Developer's Guide

B2B *Interface*

V0.3

Approvals

This document needs below approvals for implementation.

Author(s)	Name	Signature	Date
Service Development Engineer	Eneth Kubai		
Reviewers	**Name**	**Signature**	**Date**
Senior Manager Service Development	Reginald Tole		
HOD - Product Development, MPESA	Brian Wamatu		

Revision Log

Revision Number	Revision Date	Revision	Revision made by
0.1	September 7, 2014	Initial Draft	Eneth Kubai
0.2	October 1, 2014	Added new interface	Eneth Kubai
0.3	April 24, 2015	Updated the interface	Eneth Kubai

Abbreviations

Term	Definition
API	Application Programming Interface
B2B	Business to Business
Broker	Service Access Gateway
SP	Service Provider

References

Document	Author	Name
Response and Result codesV1.0.xls	Eneth Kubai	Response and Result Codes V1.0
SSL.pdf	John Barii	SSL Guide

PROJECT NAME: M-PESA	
DOCUMENT NAME: DEVELOPER'S GUIDE- B2B INTERFACE	VERSION: 0.3
COMPANY/DIVISION: PRODUCT AND SERVICE DEVELOPMENT	DATE: 24TH APRIL 2015

Table of Contents

PROJECT NAME: M-PESA	
DOCUMENT NAME: DEVELOPER'S GUIDE- B2B INTERFACE	VERSION: 0.3
COMPANY/DIVISION: PRODUCT AND SERVICE DEVELOPMENT	DATE: 24TH APRIL 2015

Introduction

1.1 Scope

The present document specifies the real time B2B Web Service aspects of the interface. All aspects of B2B Web Service are defined here, these being:

- Message Flow Description
- Data Type Definition
- Web Service Interface Definition
- Transaction Types description
- WSDL for this specification
- Example

1.2 Overview – API Framework

This document details the interface specification for a real time M-Pesa transaction API delivered within the MPesa Core API Framework. The Core API defines an abstract model for API requests which includes 4 distinct parties to API operations, as well as a generic set of API operation parameters.

Initiators are the organization or entity requesting that an API operation or transaction is performed.

The *Caller* is the actual piece of software which communicates with the MPesa Core API web service.

The *Primary Party* is (typically) the debit party within an existing MPesa financial transaction.

The *Receiver Party* is correspondingly the credit party in an MPesa financial transaction.

PROJECT NAME: M-PESA	**Safaricom**	
DOCUMENT NAME: DEVELOPER'S GUIDE- B2B INTERFACE	VERSION: 0.3	
COMPANY/DIVISION: PRODUCT AND SERVICE DEVELOPMENT	DATE: 24TH APRIL 2015	

Message Flow Description
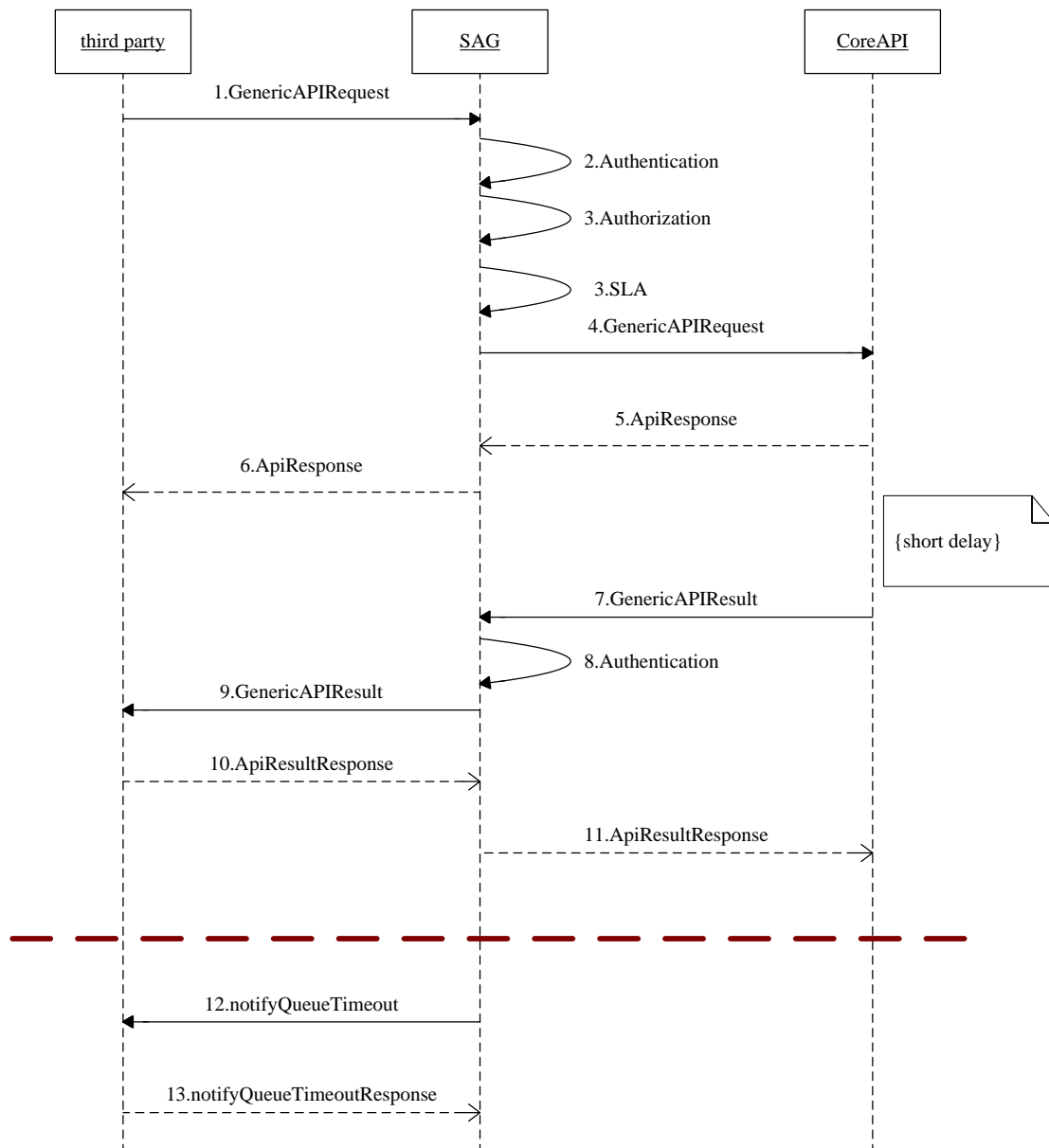
Data Type Definition

3.1 IdentityType enumeration

List of IdentityType values.

Enumeration	Description
1000	Customer
2000	SPOperator
3000	OrganizationOperator
5000	Organization
6000	Till
8000	SP

3.2 IdentifierType enumeration

List of IdentityType values.

Enumeration	Description
1	MSISDN
2	TillNumber
3	SPShortCode
4	OrganizationShortCode
5	IdentityID
6	O2CLink
9	SPOperatorCode
10	POSNumber
11	OrganizationOperatorUserName
12	OrganizationOperatorCode
13	VoucherCode

3.3 ParameterType structure

Element name	Element type	Optional	Description
Key	xsd:string	No	It indicates a parameter name.
Value	xsd:string	No	It indicates a parameter value.

3.4 Parameters structure

Element name	Element type	Optional	Description
Parameter	ParameterType[1..unbounded]	No	It is used to carry specific parameters for specific transaction or business operation.

3.5 ReferenceData structure

Element name	Element type	Optional	Description
ReferenceItem	ParameterType[1..unbounded]	No	It is used carry some reference data that MM need not analyze but need to record it into transaction log..

3.6 Transaction structure

Element name	Element type	Optional	Description
CommandID	xsd:string	No	The unique identifier of transaction/business operation. Max length is 64.eg • *BusinessBuyGoods* • *BusinessPayBill* • *DisburseFundsToBusiness* • *BusinessToBusinessTransfer* • *BusinessTransferFromMMFToUtility* • *BusinessTransferFromUtilityToMMF* • *MerchantToMerchantTransfer* • *MerchantTransferFromMerchantToWorking* • *MerchantTransferFromWorkingToMerchant* • *OrgBankAccountWithdrawal* • *OrgRevenueSettlement* • *MerchantServicesMMFAccountTransfer* • *AgencyFloatAdvance*
LanguageCode	xsd:string	Yes	It indicates language. It's reserved.
OriginatorConversationID	xsd:string	No	The unique identifier of the request message generated by third party. It is used to identify a request between the third party and MM. Max length is 128. Field must start with the Organisation short and name of organisation. Eg. 232323_KCBOrg_XXXXXX XXXXX must be unique for every transaction.
ConversationID	xsd:string	Yes	The unique identifier generated by MM for a previous request message. It is used to support communication multi-times between the third party and MM for one operation/transaction.
Remark	xsd:string	Yes	The remark information about this operation. Max length is 255
Parameters	Parameters	Yes	It is used to carry specific parameters for specific transaction or business operation. If the element EncryptedParameters presents, this parameter should not present.
ReferenceData	ReferenceData	Yes	It is used carry some reference data that MM need not analyze but need to record it into transaction log.
Timestamp	xsd:string	No	The timestamp generated by the third party.

3.7 Caller structure

Element name	Element type	Optional	Description
CallerType	xsd:integer	No	Indicates the type of the caller: 2-APICaller 3-Other(Reserved)
ThirdPartyID	xsd:string	No	The unique identifier of a third party system defined in MM. It indicates the third party which initiates the request. Max length is 20
Password	xsd:string	Yes	This security credential of the ThirdPartyID defined in MM. If the password feature for third party is used in MM, then this parameter must be presented in the request message.
CheckSum	xsd:string	Yes	Currently it is unused. It is reserved for API security.
ResultURL	xsd:string	Yes	It indicates the destination URL where Broker should send the result message to.

3.8 Initiator structure

Element name	Element type	Optional	Description
IdentifierType	IdentifierType	No	It indicates the identifier type of the initiator. The value of this parameter must be a valid identifier type supported by MM.
Identifier	xsd:string	No	It indicates the identifier of the initiator. Its value must match the inputted value of the parameter IdentifierType.
SecurityCredential	xsd:string	No	It indicates the security credential of the initiator. Its value must match the inputted value of the parameter IdentifierType.
ShortCode	xsd:string	Yes	When the initiator is an organization operator, this parameter must be present in the request to indicate which organization the operator belongs to. If the initiator is not an organization operator, this parameter should not be present.

3.8.1 Password Encryption

The Caller will be required to confirm its authority to act on behalf of the Initiator (in other words, a specific M-PESA organisation) by presenting the user name and password for the Initiator, the latter encrypted with the public key from an X509 certificate issued to the Initiator specifically for this purpose.

The following algorithm must be followed by the Initiator to encrypt passwords:

First, create the block of data to be encrypted:

- Write the unencrypted password value.
- Then, encrypt the block of data created in step 1 with the public portion of the password key certificate. Use the RSA algorithm, and use PKCS #1.5 padding (not OAEP), and add the result to the encrypted stream – this becomes the encrypted password which is submitted via the API.
- Convert the resulting encrypted byte array into a string using base64 encoding. Present this base64 encoded string in the API request as the initiator SecurityCredential value.

3.9 PrimaryParty structure

Element name	Element type	Optional	Description
IdentifierType	IdentifierType	No	It indicates the identifier type of the primary party. The value of this parameter must be a valid identifier type supported by MM and must match the inputted value of the parameter IdentityType.
Identifier	xsd:string	No	It indicates a parameter value.
ShortCode	xsd:string	Yes	It is reserved

3.10 ReceiverParty structure

Element name	Element type	Optional	Description
IdentifierType	IdentifierType	No	It indicates the identifier type of the recipient party. The value of this parameter must be a valid identifier type supported by MM.
Identifier	xsd:string	No	It indicates the identifier of the recipient party. Its value must match the inputted value of the parameter IdentifierType.
ShortCode	xsd:string	Yes	When the receiver party is an organization operator or a Till, this parameter must be present in the request to indicate which organization the receiver party belongs to. If the receiver party is not an organization operator or a Till, this parameter should not be present.

3.11 AccessDevice structure

Element name	Element type	Optional	Description
IdentifierType	IdentifierType	No	It indicates the identifier type of the access device.
Identifier	xsd:string	No	It indicates the identifier of the access device. Its value must match the inputted value of parameter IdentifierType

3.12 Identity structure

Element name	Element type	Optional	Description
Caller	Caller	No	It indicates the third party which initiates the request
Initiator	Initiator	No	It indicates the identity who makes the request. An initiator must be one of the following identity types: • SP operator • Organization operator(11) NOTE The value "11"(**Organization Operator**)or '14'(**SP Operator**) will be used for all the services in this document.
PrimartyParty	PrimartyParty	Yes	If business operation/action, this element is not present; if transaction, this can be either the debit party or the credit party according to the transaction type.
ReceiverParty	ReceiverParty	Yes	If business operation/action, this is the affected party; if transaction, it is the opposite party to the PrimaryParty
AccessDevice	AccessDevice	Yes	It indicates the access device which the initiator uses to initiate the request.

3.13 Request structure

Element name	Element type	Optional	Description
Transaction	Transaction	No	It indicates a transaction.
Identity	Identity	No	This section is used to specify all identities involved in the request
KeyOwner	xsd:integer	No	It indicates which Key is used to encrypt the elements Initator.SecurityCredential and the EncryptedParameters. Its value are enumerated as follows: 1:the API Caller's Key 2:the Initiator's Key

3.14 Response structure

Element name	Element type	Optional	Description
ResponseCode	xsd:string	No	It indicates whether MM accepts the request or not.
ResponseDesc	xsd:string	Yes	Its value is a description for the parameter ResultCode.
ConversationID	xsd:string	Yes	The unique identifier generated by M-Pesa for the request message.
OriginatorConversationID	xsd:string	Yes	The unique identifier generated by the third party for the request message.
ServiceStatus	xsd: integer	Yes	It indicates the MM service status.

3.15 ResultParameters structure

Element name	Element type	Optional	Description
ResultParameter	ParameterType [0…unbounded]	Yes	It is used to carry specific parameters for specific transaction or business operation.

3.16 Result structure

Element name	Element type	Optional	Description
ResultType	xsd:integer	Yes	0: completed 1: waiting for further messages
ResultCode	xsd:string	No	It indicates whether MM processes the request successfully or not. Max length is 10
ResultDesc	xsd:string	Yes	Its value is a description for the parameter ResultCode.Max length is 1024
OriginatorConversationID	xsd:string	Yes	The unique identifier of the request message generated by third party. Its value comes from the request message.
ConversationID	xsd:string	Yes	The unique identifier generated by MM for a request
TransactionID	xsd:string	Yes	It's only for transaction. When the request is a transaction request, MM will generate a unique identifier for the transaction.
ResultParameters	ResultParameters	Yes	It is used to carry specific parameters for specific transaction or business operation.
ReferenceData	ReferenceData	Yes	It comes from the request message

3.17 Result code

Error code	Error Description	
0	Success	ApiResult
1	Insufficient Funds	ApiResult
2	Less Than Minimum Transaction Value	ApiResult
3	More Than Maximum Transaction Value	ApiResult
4	Would Exceed Daily Transfer Limit	ApiResult
5	Would Exceed Minimum Balance	ApiResult
6	Unresolved Primary Party	ApiResult
7	Unresolved Receiver Party	ApiResult
8	Would Exceed Maxiumum Balance	ApiResult
11	Debit Account Invalid	ApiResult
12	Credit Account Invaliud	ApiResult
13	Unresolved Debit Account	ApiResult
14	Unresolved Credit Account	ApiResult
15	Duplicate Detected	ApiResult
17	Internal Failure	ApiResult
18	Initiator Credential Check Failure	ApiResult
19	Message Sequencing Failure	ApiResult
20	Unresolved Initiator	ApiResult
21	Initiator to Primary Party Permission Failure	ApiResult
22	Initiator to Receiver Party Permission Failure	ApiResult
23	Request schema validation error	ApiResponse
24	Missing mandatory fields	ApiResponse
25	Cannot communicate with Caller	ApiResponse
26	Traffic blocking condition in place	ApiResponse
0	Success	ApiResponse
100000000	Request was cached, waiting for resending	ApiResponse
100000001	The system is overload	ApiResponse
100000002	Throttling error	ApiResponse
100000003	Exceed the limitation of the LICENSE	ApiResponse
100000004	Internal Server Error	ApiResponse
100000005	Invalid input value:%1 %1 indicates the parameter's name.	ApiResponse
100000006	SP's status is abnormal	ApiResponse
100000007	Authentication failed	ApiResponse
100000008	Service's status is abnormal	ApiResponse
100000009	API's status is abnormal	ApiResponse
100000010	Insufficient permissions	ApiResponse
100000011	Exceed the limitation of request rate	ApiResponse
100000012	Insufficient balance	ApiResponse
100000013	No route	ApiResponse
100000014	Missing mandatory parameter:%1 %1 indicates the parameter's name.	ApiResponse

The following table lists result codes and result descriptions which are provided to the third party. These may be comminicated either in the synchronous *ApiResponse* message, or in the asynchronous *ApiResult* message.

