requirement. 100146 The user entered a bill account number. 100147 The user entered a negative number for bill payment (for example, -25). 100148 The bank account is not defined. 100149 The payment system learning algorithm is disabled or the payment system is not defined for the subscriber. (When there is more than one node; the first time a subscriber accesses the system, the appropriate node must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) 100150 The account has been automatically marked as a demand for a bill payment meet the correct bill account number. Customer must enter a positive bill account amount. Customer must enter a positive bill account amount. Customer must register a bank account. Customer must register a bank account account and party system. Then contact the 3rd party system. Then contact the 3rd party system to determine why the customer was not found on the 3rd party system.	100145	The user entered a bill	You entered a bill account	Customer must enter the correct bill
requirement. The user entered a bill account that was not numeric. The user entered a negative number for bill payment (for example, -25). The bank account is not defined. The payment system learning algorithm is disabled or the payment system is not defined for the subscriber. (When there is more than one node; the first time a subscriber accesses the system, the appropriate node must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) The account has been automatically marked as Touth of the subscriber account and non-numeric bill account format. Customer must enter the correct bill account format.		account number that did not	number that does not meet the	account number.
100146 The user entered a bill account that was not numeric. 100147 The user entered a negative number for bill payment (for example, -25). 100148 The bank account is not defined. 100149 The payment system learning algorithm is disabled or the payment system is not defined for the subscriber. (When there is more than one node; the first time a subscriber accesses the system, the appropriate node must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) 100150 The account that was not number. You entered a non-numeric bill account format. Customer must enter the correct bill account format.		meet the exact length	exact length requirement.	
account that was not numeric. 100147 The user entered a negative number for bill payment (for example, -25). 100148 The bank account is not defined. 100149 The payment system learning algorithm is disabled or the payment system is not defined for the subscriber. (When there is more than one node; the first time a subscriber accesses the system, the appropriate node must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) 100150 The account has been automatically marked as You entered a negative amount. Customer must enter a positive bill account amount. Customer must register a bank account. Customer must register a bank account. Consult the logs to determine the 3rd party system. Then contact the 3rd party system to determine why the customer was not found on the 3rd party system.		requirement.		
numeric. The user entered a negative number for bill payment (for example, -25). The bank account is not defined. The payment system learning algorithm is disabled or the payment system is not defined for the subscriber. (When there is more than one node; the first time a subscriber accesses the system, the appropriate node must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) The account anount. Customer must register a bank account. Customer must register a bank account. Customer must register a bank account. Consult the logs to determine the 3rd party system. Then contact the 3rd party system to determine why the customer was not found on the 3rd party system.	100146	The user entered a bill	You entered a non-numeric bill	Customer must enter the correct bill
100147 The user entered a negative number for bill payment (for example, -25). 100148 The bank account is not defined. 100149 The payment system learning algorithm is disabled or the payment system is not defined for the subscriber. (When there is more than one node; the first time a subscriber accesses the system, the appropriate node must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) 100150 The account has been automatically marked as You entered a negative amount. Customer must enter a positive bill account and an encount. Customer must register a bank account. Customer must register a bank account. Customer must register a bank account. Consult the logs to determine the 3rd party system. Then contact the 3rd party system to determine why the customer was not found on the 3rd party system.		account that was not	account number.	account format.
number for bill payment (for example, -25). 100148 The bank account is not defined. 100149 The payment system learning algorithm is disabled or the payment system is not defined for the subscriber. (When there is more than one node; the first time a subscriber accesses the system, the appropriate node must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) 100150 The account has been automatically marked as No bank account. No bank account. Customer must register a bank account. Consult the logs to determine the 3rd party system. Then contact the 3rd party system to determine why the customer was not found on the 3rd party system.		numeric.		
example, -25). 100148 The bank account is not defined. No bank account. Customer must register a bank account.	100147	The user entered a negative	You entered a negative amount	Customer must enter a positive bill
The bank account is not defined. No bank account. Customer must register a bank account. Customer must register a bank account. Consult the logs to determine the 3rd party system is disabled or the payment system is not defined for the subscriber. (When there is more than one node; the first time a subscriber accesses the system, the appropriate node must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) The account has been automatically marked as No bank account. Customer must register a bank account. Consult the logs to determine the 3rd party system. Then contact the 3rd party system to determine why the customer was not found on the 3rd party system.		number for bill payment (for	for a bill payment. Enter a	account amount.
defined. The payment system learning algorithm is disabled or the payment system is not defined for the subscriber. (When there is more than one node; the first time a subscriber accesses the system, the appropriate node must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) The account has been automatically marked as System error. Please contact consult the logs to determine the 3rd party system. Then contact the 3rd party system to determine why the customer was not found on the 3rd party system. Investigate reason for the dormant status before activating account.		example, -25).	positive amount.	
The payment system learning algorithm is disabled or the payment system is not defined for the subscriber. (When there is more than one node; the first time a subscriber accesses the system, the appropriate node must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) The account has been automatically marked as System error. Please contact consult the logs to determine the 3rd party system. Then contact the 3rd party system to determine why the customer was not found on the 3rd party system. Investigate reason for the dormant status before activating account.	100148	The bank account is not	No bank account.	Customer must register a bank account.
algorithm is disabled or the payment system is not defined for the subscriber. (When there is more than one node; the first time a subscriber accesses the system, the appropriate node must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) The account has been automatically marked as customer support. party system. Then contact the 3rd party system to determine why the customer was not found on the 3rd party system. Investigate reason for the dormant status before activating account.		defined.		
payment system is not defined for the subscriber. (When there is more than one node; the first time a subscriber accesses the system, the appropriate node must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) The account has been automatically marked as system to determine why the customer was not found on the 3rd party system. Investigate reason for the dormant status before activating account.	100149	The payment system learning	System error. Please contact	Consult the logs to determine the 3rd
defined for the subscriber. (When there is more than one node; the first time a subscriber accesses the system, the appropriate node must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) The account has been automatically marked as dormant account status. was not found on the 3rd party system. Investigate reason for the dormant status before activating account.		algorithm is disabled or the	customer support.	party system. Then contact the 3rd party
(When there is more than one node; the first time a subscriber accesses the system, the appropriate node must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) 100150 The account has been automatically marked as dormant account status.		payment system is not		system to determine why the customer
one node; the first time a subscriber accesses the system, the appropriate node must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) The account has been automatically marked as Transaction rejected due to before activating account.		defined for the subscriber.		was not found on the 3rd party system.
one node; the first time a subscriber accesses the system, the appropriate node must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) The account has been automatically marked as Transaction rejected due to before activating account.				
subscriber accesses the system, the appropriate node must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) The account has been automatically marked as Transaction rejected due to before activating account.		(When there is more than		
system, the appropriate node must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) 100150 The account has been automatically marked as dormant account status. System, the appropriate node must be found. Investigate reason for the dormant status before activating account.		one node; the first time a		
must be found. The learning algorithm stores it to reduce lookup overhead for future requests.) 100150 The account has been automatically marked as Transaction rejected due to dormant account status. Defore activating account.		subscriber accesses the		
algorithm stores it to reduce lookup overhead for future requests.) The account has been automatically marked as dormant account status. Investigate reason for the dormant status before activating account.		system, the appropriate node		
lookup overhead for future requests.) 100150 The account has been automatically marked as dormant account status. Investigate reason for the dormant status before activating account.		must be found. The learning		
requests.) 100150 The account has been automatically marked as Transaction rejected due to automatically marked as dormant account status. Description: Investigate reason for the dormant status before activating account.		algorithm stores it to reduce		
100150The account has been automatically marked asTransaction rejected due to dormant account status.Investigate reason for the dormant status before activating account.		lookup overhead for future		
automatically marked as dormant account status. before activating account.		requests.)		
	100150	The account has been	Transaction rejected due to	Investigate reason for the dormant status
damaget Damaget accounts		automatically marked as	dormant account status.	before activating account.
dormant. Dormant accounts		dormant. Dormant accounts		
are not permitted to perform		are not permitted to perform		
this transaction.		this transaction.		



100151	A default bank account or	Default bank account or credit	Customer must register a bank account
	credit card does not exist.	card does not exist.	or credit card (depends on the use case).
100152	The bank account or credit	Bank account or credit card	Investigate if the merchant code
	card merchant code does not	merchant code does not exist	configured for this user has been entered
	exist.	or is entered incorrectly.	incorrectly.
		Contact customer care.	
100153	The recipient account is not	The recipient account is not	Recipient must submit the additional
	registered at the required	properly registered for this	information required.
	level for this transaction.	transaction.	
100154	The recipient account is not	The recipient account has not	MNO must verify the additional
	verified at the required level	been verified to permit this	information submitted by the recipient.
	for this transaction.	transaction.	
100155	The user does not have the	You are not authorized to	Account does not have the
	appropriate privileges for the	perform this transaction.	privilege/access role for the product
	action.		associated with the service. This is most
			likely correct as configured. If not then
			the user may need to use a different
			access role
100156	The initiator or recipient	The amount exceeds the	The initiator should try with a lesser
	accumulator limit was	initiator or recipient's limit.	amount or try again the next day.
	exceeded (e.g. Cash-In/Out,	Please try with a lower amount.	
	P2P).		
100157	The user has not set the	Unable to perform transaction.	The user needs to set the secret word to
	secret word, which is marked	Please set your secret word	proceed.
	as mandatory for this	first.	
	transaction.		
100158	Unique reference null but	Unique reference is null	API caller must provide a non- null
	must be provided (it is		unique reference.
	mandatory).		
100159	Unique reference is already	Unique reference already used	API caller must provide a unique
	used.		reference that has not been used before.



100161	Cannot change the	Cannot change the transaction	Certain transactions cannot be posted.
	transaction to POSTED	to POSTED	Consult the logs
100162	Cannot change the	Cannot change the transaction	Certain transactions cannot be declined.
	transaction to DECLINED	to DECLINED	Consult the logs.
100165	Source AML is not WHITE	Cannot execute this transaction	No action
100166	Source AML is BLACK	Cannot execute this transaction	No action
100167	Destination AML is not	Cannot execute this transaction	No action
	WHITE		
100168	Destination AML is BLACK	Cannot execute this transaction	No action
100170	Sales order for refund was	Unable to perform refund,	Customer must specify an existing sales
	not found.	sales order not found.	order.
100171	Sales order did not originate	Unable to perform refund,	If this transaction requires a refund, it
	with the person attempting	original transaction not	must be done by the originator or by
	to perform a refund and	performed by you.	customer care.
	hence is not permitted.		
	A customer who did not		
	originate the sales order is		
	attempting to refund a		
	transaction.		
100172	Sales order is not marked as	Unable to perform refund,	Customer care must determine why the
	posted and cannot be	original transaction not	original transaction is not Posted (PST).
	refunded.	completed successfully.	
100173	Sales order already refunded.	Unable to perform refund,	No action required.
		original transaction already	
		refunded.	
100174	Refund request not pending	Unable to execute refund	Cannot execute a refund request that is
		request (not pending)	not pending.
100175	Refund request already	Refund request already	Cannot execute a refund request twice.
	executed	executed	



100181	Pinless payment	Pinless payment unauthorized	User must use payment with pin, or
	unauthorized		authorize pinless payment
100182	Pinless payment above limit	Pinless payment above limit	User must use payment with pin, or use a
			lower amount
100201	The transaction for this	The transaction for this refund	Customer must specify an existing
	rollback does not exist.	does not exist.	transaction.
	Applies to Cash-In/Out and		
	P2P.		
100202	The transaction for the	The transaction for this refund	Customer care must determine why the
	rollback was not posted.	was not completed	original transaction is not PST.
	Applies to Cash-In/Out, and	successfully.	
	P2P.		
100203	The transaction was rolled	The transaction was already	No action required.
	back already. Applies to Cash-	refunded.	
	In/Out, and P2P.		
100204	Agent is not an operator user.	You are not authorized to	This refund must be performed by
	Applies to Cash-In/Out, and	perform this refund.	customer care.
	P2P.		
100205	The account for the rollback	The account that benefits from	No action required.
	does not exist. Applies to	this rollback does not exist.	
	Cash-In/Out, and P2P.		
	The customer associated with		
	the original transaction		
	cannot be found, so the		
	refund cannot be issued.		
100206	The customer is not active.	The account that benefits from	No action required.
	Applies to Cash-In/Out, and	this rollback is not active.	
	P2P.		
	The customer associated with		
	the original transaction is not		



	active, so the refund cannot be issued.		
100207	Accounts limit error. Applies to Cash- In/Out, and P2P. The rollback initiator or the customer associated with the original transaction has reached the limit.	Either your account or the one that benefits from this rollback has reached their account limit.	Try the rollback on another day.
100208	The transfer ID for the original transaction does not exist. Applies to Cash-In/Out, and P2P.	Transaction cannot be refunded, contact Customer Care.	Investigate logs of the original transaction to see why a transfer ID is missing.
100209	Insufficient funds for rollback. Applies to Cash-In/Out, and P2P.	The rollback cannot be performed due to your lack of necessary funds.	Customer must obtain more funds in his or her wallet before attempting the refund.
100210	The destination account cannot be found. Applies to Cash-In/Out, and P2P. The customer associated with the original transaction cannot be found, so the refund cannot be issued.	The account that benefits from this rollback does not exist.	No action required.
100211	The transaction was not authorized. Applies to Cash-In/Out, and P2P.	You are not authorized to perform this refund.	The refund must be performed by customer care.



	The rollback initiator may not		
	have the proper privilege to		
	perform this refund.		
100213	Transfer to self is not	You are not allowed to perform	No action required.
	permitted. Applies to Cash-	this transaction.	
	In/Out, and P2P.		
	Initiators cannot transfer		
	cash to themselves.		
100216	The recipient's cash-in limit	The amount exceeds the	The initiator should try the transaction
	was exceeded. Applies to	recipient's limit. Please try with	with a lesser amount or try it again the
	Cash-In/Out, and P2P.	a lower amount.	next day.
100217	The destination user does not	The destination user does not	Customer should verify the input.
	exist. Applies to Cash-In/Out,	exist.	
	and P2P.		
	The destination terminal/user		
	could not be found.		
100218	The destination user is	The destination user does not	Customer should verify the input.
100210	incorrect. Applies to Cash-	exist.	customer should verify the input.
		exist.	
	In/Out, and P2P.		
	-		
	The destination terminal/user		
	could not be found.		
100301	Agent limit exceeded	You have exceeded your	Try again when agent limit is renewed.
	(mPayment transfer).	mPayment transfer limit.	
100302	Not enough credit	You have exceeded your	Add credit to the account.
	(mPayment transfer).	mPayment transfer credit.	
100306	Account does not exist	The mPayment transfer	No action required.
	(mPayment transfer).	account does not exist.	



100307	The brand does not exist	You have entered an invalid	Try again with a valid brand.
	(mPayment transfer).	amount.	
100308	The amount is less than the	The mPayment transfer	Try again with a higher amount.
	required minimum	amount is less than the	
	(mPayment transfer).	required minimum.	
100309	The amount is more than the	The mPayment transfer	Try again with a lower amount.
	permitted maximum	amount is more than the	
	(mPayment transfer).	allowed minimum.	
100411	The sales order PIN for the	The sales order PIN does not	No action required.
	rollback does not exist.	exist.	
100417	The mobile ID for the rollback	The Mobile ID for the sales	No action required.
	does not exist.	order rollback does not exist.	
100418	The mobile number does not	The mobile number for the	No action required.
	exist.	sales order rollback does not	
		exist.	
100421	The refund period has	The refund period has expired.	No action required.
	expired.		
100424	The sales order for the	The sales order for the rollback	No action required.
	rollback does not exist.	does not exist.	
100425	The refund was already made	The refund was already made	No action required.
	for the sales order rollback.	for the sales order rollback.	
100426	The rollback sales order	The refund confirmation	Recheck the refund confirmation number
	confirmation number does	number does not match.	and try again.
	not match.		
100428	The brand or amount for the	You have entered an invalid	Customer care should determine the
	sales order rollback does not	amount.	cause from the logs.
	exist.		
100429	The sales order rollback	The refund has failed. Please	Customer care should determine the
	cannot be refunded.	contact customer care.	cause from the logs