0   Success

This is indicated for both ApiResponse and ApiResult messages. An ApiResponse value of 0 indicates that the request has passed basic validation tests and been passed on to the core system for further processing. An ApiResult value of 0 means that the requested financial transaction has been completed successfully.

1   InsufficientFunds

Typically indicates that the primary party does not have enough money to complete the requested financial transaction. In the case of the B2C API, this means that the business organisation does not have enough money in its utility account.

This is returned by the *ApiResult* and represented internally as a transaction reason.

2   LessThanMinimumTransactionValue
3   MoreThanMaximumTransactionValue

Each of these potential failures derive from the rules which govern MPesa financial transactions. In the case of the B2C API, these are taken from *DefaultBusinessUtilityAccount* rules, which specify a lower bound of 10 KE shillings and an upper bound of 70000. For promotion payments and salary payments to unregistered users, the upper limit is lower: 35000. Likewise, the lower bound for these 2 transactions is also different: 101 rather than 10.

These are both returned by the *ApiResult* and represented internally as a transaction reason.

4   WouldExceedDailyTransferLimit

This is a limit on daily activity. For the business organisation, this is very high: 100000000 KE shillings. It is much more likely that this rule will apply to the customer, where the limit is 140000 KE shillings.

This is returned by the *ApiResult* and represented internally as a transaction reason.

5   WouldExceedMinimumBalance

This rule is rather confusingly named – it actually means that a transaction would bring the business organisations utility account bellow the required minimum – which is currently 0.

This is returned by the *ApiResult* and represented internally as a transaction reason. It is computed during execution of the financial transaction.

6   UnresolvedPrimaryParty
7   UnresolvedReceiverParty

The primary party or receiver party cannot be associated with an MPesa identity. For transactions (such as promotion payment and salary payment) which are supported for unregistered users, the unresolved receiver party rule is not applied.

These are returned in the *ApiResult* and checked before the linked financial transaction is created.

8   WouldExceedMaximumBalance

For the B2C API, this applies to the recipient MMF customer – the limit here is 100,000 KE shillings.

This is returned by the *ApiResult* and represented internally as a transaction reason. It is computed during execution of the financial transaction.

9 LessThanMinAirtimeValue
10 MoreThanMaxAirtimeValue

Neither of these apply to B2C API operations.

11 DebitAccountInvalid
12 CreditAccountInvalid
13 UnresolvedDebitAccount
14 UnresolvedCreditAccount

These are all existing failure transaction reasons for B2C financial transactions – they would be issued to the caller in the *ApiResult* message. The latter 2 in particular are unlikely to occur, as the request would be rejected by Core API specific checks before the request reached the accounting engine.

15 DuplicateDetected

Currently, any requests which presents an originator conversation id which has been seen before will be rejected. This rule will need to be reconsidered in contexts which require multi-stage conversations or multiple Callers. This check (along with the message expiry check) is the first thing done by the transaction processor when handling an API request. The outcome is reported in the *ApiResult* message.

16 PayUtilityInvalidAccountNumberFormat

Does not apply to the B2C API operations.

17 InternalFailure

A catch all for failures which are not identified more specifically – this can occur in either the *ApiResponse* or *ApiResult* – although the intent is to replace any such error with a more precise message.

18 InitiatorCredentialCheckFailure

The password check for the initiator failed, either because the presented password is wrong, or something has gone wrong in the encryption or decryption steps. This is issued in the *ApiResult* before the creation of a financial transaction.

19 ApiRequestMessageExpiryFailure

Initiators have the option to specify a request timestamp. If the gap between this value and the time at which the message is received by the transaction processor is too great, then the request is rejected. The specific interval is configured separately for each API operation (and indeed, for each API operation stage). This is the first check performed on an API request arriving at the transaction processor, and as such is included in the *ApiResult* message.

20 UnresolvedInitiator

The initiator username presented with the request cannot be found. This is included in the *ApiResult*.

21 InitiatorToPrimaryPartyPermissionFailure

The initiator presented does not have the right to issue requests for the specified primary party (as established during creation of the initiator on the admin web site). The is part of the *ApiResult*, and computed prior to issuing a financial transaction.

22 InitiatorStatusCheckFailure

The presented initiator username can be received, but the initiator is not currently active. This fact is returned in the *ApiResult*.

23 RequestSchemaValidationError

Incoming API requests are validated against the schema defined in *CPSInterface_Request.xsd*. This is part of the *ApiResponse* message – the details of the validation error are included in the response.

24 MissingRequestParameters

Required input parameters are defined for each type of API operation. If these are missing, then this is issued in the *ApiResult* message. The names of the missing parameters are included in the result parameters field.

25 InvalidRequestParameters

If all required parameters are presented, then validation checks are performed. Specifically, the parameter is checked to see if it can be converted to the intended type, and then checked against (optional) configuration regular expression based validation rules. For the B2C API, only the type check (i.e the amount specified is a valid decimal) is performed. Failures are indicated in the *ApiResult* message, with the details included in the result parameters.

26 SystemTooBusy

Included in the *ApiResponse* message if a traffic blocking condition is in place. See section 5.1 for more detail.

28 InitiatorAllowedOperationCheckFailure

Upon creation, initiators are assigned permissions for specific API operations – if the operation specified in the request message is not included in this list, then this *ApiResult* message is received.

29 InvalidCommand

The command specified in the request is not defined – this is part of the *ApiResult*.

30 ErrorSerializingRequest

After XML schema validation, the API attempts to convert the XML request into an internal *ApiRequest* object – any failures result in this *ApiResponse* message. The details of the exception are included.

31 InitiatorNotSpecified

The initiator username is not specified, or not specified in a way that can be parsed.

32 ErrorSerializingRequest

The presented identifier for the initiator is not a username.

33 PrimaryPartyNotSpecified
34 PrimaryPartyIdentifierInvalid
35 ReceiverPartyNotSpecified
36 ReceiverPartyIdentifierInvalid

In all these case, one of the API parties is either missing from the request, or has been presented with the wrong identifier type., This kind of failure is indicated in the *ApiResult* message.,

37 MissingApiCommand

No command is included in the request – in general this problem should be captured by the XML schema validation, but if it is not this *ApiResult* message is issued.

38 InvalidConversationId
39 UnknownConversationId

Not currently checked for – this will take place for multi-stage conversations.

40 InvalidParameterDefinition

Web Service Interface Definition

4.1 Interface: RequestMgrPortType

4.1.1 Operation: GenericAPIRequest

The 3rd party invokes this operation to send a B2B request

4.1.1.1 Message Header: RequestSOAPHeader

Element name	Element type	Optional	Description
SpId	xsd: string	No	SP ID. This is the Service Provider Identifier that is allocated by the Broker to the 3rd party. [Example] 000201
SpPassword	xsd: string	Yes	This is an encrypted form of the SP password issued to an SP when an account is created on the Broker. The encrypted password is a Base64 encoded string of the SHA-256 hash of the concatenation of the spId, password and the timeStamp as illustrated below: Given the following parameters spId: 601399 password: spPassword timestamp: 20130702212854 spPassword = BASE64(SHA-256(spId + Password + timeStamp)) e.g. spPassword = BASE64(SHA-256(601399spPassword20130702212854) [Example] e6434ef249df55c7a21a0b45758a39bb

Element name	Element type	Optional	Description
ServiceId	xsd: string	Yes	Service ID. This is the Service Identifier that is allocated by the Broker for every service created. [Example] 3500001000012
Timestamp	xsd: string	Yes	Time stamp (UTC time). The value is required during SHA-256 encryption for spPassword. NOTE If the spPassword parameter must be set, this parameter is mandatory. [Format] yyyyMMddHHmmss [Example] 20100731064245

4.1.1.2 Input Message: RequestMsg

Element name	Element type	Optional	Description
RequestMsg	xsd: string	No	Request Message from 3rd party. Its value should be an instance of Request Type and a CDATA

Note:

1. If there is no configuration for notification URL on Broker side, which indicates the callback url for accepting notification of GenericAPIResult, the **ResultURL** parameter inside Identity tag must present.

2. If there is no configuration for notification URL on Broker side, which indicates the callback url for accepting notification of cached requests expired, the 3rd party must add a key-pair parameter into **ReferenceData** and the key is **QueueTimeoutURL**.

4.1.1.3 Output Message: ResponseMsg

Element name	Element type	Optional	Description
ResponseMsg	xsd: string	No	Response return to 3rd party. Its value should be an instance of Response Type and a CDATA.

4.2 Interface: ResultMgrPortType

4.2.1 Operation: GenericAPIResult

This operation must be implemented by a Web Service at the 3rd party side if it requires notification of the final result for B2B request. It will be invoked by Broker to notify the 3rd party once Broker received the notification from Core API.

4.2.1.1 Input Message: ResultMsg

Element name	Element type	Optional	Description
ResultMsg	xsd: string	No	Request Message from Broker. Its value should be a instance of Result Type and a CDATA.

4.2.1.2 Output Message: ResponseMsg

Element name	Element type	Optional	Description
ResponseMsg	xsd: string	No	Response return to Broker. Its value should be a instance of Response Type and a CDATA.

4.3 Interface: QueueTimeoutNotificationPort

4.3.1 Operation: notifyQueueTimeout

This operation must be implemented by a Web Service at the 3rd party side if it requires notification of cached requests are expired. It will be invoked by Broker to notify the 3rd party once cached requests are expired.

4.3.1.1 Input Message: notifyQueueTimeout

Element name	Element type	Optional	Description
OriginatorConversationID	xsd:string		originatorConversationID from the request sent by the 3rd party
originRequest	xsd:string	No	Original request without SOAP Header sent by 3rd party. Its value is encoded with base64, when the 3rd party receive the request, it should decode it.
ExtensionInfo	Parameters	Yes	Extended parameters.

4.3.1.2 Output Message: notifyQueueTimeoutResponse

Element name	Element type	Optional	Description
Result	Result	No	
ExtensionInfo	Parameters	Yes	Extended parameters.

4.3.1.3 Response Code

ResponseCode	ResponseDesc
000000000	Success
000000001	Failed

4.4 Interface: QueryTransactionPort

4.4.1 Operation: queryTransaction

The 3rd party invokes this operation to query transaction information..

4.4.1.1 Message Header: RequestSOAPHeader

Element name	Element type	Optional	Description
SpId	xsd: string	No	SP ID. It's allocated by the Broker to the 3rd party. [Example] 000201
spPassword	xsd: string	Yes	Encrypted authentication password for partners to access the Broker. The value is a character string encrypted from **spId** + **Password** + **timeStamp** by SHA-256. The encryption formula is as follows: spPassword =BASE64(SHA-256(spId + Password + timeStamp)) In the preceding formula: **timeStamp**: value of **timeStamp**. **Password**: authentication password for 3rd parties to access the Broker. The value is allocated by the Broker. **NOTE** The authentication modes include SPID&Password, SPID&IP&Password, and SPID&IP. When the authentication mode is SPID&Password or SPID&IP&Password, this parameter is mandatory. [Example] e6434ef249df55c7a21a0b45758a39bb
ServiceId	xsd: string	Yes	Service ID. The value is allocated by the Broker to the 3rd party. [Example] 3500001000012

Element name	Element type	Optional	Description
timeStamp	xsd: string	Yes	Time stamp (UTC time). The value is required during SHA-256 encryption for **spPassword**. **NOTE** If the **spPassword** parameter must be set, this parameter is mandatory. [Format] yyyyMMddHHmmss [Example] 20100731064245

4.4.1.2 Input Message: queryTransaction

Element name	Element type	Optional	Description
originatorConversationID	xsd:string		The unique identifier of the request message generated by third party. It is used to identify a request between the third party and MM. Max length is 128
extensionInfo	Parameters	Yes	Extended parameters.

Table 4-1 extensionInfo Description

Parameter	Optional	Type	Description
queryDate	Yes	String(20)	The date of the original conversation. Format is yyyyMMddHHmmss, for example: 20131230134412 Note: If this parameter does not present, it will cost more time to get the result.

4.4.1.3 Output Message: queryTransactionResponse

Element name	Element type	Optional	Description
Result	Response	No	
submitApiRequestList	xsd:string[0-unbounded]	Y	Requests sent by the 3rd party. Its value is the requests sent by the 3rd party with base64 encoded.
submitApiResponseList	xsd:string[0-unbounded]	Y	Responses returned from the Broker. Its value is the responses returned from the Broker with base64 encoded.

Element name	Element type	Optional	Description
submitApiResultList	xsd:string[0-unbounded]	Y	Results sent to the 3rd party. Its value is the requests sent by the Broker with base64 encoded.
queueTimeOutList	xsd:string[0-unbounded]	Y	QueueTimeout requests sent to the 3rd party. Its value is the requests sent by the Broker with base64 encoded.
extensionInfo	Parameters	Yes	Extended parameters.

4.4.1.4 Response Codes

ResponseCode	ResponseDesc
000000000	Success
100000001	The system is overload
100000002	Throttling error
100000003	Exceed the limitation of the LICENSE
100000004	Internal Server Error
100000005	Invalid input value:%1 %1 indicates the parameter's name.
100000006	SP's status is abnormal
100000007	Authentication failed
100000008	Service's status is abnormal
100000010	Insufficient permissions
100000014	Missing mandatory parameter:%1 %1 indicates the parameter's name.

4.5 Interface: Management

4.5.1 Operation: changePassword

The 3rd party invokes this operation to change his password.

Input Message: changePassword

Element name	Element type	Optional	Description
spId	xsd: string	No	SP ID. It's allocated by the SAG to the 3rd party. [Example] 000201

Element name	Element type	Optional	Description
spPassword	xsd: string	Yes	Encrypted authentication password for partners to access the SAG. The value is a character string encrypted from **spId** + **Password** + **timeStamp** by SHA-256. The encryption formula is as follows: spPassword =BASE64(SHA-256(spId + Password + timeStamp)) In the preceding formula: **timeStamp**: value of **timeStamp**. **Password**: authentication password for 3rd parties to access the SAG. The value is allocated by the SAG. **NOTE** The authentication modes include SPID&Password, SPID&IP&Password, and SPID&IP. When the authentication mode is SPID&Password or SPID&IP&Password, this parameter is mandatory. [Example] e6434ef249df55c7a21a0b45758a39bb
timeStamp	xsd: string	Yes	Time stamp (UTC time). The value is required during SHA-256 encryption for **spPassword**. **NOTE** If the **spPassword** parameter must be set, this parameter is mandatory. [Format] yyyyMMddHHmmss [Example] 20100731064245

Element name	Element type	Optional	Description
newPassword	xsd:string	No	New authentication password for 3rd parties to access the SAG. It should be encrypted by AES-256 and encoded with base64. Shared key and will be allocated by the SAG. For example: New password is !QAZ2wsx, Security key is AAAabcdefghijklm, Vector is abcdefghijklmnop AES(!QAZ2wsx, AAAabcdefghijklm, abcdefghijklmnop) is wi2a7BAH0QPd2LRdmcgC9w== SP should fill wi2a7BAH0QPd2LRdmcgC9w== as newPassword
extensionInfo	Parameters	Yes	Extended parameters.

Output Message: changePasswordResponse

Element name	Element type	Optional	Description
result	Result	No	Result.
extensionInfo	Parameters	Yes	Extended parameters.