order rollback has expired. 100431 The amount for the sales order rollback was declined. 100432 Rollback mSave must be done first. 100433 The payment system for the rollback does not exist. 100434 The rollback payment system is not supported. 100435 The rollback was declined. 100436 Negative rollback declined. 100437 The rollback has not been completed because it is in the doubt state. 100438 The rollback has not been completed because it is in the doubt state. 100439 The rollback was declined. 100430 Regulated Rollback was declined. 100431 Regulated Rollback was declined. 100432 Rollback was declined. 100433 The rollback was declined. 100435 The rollback was declined. 100436 Regulated Rollback was declined. 100437 The rollback has not been completed because it is in the doubt state. 100438 The rollback was declined. 100439 Regulated Rollback was declined. 100439 Regulated Rollback was declined Rollback was declined due to imits (account/group/layer). 100440 Unable to rollback. 100440 Unable to rollback. 100450 The rollback was declined. 100460 Check the logs for the reason of the rollback failure	100430	The grace period for the sales	The grace period for the sales	No action required.
order rollback was declined. 100432 Rollback mSave must be done first. 100433 The payment system for the rollback does not exist. 100434 The rollback payment system is not supported. 100435 The rollback was declined. 100436 Negative rollback declined. 100437 The rollback declined. 100437 The rollback has not been completed because it is in the doubt state. 100438 The rollback was declined. 100439 The rollback was declined. 100430 The rollback was declined. 100431 The rollback was declined. 100432 The rollback was declined. 100433 The rollback declined. 100434 The rollback was declined. 100435 The rollback declined. 100436 Rollback was declined. 100437 The rollback has not been completed because it is in the doubt state. 100438 The rollback was declined. 100439 The rollback was declined. 100439 The rollback was declined Rollback was declined due to limits your limit restrictions. 100440 Unable to rollback. 100440 Unable to rollback. 10045 The results was declined to rollback. 10046 Check the logs for the reason of the rollback failure		order rollback has expired.	order rollback has expired.	
100432 Rollback mSave must be done first. The refund has failed. Please contact customer care. This transaction was part of an mSave transaction, which must be rolled back first. 100433 The payment system for the rollback does not exist. The refund has failed. Please contact Telepin for further action. 100434 The rollback payment system is not supported. The rollback was declined. The rollback was declined. The rollback was declined. The rollback was declined. The rollback value is less than 0 and system does not allow negative rollbacks. The rollback has not been completed because it is in the doubt state. The rollback was declined. Rollback was declined. Contact Telkom Customer Care for further action. Do not use a negative value for the rollback value. Contact Telkom Customer Care for further action. Rollback was declined. Contact Telkom Customer Care for further action. Rollback was declined due to your limit restrictions. Reduce rollback amount or try again when limits have been reset. Check the logs for the reason of the rollback failure	100431	The amount for the sales	The amount for the sales order	No action required.
first. contact customer care. transaction, which must be rolled back first. 100433 The payment system for the rollback does not exist. transaction, which must be rolled back first. Contact Telepin for further action. The rollback payment system is not supported. The rollback was declined. The rollback was declined. The rollback was declined. The rollback was declined. The rollback value is less than 0 and system does not allow rollback value. The rollback value. The rollback value. The rollback value. Contact Telkom Customer Care for further action. Contact Telkom Customer Ca		order rollback was declined.	rollback was declined.	
100433 The payment system for the rollback does not exist. 100434 The rollback payment system is not supported. 100435 The rollback was declined. 100436 Negative rollback declined. 100437 The rollback has not been completed because it is in the doubt state. 100438 The rollback was declined. 100439 The rollback was declined. 100439 The rollback was declined Rollback Reduce rollback amount or try again when limits have been reset. 100440 Unable to rollback. Unable to rollback Check the logs for the reason of the rollback failure	100432	Rollback mSave must be done	The refund has failed. Please	This transaction was part of an mSave
The payment system for the rollback does not exist. The refund has failed. Please contact Telepin for further action. The rollback payment system is not supported. The rollback was declined. The rollback was declined. The rollback was declined. The rollback was declined. The rollback value is less than 0 and system does not allow negative rollbacks. The rollback has not been completed because it is in the doubt state. The rollback was declined. Rollback was declined. The rollback was declined. The refund has failed. Please contact Customer Care for further action. Contact Telkom Customer Care for further action. The rollback was declined. Rollback was declined. Contact Telkom Customer Care for further action. Contact Te		first.	contact customer care.	transaction, which must be rolled back
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is not supported. 100435 The rollback was declined. The rollback value is less than 0 and system does not allow negative rollbacks. The rollback has not been completed because it is in the doubt state. The rollback was declined. Rollback was declined. Contact Telkom Customer Care for further action. Contact Telkom Customer Care for further action. The rollback was declined. Rollback was declined due to further action. Reduce rollback amount or try again when limits have been reset. Check the logs for the reason of the rollback failure		rollback does not exist.	contact customer care.	
100435 The rollback was declined. The rollback was declined. This rollback was declined by another user (checker) 100436 Negative rollback declined. The rollback value is less than 0 and system does not allow rollback value. 100437 The rollback has not been completed because it is in the doubt state. 100438 The rollback was declined. Rollback was declined. Contact Telkom Customer Care for further action. 100439 The rollback was declined Rollback was declined due to further action. 100440 Unable to rollback. Unable to rollback Check the logs for the reason of the rollback failure	100434	The rollback payment system	The refund has failed. Please	Contact Telkom Customer Care for
100436 Negative rollback declined. The rollback value is less than 0 and system does not allow negative rollbacks. 100437 The rollback has not been completed because it is in the doubt state. 100438 The rollback was declined. Rollback was declined. Rollback was declined due to limits (account/group/layer). Rollback was decliback Unable to rollback. Unable to rollback Do not use a negative value for the rollback was negative value for the rollback value. Contact Telkom Customer Care for further action. Reduce rollback amount or try again when limits have been reset. Check the logs for the reason of the rollback failure		is not supported.	contact customer care.	further action.
100436 Negative rollback declined. The rollback value is less than 0 and system does not allow negative rollbacks. 100437 The rollback has not been completed because it is in the doubt state. 100438 The rollback was declined. Rollback was declined. Rollback was declined due to limits (account/group/layer). 100440 Unable to rollback. The rollback declined. The rollback value. Do not use a negative value for the rollback value. Contact Telkom Customer Care for further action. Reduce rollback amount or try again when limits have been reset. Check the logs for the reason of the rollback failure	100435	The rollback was declined.	The rollback was declined.	This rollback was declined by another
and system does not allow negative rollbacks. The rollback has not been completed because it is in the doubt state. The rollback was declined. Rollback was declined. Contact Telkom Customer Care for further action. Contact Telkom Customer Care for further action. Contact Telkom Customer Care for further action. Rollback was declined. Rollback was declined due to ged due to limits your limit restrictions. (account/group/layer). Unable to rollback. Unable to rollback Check the logs for the reason of the rollback failure				user (checker)
negative rollbacks. The rollback has not been completed because it is in the doubt state. The rollback was declined. Rollback was declined. Contact Telkom Customer Care for further action. Contact Telkom Customer Care for further action. Contact Telkom Customer Care for further action. Rollback was declined due to further action. Reduce rollback amount or try again when limits have been reset. (account/group/layer). Unable to rollback. Unable to rollback Check the logs for the reason of the rollback failure	100436	Negative rollback declined.	The rollback value is less than 0	Do not use a negative value for the
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completed because it is in the doubt state. 100438 The rollback was declined. Rollback was declined. Contact Telkom Customer Care for further action. The rollback was declined Rollback was declined due to due to limits (account/group/layer). Rollback was declined due to your limit restrictions. When limits have been reset. Check the logs for the reason of the rollback failure			negative rollbacks.	
doubt state. 100438 The rollback was declined. Rollback was declined. Contact Telkom Customer Care for further action. 100439 The rollback was declined due to limits your limit restrictions. When limits have been reset. 100440 Unable to rollback. Unable to rollback Check the logs for the reason of the rollback failure	100437	The rollback has not been	The refund has failed. Please	Contact Telkom Customer Care for
100438The rollback was declined.Rollback was declined.Contact Telkom Customer Care for further action.100439The rollback was declined due to limits due to limits (account/group/layer).Rollback was declined due to when limits have been reset.100440Unable to rollback.Unable to rollbackCheck the logs for the reason of the rollback failure		completed because it is in the	contact customer care.	further action.
100439 The rollback was declined due to due to limits due to limits (account/group/layer). 100440 Unable to rollback. In the rollback was declined due to due to limits advantable pour limit restrictions. Check the logs for the reason of the rollback failure		doubt state.		
100439The rollback was declined due to limits (account/group/layer).Rollback was declined due to your limit restrictions.Reduce rollback amount or try again when limits have been reset.100440Unable to rollback.Unable to rollbackCheck the logs for the reason of the rollback failure	100438	The rollback was declined.	Rollback was declined.	Contact Telkom Customer Care for
due to limits (account/group/layer). 100440 Unable to rollback. Vour limit restrictions. when limits have been reset. Check the logs for the reason of the rollback failure				further action.
(account/group/layer). 100440 Unable to rollback. Unable to rollback Check the logs for the reason of the rollback failure	100439	The rollback was declined	Rollback was declined due to	Reduce rollback amount or try again
100440 Unable to rollback. Unable to rollback Check the logs for the reason of the rollback failure		due to limits	your limit restrictions.	when limits have been reset.
rollback failure		(account/group/layer).		
	100440	Unable to rollback.	Unable to rollback	Check the logs for the reason of the
				rollback failure
100441 Not the destination. You are not the destination of The rollback is configured to be done	100441	Not the destination.	You are not the destination of	The rollback is configured to be done
this transaction only by the destination.			this transaction	only by the destination.
100505 Sales request was not The sales request which you Ensure you are using a valid request ID.	100505	Sales request was not	The sales request which you	Ensure you are using a valid request ID.
defined. are searching for cannot be		defined.	are searching for cannot be	