Response Code

ResponseCode	ResponseDesc
000000000	Success
100000001	The system is overload
100000002	Throttling error
100000003	Exceed the limitation of the LICENSE
100000004	Internal Server Error

ResponseCode	ResponseDesc
100000005	Invalid input value:%1 %1 indicates the parameter's name.
100000006	SP's status is abnormal
100000007	Authentication failed
100000014	Missing mandatory parameter:%1 %1 indicates the parameter's name.

PROJECT NAME: M-PESA	
DOCUMENT NAME: DEVELOPER'S GUIDE- B2B INTERFACE	VERSION: 0.3
COMPANY/DIVISION: PRODUCT AND SERVICE DEVELOPMENT	DATE: 24TH APRIL 2015

Transaction Types

5.1 Request Party Matrix

Command Types	InitiatorLinkedTo	Primary Party	Receiver Party
BusinessBuyGoods	C2B, B2C, Merchant HO and Store	Identity – C2B, B2C, Merchant HO and Store IdentifierType - 4 Identifier - ShortCode	Identity - Merchant HO and Store IdentifierType - 4 Identifier - ShortCode
BusinessPayBill	C2B, B2C, Merchant HO and Store	Identity - C2B, B2C, Merchant HO and Store IdentifierType - 4 Identifier - ShortCode	Identity - C2B Business IdentifierType - 4 Identifier - ShortCode
DisburseFundsToBusiness	B2C and C2B Business	Identity –C2B and B2C IdentifierType - 4 Identifier – ShortCode	Identity - C2B, B2C, Merchant HO and Store IdentifierType - 4 Identifier - ShortCode
BusinessToBusinessTransfer	C2B, B2C, Merchant HO and Store, Agency HO and store	Identity – C2B, B2C, Merchant HO and Store IdentifierType - 4 Identifier – ShortCode	Identity - C2B, B2C, Merchant HO and Store IdentifierType - 4 Identifier - ShortCode
BusinessTransferFromMMFToUtility	C2B, B2C	Identity –C2B and B2C IdentifierType - 4 Identifier – ShortCode	Same as Primary Party
BusinessTransferFromUtilityToMMF	C2B, B2C	Identity –C2B and B2C IdentifierType - 4 Identifier – ShortCode	Same as Primary Party

MerchantTransferFromMerchantToWorking	Merchant HO and Store	Identity – Merchant HO and Store IdentifierType - 4 Identifier – ShortCode	Same as Primary Party
MerchantTransferFromWorkingToMerchant	Merchant HO and Store	Identity – Merchant HO and Store IdentifierType - 4 Identifier – ShortCode	Same as Primary Party
MerchantToMerchantTransfer	Merchant HO and Store (Out of hierarchy). The short code must be the Store shortCode or HO shortcode	Identity – Merchant HO and Store IdentifierType - 4 Identifier – ShortCode	Identity – Merchant HO and Store IdentifierType - 4 Identifier – ShortCode
MerchantServicesMMFAccountTransfer	Merchant HO and Store (Within Hierachy). The short code must be the Store shortcode or HO shortcode	Identity – Merchant HO and Store IdentifierType - 4 Identifier – ShortCode	Identity – Merchant HO and Store IdentifierType - 4 Identifier – ShortCode
AgencyFloatAdvance	Agency HO and Store	Identity – Agency HO and Store IdentifierType - 4 Identifier – ShortCode	Identity – Agency HO and Store IdentifierType - 4 Identifier – ShortCode
OrgBankAccountWithdrawal	C2B, B2C, Merchant HO and Store	Identity – C2B, B2C, Merchant HO and Store IdentifierType - 4 Identifier – ShortCode	Same as Primary Party
OrgRevenueSettlement	C2B, B2C, Merchant HO and Store	Identity – C2B, B2C, Merchant HO and Store IdentifierType - 4	Same as Primary Party

		Identifier – ShortCode	
AccountBalance	B2C Business, C2B Business, Merchant HO, MMF Organisation	NA (0)	NA(0)
TransactionStatusQuery	B2C Business, C2B Business, Merchant HO, MMF Organisation	NA (0)	NA(0)

5.2 Business Paybill

Description
This is a transaction type that moves money from Business customer (B2C, C2B, Merchant HO and Merchant Store organizations) to a C2B organization. The request moves money from the Primary Party's MMF/WORKING account to the Receiver party's Utility account. Primary party will be API Enabled Business Customer and receiver party will be C2B Business. The initiator would be linked to primary party.

Input Parameters		
Amount	Decimal	
AccountReference	String	The third party account reference. (Mandatory)

Output Parameters		
ResultType	ResultType	It describes the state of the request, for single staged it would be only completed.
ResultCode	String	Result code
ResultDesc	String	Result description
ConversationId	GUID	M-Pesa conversation id
OriginatorConversationId	String	Third party conversation id
TransactionId	String	It takes the financial transaction unique receipt number.

ResultParameters		
Amount	Decimal	The transactional Amount Eg. <Key>Amount</Key><Value>7000.00</Value>
TransCompletedTime	DateTime	The date time when the transaction was completed. Eg. <Key>TransCompletedTime</Key> <Value>20150424170252</Value>
InitiatorAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. <Key>InitiatorAccountCurrentBalance</Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
DebitPartyCharges	Decimal	
DebitAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. <Key> DebitAccountCurrentBalance </Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
Currency	String	Currency used. Eg. <Key>Currency</Key> <Value>KES</Value>
DebitPartyPublicName	String	Public name of the Debit Party. Format: *<Short Code>-<Organization Name>*
ReceiverPartyPublicName	String	Public name of the Credit Party. Eg. <Key>ReceiverPartyPublicName</Key> <Value>888888 - KPLC TEST</Value>**.**
DebitPartyAffectedAccountBalance	String	Indicates the account balance of all the affected accounts of debit party。 For each account, the fields are presented in the following order and separated by vertical bars (|): **amp;** is used as the separator of different accounts.

		Eg. <Key>DebitPartyAffectedAccountBalance</Key> <Value>MMF Organization Account|KES|2714803.00|2714803.00|0.00|50000000.00</Value>

5.3 Disburse Funds to Business

Description		
This is a transaction type that moves money from B2C and C2B organizations to a Business Customer (B2C, C2B, Merchant HO and Merchant Store organization). The request moves money from the Primary Party's Utility account to the Receiver party's MMF account. Primary party will be API Enabled Business Customer and receiver party will be a Business Customer. The initiator would be linked to primary party.		
Input Parameters		
Amount	Decimal	
AccountReference	String	The third party account reference. (optional)
Output Parameters		
ResultType	ResultType	It describes the state of the request, for single staged it would be only completed.
ResultCode	String	Result code
ResultDesc	String	Result description
ConversationId	GUID	M-Pesa conversation id
OriginatorConversationId	String	Third party conversation id
TransactionId	String	It takes the financial transaction unique receipt number.
ResultParameters		
Amount	Decimal	The transactional Amount Eg. <Key>Amount</Key><Value>7000.00</Value>

TransCompletedTime	DateTime	The date time when the transaction was completed. Eg. <Key>TransCompletedTime</Key> <Value>20150424170252</Value>
InitiatorAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. <Key>InitiatorAccountCurrentBalance</Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
DebitPartyCharges	Decimal	
DebitAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. <Key> DebitAccountCurrentBalance </Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
Currency	String	Currency used. Eg. <Key>Currency</Key> <Value>KES</Value>
DebitPartyPublicName	String	Public name of the Debit Party. Format: *<Short Code>-<Organization Name>*
ReceiverPartyPublicName	String	Public name of the Credit Party. Eg. <Key>ReceiverPartyPublicName</Key> <Value>888888 - KPLC TEST</Value>**.**
DebitPartyAffectedAccountBalance	String	Indicates the account balance of all the affected accounts of debit party。 For each account, the fields are presented in the following order and separated by vertical bars (|): **amp;** is used as the separator of different accounts. Eg. <Key>DebitPartyAffectedAccountBalance</Key> <Value>MMF Organization Account|KES|2714803.00|2714803.00|0.00|50000000.00</Value>

5.4 Business Buy Goods

Description		
This is a transaction type that moves money from Business customer (B2C, C2B, Merchant HO and Merchant Store organizations) to a Merchant HO or Store. The request moves money from the Primary Party's MMF/WORKING account to the Receiver party's Merchant account. Primary party will be API Enabled Business Customer and receiver party will be Merchant HO and Store Business. The initiator would be linked to primary party.		
Input Parameters		
Amount	Decimal	
AccountReference	String	The third party account reference. (optional)
Output Parameters		
ResultType	ResultType	It describes the state of the request, for single staged it would be only completed.
ResultCode	String	Result code
ResultDesc	String	Result description
ConversationId	GUID	M-Pesa conversation id
OriginatorConversationId	String	Third party conversation id
TransactionId	String	It takes the financial transaction unique receipt number.
ResultParameters		
Amount	Decimal	The transactional Amount Eg. <Key>Amount</Key><Value>7000.00</Value>
TransCompletedTime	DateTime	The date time when the transaction was completed. Eg. <Key>TransCompletedTime</Key> <Value>20150424170252</Value>
InitiatorAccountCurrentBalance	Decimal	Amount of money in the initiating organization.

		Eg. <Key>InitiatorAccountCurrentBalance</Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
DebitPartyCharges	Decimal	
DebitAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. <Key> DebitAccountCurrentBalance </Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
Currency	String	Currency used. Eg. <Key>Currency</Key> <Value>KES</Value>
DebitPartyPublicName	String	Public name of the Debit Party. Format: *<Short Code>-<Organization Name>*
ReceiverPartyPublicName	String	Public name of the Credit Party. Eg. <Key>ReceiverPartyPublicName</Key> <Value>888888 - KPLC TEST</Value>.
DebitPartyAffectedAccountBalance	String	Indicates the account balance of all the affected accounts of debit party。 For each account, the fields are presented in the following order and separated by vertical bars (|): **amp;** is used as the separator of different accounts. Eg. <Key>DebitPartyAffectedAccountBalance</Key> <Value>MMF Organization Account|KES|2714803.00|2714803.00|0.00|50000000.00</Value>

5.5 BusinessToBusinessTransfer

Description

This is a transaction type that moves money from an Organization with an MMF/WORKING account (B2C, C2B, Merchant HO and store and Agency HO and Store) to an organization with an MMF/WORKING account (B2C, C2B, Merchant HO and store and Agency HO and Store). The organizations should not be in the same Hierarchy. The request moves money from the Primary Party's MMF/WORKING account to the Receiver party's MMF/WORKING account. Primary party should be API Enabled Business Customer and receiver party will be an Organization. The initiator would be linked to primary party.

Input Parameters		
Amount	Decimal	
AccountReference	String	The third party account reference. (optional)

Output Parameters		
ResultType	ResultType	It describes the state of the request, for single staged it would be only completed.
ResultCode	String	Result code
ResultDesc	String	Result description
ConversationId	GUID	M-Pesa conversation id
OriginatorConversationId	String	Third party conversation id
TransactionId	String	It takes the financial transaction unique receipt number.

ResultParameters		
Amount	Decimal	The transactional Amount Eg. <Key>Amount</Key><Value>7000.00</Value>
TransCompletedTime	DateTime	The date time when the transaction was completed. Eg. <Key>TransCompletedTime</Key> <Value>20150424170252</Value>
InitiatorAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. <Key>InitiatorAccountCurrentBalance</Key> <Value>{Amount={BasicAmount=2714803.00,

		MinimumAmount=271480300, CurrencyCode=KES}}</Value>
DebitPartyCharges	Decimal	
DebitAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. <Key> DebitAccountCurrentBalance </Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
Currency	String	Currency used. Eg. <Key>Currency</Key> <Value>KES</Value>
DebitPartyPublicName	String	Public name of the Debit Party. Format: *<Short Code>-<Organization Name>*
ReceiverPartyPublicName	String	Public name of the Credit Party. Eg. <Key>ReceiverPartyPublicName</Key> <Value>888888 - KPLC TEST</Value>**.**
DebitPartyAffectedAccountBalance	String	Indicates the account balance of all the affected accounts of debit party。 For each account, the fields are presented in the following order and separated by vertical bars (|): **amp;** is used as the separator of different accounts. Eg. <Key>DebitPartyAffectedAccountBalance</Key> <Value>MMF Organization Account|KES|2714803.00|2714803.00|0.00|50000000.00</Value>

5.6 **BusinessTransferFromMMFToUtility**

Description
This is a transaction type that moves money within an Organization (C2B and B2C). The request moves money from the organization's MMF/WORKING account to the organization's Utility account. The organization should be API Enabled Business Customer. The initiator would be linked to primary party.

Input Parameters		
Amount	Decimal	
AccountReference	String	The third party account reference. (optional)
Output Parameters		
ResultType	ResultType	It describes the state of the request, for single staged it would be only completed.
ResultCode	String	Result code
ResultDesc	String	Result description
ConversationId	GUID	M-Pesa conversation id
OriginatorConversationId	String	Third party conversation id
TransactionId	String	It takes the financial transaction unique receipt number.
ResultParameters		
Amount	Decimal	The transactional Amount Eg. <Key>Amount</Key><Value>7000.00</Value>
TransCompletedTime	DateTime	The date time when the transaction was completed. Eg. <Key>TransCompletedTime</Key> <Value>20150424170252</Value>
InitiatorAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. <Key>InitiatorAccountCurrentBalance</Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
DebitPartyCharges	Decimal	
DebitAccountCurrentBalance	Decimal	Amount of money in the initiating organization.

		Eg. <Key> DebitAccountCurrentBalance </Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
Currency	String	Currency used. Eg. <Key>Currency</Key> <Value>KES</Value>
DebitPartyPublicName	String	Public name of the Debit Party. Format: *<Short Code>-<Organization Name>*
ReceiverPartyPublicName	String	Public name of the Credit Party. Eg. <Key>ReceiverPartyPublicName</Key> <Value>888888 - KPLC TEST</Value>.
DebitPartyAffectedAccountBalance	String	Indicates the account balance of all the affected accounts of debit party。 For each account, the fields are presented in the following order and separated by vertical bars (|): **amp;** is used as the separator of different accounts. Eg. <Key>DebitPartyAffectedAccountBalance</Key> <Value>MMF Organization Account|KES|2714803.00|2714803.00|0.00|50000000.00</Value>

5.7 BusinessTransferFromUtilityToMMF

Description		
This is a transaction type that moves money within an Organization (C2B and B2C). The request moves money from the organization's Utility account to the organization's MMF/WORKING account. The organization should be API Enabled Business Customer. The initiator would be linked to primary party.		
Input Parameters		
Amount	Decimal	
AccountReference	String	The third party account reference. (optional)

Output Parameters		
ResultType	ResultType	It describes the state of the request, for single staged it would be only completed.
ResultCode	String	Result code
ResultDesc	String	Result description
ConversationId	GUID	M-Pesa conversation id
OriginatorConversationId	String	Third party conversation id
TransactionId	String	It takes the financial transaction unique receipt number.
ResultParameters		
Amount	Decimal	The transactional Amount Eg. <Key>Amount</Key><Value>7000.00</Value>
TransCompletedTime	DateTime	The date time when the transaction was completed. Eg. <Key>TransCompletedTime</Key> <Value>20150424170252</Value>
InitiatorAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. <Key>InitiatorAccountCurrentBalance</Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
DebitPartyCharges	Decimal	
DebitAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. <Key> DebitAccountCurrentBalance </Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
Currency	String	Currency used. Eg. <Key>Currency</Key>

		<Value>KES</Value>
DebitPartyPublicName	String	Public name of the Debit Party. Format: *<Short Code>-<Organization Name>*
ReceiverPartyPublicName	String	Public name of the Credit Party. Eg. <Key>ReceiverPartyPublicName</Key> <Value>888888 - KPLC TEST</Value>**.**
DebitPartyAffectedAccountBalance	String	Indicates the account balance of all the affected accounts of debit party。 For each account, the fields are presented in the following order and separated by vertical bars (|): **amp;** is used as the separator of different accounts. Eg. <Key>DebitPartyAffectedAccountBalance</Key> <Value>MMF Organization Account|KES|2714803.00|2714803.00|0.00|50000000.00</Value>

5.8 MerchantToMerchantTransfer

Description
This is a transaction type that moves money from an Organization with Merchant account (Merchant HO and store) to an organization with a Merchant account (Merchant HO and store). The organizations should not be in the same Hierarchy. The request moves money from the Primary Party's Merchant account to the Receiver party's Merchant account. Primary party should be API Enabled Business Customer and receiver party will be an Organization. The initiator would be linked to primary party.

Input Parameters		
Amount	Decimal	
AccountReference	String	The third party account reference. (optional)

Output Parameters		
ResultType	ResultType	It describes the state of the request, for single staged it would be only completed.

ResultCode	String	Result code
ResultDesc	String	Result description
ConversationId	GUID	M-Pesa conversation id
OriginatorConversationId	String	Third party conversation id
TransactionId	String	It takes the financial transaction unique receipt number.
ResultParameters		
Amount	Decimal	The transactional Amount Eg. <Key>Amount</Key><Value>7000.00</Value>
TransCompletedTime	DateTime	The date time when the transaction was completed. Eg. <Key>TransCompletedTime</Key> <Value>20150424170252</Value>
InitiatorAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. <Key>InitiatorAccountCurrentBalance</Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
DebitPartyCharges	Decimal	
DebitAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. <Key> DebitAccountCurrentBalance </Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
Currency	String	Currency used. Eg. <Key>Currency</Key> <Value>KES</Value>
DebitPartyPublicName	String	Public name of the Debit Party. Format: *<Short Code>-<Organization Name>*

ReceiverPartyPublicName	String	Public name of the Credit Party. Eg. <Key>ReceiverPartyPublicName</Key> <Value>888888 - KPLC TEST</Value>.
DebitPartyAffectedAccountBalance	String	Indicates the account balance of all the affected accounts of debit party。 For each account, the fields are presented in the following order and separated by vertical bars (|): **amp;** is used as the separator of different accounts. Eg. <Key>DebitPartyAffectedAccountBalance</Key> <Value>MMF Organization Account|KES|2714803.00|2714803.00|0.00|50000000.00</Value>

5.9 MerchantTransferFromMerchantToWorking

Description		
This is a transaction type that moves money within an Organization (Merchant HO and Store). The request moves money from the organization's Merchant account to the organization's MMF/WORKING account. The organization should be API Enabled Business Customer. The initiator would be linked to primary party.		
Input Parameters		
Amount	Decimal	
AccountReference	String	The third party account reference. (optional)
Output Parameters		
ResultType	ResultType	It describes the state of the request, for single staged it would be only completed.
ResultCode	String	Result code
ResultDesc	String	Result description
ConversationId	GUID	M-Pesa conversation id

OriginatorConversationId	String	Third party conversation id
TransactionId	String	It takes the financial transaction unique receipt number.
ResultParameters		
Amount	Decimal	The transactional Amount Eg. <Key>Amount</Key><Value>7000.00</Value>
TransCompletedTime	DateTime	The date time when the transaction was completed. Eg. <Key>TransCompletedTime</Key> <Value>20150424170252</Value>
InitiatorAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. <Key>InitiatorAccountCurrentBalance</Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
DebitPartyCharges	Decimal	
DebitAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. <Key> DebitAccountCurrentBalance </Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
Currency	String	Currency used. Eg. <Key>Currency</Key> <Value>KES</Value>
DebitPartyPublicName	String	Public name of the Debit Party. Format: *<Short Code>-<Organization Name>*
ReceiverPartyPublicName	String	Public name of the Credit Party. Eg. <Key>ReceiverPartyPublicName</Key> <Value>888888 - KPLC TEST</Value>.
DebitPartyAffectedAccountBalance	String	Indicates the account balance of all the affected accounts of debit party。

		For each account, the fields are presented in the following order and separated by vertical bars (|): **amp;** is used as the separator of different accounts. Eg. <Key>DebitPartyAffectedAccountBalance</Key> <Value>MMF Organization Account|KES|2714803.00|2714803.00|0.00|50000000.00</Value>

5.10 MerchantTransferFromWorkingToMerchant

Description		
This is a transaction type that moves money within an Organization (Merchant HO and Store). The request moves money from the organization's MMF/WORKING account to the organization's Merchant account. The organization should be API Enabled Business Customer. The initiator would be linked to primary party.		
Input Parameters		
Amount	Decimal	
AccountReference	String	The third party account reference. (optional)
Output Parameters		
ResultType	ResultType	It describes the state of the request, for single staged it would be only completed.
ResultCode	String	Result code
ResultDesc	String	Result description
ConversationId	GUID	M-Pesa conversation id
OriginatorConversationId	String	Third party conversation id
TransactionId	String	It takes the financial transaction unique receipt number.
ResultParameters		
Amount	Decimal	The transactional Amount

		Eg. <Key>Amount</Key><Value>7000.00</Value>
TransCompletedTime	DateTime	The date time when the transaction was completed. Eg. <Key>TransCompletedTime</Key> <Value>20150424170252</Value>
InitiatorAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. <Key>InitiatorAccountCurrentBalance</Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
DebitPartyCharges	Decimal	
DebitAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. <Key> DebitAccountCurrentBalance </Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
Currency	String	Currency used. Eg. <Key>Currency</Key> <Value>KES</Value>
DebitPartyPublicName	String	Public name of the Debit Party. Format: *<Short Code>-<Organization Name>*
ReceiverPartyPublicName	String	Public name of the Credit Party. Eg. <Key>ReceiverPartyPublicName</Key> <Value>888888 - KPLC TEST</Value>**.**
DebitPartyAffectedAccountBalance	String	Indicates the account balance of all the affected accounts of debit party。 For each account, the fields are presented in the following order and separated by vertical bars (|): **amp;** is used as the separator of different accounts. Eg. <Key>DebitPartyAffectedAccountBalance</Key> <Value>MMF Organization Account|KES|2714803.00|2714803.00|0.00|50000000.00</Value>

5.11 OrgBankAccountWithdrawal

Description
This is a transaction type that moves money from an Organization (C2B, B2C, Agency and Merchant) to the Bank. The request removes e-value from the MMF/Working account to the SP holding account. The organization should be API Enabled Business Customer. The initiator would be linked to primary party.

Input Parameters		
Amount	decimal	Value to be transferred
HeadOffice	String	Optional

Output Parameters		
ResultType	ResultType	It describes the state of the request, for single staged it would be only completed.
ResultCode	String	Result code
ResultDesc	String	Result description
ConversationId	GUID	M-Pesa conversation id
OriginatorConversationId	String	Third party conversation id
TransactionId	String	It takes the financial transaction unique receipt number.

ResultParameters		
Amount	Decimal	The transactional Amount Eg. <Key>Amount</Key><Value>7000.00</Value>
TransCompletedTime	DateTime	The date time when the transaction was completed. Eg. <Key>TransCompletedTime</Key> <Value>20150424170252</Value>
DebitPartyAffectedAccountBalance	String	Indicates the account balance of all the affected accounts of debit party。

		For each account, the fields are presented in the following order and separated by vertical bars (|):
		amp; is used as the separator of different accounts.
		Eg. <Key>DebitPartyAffectedAccountBalance</Key>
		<Value>MMF Organization Account|KES|2714803.00|2714803.00|0.00|50000000.00</Value>

5.12 OrgRevenueSettlement

Description		
This is a transaction type that moves money within an Organization (C2B and Merchant). The request settles the charges accrued and moves the rest of the money to the MMF/Working account. The organization should be API Enabled Business Customer. The initiator would be linked to primary party.		
Input Parameters		
HeadOffice	String	Optional
Output Parameters		
ResultType	ResultType	It describes the state of the request, for single staged it would be only completed.
ResultCode	String	Result code
ResultDesc	String	Result description
ConversationId	GUID	M-Pesa conversation id
OriginatorConversationId	String	Third party conversation id
TransactionId	String	It takes the financial transaction unique receipt number.
ResultParameters		
FundsMovement	Decimal	Describes the Fund movement. Eg. <Key>FundsMovement</Key>

		<Value>Merchant Account|Organization Settlement Account|KES|0.00&Organization Settlement Account|Charges Paid Account|KES|0.00&Working Account|Organization Settlement Account|KES|0.00</Value>
TransCompletedTime	DateTime	The date time when the transaction was completed. Eg. <Key>TransCompletedTime</Key> <Value>20150424170252</Value>
AccountBalanceAfterSettlement	Decimal	Amount of money in the organization. Eg. <Key>AccountBalanceAfterSettlement</Key> <Value>Working Account|KES|56.03|56.03|0.00|0.00&Utility Account|KES|0.00|0.00|0.00|0.00&Charges Paid Account|KES|0.00|0.00|0.00|0.00&Merchant Account|KES|0.00|0.00|0.00|0.00&Organization Settlement Account|KES|0.00|0.00|0.00|0.00</Value>
SettlementPlanID	Decimal	This field gives the settlementID. Eg. <Key>SettlementPlanID</Key> <Value>172110</Value>

5.13 MerchantServicesMMFAccountTransfer

Description
This is a transaction type that moves money from an Organization with Merchant account (Merchant HO and store) to an organization with a Merchant account (Merchant HO and store). The organizations should be in the same Hierarchy. The request moves money from the Primary Party's Merchant account to the Receiver party's Merchant account. Primary party should be API Enabled Business Customer and receiver party will be an Organization. The initiator would be linked to primary party.

Input Parameters		
Amount	Decimal	
AccountReference	String	The third party account reference. (optional)
Output Parameters		

ResultType	ResultType	It describes the state of the request, for single staged it would be only completed.
ResultCode	String	Result code
ResultDesc	String	Result description
ConversationId	GUID	M-Pesa conversation id
OriginatorConversationId	String	Third party conversation id
TransactionId	String	It takes the financial transaction unique receipt number.
ResultParameters		
Amount	Decimal	The transactional Amount Eg. \<Key>Amount\</Key>\<Value>7000.00\</Value>
TransCompletedTime	DateTime	The date time when the transaction was completed. Eg. \<Key>TransCompletedTime\</Key> \<Value>20150424170252\</Value>
InitiatorAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. \<Key>InitiatorAccountCurrentBalance\</Key> \<Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}\</Value>
DebitPartyCharges	Decimal	
DebitAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. \<Key> DebitAccountCurrentBalance \</Key> \<Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}\</Value>
Currency	String	Currency used. Eg. \<Key>Currency\</Key> \<Value>KES\</Value>

DebitPartyPublicName	String	Public name of the Debit Party. Format: *<Short Code>-<Organization Name>*
ReceiverPartyPublicName	String	Public name of the Credit Party. Eg. <Key>ReceiverPartyPublicName</Key> <Value>888888 - KPLC TEST</Value>**.**
DebitPartyAffectedAccountBalance	String	Indicates the account balance of all the affected accounts of debit party。 For each account, the fields are presented in the following order and separated by vertical bars (|): **amp;** is used as the separator of different accounts. Eg. <Key>DebitPartyAffectedAccountBalance</Key> <Value>MMF Organization Account|KES|2714803.00|2714803.00|0.00|50000000.00</Value>

5.14 AgencyFloatAdvance

Description
This is a transaction type that moves money from an Organization with a Float account (Agency HO and store) to an organization with a Float account (Agency HO and store). The organizations should not be in the same Hierarchy. The request moves money from the Primary Party's Float account to the Receiver party's Float account. Primary party should be API Enabled Business Customer and receiver party will be an Organization. The initiator would be linked to primary party.

Input Parameters		
Amount	Decimal	
AccountReference	String	The third party account reference. (optional)

Output Parameters		
ResultType	ResultType	It describes the state of the request, for single staged it would be only completed.
ResultCode	String	Result code

ResultDesc	String	Result description
ConversationId	GUID	M-Pesa conversation id
OriginatorConversationId	String	Third party conversation id
TransactionId	String	It takes the financial transaction unique receipt number.
ResultParameters		
Amount	Decimal	The transactional Amount Eg. <Key>Amount</Key><Value>7000.00</Value>
TransCompletedTime	DateTime	The date time when the transaction was completed. Eg. <Key>TransCompletedTime</Key> <Value>20150424170252</Value>
InitiatorAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. <Key>InitiatorAccountCurrentBalance</Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
DebitPartyCharges	Decimal	
DebitAccountCurrentBalance	Decimal	Amount of money in the initiating organization. Eg. <Key> DebitAccountCurrentBalance </Key> <Value>{Amount={BasicAmount=2714803.00, MinimumAmount=271480300, CurrencyCode=KES}}</Value>
Currency	String	Currency used. Eg. <Key>Currency</Key> <Value>KES</Value>
DebitPartyPublicName	String	Public name of the Debit Party. Format: *<Short Code>-<Organization Name>*
ReceiverPartyPublicName	String	Public name of the Credit Party. Eg. <Key>ReceiverPartyPublicName</Key>

		<Value>888888 - KPLC TEST</Value>.
DebitPartyAffectedAccountBalance	String	Indicates the account balance of all the affected accounts of debit party。 For each account, the fields are presented in the following order and separated by vertical bars (|): **amp;** is used as the separator of different accounts. Eg. <Key>DebitPartyAffectedAccountBalance</Key> <Value>MMF Organization Account|KES|2714803.00|2714803.00|0.00|50000000.00</Value>

5.15 Balance Query from the Business Customer

Description
This is a new request to check a Balance for the associated Business Customer. In case the initiator is associated to the Merchant HO, it can request a balance query of merchant store within the hierarchy. No financial transaction would be created. It will just respond back with the balance within the account at the time of request.

Input Parameters		
ShortCode	Integer	The short code associated to the business or store.
OrgShortCodeList	String	List of short code of the organizations whose balances need to be checked. Each short code must be delimited by ; The total number of short codes in the list must not exceed the Maximum configured in the system.(Optional)
AccountType	String	The account type alias in the M-Pesa system for querying balance. If this parameter is absent, the balance of all accounts will be returned in the Result. (Optional)

Output Parameters		
ResultType	ResultType	It describes the state of the request, for single staged it would be only completed.
ResultCode	String	Response code
ResultDescription	String	Response description
ConversationId	GUID	M-Pesa conversation id
OriginatorConversationId	String	Third party conversation id
ResultParameters		
ShortCode	String	The organisation short code for which the balance request is performed
OrganisationName	String	The organisation name associated to the short code.
Account Balance SetTime	DateTime	The date time when the balance was last updated.
Account Number	String	The M-Pesa generated account number which can be viewed on the identity page.
Working Account Available Funds	Decimal	Mmf account available balance.
Working Account Uncleared Funds	Decimal	Mmf account uncleared balance.
Working Account Reserved Funds	Decimal	Mmf account reserved balance.
Charges Paid Account Available Funds	Decimal	Charge paid account available balance
Charges Paid Account Uncleared Funds	Decimal	Charge paid account uncleared balance
Charges Paid Account Reserved Funds	Decimal	Charge paid account reserved balance

Utility Account Available Funds	Decimal	Utility account available balance
Utility Account Uncleared Funds	Decimal	Utility account uncleared balance
Utility Account Reserved Funds	Decimal	Utility account reserved balance
BOCompletedTime	String	The data time when the business operation was completed, as recorded in the M-Pesa system. Format: *YYYYMMDDhhmmss*
AccountBalance	String	Indicates the accounts balance of organizations to be queried. For each account, the fields are presented in the following order and separated by vertical bars (|): Format: <Account Type Alias>|<Currency>|<Current Balance>|<Available Balance>|<Reserved Balance>|<Unclear Balance> & is used as the separator of different accounts. For each organization, a short code will be added before the accounts, separated by vertical bars (|): Format: <Shot Code> |<Account 1 Balance>| <Account 2 Balance>|… #; is used as the separator of a different organization In case, when failed to query one of the organization, such as: ✓ No organization is found by the organization short code ✓ This organization is not a sub-organization of the initiator The system will return: Format: <Shot Code> |Failed

5.16 Transaction Status Query

Description		
It is a new request to make a transaction status inquiry. All the initiator or caller can perform this request to check the transaction status of the already performed request.		
Input Parameters		
OriginatorConversationID	String	Pass one of these parameter to search for the transaction. In case the transaction is older than 15 days use only ReceiptNumber to search for the transaction status. It wont return any result in case OriginatorConversationID or ConversationID is used.
ConversationID	String	Pass one of these parameter to search for the transaction. In case the transaction is older than 15 days use only ReceiptNumber to search for the transaction status. It wont return any result in case OriginatorConversationID or ConversationID is used.
ReceiptNumber	String	Pass one of these parameter to search for the transaction. In case the transaction is older than 15 days use only ReceiptNumber to search for the transaction status. It wont return any result in case OriginatorConversationID or ConversationID is used.
Output Parameters		
ResultType	ResultType	It mentions the state of the transaction. If successfully done it would say **Completed**
ResultCode	string	Response code
ResultDescription	String	Response description
ConversationId	GUID	M-Pesa conversation id
OriginatorConversationId	String	Third party conversation id