		found	
100506	The maker of the sales	You must be the source	The maker of the sales request must
	request was not from the	account.	complete the task.
	source account.		
100507	The maker of the sales	You must be the destination	The checker of the sales request must
	request was not from the	account.	complete the task.
	destination account.		
100508	There is no source account	You must specify a source	Specify a source account.
	defined for the sales request.	account.	
100510	No source account exists for	There is no source account for	Use an account that exists
	the supplied phone number.	the phone number.	
100511	The source account for the	The source account does not	Use or create an account that exists
	sales request does not exist.	exist.	
100512	Sales request execution is	Sales request execution	This sales request cannot be executed by
	unauthorized.	unauthorized	the calling party. The sales request id
			being used must be incorrect.
100513	Sales request is in an invalid	Sales request cannot be	Check the state of the sales request.
	state.	executed	
100514	Sales request expired	Sales request expired	This sales request cannot be executed as
			it has expired. A new sales request must
			be created.
100550	Invalid pin length (off-net	Invalid PIN length.	Try again with a valid PIN length.
	redemption).		
100551	PIN does not exist (off-net	Invalid PIN.	Try again with a valid PIN.
	redemption).		
100552	PIN is not active (off-net	PIN not active.	No action required.
	redemption).		
100553	PIN password is incorrect	PIN password is incorrect.	Try again with a different PIN password.
	(off-net redemption).		
100554	PIN is not for the target	PIN cannot be sold for this	Try again using a different PIN.



	MSISDN (off- net	MSISDN.	
	redemption).		
100555	Networks mismatch (off-net	The agent and customer are	Ensure that the source and the
	redemption).	not part of the same network.	destination belong to groups which share
			the same network ID.
100556	The amount is set to zero	0 is an invalid amount for this	Ensure you are activating a valid Voucher
	(off-net redemption).	voucher.	PIN.
100557	Credit problem (off-net	Problem crediting account.	Please see TCS logs for a more detailed
	redemption).	Please contact provider.	reason.
100560	Voucher error other (voucher	No longer valid error code.	N/A
	redemption).		
100561	Voucher does not exist	The voucher does not exist or	No action required.
	(voucher redemption).	could not be found.	
100562	Voucher expired (voucher	The voucher has expired.	No action required.
	redemption).		
100563	Voucher is not active	The voucher is not active.	No action required.
	(voucher redemption).		
100564	Voucher batch is not active	The voucher batch or voucher	Ensure the voucher is valid.
	(voucher redemption).	is no longer active.	
100565	Voucher target error	Target specified does not exist	Try again using a different PIN.
	(voucher redemption).	OR pin that is being sold does	
		not belong to the user.	
100566	Voucher brand error.	Voucher brand not found or	Make sure the voucher brand is active.
		not active	
100567	Voucher redemption service	Voucher is redeemed by an	Make sure the voucher is redeemed by
	error	unauthorized service	the correct service, which is defined in
			the voucher brand.
100568	Voucher source MSISDN	The source MSISDN for the	Supply the correct source MSISDN.
	error. The source MSISDN	voucher is incorrect	
	supplied at redemption is		
	missing or does not match		



	the source MSISDN of the voucher.		
100570	Voucher is out of stock.	The voucher is out of stock.	No action required.
100571	Voucher QR generation error (invalid terminal ID).	Voucher QR generation error	Provide the correct terminal ID.
10572	Voucher QR generation error (invalid account ID).	Voucher QR generation error	Provide the correct account ID.
100601	Sales not authorized (credit transfer).	You have entered an invalid amount.	Try again with a valid amount.
100602	There is not enough credit for the credit transfer.	You do not have sufficient funds to perform this transaction.	Try again when more credit is available.
100605	The source account for the credit transfer does not exist.	Your account is inactive	Use a valid account.
100606	The destination account for the credit transfer does not exist.	The account you are transferring credit to does not exist	Create a new account or use an existing one.
100608	The daily seller limit has been exceeded for a credit transfer	You have exceeded your daily selling limit.	Try again the next day.
100610	A credit transfer to self is not allowed.	You cannot transfer credit to your own account.	No action required.
100615	The agent account for the mPayment does not exist.	The agent account does not exist.	Create a new account or use an existing one.
100616	The mobile number for the mPayment does not exist.	The mobile number does not exist.	Try again with a valid mobile number.
100617	An invalid amount was entered for an mPayment.	You entered an invalid amount.	Try again with a valid amount.
100700	The wallet for this sales order is disabled.	This wallet is disabled.	Enable the wallet.



100701	The account for the sales	The account does not exist.	Create a new account or use an existing
	order does not exist.		one.
100702	There is not enough credit for	You do not have enough credit.	Try again when more credit is available.
	the sales order.		
100787	This is a duplicate sales	No longer valid error code.	N/A
	transaction sales order.		
100788	The brand or the amount for	You have entered an invalid	Try again with a valid brand.
	the sales order does not	amount.	
	exist.		
100789	Other sales order database	An error has occurred during	Please contact Customer Care.
	error.	this transaction. Please contact	
		Customer Care	
100790	The amount of the sales	You entered an invalid amount.	Try again with a valid amount.
	order is outside of the flexible		
	limits.		
100791	The amount of the sales	You entered an invalid amount.	Try again with a valid amount.
	order does not align with a		
	flexible step value.		
100792	The amount of the sales	You entered an amount below	Try again with a valid amount.
	order is below the flexible	valid limit.	
	limits.		
100793	The amount of the sales	You entered an amount above	Try again with a valid amount.
	order is above the flexible	valid limit.	
	limits.		
101001	The beneficiary mobile	The beneficiary mobile number	Add a beneficiary mobile number to the
	number is missing.	is missing.	account.
101002	The customer mobile number	The customer mobile number is	Add the associated customer mobile
	is missing.	missing.	number when signing up a beneficiary.
101003	The beneficiary first name is	The beneficiary first name is	Add the beneficiary's first name to the
	missing.	missing.	account.
101004	The beneficiary last name is	The beneficiary last name is	Add the beneficiary's last name to the



	missing.	missing.	account.
101005	The beneficiary full name is	The beneficiary full name is	Add the beneficiary's full name to the
	missing.	missing.	account.
101006	The customer adding the	Customer not found.	Have the customer use the correct
	beneficiary does not exist.		MSISDN.
101007	The maximum number of	Maximum number of	Customer must remove an existing
	beneficiaries has been	beneficiaries has been reached.	beneficiary to add a new one.
	reached for this customer.		
101008	The beneficiary already	The beneficiary already exists.	No action required.
	exists.		
101009	The beneficiary date of birth	The beneficiary date of birth is	Add the beneficiary's date of birth to the
	is missing.	missing.	account.
101010	The beneficiary's operator	The beneficiary operator name	Add the beneficiary's operator name.
	name is null or empty.	is missing.	
101011	The beneficiary's billing	The beneficiary billing method	Add the beneficiary's billing method.
	method is null or empty.	is missing.	
101012	The beneficiary's billing	The beneficiary billing value is	Must be prepaid (PRE) or postpaid (PST)
	method is an invalid value.	invalid	
101013	The beneficiary's country ID	The beneficiary country Id is	Add beneficiary country ID
	is null or empty.	missing.	
101014	The beneficiary's nationality	The beneficiary Nationality ID is	Add beneficiary nationality ID
	ID is null or empty.	missing	
101015	Payee number was not	Payee number not found	Use a valid payee number (MSISDN).
	found.		
101016	Payee account is not active.	Payee account not active	Determine why the account is not active.
101017	The navee account and the	Dayon record not found	Customer should retry with the correct
101017	The payee account and the	Payee record not found	Customer should retry with the correct information.
	last 4 digits do not retrieve an		IIIIOI III duui.
101010	account.	Dayon Status is not setime	Determine why the reason status is used
101018	Payee bank card status is not	Payee Status is not active	Determine why the payee status is not
	active		active



101019	Bank card status is not active	Bank Account is not active	Determine why the bank card/account is
			not active
101020	Bank account trust is	Bank Account status error	Check the bank account trust status.
	"Uncategorized" or not		
	"White".		
101021	Bank card does not have the	Bank Account not permitted to	Determine why the bank card/account
	proper category value	be used	category value.
101022	Service is set to be used only	Service cannot be used by	No Action
	by the owner account.	payee only primary account	
		holder	
101023	The service can be used only	Service cannot be used by	No Action
	by the owner of the account.	payee only primary account	
		holder	
101024	Service is set up to be used	Service can only be used by	No Action.
	by different accounts.	Payee	
101025	Primary account is not active.	Primary account holder is not	Determine why the primary account
		active, service declined.	holder is not active.
101026	Bank card service is not found	Bank card Service status not	Add bank card service or activate bank
	or is inactive.	accepted	card service status to 'A'.
101027	Bank card is over daily	Bank card daily limit has been	Try again when the limit is reset.
	accumulated limit.	reached.	
101028	Bank card is over the	Bank card monthly limit has	Try again next month.
	accumulated monthly limit.	been reached.	
101029	Bank card expiry format is	Bank card expiry date is	Enter a valid expiry.
	incorrect.	incorrect.	
101030	Bank card has expired.	The bank card you are trying to	Use a different bank card.
		use has expired	
101031	Problem with the access role	Your access role could not be	Use an account with a valid role or assign
	for the account.	found	a valid role to the account.
101032	Adding a clerk error.	User not inserted	Check your data and try again.



101033	Deactivate Account MSISDN	The MSISDN you have provided	Use a valid MSISDN.
	parameter is invalid.	has been deactivated or is	
		invalid.	
101034	Deactivated Account MSISDN	The MSISDN you have provided	Use a valid MSISDN and valid account
	and Integration parameters	cannot be deactivated because	integration values.
	do not retrieve a valid	it has already been	
	account.	deactivated.	
101035	Invalid MSISDN for refund.	MSISDN you have provided is	Use a valid MSISDN.
		invalid for this refund	
101036	Invalid transaction ID for	Could not retrieve the	Use valid transaction ID.
	refund.	transaction with the ID	
		provided.	
101040	Reset user is not found.	The reset user cannot be	Use a valid user name.
		found.	
101041	The customer was not found	Couldn't get customer	Use a valid MSISDN and account
	when adding or removing a	information for customer	integration combination.
	sell relationship.	mobile number supplied.	
101042	The agent was not found	Could not find the account you	Use a valid MSISDN and account
	when adding a sell	are trying to set the	integration combination.
	relationship.	relationship for.	
101043	Update profile cannot find	Account could not be found	Use a valid MSISDN.
	the account that you wish to	using the MSISDN you	
	update.	provided.	
101044	Update profile could not	Could not update account,	Ensure all details are valid.
	validate the account you wish	please ensure your update data	
	to update.	is valid.	
101045	The user account that you are	Could not find the account you	Use a valid MSISDN.
	trying to disable was not	wish to disable.	
	found.		



101046	Could not find customer with	Users can't be deactivated	Use valid MSISDN and account
	supplied information.	because of the invalid supplied	integration values
		customer information	-
101047	The customer you are trying	Could not find the account you	Use valid MSISDN value.
	to remove was not found	are trying to remove.	
	using the provided MSISDN.		
101048	The customer you are trying	Could not find the account you	Use valid account integration value.
	to remove was not found	are trying to remove.	
	using the provided account		
	integration value.		
101049	Error occurred while trying to	Error in removing account	Internal function failure. Please contact
	remove the customer		Telepin.
101050	AML scan failure. Entity ID is	AML Scan Failed. Entity ID must	Provide the correct entity ID.
	null	not be null	·
101051	AML scan failure. Entity does	AML Scan Failed. Entity ID does	Provide the correct entity ID.
	not exist	not exist	·
101052	AML scan failure. Full name is	AML Scan Failed. Full name is	Provide the correct full name.
	null	null	
101053	AML scan failure. Country	AML Scan Failed. Country	Ensure that the country name is
	name is null	name must be supplied	populated.
101054	AML scan failure. Scan type is	The scan type that you are	Use a valid scan type (1 or 0).
	invalid	using is invalid.	3,750
101055	AML scan failure. MSISDN is	AML Scan Failed. Invalid	Ensure scan type and customer scan do
	invalid	MSISDN was supplied	not match
101056	AML scan failure. Scan could	AML Scan Failed. Beneficiary	Ensure that the scan type and the
10100	not find a beneficiary.	not found.	beneficiary scan are not the same.
101058	AML scan failure. Missing full	AML Full name not set	Add a full name.
101030	name	A THE FAIR HAITIE HOUSE	rida a fair flame.
101059	AML scan failure. Missing	AML Country name not set	Add the country name.
101033	Country Name	Aurie Country Haine Hot Set	naa tiic counti y name.
101061	Beneficiary brand is invalid.	Beneficiary Brand was not	Beneficiary brand needs to be
101001	Deficilitiary Draffu is Hivaliu.	Deficilitiary Drailu was HUL	Deficilitially braffic fleeds to be



		found	configured. Contact Telepin
101062	Beneficiary scan type is	Beneficiary scan type is	Scan type value must be set to 1
	invalid.	unsupported	(MSISDN) or 2 (SALES ORDER).
101063	Beneficiary MSISDN is invalid.	Beneficiary MSISDN is invalid	Use a valid MSISDN.
101064	Beneficiary sales order is invalid.	Beneficiary Sales order is invalid	Use a valid sales order.
101066	Beneficiary HUB is invalid.	Beneficiary Brand not configured	Please contact Telepin
101067	Beneficiary HUB MSISDN is invalid.	Beneficiary MSISDN is missing	Use a valid MSISDN.
101068	Beneficiary HUB scan type is	Beneficiary scan type	Scan type value must be set to 1
	invalid.	unsupported	(MSISDN) or 2 (SALES ORDER).
101069	Beneficiary HUB sales order is	Beneficiary Sales order is	Use a valid sales order.
	invalid.	invalid	
101070	Change Account Status	Account Not Found	Use a valid MSISDN.
	cannot find account.		
101071	Could not find the user.	User not found	Use a valid user name.
101072	Single call voucher failure.	No cards found four this	Use valid voucher values.
		voucher	
101073	Self Transfer failed.	Username has entered invalid	Internal logs must be consulted. Please
		number of parameter	contact Telepin
101074	Account to modify user limits	User not found	Use a valid user name.
	was not found.		
101075	Account is not allowed to be	Account cannot be modified	Use a different user to modify limits.
	modified because of owner	due to ownership restrictions	
	relationships.		
101076	AML status already verified.	Account status has already	No action is required.
		verified	