ResultParameters		
InitiatedTime	Datetime	Transaction initiated Time.
FinalisedTime	Datetime	Transaction Finalised Time
TransactionType	String	Transaction type associated to the receipt number
ReceiptNo	String	Transaction ReceiptNo
TransactionStatus	String	Transaction status outcome
TransactionReason	String	Transaction reason in case of decline
DebitPartyName	String	Debit party identity name
CreditPartyName	String	Credit party identity name
DebitAccountType	String	Debit party account type
DebitAccountBalance	Decimal	Debit party account balance
ReasonType	String	
Originator Conversation ID	String	
Conversation ID	String	
Amount	String	
DebitPartyCharges	String	
CreditPartyCharges	String	

Example

6.1 B2B Transactions

This scenario will apply for all the typical B2B transactions described. They include;

- BusinessBuyGoods
- BusinessPayBill
- DisburseFundsToBusiness
- BusinessToBusinessTransfer
- BusinessTransferFromMMFToUtility
- BusinessTransferFromUtilityToMMF
- MerchantToMerchantTransfer
- MerchantTransferFromMerchantToWorking
- MerchantTransferFromWorkingToMerchant
- MerchantServicesMMFAccountTransfer
- AgencyFloatAdvance

6.1.1 GenericApiRequest

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:req="http://api-
v1.gen.mm.vodafone.com/mminterface/request">

  <soapenv:Header>

    <tns:RequestSOAPHeader xmlns:tns="http://www.huawei.com/schema/osg/common/v2_1">

      <tns:spId>898989</tns:spId>

<tns:spPassword>REQ5OEM1Njc0RTI5ODMwQkJDNzg1OTE5OEYzRTZDNDJGRjgwOTgyQzg2Qzk3Q0QwQwRTRDOT
c5QkIyRTZGRTlEQg==</tns:spPassword>

      <tns:timeStamp>20140223113340</tns:timeStamp>

      <tns:serviceId>898989000</tns:serviceId>

    </tns:RequestSOAPHeader>

  </soapenv:Header>

  <soapenv:Body>

    <req:RequestMsg><![CDATA[<?xml version='1.0' encoding='UTF-8'?><request xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">

<Transaction>

      <CommandID>BusinessPayBill</CommandID>
```

```xml
        <LanguageCode></LanguageCode>

        <OriginatorConversationID>CV3-844355122-244w1a-ggz</OriginatorConversationID>

        <ConversationID></ConversationID>

        <Remark>0</Remark>
<Parameters>
<Parameter>

        <Key>Amount</Key>

        <Value>-7000</Value>
</Parameter>
<Parameter>

        <Key>AccountReference</Key>

        <Value>7000</Value>
</Parameter>
</Parameters>
<ReferenceData>

        <ReferenceItem>

            <Key>QueueTimeoutURL</Key>

            <Value>http://10.66.49.201:</Value>

        </ReferenceItem></ReferenceData>

        <Timestamp>2014-09-30T11:03:19.111+03:00</Timestamp>
</Transaction>
<Identity>

        <Caller>

            <CallerType>2</CallerType>

            <ThirdPartyID>broker_4</ThirdPartyID>

            <Password> +JDzEIAwG4IJx98dh5C4AOA==</Password>

            <CheckSum>null</CheckSum>

            <ResultURL>http://10.66.50.133:8097/</ResultURL>

        </Caller>
<Initiator>
```

```
            <IdentifierType>11</IdentifierType>

            <Identifier>simulator</Identifier>


<SecurityCredential>pnrgp7djZmWBKdLDzLkdeUrFyzfQULTc+ezg+i/TcgYVCYBB9C4MalfdBidZaEagZYWMFjqC0CjL
QWLrd602zhtt1kRtuxQUQHAqEem6z8uEZxcbGhYyQsNbo+3RKq8dC5IC7ITPg61LkaehLnyOx2CbA2/jkQG8JMOljggl
1np+7wtbBWZ7yr5cLfkbrYvIppkUprvQ+QA8VJnlbFxmvBTdTFkKVVLFlmxeErsv5pyEseOlJFLocHuVmxyaXvM3aY1UA
5GQzBqxC0S51yNZwxFJHyzkETUE7S+tJjfBwAChy0oVn6ChfAZH6MhGjp8wf5aA==</SecurityCredential>

<ShortCode>992708</ShortCode>

    </Initiator>


            <PrimaryParty>

                <IdentifierType>4</IdentifierType>

                <Identifier>992708</Identifier>

                <ShortCode></ShortCode>

            </PrimaryParty>

        <ReceiverParty>

            <IdentifierType>4</IdentifierType>

            <Identifier>376850</Identifier>

            <ShortCode></ShortCode>

        </ReceiverParty>

        <AccessDevice>

            <IdentifierType>4</IdentifierType>

            <Identifier>1</Identifier>

            </AccessDevice></Identity>

            <KeyOwner>1</KeyOwner>

        </request>]]></req:RequestMsg>

    </soapenv:Body>

</soapenv:Envelope>
```

6.1.2 GenericApiResponse

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">

    <soapenv:Body>
```

```
    <req:ResponseMsg        xmlns:req="http://api-v1.gen.mm.vodafone.com/mminterface/request"><![CDATA[<?xml        version="1.0"
encoding="UTF-8"?><response                                                                                    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/response"><ResponseCode>0</ResponseCode><ConversationID>AG_20150424_0000626ec4a
eb2ca2256</ConversationID><ResponseDesc>Accept                            the                    service                    request
successfully.</ResponseDesc><OriginatorConversationID>CV3-844355122-244w1a-
ggz</OriginatorConversationID><ServiceStatus>0</ServiceStatus></response>]]></req:ResponseMsg>

    </soapenv:Body>

  </soapenv:Envelope>
```

6.1.3 GenericAPiResult

```
  <soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">

    <soapenv:Body>

    <res:ResultMsg        xmlns:res="http://api-v1.gen.mm.vodafone.com/mminterface/result"><![CDATA[<?xml        version="1.0"
encoding="UTF-8"?><Result                                                                                      xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/result"><ResultType>0</ResultType><ResultCode>0</ResultCode><ResultDesc>Accept    the
service            request            successfully.</ResultDesc><OriginatorConversationID>CV3-844111355122-244w1a-
ggz</OriginatorConversationID><ConversationID>AG_20150424_0000643cae726da52ba8</ConversationID><TransactionID>JDO71LM
99</TransactionID><ResultParameters><ResultParameter><Key>InitiatorAccountCurrentBalance</Key><Value>{Amount={BasicAmount
=2714803.00,                                                                                   MinimumAmount=271480300,
CurrencyCode=KES}}</Value></ResultParameter><ResultParameter><Key>DebitAccountCurrentBalance</Key><Value>{Amount={Basic
Amount=2714803.00,                                                                             MinimumAmount=271480300,
CurrencyCode=KES}}</Value></ResultParameter><ResultParameter><Key>Amount</Key><Value>7000.00</Value></ResultParameter>
<ResultParameter><Key>DebitPartyAffectedAccountBalance</Key><Value>MMF                                         Organization
Account|KES|2714803.00|2714803.00|0.00|50000000.00</Value></ResultParameter><ResultParameter><Key>TransCompletedTime</K
ey><Value>20150424170252</Value></ResultParameter><ResultParameter><Key>DebitPartyCharges</Key><Value></Value></ResultP
arameter><ResultParameter><Key>ReceiverPartyPublicName</Key><Value>888888                    -                    KPLC
TEST</Value></ResultParameter><ResultParameter><Key>CreditPartyAffectedAccountBalance</Key><Value>Utility
Account|KES|11000.00|11000.00|0.00|0.00&Charges                            Paid                    Account|KES|-385.00|-
385.00|0.00|0.00</Value></ResultParameter><ResultParameter><Key>CreditAccountCurrentBalance</Key><Value>{Amount={BasicAmo
unt=11000.00,                                                                                  MinimumAmount=1100000,
CurrencyCode=KES}}</Value></ResultParameter><ResultParameter><Key>Currency</Key><Value>KES</Value></ResultParameter></
ResultParameters><ReferenceData><ReferenceItem><Key>BillReferenceNumber</Key><Value>7000</Value></ReferenceItem><Refere
nceItem><Key>QueueTimeoutURL</Key><Value>http://10.66.49.201:</Value></ReferenceItem></ReferenceData></Result>]]></res:Res
ultMsg>

    </soapenv:Body>

  </soapenv:Envelope>
```

6.2 OrgRevenueSettlement

6.2.1 GenericApiRequest

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:req="http://api-
v1.gen.mm.vodafone.com/mminterface/request">

  <soapenv:Header>

    <tns:RequestSOAPHeader xmlns:tns="http://www.huawei.com/schema/osg/common/v2_1">

      <tns:spId>898989</tns:spId>

<tns:spPassword>REQ5OEM1Njc0RTI5ODMwQkJDNzg1OTE5OEYzRTZDNDJGRjgwOTgyQzg2Qzk3Q0QwRTRRDOT
c5QkIyRTZGRTIEQg==</tns:spPassword>

      <tns:timeStamp>20140223113340</tns:timeStamp>

      <tns:serviceId>898989000</tns:serviceId>

    </tns:RequestSOAPHeader>

  </soapenv:Header>

  <soapenv:Body>

    <req:RequestMsg><![CDATA[<?xml version='1.0' encoding='UTF-8'?><request xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">

<Transaction>

    <CommandID>OrgRevenueSettlement</CommandID>

    <LanguageCode></LanguageCode>

    <OriginatorConversationID>11135511223-244w1a-ggz</OriginatorConversationID>

    <ConversationID></ConversationID>

    <Remark>0</Remark>

<Parameters>

<Parameter>

    <Key>HeadOffice</Key>

    <Value></Value>

</Parameter>


</Parameters>
```

```xml
<ReferenceData>

    <ReferenceItem>

        <Key>QueueTimeoutURL</Key>

        <Value>http://10.66.49.201:</Value>

    </ReferenceItem></ReferenceData>

    <Timestamp>2014-09-30T11:03:19.111+03:00</Timestamp>

</Transaction>

<Identity>

    <Caller>

        <CallerType>2</CallerType>

        <ThirdPartyID>broker_4</ThirdPartyID>

        <Password> +JDzEIAwG4IJx98dh5C4AOA==</Password>

        <CheckSum>null</CheckSum>

        <ResultURL>http://10.66.50.133:8097/</ResultURL>

    </Caller>

<Initiator>

        <IdentifierType>11</IdentifierType>

        <Identifier>simulator</Identifier>


<SecurityCredential>pnrgp7djZmWBKdLDzLkdeUrFyzfQULTc+ezg+i/TcgYVCYBB9C4MalfdBidZaEagZYWMFjqC0CjL
QWLrd602zhtt1kRtuxkQ76rHf5s17jq4FXtmQUQHAqEem6z8uEZxcbGhYyQsNbo+3RKq8dC5IC7ITPg61LkaehLnyOx2
CbA2/jkQG8JMOIjggl1np+7wtbBWZ7yr5cLfkbrYvIppkUprvQ+QA8VJnlbFxmvBTdTFkKVVLFlmxeErsv5pyEseOlJFLocH
uVmxyaXvM3aY1UA5GQzBqxC0S51yNZwxFJHyzkETUE7S+tJjfBwAChy0oVn6ChfAZH6MhGjp8wf5aA==</SecurityCr
edential>

<ShortCode>797900</ShortCode>

    </Initiator>


        <PrimaryParty>

            <IdentifierType>4</IdentifierType>

            <Identifier>797900</Identifier>

            <ShortCode></ShortCode>

        </PrimaryParty>
```

```
            <ReceiverParty>

                <IdentifierType>4</IdentifierType>

                <Identifier>797900</Identifier>

                <ShortCode></ShortCode>

            </ReceiverParty>

            <AccessDevice>

                <IdentifierType>4</IdentifierType>

                <Identifier>1</Identifier>

                </AccessDevice></Identity>

                <KeyOwner>1</KeyOwner>

            </request>]]></req:RequestMsg>

    </soapenv:Body>

</soapenv:Envelope>
```

6.2.2 GenericApiResponse

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">

  <soapenv:Body>

    <req:ResponseMsg xmlns:req="http://api-v1.gen.mm.vodafone.com/mminterface/request"><![CDATA[<?xml
version="1.0" encoding="UTF-8"?><response xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/response"><ResponseCode>0</ResponseCode><ConversationID>AG_20150
424_00005422d2042748a855</ConversationID><ResponseDesc>Accept the service request
successfully.</ResponseDesc><OriginatorConversationID>11135511223-244w1a-
ggz</OriginatorConversationID><ServiceStatus>0</ServiceStatus></response>]]></req:ResponseMsg>

    </soapenv:Body>

</soapenv:Envelope>
```

6.2.3 GenericAPiResult

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">

  <soapenv:Body>

    <res:ResultMsg xmlns:res="http://api-v1.gen.mm.vodafone.com/mminterface/result"><![CDATA[<?xml version="1.0"
encoding="UTF-8"?><Result xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/result"><ResultType>0</ResultType><ResultCode>0</ResultCode><ResultDe
sc>Accept the service request successfully.</ResultDesc><OriginatorConversationID>11135511223-244w1a-
ggz</OriginatorConversationID><ConversationID>AG_20150424_00005422d2042748a855</ConversationID><Transa
```

ctionID>JDOJ1LNTP</TransactionID><ResultParameters><ResultParameter><Key>FundsMovement</Key><Value>Merchant Account|Organization Settlement Account|KES|0.00&Organization Settlement Account|Charges Paid Account|KES|0.00&Working Account|Organization Settlement Account|KES|0.00</Value></ResultParameter><ResultParameter><Key>AccountBalanceAfterSettlement</Key><Value>Working Account|KES|56.03|56.03|0.00|0.00&Utility Account|KES|0.00|0.00|0.00|0.00&Charges Paid Account|KES|0.00|0.00|0.00|0.00&Merchant Account|KES|0.00|0.00|0.00|0.00&Organization Settlement Account|KES|0.00|0.00|0.00|0.00</Value></ResultParameter><ResultParameter><Key>BOCompletedTime</Key><Value>20150424183949</Value></ResultParameter><ResultParameter><Key>SettlementPlanID</Key><Value>172110</Value></ResultParameter></ResultParameters><ReferenceData><ReferenceItem><Key>QueueTimeoutURL</Key><Value>http://10.66.49.201:</Value></ReferenceItem></ReferenceData></Result>]]></res:ResultMsg>

   </soapenv:Body>

</soapenv:Envelope>

6.3 OrgBankAccountWithdrawal

6.3.1 GenericApiRequest

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:req="http://api-v1.gen.mm.vodafone.com/mminterface/request">

  <soapenv:Header>

    <tns:RequestSOAPHeader xmlns:tns="http://www.huawei.com/schema/osg/common/v2_1">

      <tns:spId>898989</tns:spId>

<tns:spPassword>REQ5OEM1Njc0RTI5ODMwQkJDNzg1OTE5OEYzRTZDNDJGRjgwOTgyQzg2Qzk3Q0QwwRTRDOTc5QkIyRTZGRTlEQg==</tns:spPassword>

      <tns:timeStamp>20140223113340</tns:timeStamp>

      <tns:serviceId>898989000</tns:serviceId>

    </tns:RequestSOAPHeader>

  </soapenv:Header>

  <soapenv:Body>

    <req:RequestMsg><![CDATA[<?xml version='1.0' encoding='UTF-8'?><request xmlns="http://api-v1.gen.mm.vodafone.com/mminterface/request">

<Transaction>

      <CommandID>OrgBankAccountWithdrawal</CommandID>

      <LanguageCode></LanguageCode>

```xml
        <OriginatorConversationID>CV3-84122752721313411355122-244w1a-ggz</OriginatorConversationID>

        <ConversationID></ConversationID>

        <Remark>0</Remark>
<Parameters>
 <Parameter>

        <Key>HeadOffice</Key>

        <Value></Value>

    </Parameter>

    <Parameter>

        <Key>Amount</Key>

        <Value>35000</Value>

    </Parameter>




</Parameters>
<ReferenceData>

    <ReferenceItem>

        <Key>QueueTimeoutURL</Key>

        <Value>http://10.66.49.201:</Value>

    </ReferenceItem></ReferenceData>

    <Timestamp>2014-09-30T11:03:19.111+03:00</Timestamp>
</Transaction>
<Identity>

    <Caller>

        <CallerType>2</CallerType>

        <ThirdPartyID>broker_4</ThirdPartyID>

        <Password> dh5C4AOA==</Password>

        <CheckSum>null</CheckSum>

        <ResultURL>http://10.66.50.133:8097/</ResultURL>
```

```
        </Caller>
<Initiator>

        <IdentifierType>11</IdentifierType>

        <Identifier>simulator</Identifier>


<SecurityCredential>pnrgp7djZmWBKdLDzLkdeUrFyzfQULTc+ezg+i/TcgYVCYBB9C4MalfdBidZaEagZYWMFjqC0CjL
QWLrd602zhtt1kRtuxkQ76rHf5s17jq4FXtmQUQHAqEem6z8uEZxcbGhYyQsNbo+3RKq8dC5IC7ITPg61LkaehLnyOx2
CbA2/jkQG8JMOIjggl1np+7wtbBWZ7yr5cLfkbrYvIppkUprvQ+QA8VJnlbFxmvBTdTFkKVVLFlmxeErsv5pyEseOlJFLocH
uVmxyaXvM3aY1UA5GQzBqxC0S51yNZwxFJHyzkETUE7S+tJjfBwAChy0oVn6ChfAZH6MhGjp8wf5aA==</SecurityCr
edential>

<ShortCode>888888</ShortCode>

    </Initiator>



        <PrimaryParty>

            <IdentifierType>4</IdentifierType>

            <Identifier>888888</Identifier>

            <ShortCode></ShortCode>

        </PrimaryParty>



    <AccessDevice>

        <IdentifierType>4</IdentifierType>

        <Identifier>1</Identifier>

        </AccessDevice></Identity>

        <KeyOwner>1</KeyOwner>

    </request>]]></req:RequestMsg>

  </soapenv:Body>
```

6.3.2 GenericApiResponse

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">

  <soapenv:Body>

    <req:ResponseMsg xmlns:req="http://api-v1.gen.mm.vodafone.com/mminterface/request"><![CDATA[<?xml
version="1.0" encoding="UTF-8"?><response xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/response"><ResponseCode>0</ResponseCode><ConversationID>AG_20150
```

424_000079089ed6afaef43e</ConversationID><ResponseDesc>Accept the service request successfully.</ResponseDesc><OriginatorConversationID>CV3-84122752721313411355122-244w1a-ggz</OriginatorConversationID><ServiceStatus>0</ServiceStatus></response>]]></req:ResponseMsg>

   </soapenv:Body>

</soapenv:Envelope>

6.3.3 GenericAPiResult

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">

   <soapenv:Body>

      <res:ResultMsg xmlns:res="http://api-v1.gen.mm.vodafone.com/mminterface/result"><![CDATA[<?xml version="1.0" encoding="UTF-8"?><Result xmlns="http://api-v1.gen.mm.vodafone.com/mminterface/result"><ResultType>0</ResultType><ResultCode>0</ResultCode><ResultDesc>Accept the service request successfully.</ResultDesc><OriginatorConversationID>CV3-84122752721313411355122-244w1a-ggz</OriginatorConversationID><ConversationID>AG_20150424_000079089ed6afaef43e</ConversationID><TransactionID>JDO61LLIU</TransactionID><ResultParameters><ResultParameter><Key>Amount</Key><Value>35000</Value></ResultParameter><ResultParameter><Key>DebitPartyCharges</Key><Value></Value></ResultParameter><ResultParameter><Key>TransCompletedTime</Key><Value>20150424191131</Value></ResultParameter><ResultParameter><Key>DebitPartyAffectedAccountBalance</Key><Value>Working Account|KES|140000.00|140000.00|0.00|0.00</Value></ResultParameter></ResultParameters><ReferenceData><ReferenceItem><Key>QueueTimeoutURL</Key><Value>http://10.66.49.201:</Value></ReferenceItem></ReferenceData></Result>]]></res:ResultMsg>

   </soapenv:Body>

</soapenv:Envelope>

6.4 TransactionStatusQuery

6.4.1 GenericApiRequest

ReceiptNumber

<soapenv:Envelope   xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"   xmlns:req="http://api-v1.gen.mm.vodafone.com/mminterface/request">

   <soapenv:Header>

     <tns:RequestSOAPHeader xmlns:tns="http://www.huawei.com/schema/osg/common/v2_1">

       <tns:spId>151815</tns:spId>

```
<tns:spPassword>ODExNERCMDICNjVDRkYxQUFCNzE5MkE1OEQyMjJDMzk1RUFCNzgwMjk2ODE4Rjk1OTE2MEFGGNDU1QkRCMD
kyMg==</tns:spPassword>

      <tns:timeStamp>20140730093620</tns:timeStamp>

      <tns:serviceId>151815000</tns:serviceId>

   </tns:RequestSOAPHeader>

  </soapenv:Header>

  <soapenv:Body>

    <req:RequestMsg><![CDATA[<?xml              version='1.0'           encoding='UTF-8'?><request              xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">

  <Transaction>

    <CommandID>TransactionStatusQuery</CommandID>

    <LanguageCode>0</LanguageCode>

    <OriginatorConversationID>R9I1-7894-7895-4125-770</OriginatorConversationID>

    <ConversationID></ConversationID>

    <Remark>0</Remark>

  <Parameters><Parameter>

   <Key>ReceiptNumber</Key>

   <Value>X-IL144</Value>

  </Parameter>


  </Parameters>

  <ReferenceData>

    <ReferenceItem>

            <Key>QueueTimeoutURL</Key>

            <Value>http://10.66.49.201:8989/</Value>

    </ReferenceItem></ReferenceData>

    <Timestamp>2014-09-27T12:53:19.0000521Z</Timestamp>

  </Transaction>

  <Identity>

    <Caller>
```

```
        <CallerType>2</CallerType>

        <ThirdPartyID>898940</ThirdPartyID>

        <Password>Password0</Password>

        <CheckSum>CheckSum0</CheckSum>

        <ResultURL>http://10.66.49.201:8096/</ResultURL>

   </Caller>

   <Initiator>

        <IdentifierType>11</IdentifierType>

        <Identifier>c2bib</Identifier>


   <SecurityCredential>bJJbCA4QT/W7pVT9g+3dctjQIFU2ojSUVeqz5YUB+uUp66D9UhjjZshXJy+9mDeSpRnEQbs6H8wGrhh23AVuP2
/cyDqE6xfhaShW3KdtVt+AquatUaBfLb6SPgN9egkUkn4hsXWk+nhfY7RsmdMKy4IRBYTijMuePe6yGw17keEjZOL4+k4nWa1jVvRpPI6uA
FJSY33pIxuLh2Tx+kArg5I4B4JQKOiw2m7CPnVU0jhvq8xsGarOIn2COCjEt3G/Br0WpnrK71+HzvhABh9U8lnN25EvU7rjATzLwlF8MgVv+k
u2HDS62x0ZmTKUXH1srsSBaKEjiThccFrfXTEkFQ==</SecurityCredential>

        <ShortCode>898940</ShortCode>

   </Initiator>

        <PrimaryParty>

                <IdentifierType>4</IdentifierType>

                <Identifier>898940</Identifier>

                <ShortCode></ShortCode>

        </PrimaryParty>

   <ReceiverParty>

        <IdentifierType>4</IdentifierType>

        <Identifier>898940</Identifier>

        <ShortCode></ShortCode>

   </ReceiverParty>

   <AccessDevice>

        <IdentifierType>1</IdentifierType>

        <Identifier>Identifier3</Identifier>

        </AccessDevice></Identity>

        <KeyOwner>1</KeyOwner>
```

```
    </request>]]></req:RequestMsg>

  </soapenv:Body>

</soapenv:Envelope>
```

OriginatorConversationID

```
<soapenv:Envelope                    xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"                    xmlns:req="http://api-
v1.gen.mm.vodafone.com/mminterface/request">

  <soapenv:Header>

    <tns:RequestSOAPHeader xmlns:tns="http://www.huawei.com/schema/osg/common/v2_1">

      <tns:spId>151815</tns:spId>

<tns:spPassword>ODExNERCMDICNjVDRkYxQUFCNzE5MkE1OEQyMjJDMzk1RUFCNzgwMjk2ODE4Rjk1OTE2MEFGGNDU1QkRCMD
kyMg==</tns:spPassword>

      <tns:timeStamp>20140730093620</tns:timeStamp>

      <tns:serviceId>151815000</tns:serviceId>

    </tns:RequestSOAPHeader>

  </soapenv:Header>

  <soapenv:Body>

    <req:RequestMsg><![CDATA[<?xml                 version='1.0'                 encoding='UTF-8'?><request                 xmlns='http://api-
v1.gen.mm.vodafone.com/mminterface/request'>

  <Transaction>

    <CommandID>TransactionStatusQuery</CommandID>

    <LanguageCode>0</LanguageCode>

    <OriginatorConversationID>R9I1-7894-7895-4125-771</OriginatorConversationID>

    <ConversationID></ConversationID>

    <Remark>0</Remark>

  <Parameters><Parameter>

    <Key>OriginatorConversationID</Key>

    <Value>R9I1-7894-7895-4125-768</Value>

  </Parameter>


  </Parameters>
```

```
<ReferenceData>

  <ReferenceItem>

          <Key>QueueTimeoutURL</Key>

          <Value>http://10.66.49.201:8989/</Value>

  </ReferenceItem></ReferenceData>

  <Timestamp>2014-09-27T12:53:19.0000521Z</Timestamp>

</Transaction>

<Identity>

  <Caller>

          <CallerType>2</CallerType>

          <ThirdPartyID>898940</ThirdPartyID>

          <Password>Password0</Password>

          <CheckSum>CheckSum0</CheckSum>

          <ResultURL>http://10.66.49.201:8096/</ResultURL>

  </Caller>

  <Initiator>

          <IdentifierType>11</IdentifierType>

          <Identifier>c2bib</Identifier>


  <SecurityCredential>bJJbCA4QT/W7pVT9g+3dctjQIFU2ojSUVeqz5YUB+uUp66D9UhjjZshXJy+9mDeSpRnEQbs6H8wGrhh23AVuP2
/cyDqE6xfhaShW3KdtVt+AquatUaBfLb6SPgN9egkUkn4hsXWk+nhfY7RsmdMKy4IRBYTijMuePe6yGw17keEjZOL4+k4nWa1jVvRpPI6uA
FJSY33pIxuLh2Tx+kArg5I4B4JQKOiw2m7CPnVU0jhvq8xsGarOIn2COCjEt3G/Br0WpnrK71+HzvhABh9U8lnN25EvU7rjATzLwlF8MgVv+k
u2HDS62x0ZmTKUXH1srsSBaKEjiThccFrfXTEkFQ==</SecurityCredential>

          <ShortCode>898940</ShortCode>

  </Initiator>

          <PrimaryParty>

                  <IdentifierType>4</IdentifierType>

                  <Identifier>898940</Identifier>

                  <ShortCode></ShortCode>

          </PrimaryParty>

  <ReceiverParty>
```

```
        <IdentifierType>4</IdentifierType>

        <Identifier>898940</Identifier>

        <ShortCode></ShortCode>

    </ReceiverParty>

    <AccessDevice>

        <IdentifierType>1</IdentifierType>

        <Identifier>Identifier3</Identifier>

        </AccessDevice></Identity>

        <KeyOwner>1</KeyOwner>

    </request>]]></req:RequestMsg>

    </soapenv:Body>

</soapenv:Envelope>
```

ConversationID

```
<soapenv:Envelope                xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"                xmlns:req="http://api-
v1.gen.mm.vodafone.com/mminterface/request">

    <soapenv:Header>

      <tns:RequestSOAPHeader xmlns:tns="http://www.huawei.com/schema/osg/common/v2_1">

        <tns:spId>151515</tns:spId>


<tns:spPassword>ODExNERCMDICNjVDRkYxQUFCNzE5MkE1OEQyMjJJDMzk1RUFCNzgwMjk2ODE4Rjk1OTE2MEFGGNDU1QkRCMD
kyMg==</tns:spPassword>

        <tns:timeStamp>20140730093620</tns:timeStamp>

        <tns:serviceId>151515000</tns:serviceId>

      </tns:RequestSOAPHeader>

    </soapenv:Header>

    <soapenv:Body>

      <req:RequestMsg><![CDATA[<?xml                version='1.0'                encoding='UTF-8'?><request                xmlns='http://api-
v1.gen.mm.vodafone.com/mminterface/request'>

  <Transaction>

    <CommandID>TransactionStatusQuery</CommandID>

    <LanguageCode>0</LanguageCode>
```

```
<OriginatorConversationID>R9I1-7894-7895-4125-772</OriginatorConversationID>

<ConversationID></ConversationID>

<Remark>0</Remark>

<Parameters><Parameter>

<Key>ConversationID</Key>

<Value>e2b2b4db-62a0-457f-927c-9b442f65bb15</Value>

</Parameter>


</Parameters>

<ReferenceData>

<ReferenceItem>

<Key>QueueTimeoutURL</Key>

<Value>http://10.66.49.201:8989/</Value>

</ReferenceItem></ReferenceData>

<Timestamp>2014-09-27T12:53:19.0000521Z</Timestamp>

</Transaction>

<Identity>

<Caller>

<CallerType>2</CallerType>

<ThirdPartyID>898940</ThirdPartyID>

<Password>Password0</Password>

<CheckSum>CheckSum0</CheckSum>

<ResultURL>http://10.66.49.201:8096/</ResultURL>

</Caller>

<Initiator>

<IdentifierType>11</IdentifierType>

<Identifier>c2bib</Identifier>

<SecurityCredential>bJJbCA4QT/W7pVT9g+3dctjQIFU2ojSUVeqz5YUB+uUp66D9UhjjZshXJy+9mDeSpRnEQbs6H8wGrhh23AVuP2
/cyDqE6xfhaShW3KdtVt+AquatUaBfLb6SPgN9egkUkn4hsXWk+nhfY7RsmdMKy4IRBYTijMuePe6yGw17keEjZOL4+k4nWa1jVvRpPI6uA
```

```
FJSY33pIxuLh2Tx+kArg5I4B4JQKOiw2m7CPnVU0jhvq8xsGarOIn2COCjEt3G/Br0WpnrK71+HzvhABh9U8lnN25EvU7rjATzLwlF8MgVv+k
u2HDS62x0ZmTKUXH1srsSBaKEjiThccFrfXTEkFQ==</SecurityCredential>

            <ShortCode>898940</ShortCode>

    </Initiator>

            <PrimaryParty>

                    <IdentifierType>4</IdentifierType>

                    <Identifier>898940</Identifier>

                    <ShortCode></ShortCode>

            </PrimaryParty>

    <ReceiverParty>

            <IdentifierType>4</IdentifierType>

            <Identifier>898940</Identifier>

            <ShortCode></ShortCode>

    </ReceiverParty>

    <AccessDevice>

            <IdentifierType>1</IdentifierType>

            <Identifier>Identifier3</Identifier>

            </AccessDevice></Identity>

            <KeyOwner>1</KeyOwner>

    </request>]]></req:RequestMsg>

    </soapenv:Body>

  </soapenv:Envelope>
```

6.4.2 GenericApiResponse

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">

  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">

    <ResponseMsg                    xmlns="http://api-v1.gen.mm.vodafone.com/mminterface/request"><![CDATA[<Response
xmlns:i="http://www.w3.org/2001/XMLSchema-instance"                                    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/response"><ResponseCode>0</ResponseCode><ConversationID>33922665-4506-40c5-9a8d-
4b1508ab6a81</ConversationID><OriginatorConversationID>R9I1-7894-7895-4125-
770</OriginatorConversationID><ServiceStatus>0</ServiceStatus></Response>]]></ResponseMsg>