101077	Unable to change the	Cannot change language.	Ensure that the language exists and the
	language.	Please ensure you have the	privileges are present.
		correct privileges and language	
		exists.	
101078	Unable to activate the batch.	Batch activation failed	Contact Telepin to refer to internal logs.
101079	Invalid PIN ID.	Your pin was invalid	Use a valid PIN.
101080	PIN cannot be disabled due	Cannot disable pin. Status is	Ensure that the PIN ID and status are
	to and invalid status.	invalid to do this action.	correct and try again.
101081	Registering a bill failed	Could not find brand to register	Use a valid brand for registering a bill.
	because the brand is invalid.	this bill.	
101082	Failed to register a bill.	Registration from bill has failed	Contact Telepin.
101083	Failed to register a bill.	Bill registration failed.	Use a valid length as configured in the
101065	Minimum length was not	Minimum length not met.	web admin.
	met.	willimum length not met.	web aumin.
101004		Dill registration failed	Lice a valid langth or configured in the
101084	Failed to register a bill.	Bill registration failed.	Use a valid length as configured in the
	Maximum length was not	Maximum length was not met.	web admin.
	met		
101085	Failed to register a bill. Exact	Bill registration failed. Exact	Use a valid length as configured in the
	length was not met	length was not met.	web admin.
101086	Failed to register a bill	Bill registration failed. Bill must	Use numeric values.
	because non- numeric	be numeric.	
	characters were entered.		
101087	Failed to register a bill.	Bill registration failed. Offline	Add a biller to the offline bill bulk table.
	Offline bill bulk was not	bill bulk was not found.	
	found.		
101088	Authentication failure.	Password was invalid or could	Use a valid password.
		not be read.	
101110	Msave account registration	Account information not	Ensure that the account is verified.
	failure. Account is not	verified	
	verified.		



101111	Msave account registration	Account is already registered	No action is required.
	failure. Account is already registered.	for msave	
101112	Msave account registration	Account not registerd for	Register the account for mSave
101112	failure. Account is not	msave	negister the account for mouve
	registered for msave.	- Insure	
101113	Msave account registration	Invalid msave percent.	Enter a valid percent value.
	failure. Msave percent is	'	· ·
	invalid.		
101114	Msave account registration	Invalid msave parameters	Enter valid msave parameter.
	failure. Invalid msave		
	parameters		
101115	Msave account registration	Msave percent value is larger	Enter a valid msave percent.
	failure. Percent value is	than the allowed maximum.	
	greater than the maximum		
	allowed percent value.		
101116	Msave account registration	Msave value is smaller than the	Enter a valid msave fixed value.
	failure. Fixed value is less	minimum fixed value allowed.	
	than the minimum allowed		
	fixed value.		
101117	Msave account registration	Msave fixed amount is more	Enter a valid msave fixed value
	failure. Fixed value is greater	than maximum fixed amount	
	than the maximum allowed	allowed	
101110	fixed value.	Unable to register for meaus	Internal lags must be consulted Disease
101118	Msave account registration	Unable to register for msave. Please contact provider.	Internal logs must be consulted. Please contact Customer Care.
	failure (type 1)	·	
101119	Msave account registration	Unable to register for msave.	Internal logs must be consulted. Please
	failure. (type 2)	Please contact provider	contact Customer Care.
101120	Sales request failure. The	MSISDN supplied does not	Enter a valid source account MSISDN.
	source account could not be	match the request agent.	
	found.		



101121	Sales request failure. Client	Client interface not set	Enter a valid short code, destination, and
	interface is not set.		source for interface.
101122	Registration failure.	Information missing. Please	Internal logs must be consulted. Please
	Insufficient data (type 1).	ensure all mandatory data is	contact Customer Care.
		filled in.	
101123	Registration failure.	Information missing. Please	Internal logs must be consulted. Please
	Insufficient data (type 2).	ensure all mandatory data is	contact Customer Care.
		filled in.	
101124	Hub transaction failure.	Negative amount rejected.	Please contact Customer Care.
	Negative value supplied.	System does not allow for	
		negative values	
101125	Hub transaction failure.	Transaction ID supplied was not	Use a valid transaction ID.
	Transaction ID not found.	found.	
101126	Hub transaction failure.	The transaction number	Use a valid transaction ID.
	External system does not	supplied was invalid.	
	recognize the transaction ID.		
101127	Secret word failure.	Secret word requested failed.	Consult logs for further information.
		Please try again.	
101128	Authenticate Random Check	User name and MSISDN is	Use a valid MSISDN and random code
	failed.	invalid combination.	combination
101129	Username Check failure.	User name not found.	Use a valid username.
	Username not found.		
101130	Register Bank Card failure.	Unauthorized bank card.	Use a non-black or a grey listed bank
	Unauthorized bank card.		card.
101131	Register bank card failure.	Invalid prefix.	Ensure the BIN prefix and the bank card
	Invalid prefix.		PAN have the same prefix
101132	Register bank card failure.	BIN length does not match	Ensure the PAN length and the card BIN
	BIN length does not match	required length	length are equal
	specified length.		



101133	Register bank card failure.	Maximum number of cards that	Verify the account and ensure that the
	Maximum number of cards	can be unverified has been	maximum number of non-verified bank
	has been reached.	reached.	cards has not been reached.
101134	Register bank card failure.	Maximum cards reached for	No action required.
	Maximum number of cards	this account.	
	has been reached.		
101135	Register bank card failure.	Max uncategorized cards for	No action required.
	Maximum number of	this account have been	
	uncategorized cards has been	reached.	
	reached.		
101136	Register bank card failure.	Primary ID does not match the	Add primary ID for the account being
	Primary ID does not match	current account.	registered.
	the user.		
101137	Register bank card failure.	Maximum number of cards	No action required.
	Maximum number of cards	reached for this primary ID	
	has been reached for the		
	primary ID.		
101138	Register bank card failure.	Expiry date supplied is not in	Ensure the bank card expiry is in the
	Expiry date does not fit the	the valid format.	proper format MMYY.
	proper format		
101139	Register bank card failure.	Expiry date of the bank card is	Use another card.
	Expiry date is before the	before the allotted grace	
	grace period.	period.	
101140	Register bank card failure.	Bank card supplied matches	Use a valid card.
	Last digits do not exist.	another bankcard linked to this	
		account.	
101142	Register Payee failure.	Principal account not found	Use valid account credentials.
	Principal account not found.		
101143	Register Payee failure.	Principal account not matching	Ensure that the principal account
	Principal account does not	bank card account	matches the principal account for the
	match bank card account.		card.



101144	Register Payee failure.	You have reached the	Increase the maximum number of payees
	Maximum number of allowed	maximum number for payees	per card.
	payees for the unverified	for this unverified account.	
	principal account has been		
	reached.		
101145	Register Payee failure.	Maximum payee per card	Increase the maximum number of payees
	Maximum number of allowed	reached	per card.
	payees for this principal		
	account has been reached.		
101146	Register Payee failure.	Maximum card per payee	Increase the maximum number of cards
	Maximum number of cards	reached	per payee.
	per payee has been reached		
101147	Password reset failed	Password answers for reset	Set values for password answers (1, 2,
	because the 3 password	password challenge have not	and 3)
	answers were not populated.	been set.	
101148	Password reset failed due to	Password answer is incorrect.	Verify that the information is correct.
	incorrect attempt.		
101149	Terminate Account failure.	Could not find the account you	Use a valid MSISDN and account
	Account was not found.	wish to terminate	integration combination.
101150	Terminate Account failure.	Account which you are trying to	No action required.
	Account is already	terminate has already been	
	terminated.	terminated	
101151	Verify Account failure.	Account data failed to be	Consult logs for a more detailed error
	Various reasons will be	verified. Please contact your	description.
	posted to the logs.	provider	
101152	Update Bank Card Expiry	Expiry date is in an unknown	Dates need to be in the correct format.
	failure. Expiry date is in an	format. Please use valid format	
	unknown format.		
101153	Update Bank Card Expiry	The bank card you are trying to	No action required.
	failure. Bank card has expired	us has expired.	
101154	Bank card registration failure.	Card already exists	Use another card.