    </s:Body>
```

```
</s:Envelope>
```

6.4.3 GenericAPiResult

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">

  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">

    <ResultMsg                          xmlns="http://api-v1.gen.mm.vodafone.com/mminterface/result"><![CDATA[<Result
xmlns:i="http://www.w3.org/2001/XMLSchema-instance"                                              xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/result"><ResultType>Completed</ResultType><ResultCode>0</ResultCode><ResultDesc>Succe
ss</ResultDesc><OriginatorConversationID>R9I1-7894-7895-4125-770</OriginatorConversationID><ConversationID>33922665-4506-
40c5-9a8d-4b1508ab6a81</ConversationID><ResultParameters><Parameter><Key                                 xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">InitiatedTime</Key><Value                                     xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">26/08/2014        23:05:33</Value></Parameter><Parameter><Key     xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">FinalisedTime</Key><Value                                     xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">26/08/2014        23:05:33</Value></Parameter><Parameter><Key     xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">TransactionType</Key><Value                                   xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">Business       Pay      Bill</Value></Parameter><Parameter><Key  xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">ReceiptNo</Key><Value                                        xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">X-IL144</Value></Parameter><Parameter><Key                       xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">TransactionStatus</Key><Value                                 xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">Completed</Value></Parameter><Parameter><Key                     xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">TransactionReason</Key><Value           i:nil="true"          xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request"                  /></Parameter><Parameter><Key                 xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">DebitPartyName</Key><Value                                    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">898940        -     Test2b</Value></Parameter><Parameter><Key   xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">CreditPartyName</Key><Value                                   xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">898940        -     Test2b</Value></Parameter><Parameter><Key   xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">DebitAccountType</Key><Value                                  xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">MMF         Account</Value></Parameter><Parameter><Key           xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">DebitAccountBalance</Key><Value                               xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">14880.0000</Value></Parameter></ResultParameters><ReferenceData><ReferenceIte
m><Key       xmlns="http://api-v1.gen.mm.vodafone.com/mminterface/request">QueueTimeoutURL</Key><Value       xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">http://10.66.49.201:8989/</Value></ReferenceItem></ReferenceData></Result>]]></Res
ultMsg>

  </s:Body>

</s:Envelope>
```

PROJECT NAME: M-PESA	Safaricom
DOCUMENT NAME: DEVELOPER'S GUIDE- B2B INTERFACE	VERSION: 0.3
COMPANY/DIVISION: PRODUCT AND SERVICE DEVELOPMENT	DATE: 24TH APRIL 2015

81

6.5 Balance Check

6.5.1 GenericApiRequest

```
<soapenv:Envelope          xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"          xmlns:req="http://api-
v1.gen.mm.vodafone.com/mminterface/request">

   <soapenv:Header>

     <tns:RequestSOAPHeader xmlns:tns="http://www.huawei.com/schema/osg/common/v2_1">

       <tns:spId>151815</tns:spId>

<tns:spPassword>ODExNERCMDlCNjVDRkYxQUFCNzE5MkE1OEQyMjJDMzk1RUFCNzgwMjk2ODE4Rjk1OTE2MEFGGNDU1QkRCMD
kyMg==</tns:spPassword>

       <tns:timeStamp>20140730093620</tns:timeStamp>

       <tns:serviceId>151815000</tns:serviceId>

     </tns:RequestSOAPHeader>

   </soapenv:Header>

   <soapenv:Body>

     <req:RequestMsg><![CDATA[<?xml          version='1.0'          encoding='UTF-8'?><request          xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">

  <Transaction>

    <CommandID>AccountBalance</CommandID>

    <LanguageCode>0</LanguageCode>

    <OriginatorConversationID>LNM-7894-7895-2000-101</OriginatorConversationID>

    <ConversationID></ConversationID>

    <Remark>0</Remark>

  <Parameters>

  <Parameter>

        <Key>ShortCode</Key>

        <Value>898947</Value>

      </Parameter>

  </Parameters>

  <ReferenceData>
```

```
<ReferenceItem>

        <Key>QueueTimeoutURL</Key>

        <Value>http://10.66.49.201:8989/</Value>

</ReferenceItem></ReferenceData>

<Timestamp>2014-09-27T12:53:19.0000521Z</Timestamp>

</Transaction>

<Identity>

<Caller>

        <CallerType>1</CallerType>

        <ThirdPartyID>345612</ThirdPartyID>

        <Password>Password0</Password>

        <CheckSum>CheckSum0</CheckSum>

        <ResultURL>http://10.66.49.201:8096/</ResultURL>

</Caller>

<Initiator>

        <IdentifierType>11</IdentifierType>

        <Identifier>b2c1b</Identifier>


<SecurityCredential>kce4dLOTWOG5u45XmlAD+PFRYQJbACWXcGXN76DV/WNEttcMRD5U8Xs8dsgE1sBoyROf9RWcEQK76xT0
eyC9qoDL+ZNtKiFcWn+JL4iD1SUG6tz8FIDuren1+TZ8oGiKiAa3pkts3l2jK1u4ieBrstOAQI9bzQUyCsIsODW4I7VprrwiaVYp3vUbHqxhWxZ
ASNTL2rBuNWXg1ZCDjOehr1JsssyfbEKHRI6hWoamHVLRNzeqw4dwsuXDom1J6aR+N7LSj0hMhRU4pA6X8KDSqgNOgBkx65VCYt/O
+e8wGKeO72ujsKHcc70+a7uLwkxa/zzYLzKeOWbONu5CuMxukA==</SecurityCredential>

        <ShortCode>898947</ShortCode>

</Initiator>



<ReceiverParty>

        <IdentifierType>4</IdentifierType>

        <Identifier>898947</Identifier>

        <ShortCode></ShortCode>

</ReceiverParty>

<AccessDevice>
```

```
        <IdentifierType>1</IdentifierType>

        <Identifier>Identifier3</Identifier>

        </AccessDevice></Identity>

        <KeyOwner>1</KeyOwner>

    </request>]]></req:RequestMsg>

    </soapenv:Body>

    </soapenv:Envelope>
```

6.5.2 GenericApiResponse

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">

    <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">

    <ResponseMsg                xmlns="http://api-v1.gen.mm.vodafone.com/mminterface/request"><![CDATA[<Response
xmlns:i="http://www.w3.org/2001/XMLSchema-instance"                                    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/response"><ResponseCode>0</ResponseCode><ConversationID>232f0c91-f7b1-4f4e-a121-
12ae99464270</ConversationID><OriginatorConversationID>LNM-7894-7895-2000-
101</OriginatorConversationID><ServiceStatus>0</ServiceStatus></Response>]]></ResponseMsg>

    </s:Body>

    </s:Envelope>
```

6.5.3 GenericAPiResult

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">

    <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">

    <ResultMsg                xmlns="http://api-v1.gen.mm.vodafone.com/mminterface/result"><![CDATA[<Result
xmlns:i="http://www.w3.org/2001/XMLSchema-instance"                                    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/result"><ResultType>Completed</ResultType><ResultCode>0</ResultCode><ResultDesc>Succe
ss</ResultDesc><OriginatorConversationID>LNM-7894-7895-2000-101</OriginatorConversationID><ConversationID>232f0c91-f7b1-
4f4e-a121-12ae99464270</ConversationID><ResultParameters><Parameter><Key                              xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">ShortCode</Key><Value                                     xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">898947</Value></Parameter><Parameter><Key                 xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">OrgainsationName</Key><Value                              xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">Test1b</Value></Parameter><Parameter><Key                 xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">Working    Account    Available    Funds</Key><Value      xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">0.0000</Value></Parameter><Parameter><Key                 xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">Working    Account    Uncleared    Funds</Key><Value      xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">0.0000</Value></Parameter><Parameter><Key                 xmlns="http://api-
```

```
v1.gen.mm.vodafone.com/mminterface/request">Working    Account    Reserved    Funds</Key><Value    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">0.0000</Value></Parameter><Parameter><Key    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">Working    Account    Account    Number</Key><Value    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">48153-1                </Value></Parameter><Parameter><Key xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">Working    Account    Account    Balance    SetTime</Key><Value    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">22/08/2014    09:02:52</Value></Parameter><Parameter><Key    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">Charges    Paid    Account    Available    Funds</Key><Value    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">0.0000</Value></Parameter><Parameter><Key    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">Charges    Paid    Account    Uncleared    Funds</Key><Value    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">0.0000</Value></Parameter><Parameter><Key    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">Charges    Paid    Account    Reserved    Funds</Key><Value    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">0.0000</Value></Parameter><Parameter><Key    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">Charges    Paid    Account    Account    Number</Key><Value    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">48155-40                </Value></Parameter><Parameter><Key xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">Charges Paid Account Account Balance SetTime</Key><Value    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">22/08/2014    09:02:52</Value></Parameter><Parameter><Key    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">Utility    Account    Available    Funds</Key><Value    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">0.0000</Value></Parameter><Parameter><Key    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">Utility    Account    Uncleared    Funds</Key><Value    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">0.0000</Value></Parameter><Parameter><Key    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">Utility    Account    Reserved    Funds</Key><Value    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">0.0000</Value></Parameter><Parameter><Key    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">Utility    Account    Account    Number</Key><Value    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">48155-12                </Value></Parameter><Parameter><Key xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">Utility    Account    Account    Balance    SetTime</Key><Value    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">22/08/2014
09:02:52</Value></Parameter></ResultParameters><ReferenceData><ReferenceItem><Key    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">QueueTimeoutURL</Key><Value    xmlns="http://api-
v1.gen.mm.vodafone.com/mminterface/request">http://10.66.49.201:8989/</Value></ReferenceItem></ReferenceData></Result>]]></Res
ultMsg>

    </s:Body>

  </s:Envelope>
```

6.6 notifyQueueTimeout

6.6.1 The Broker send notification to the 3rd party

```
  <soapenv:Envelope                                                  xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:loc="http://www.csapi.org/schema/timeoutnotification/data/v1_0/local"                                 xmlns:res="http://api-
v1.gen.mm.vodafone.com/mminterface/result">

    <soapenv:Header/>

    <soapenv:Body>

      <loc:notifyQueueTimeout>

        <loc:originatorConversationID>OriginatorConversationID0</loc:originatorConversationID>
```

PROJECT NAME: M-PESA	
DOCUMENT NAME: DEVELOPER'S GUIDE- B2B INTERFACE	VERSION: 0.3
COMPANY/DIVISION: PRODUCT AND SERVICE DEVELOPMENT	DATE: 24TH APRIL 2015

85

<loc:originRequest>PHNvYXBlbnY6RW52ZWxvcGUgeG1sbnM6c29hcGVudj0iaHR0cDovL3NjaGVtYXMueG1sc29hcC5v

cmcvc29hcC9lbnZlbG9wZS8iIHhtbG5zOnJlcT0iaHR0cDovL2FwaS12MS5nZW4ubW0udm9kYWZv

bmUuY29tL21taW50ZXJmYWNlL3JlcXVlc3QiPgogICA8c29hcGVudjpCb2R5PgogICAgICA8cmVx

OlJlcXVlc3RNc2c+PCFbQ0RBVEFbPD94bWwgdmVyc2lvbj0iMS4wIiBlbmNvZGluZz0iVVRGLTgi

Pz4KPHJlcXVlc3QgeG1sbnM9Imh0dHA6Ly9hcGktdjEuZ2VuLm1tLnZvZGFmb25lLmNvbS9tbWlu

dGVyZmFjZS9yZXF1ZXN0Ij4KICAgIDxUcmFuc2FjdGlvbj4KICAgICAgICA8Q29tbWFuZElEPkNv

bW1hbmRJRDA8L0NvbW1hbmRJRD4KICAgICAgICA8TGFuZ3VhZ2VDb2RlPkxhbmdZ0kZTA8

L0xhbmd1YWdlQ29kZT4KICAgICAgICA8T3JpZ2luYXRvckNvbnZlcnNhdGlvbklEPk9yaWdpbmF0

b3JDb252ZXJzYXRpb25JRDA8L09yaWdpbmF0b3JDb252ZXJzYXRpb25JRD4KICAgICAgICA8Q29u

dmVyc2F0aW9uSUQ+Q29udmVyc2F0aW9uSUQwPC9Db252ZXJzYXRpb25JRD4KICAgICAgICA8UmVt

YXJrPlJlbWFyazA8L1JlbWFyaz4KICAgICAgICA8RW5jcnlwdGVkUGFyYW1ldGVycz5FbmNyeXB0

ZWRQYXJhbWV0ZXJzMDwvRW5jcnlwdGVkUGFyYW1ldGVycz4KICAgICAgICA8UGFyYW1ldGVycz4K

ICAgICAgICAgICAgPFBhcmFtZXRlcj4KICAgICAgICAgICAgICAgIDxLZXk+S2V5MDwvS2V5Pgog

ICAgICAgICAgICAgICAgPFZhbHVlPlZhbHVlMDwvVmFsdWU+CiAgICAgICAgICAgIDwvUGFyYW1l

dGVyPgogICAgICAgIDwvUGFyYW1ldGVyPgogICAgICAgICAgICAgPEtleT5LZXkxPC9L

ZXk+CiAgICAgICAgICAgICAgICA8VmFsdWU+VmFsdWUxPC9WYWx1ZT4KICAgICAgICAgICAgPC9Q

YXJhbWV0ZXI+CiAgICAgICAgPC9QYXJhbWV0ZXJzPgogICAgICAgIDxSZWZlcmVuY2VEYXRhPgog

ICAgICAgICAgICA8UmVmZXJlbmNlSXRlbT4KICAgICAgICAgICAgICAgIDxLZXk+UXVldWVUaW1l

b3V0VVJMPC9LZXk+CiAgICAgICAgICAgICAgICA8VmFsdWU+VmFsdWUyPC9WYWx1ZT4KICAgICAg

ICAgICAgPC9SZWZlcmVuY2VJdGVtPgogICAgICAgIDxSZWZlcmVuY2VJdGVtPgogICAgICAgICAg

ICAgICAgIDxLZXk+S2V5MzwvS2V5PgogICAgICAgICAgICAgICAgPFZhbHVlPlZhbHVlMzwv

VmFsdWU+CiAgICAgICAgICAgIDwvUmVmZXJlbmNlSXRlbT4KICAgICAgICA8L1JlZmVyZW5jZURh

dGE+CiAgICAgICAgPFRpbWVzdGFtcD4KICAgICAgICA8L1RpbWVzdGFtcD4KICAgIDwvVHJhbnNh

Y3Rpb24+CiAgICA8SWRlbnRpdHk+CiAgICAgICAgPENhbGxlcj4KICAgICAgICAgICAgPENhbGxl

clR5cGU+MDwvQ2FsbGVyVHlwZT4KICAgICAgICAgICAgPFRoaXJkUGFydHlJRD5UaGlyZFBhcnR5

SUQwPC9UaGlyZFBhcnR5SUQ+CiAgICAgICAgICAgIDxQYXNzd29yZD5QYXNzd29yZDA8L1Bhc3N3

b3JkPgogICAgICAgICA8Q2hlY2tTdW0+Q2hlY2tTdW0wPC9DaGVja1N1bT4KICAgICAgICAg

ICAgPFJlc3VsdFVSTD5SZXN1bHRVUkwwPC9SZXN1bHRVUkw+CiAgICAgICAgPC9DYWxsZXI+CiAg

ICAgICAgPEluaXRpYXRvcj4KICAgICAgICAgICAgPElkZW50aWZpZXJUeXBlPjE8L0lkZW50aWZp

ZXJUeXBlPgogICAgICAgICAgICA8SWRlbnRpZmllcj5JZGVudGlmaWVyMDwvSWRlbnRpZmllcj4K

```
ICAgICAgICAgICAgPFNlY3VyaXR5Q3JlZGVudGlhbD5TZWN1cml0eUNyZWRlbnRpYWwwPC9TZWN1
cml0eUNyZWRlbnRpYWw+CiAgICAgICAgICAgIDxTaG9ydENvZGU+CiAgICAgICAgICAgIDwvU2hv
cnRDb2RlPgogICAgICAgIDwvSW5pdGlhdG9yPgogICAgICAgIDxQcmltYXJ0eVBhcnR5PgogICAg
ICAgICAgICA8SWRlbnRpZmllclR5cGU+MTwvSWRlbnRpZmllclR5cGU+CiAgICAgICAgICAgIDxJ
ZGVudGlmaWVyPklkZW50aWZpZXIxPC9JZGVudGlmaWVyPgogICAgICAgICAgICA8U2hvcnRDb2Rl
PlNob3J0Q29kZTA8L1Nob3J0Q29kZT4KICAgICAgICA8L1ByaW1hcnR5UGFydHk+CiAgICAgICAg
PFJlY2VpdmVyUGFydHk+CiAgICAgICAgICAgIDxJZGVudGlmaWVyVHlwZT4xPC9JZGVudGlmaWVy
VHlwZT4KICAgICAgICAgICAgPEllZW50aWZpZXI+SWRlbnRpZmllcjI8L0lkZW50aWZpZXI+CiAg
ICAgICAgICAgIDxTaG9ydENvZGU+U2hvcnRDb2RlMTwvU2hvcnRDb2RlPgogICAgICAgIDwvUmVj
ZWl2ZXJQYXJ0eT4KICAgICAgICA8QWNjZXNzRGV2aWNlPgogICAgICAgICAgICA8SWRlbnRpZmll
clR5cGU+MTwvSWRlbnRpZmllclR5cGU+CiAgICAgICAgICAgIDxJZGVudGlmaWVyPklkZW50aWZp
ZXIzPC9JZGVudGlmaWVyPgogICAgICAgIDwvQWNjZXNzRGV2aWNlPgogICAgICAgIDwvSWRlbnRp
Zmllcj4KICAgIDwvY2RsZXNkPl1dPjwvcmVxdWVzdOIldPjwvcmVzc2c+
CiAgIDwvc29hcGVudjpCb2R5Pgo8L3NvYXBlbnY6RW52ZWxvcGU+Cg==</loc:originRequest>

    </loc:notifyQueueTimeout>

  </soapenv:Body>

</soapenv:Envelope>
```