	Card already exists		
101158	Signup msisdn below min	Signup msisdn below min	Use correct msisdn
	length	length	
101159	Signup msisdn above max	Signup msisdn above max	Use correct msisdn
	length	length	
101160	USSD Location check time out	Location check has failed.	No action required.
		Please try again.	
101161	Signup On Demand is not	This service is unavailable.	Configure the service to use the sign up
	configured for the short code	Please ensure you are	on demand feature or ensure that you
	service.	registered to use this service.	are using the correct short code service.
101162	Signup On Demand failed	Please select another	Use a different user name or MSISDN.
	because the user already	username to sign up for this	
	exists in the system.	service.	
101163	Signup failed because user	Your user name contains	Ensure that the user name does not
	name contains an illegal	invalid characters. Please	include an illegal character '.'. For
	character.	ensure all characters are valid.	example: my.user
101164	Signup failed because the	Your signup has failed. Please	Ensure that the user exists in the table.
	user is not configured in	check with your provider to	
	SUBSCRIBERS_LOOKUP table	ensure you are eligible for this	
		service.	
101165	Signup failed because the	Your MSISDN does not match	Ensure that the user has a valid prefix in
	user does not match the	the prefix that is required.	the configuration: 'Server_Signup_Prefix'
	proper signup prefix.	Please ensure you are using the	
		right prefix.	
101166	Signup failed because exact	Your MSISDN does not meet	Ensure that the MSISDN has the exact
	length of MSISDN does not	the length required to sign up	length specified.
	match.	for this service.	
101167	Signup failed. Account	Failed to create new account.	Internal function failed. Please contact
	creation failed	Please contact your provider	Telepin



101168	Signup failed. User creation	Failed to create new user.	Internal function failed. Please contact
	failed	Please contact your provider	Telepin
101169	Registration failed due to an	Could not register your	Ensure you are using a valid primary ID.
	invalid primary ID.	account. Please check your	
		Primary ID to ensure it is	
		correct.	
101170	Signup failed because the	Please ensure that your user	Use a numeric username or change the
	user name is invalid.	name is numeric	Server_Signup_Numeric field to false.
101171	TAC was not found.	Password was not set for this	Ensure that you are using a valid user and
		user	TAC combination.
101172	TAC does not match the	User name password	Ensure that you are using a valid TAC for
	supplied user.	combination is invalid.	the selected user.
101173	TAC brand does not match	User name, password, and	Ensure that you are using a valid TAC
	the user and password	brand combination is invalid.	brand for the selected user and password
	combination supplied.		combination
101174	TAC expiry time is not set.	Password expiry was not set	Ensure you are setting the TAC expiry
			time.
101175	TAC has expired.	Password has expired	Reset your TAC and try again.
101177	Account creation failed	Could not create your account	Ensure that you are using a MSISDN that
	because the account already	because the account you are	does not exist or that the MSISDN
	exists.	trying to create already exists.	recycling is set to true
101178	Setting alias failed because	Alias name is longer than	Ensure that the alias meets the required
	the new alias is longer than	maximum characters allowed	maximum.
	the maximum allowance.		
101179	Setting alias failed because	Alias name already in use.	Ensure alias is a unique alias
	the new alias is already in		
	use.		
101182	AML Scan Alternate has failed	Sender full name must be filled	Ensure that the sender's full name is
	because the sender's full	in.	entered.
	name is null.		



101183	AML Scan Alternate has failed	Country name must be filled in.	Ensure that the sender's country name is
	because the sender's county		entered.
	name is null.		
101185	AML Scan Alternate has failed	Sender MSISDN was not found.	Ensure that the sender's MSISDN is
	because the sender's MSISDN		entered.
	was not found.		
101187	AML Scan Alternate has failed	AML Scan brand was not found.	Ensure that the AML_CHECK_BRAND is
	because the		
	AML_CHECK_BRAND was not		configured and exists in the system.
	found.		
101188	AML Scan Alternate has failed	Invalid beneficiary full name	Ensure that the beneficiary's full name is
	because the beneficiary's full		entered.
	name is null.		
101189	AML Scan Alternate has failed	Invalid beneficiary country	Ensure beneficiary country name is not
	because the beneficiary's	name	null
	country is null.		
101200	Authentication failed because	Temporary password expired.	Reset the password of the user and try
	the temporary password has	Please request a new	again
	expired.	temporary password.	
101201	Authentication failed because	You do not have the	Register the user to have the proper
	the registration level was not	registration level required for	registration level.
	met.	this transaction.	
101202	Authentication failed because	You do not have the minimum	Register the user to have the proper
	the minimum registration	registration level required for	registration level.
	level was not met.	this transaction.	
101211	The limit for the source	The source account has	Ensure that the source account has not
	account has been exceeded.	reached its limit. Please try	reached its limit.
		again at a later date.	
101212	The limit for the destination	The destination account has	Ensure that the destination account has
	account has been exceeded.	reached its limit. Please try	not reached its limit.
		again at a later date.	



101213	Transaction initiator or	Transaction initiator account or	Please check the source account and the
	source wallet is disabled.	initiator source wallet is	wallet status and try again.
		disabled.	
101214	Transaction recipient or	Transaction recipient account	Please check the destination account and
	destination wallet is disabled.	or recipient destination wallet	the wallet status and try again.
		is disabled.	
101220	Registration failed. Auto-	You have exceeded your auto	Enter a valid value.
	sweep lower limit was invalid	top-up limit.	
	during registration.		
101221	Registration failed. An invalid	You have entered an invalid	Try again with a valid amount.
	auto top-up amount was	auto top-up amount.	
	entered.		
101222	Registration failed. Auto	Invalid upper auto-sweep out	Enter a valid value.
	sweep upper limit was	limit.	
	invalid during registration.		
101223	Registration failed. Auto-	Invalid auto-sweep out	Enter a valid value.
	sweep amount limit was	amount.	
	invalid during registration.		
101224	Registration failed. Invalid	You entered an invalid date of	Enter a valid birth date.
	birth date was entered.	birth.	
101225	Registration failed. An invalid	You entered an invalid email	Enter a valid email address.
	email address was entered.	address.	
101226	Registration failed. An invalid	You entered an invalid	Enter a valid nationality.
	nationality was entered.	nationality.	
101227	Registration failed. An invalid	You entered an invalid country	Enter a valid country of birth.
	country of birth was entered.	of birth.	
101228	Registration failed. An invalid	You entered an invalid country	Enter a valid country of residence.
	country of residence was	of residence.	
	entered.		
101229	Registration failed. An invalid	You entered an invalid area of	Enter a valid area of interest.
	area of interest.	interest.	



101230	Register account failed.	Invalid auto sweep in flag	Enter a valid (0 or 1) value.
	Invalid auto sweep in flag	value.	
	value.		
101231	Register account failed.	Invalid auto sweep out flag.	Enter a valid (0 or 1) value.
	Invalid value for auto-sweep.		
101232	Register account failed.	Value is greater than auto	Use a valid value.
	Invalid value for lower limit.	sweep out upper limit.	
101233	Register account failed.	Value is greater than auto	Use a valid value.
	Invalid value for auto-sweep	sweep in upper limit.	
	in.		
101234	Register account failed. Auto-	Auto sweep out upper limit is	Use a valid value.
	sweep out upper limit is	invalid for the account wallet	
	invalid due to wallet limit.	limit.	
101235	Invalid registration level.	You are trying to register with a	Correct your desired registration level
		level that does not exist.	and try again.
101236	Registration is not permitted.	Registration is not permitted	Please try with an account ID that is not
		because account id is	blacklisted.
		blacklisted	
101237	Invalid registration alert.	Invalid registration alert	Correct the threshold amount and try
	Threshold limit amount.	threshold amount.	again.
101238	Registration error. Invalid	Invalid user type	Enter the correct user type.
	user type.		
101239	Registration error, a pending	Pending registration exists	Resolve the pending registration before
	registration exists		proceeding with new one
101240	Invalid wallet number passed	Invalid wallet passed during	Correct the wallet ID and try again.
	during disabling wallet.	disabling wallet	Wallet ID should be 1-4 only.
101241	Account does not exist for	You are trying to disable a	Try with an existing account.
	wallet disabling.	wallet for a non-existing	
		account.	
101242	Invalid wallet number passed	Invalid wallet passed during	Correct the wallet ID and try again.
	during enabling wallet.	enabling wallet	Wallet ID should be 1-4 only.
	I	I	1



101243	Account does not exist for	You are trying to enable a	Try with an existing account.
	wallet enabling.	wallet for a non-existing	
		account.	
101260	Unable to obtain	Unable to obtain beneficiaries,	Provide the brand ID and try again.
	beneficiaries, missing brand	missing Brand ID	
	ID.		
101261	Unable to obtain	Unable to obtain beneficiaries,	Provide the country ID and try again.
	beneficiaries, missing	missing receiving country id.	
	receiving country ID.		
101265	Bank relation ID does not	Cannot obtain balance as bank	Correct bank relation ID and try again
	match during balance.	relation id doesn't match.	
101270	Encryption error.	Unable to encrypt input	Correct the configuration of the
			encryption key.
101271	Cannot send notification due	Cannot send notification due to	Make sure you are using the correct
	to an error. The most likely	an error	notifier and try again
	reason for this is that you are		
	using an invalid notifier.		
101272	Invalid wallet number in	Invalid wallet number	Ensure that the wallet number is set to 1
	GETMWSTATUS.		−4 .
101273	Account does not exist in	Account does not exist	Use a valid account MSISDN.
	GETMWSTATUS.		
101274	Account does not exist in	Account does not exist	Use a valid account MSISDN.
	VALIDATEID.		
101275	ID does not match in	ID does not match	Use the correct ID.
	VALIDATEID.		
101276	Account does not exist when	User does not exist	Use a valid account MSISDN.
	calling		
	VALIDATESECRETANSWER.		
101277	Supplied secret answer does	Secret Answer does not match	Customer must provide the correct
	not match.		secret answer.
101284	SBMCheck status is not set.	SBMCheck is not found	Set the status for SBMCheck.



101285	SBMCheck status is not SBM.	SBMCheck is not SBM	Make sure that the transaction is pending.
			•
101286	Admin task name is invalid	Unable to process transaction	Correct the admin task name in the
			calling service.
101287	Admin task brand ID is	Unable to process transaction	Correct the admin task brand ID in the
	invalid.		calling service.
101390	Invalid action.	Invalid action	Set the action to be 1 or 2.
101391	User with this MSISDN does	Invalid MSISDN	Use a valid account MSISDN.
	not exist while attempting to		
	downgrade an account		
101392	The supplied primary ID and	Primary ID verification failed	Use the customer's actual primary ID.
	the customer's primary ID do		
	not match while attempting		
	to downgrade an account		
101393	Customer is already	Already blacklisted	No corrective action is necessary if the
	blacklisted.		intent is to blacklist the customer.
101394	Invalid registration level was	Invalid registration level	Use a valid registration level between 1
10103 .	supplied.	invalid registration level	and 9.
101400	Invalid bank profile ID was	Invalid bank profile ID	Use a valid bank profile ID
101400	supplied.	invalid bank profile ib	ose a valia balik profile ib
101401	User with this MSISDN does	Invalid MSISDN	Use a valid account MSISDN
101401		IIIValiu IVISISDIN	ose a valid account Misisbin
	not exist while attempting to		
	add a bank service		
101402	The supplied primary ID and	Invalid primary ID	Enter the customer's correct primary ID
	the customer's primary ID do		number.
	not match while attempting		
	to add a bank service.		
101403	Supplied last 4 digits of the	Invalid last 4 digits	Enter the last 4 digits of the customer's
	customer's CASA account do		CASA account.
	not match.		



101404	Customer does not have a	Bank card does not exist	Enter the customer's correct bank card
	bank card that matches the		number.
	issuing bank and the last 4		
	CASA digits that were		
	provided.		
101405	Customer does not have a	Bank card payee does not exist	Enter the customer's bank card payee,
	bank card payee for their		or create a new one.
	bank card		
101406	The group that the customer	Invalid group	Change the customer's group.
	belongs to is not valid to		
	perform the bank card		
	service function.		
101500	Relation ID argument was not	Invalid relation ID	Supply relation ID argument
	supplied		
101501	The supplied relation ID and	Relation ID verification failed	Enter the customer's relation ID.
	the customer's relation ID do		
	not match.		
101502	User with this MSISDN does	Invalid MSISDN	Use a valid account MSISDN.
	not exist.		
101503	The supplied primary ID and	Primary ID verification failed	Enter the customer's primary ID.
	the customer's primary ID do		
	not match.		
101504	Primary ID argument was not	Invalid primary ID	Provide the primary ID argument.
	supplied.		
101505	Customer is not registered at	Not a level 3 customer	Register the customer at level 3.
	level 3.		
101600	Cannot update the reference	Submitted Transaction failed to	Make sure that the reference input field
	for the submitted	update reference	is correct.
	transaction.		
101601	Cannot update the status for	Submitted transaction failed to	Make sure that the status input field is
	the submitted transaction.	update status	correct.



101602	The submitted transaction is	Submitted transaction is	Make sure that the status input field is
	missing a return status.	missing status	filled.
101603	Cannot find the sales order	Submitted transaction sales	Make sure that the sales order input is
	number for the submitted	order is not found	valid.
	transaction.		
101604	The transaction is not in the	Submitted transaction status is	Make sure that you are checking the
	submitted state (SBM)	not pending	correct transaction.
101610	User password status: user	User name is null	Provide the user name.
	name is null.		
101611	User password status: user	User type is null	Provide the user type.
	type is null.		
101612	User password status: user	User type is invalid	Provide the correct user type.
	type is invalid.		
101620	Forward payment: schedule	Cannot schedule transaction at	Make sure that the schedule date is in
	date error	given date	the correct format: ddmmyy.
101621	Forward payment: schedule	Cannot schedule transaction in	Make sure to provide the correct date.
	date in the past.	the past	
101622	Forward payment: Schedule	Cannot schedule transaction	Ensure that the schedule date is less than
	date too far ahead	too far ahead	one year from the current date.
101639	There was no account found	Source account of transaction	Verify that the source MSISDN is correct.
	with the provided source	not found.	If it is, ensure that the user is registered
	MSISDN		in the system.
101640	There was no account found	Target account of transaction	Verify that the target MSISDN is correct.
	with the provided target	not found.	If it is, ensure that the target MSISDN is
	MSISDN		registered in the system.
101641	Source account is not	Source account of transaction	Update the source account with a proper
	configured with an account	does not have integration ID.	account integration ID.
	integration ID.		
101642	Target account is not	Target account of transaction	Update the target account with a proper
	configured with an account	does not have integration ID.	account integration ID.
	integration ID.		



101643	Invalid quantity amount was	Invalid payment amount	Ensure that the payment amount is a
	provided.	provided for transaction.	number.
101647	Encryption error	Encryption error	Investigate the log files.
101675	Invalid sender account.	Invalid sender account is	Provide the correct sender account and
		provided during IMT quote.	try again
101676	Invalid beneficiary account.	Invalid beneficiary account is	Provide the correct beneficiary account
		provided during IMT quote.	and try again.
101685	Sender account not found.	Sender account not found	Provide the correct sender account and
		during IMT transaction.	try again.
101686	Beneficiary not found.	Beneficiary account not found	Provide the correct beneficiary account
		during IMT transaction.	and try again.
101688	Sender account not active.	Sender account is not active for	Contact support.
		the IMT transaction.	
101690	International remittance	Either sender or Beneficiary	Contact support.
	transaction declined.	AML status is black or grey.	
101691	Beneficiary not active.	Beneficiary account is not	Verify that the beneficiary account
		active for the IMT transaction.	information is correct and try again.
101700	Request Not Found	Sales Request ID provided in	Verify that the request id is correct and
		request is not found	try again
101701	Request Status is Invalid	Sales Request you are trying to	Ensure your request id has a status of
		execute is not in the RQS State	RQS
101702	Request Brand Not Found	Sales Request Brand ID in the	Ensure there is a brand that
		request is invalid	
101703	Service Category Not Found	Sales Request Service Category	Ensure the Service exist from the brand
		is not found	id in the sales request
101704	Invalid Number of Params	Number of params need to	
		match function specs	
101705	Invalid Param	Param 2 value must be either	
		APPROVE or REJECT	



99999	International Remittance &	Transaction is in submitted	The client is to check the transaction
	Sales Request Exec:	state.	status later.
	transaction is submitted.		