6.6.2 The 3rd party return response to the Broker

Example1: Success response

```
<soapenv:Envelope                                    xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:loc="http://www.csapi.org/schema/timeoutnotification/data/v1_0/local"                          xmlns:res="http://api-
v1.gen.mm.vodafone.com/mminterface/result">

    <soapenv:Header/>

  <soapenv:Body>

    <loc:notifyQueueTimeoutResponse>

      <loc:result>

        <res:ResultCode>00000000</res:ResultCode>

        <res:ResultDesc> success</res:ResultDesc>

      </loc:result>

    </loc:notifyQueueTimeoutResponse>
```

PROJECT NAME: M-PESA	Safaricom
DOCUMENT NAME: DEVELOPER'S GUIDE- B2B INTERFACE	VERSION: 0.3
COMPANY/DIVISION: PRODUCT AND SERVICE DEVELOPMENT	DATE: 24TH APRIL 2015

87

```
    </soapenv:Body>

  </soapenv:Envelope>
```

Example2: Error response

```
  <soapenv:Envelope                                    xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:loc="http://www.csapi.org/schema/timeoutnotification/data/v1_0/local"                      xmlns:res="http://api-
v1.gen.mm.vodafone.com/mminterface/result">

    <soapenv:Header/>

  <soapenv:Body>

    <loc:notifyQueueTimeoutResponse>

      <loc:result>

        <res:ResultCode>000000001</res:ResultCode>

        <res:ResultDesc> failed </res:ResultDesc>

      </loc:result>

    </loc:notifyQueueTimeoutResponse>

   </soapenv:Body>

  </soapenv:Envelope>
```

6.7 queryTransaction

6.7.1 The 3rd party sends query request to the Broker

```
  <soapenv:Envelope                                    xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:v2="http://www.huawei.com.cn/schema/common/v2_1"          xmlns:loc="http://www.csapi.org/schema/transaction/data/v1_0/local"
xmlns:res="http://api-v1.gen.mm.vodafone.com/mminterface/result">

    <soapenv:Header>

      <v2:RequestSOAPHeader>

        <v2:spId>151515</v2:spId>

<v2:spPassword>ODExNERCMDlCNjVDRkYxQUFCNzE5MkE1OEQyMjJDMzk1RUFCCNzgwMjk2ODE4Rjk1OTE2MEFGGNDU1QkRCMDk
yMg==</v2:spPassword>

        <v2:serviceId>151515000</v2:serviceId>

        <v2:timeStamp>20140730093620</v2:timeStamp>

      </v2:RequestSOAPHeader>

      </soapenv:Header>
```

```
  <soapenv:Body>

    <loc:queryTransaction>

      <loc:originatorConversationID>R9I1-0000-4225-g64153</loc:originatorConversationID>

      <loc:extensionInfo>

        <loc:item>

          <res:Key>queryDate</res:Key>

          <res:Value>20140930102022</res:Value>

        </loc:item>

      </loc:extensionInfo>

    </loc:queryTransaction>

  </soapenv:Body>

</soapenv:Envelope>
```

6.7.2 The Broker return response to the 3rd party

Example1: Success response

```
  <soapenv:Envelope   xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"   xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">

    <soapenv:Body>

      <ns1:queryTransactionResponse xmlns:ns1="http://www.csapi.org/schema/transaction/data/v1_0/local">

        <ns1:result>

          <ns2:ResponseCode xmlns:ns2="http://api-v1.gen.mm.vodafone.com/mminterface/response">00000000</ns2:ResponseCode>

          <ns3:ResponseDesc xmlns:ns3="http://api-v1.gen.mm.vodafone.com/mminterface/response">Success</ns3:ResponseDesc>

        </ns1:result>

        <ns1:submitApiRequestList>
```
```
<ns1:submitApiRequest>UE9TVCAvbW1pbnRlcmZhY2UvcmVxdWVzdCBIVFRQLzEuMQ0KQWNjZXB0LUVuY29kaW5nOiBnemlwLGRlZ
mxhdGUNCkNvbnRlbnQtVHlwZTogdGV4dC94bWw7Y2hhcnNldD1VVEYtOA0KU09BUEFjdGlvbjoiIiNClVzZXItQWdlbnQ6IEpha2FydGE
gQ29tbW9ucy1IdHRwQ2xpZW50LzMuMQ0KSG9zdDogMTAuNS43OC41MTo4MzEwDQpDb250ZW50LUxlbmd0aDogMjU1MQ0KDQo8c
29hcGVudjpFbnZlbG9wZSB4bWxuczpzb2FwZW52PSJodHRwOi8vc2NoZW1hcy54bWxzb2FwLm9yZy9zb2FwL2VudmVsb3BlLyIgeG1sb
nM6cmVxPSJodHRwOi8vYXBpLXYxLmdlbi5tbS52b2RhZm9uZS5jb20vbW1pbnRlcmZhY2UvcmVxdWVzdCI+CiAgIDxzb2FwZW52OkhlY
WRlcj4KICAgICAgPHRuczpSZXF1ZXN0U09BUEhlYWRlciB4bWxuczp0bnM9Imh0dHA6Ly93d3cuaHVhd2VpLmNvbS9zY2hlbWEvb3NnL
2NvbW1vbi92Ml8xIj4KICAgICAgICA8cnVjuczpzcElkPjE1MTUxNTwvdG5zOnNwSWQ+CiAgICAgICAgIDx0bnM6c3BQYXNzd29yZD5PRE
V4TkVSVQ01EbENOalZEUmtUZFFVRkROOekU1TWtFMU9FUXlNakpVNNakpURkRNOemd3TWprMk9ERTRSSamsxT1RFMk1FRkdkORFUx
UWtSVSQ01Ea3lNNNz09PC90bnM6c3BQYXNzd29yZD4KICAgICAgICAgPHRuczp0aW1lU3RhcXA+MjAxNDA3MzAwOTM2MjA8L3Ruczp0a
```

W1lU3RhbXA+CiAgICAgICAgIDx0bnM6c2VydmljZUlkPjE1MTUxNTAwMDwvdG5zOnNlcnZpY2VJZD4KICAgICAgICAgPC90bnM6UmVxdWVzdFNPQVBIZWFkZXI+CiAgICAgIDwvc29hcGVudjpIZWFkZXI+CiAgICAgIDxzb2FwZW52OkJvZHk+CiAgICAgIDxyZXE6UmVxdWVzdE1zZz48IVtDDREFUQVs8P3htbCB2ZXJzaW9uPSIxLjAijycZW5jb2Rpbmc9JydVVEYtOCcnPz48cmVxdWVzdCB4bWxucz0nJ2h0dHA6Ly9hcGktdjEuZGVlZ2VuLm1tLnNvbS9tdGxuTmVtNnYbWludGVyZmFjZS9yZXF1ZXN0Jyc+CjxUcmFuc2FjdGlvbj4KCTxCdWxpbmVzc1UGF5bWVudDwvQ29tbWFuSUQ+Cgk8T3JpZ2luYXRvckNvbnZlcnNhdGlvbklEPlIEPExjaG1lMDAwMC00Mjl1LWc2NDE1MzwvT3JpZ2luYXRvckNvbnZlcnNhdGlvbklEPgoJPENvbnZlcnNhdGlvbklEPgoJPENvbnZlcnNhdGlvbklEPjwvY29udmVyc2F0aW9uSU
Q+Cgk8UmVtYXJrPjA8L0JlbWFyaz4KCTxFbmNyeXB0ZWRRQVYbWV0ZXJzPkVuY3J5cHRlZFBhcmFtZXRlcmMwPC9FbmNyeXB0ZWRQYXJhbWV0ZXJzPgo8UGFyYW1ldGVycz48UGFyYW1ldGVyPgoJPHRlT5BbW91bnQ8L0t0leT4KCTxWYWx1ZT43MC4wMDwvVmFsd
WU+CjwvUGFyYW1ldGVyPgoICAgICAgICAgCgo8L0BhcmFtZXRlcm+CjxSZWZlcmVuY2VEYXRhPgoJPFJlbVZyZW5jUl0ZW0+
CgkJPEtleT5RdWV1ZVRpbWVvdXRVcmw8L0t0leT4KCQk8VmFsdWU+aHR0cDovLzEwLjY2LjQ5LjljbwMTo4OTg5LzwvVmFsdWU+Cgk8L1
JlZmVyZW5jZUl0ZW0+PC9SZWZlcmVuY2VEYXRhPgoJPFJpbWVzdGFtcD4yMDE0LTA5LTI3VDEyOjUzOjE5LjAwMDA1MjaPC9UaW1l
c3RhbXA+CjwvVHJhbnNhY3Rpb24+CjxjZGVudGl0eT4KCTxDYWxsZXI+CgkJPENhbGxlclR5cGU+MjwwQ2FsbGVyVHlwZT4KCQk8VGh
pcmRRYXJ0eUlEPjg5ODk0MTwvVGhpcmRRYXJ0eUlEPgoJCTxQYXNzd29yZD5QYXNzd29yZDA8L1Bhc3N3b3JkPgoJCTxSZXN1bHRVcmw+aHR0cDovLzEwLjY
yLjQyLjQ5Q5QS5JlwLjMoOTg5LzwvUmVzdWx0VVJMPgoJPC9DYWxsZXI+Cgk8SW5pdGlhdG9yPgoJCTxJZGVudGlmaWVyVHlwZT4xMTwwSWRlbnRpZmllclR5cGU+CgkJPElkZW50aWZpZXI+YjJjJ
MmI8L0lkZW50aWZpZXI+CgkJPFNlY3VyaXR5Q3JlZGVudGlhbHD5iSkpiQ0E0UVQvdWdlVlQ5ZyszGN0aiFJRlUyb2pTVVZlcXVoWVVCK
3VVcDY2RDlVaGpqWnNoW0Es5bURlU3BSbkVRYnM2SDh3R3JoaDDlzVZ1UDlvY3lEcUU2eGGoYVNoVzNLLHHRWdCctBcXvhdFVhQmZMYjZ
xiNlNQZ045ZWdrVWtuGNhzWFkrK25oZlk3UnNtZE1LeTRJUkJZVGlqTXVlUGU2Ud3MTdrZUVqWk9MNCtrNG5YTFqVnZScFBJNnZB
RkpTWTMzcEl4dUxoMlR4K2tBbmc1U1RRCNEpRRS09pdzJtN0NQblVZMGpvdnE4eEhNHYXJPSW4yQ9DakV0M0cvQnJwJ3Bucks3MSRlz
ZoQUJoOVU4bG5OMjVFdlU3cmpBVHpMd2xnVnJhe3UySERTNjJ4M4FptVEtVWEgxc3JzU0JhS0VqaVRoY2NGcmZYVEVrRlE9PT
wvU2VjdXJpdHlDcmVkZW50aWFsPgoJCTxTaG9ydENvZGU+ODk4OTQ3PC9TaG9ydENvZGU+Cgk8L0luaXRpYXRvcj4KCQk8UHJpbW
FyeVBhcnR5PgoJCQk8SWRlbnRpZmllclR5cGU+NDwvSWRlbnRpZmllclR5cGU+CgkJCTxJZGVudGlmaWVyPjg5ODk0NjwvSWRlbnRpZ
mllcj4KCQk8UFNob3J0Q29kZT48L1Nob3J0Q29kZT4KCQk8L1ByaW1hcnlQYXJ0eT4KCTxSZWNlaXZlclBhcnR5PgoJCTxJZGVudGlmaW
WVyVHlwZT4xPC9JZGVudGlmaWVyVHlwZT4KCQk8SWRlbnRpZmllcj4yNTQ3MDcxNjM2MDU8L0lkZW50aWZpZXI+CgkJPFNob3J0Q2
9kZT48L1Nob3J0Q29kZT4KCTwvUmVjZWl2ZXJQYXJ0eT4KCTxCY2Nlc3NEZXZpY2U+CgkJPElkZW50aWZpZXJUeXBlPjE8L0lkZW50aWZpZ
WVyVHlwZT4KCQk8SWRlbnRpZmllcj4zPC9JZGVudGlmaWVyPgoJCTxTaG9ydENvZGU+PC9TaG9ydENvZGU+CgkJPC9BY2Nlc3NEZXZpY2U+CgkJPElkZW50aXR5PjwvSWRlbnRpdHk+Cgk8UmVxdWVzdEl0ZXVyc1dzOc+CiAgIDwvc29hcGVudjpCb2R5Pgo8L3
NvYXBlbnY6RW52ZWxvcGU+</ns1:submitApiRequest>

<ns1:submitApiRequest>UE9TVCAvQ29yZUFwaVdlYlNlcnZpY2UvR2VuZXJpY0FwaS5zdmMgSFRUUC8xLjENCkNvbnRlbnQtVHlwZTog
dGV4dC94bWwNCkhvc3Q6IDg1LjIwNS45NjUuuMTk3OjE4MjAyDQpDb25uZWN0aW9uOiBjbG9zZQ0KQ29udGVudC1MZW5ndGg6IDIxN
DYNCg0KPHNvYXBlbnY6RW52ZWxvcGUgeG1sbnM6c29hcGVudjoiaHR0cDovL3NjaGVtYXMueG1sc29hcC5vcmcvc29hcC9lbnZlbG9wZ
S8iIHhtbG5zOnJlcT0iaHR0cDovL2FwaS12MS5nZW4ubW0udm9kYWZvbmUuY29tL21taW50ZXJmYWNlL3JlcXVlc3QiPgogICAAKICAgPH
NvYXBlbnY6Qm9keT4KICAgICAgPHJlcTpSZXF1ZXN0TXNnPjwhW0NEQVRBWzw/eG1sIHZlcnNpb249JycxLjAnJyBlbmNvZGluZz0nJ1V
URi04Jyc/PjxyZXF1ZXN0IHhtbG5zPScnaHR0cDovL2FwaS12MS5nZW4ubW0udm9kYWZvbmUuY29tL21taW50ZXJmYWNlL3JlcXVlc3Q
nJz4KPFRyYW5zYWN0aW9uPgoJPENvbW1hbmRJRD5TYWxhcnlQYXltZW50PC9Db21tYW5kSUQ+Cgk8TGFuZ3VhZ2VDb2RlPjA8L0x
hbmd1YWdlQ29kZT4KCTxQcmlnaW5hdG9yQ29udmVyc2F0aW9uSUQ+UjlJMS0wMDAwLTQyMjUtZ0MTUzPC9QcmlnaW5hdG9yQ2
9udmVyc2F0aW9uSUQ+Cgk8Q29udmVyc2F0aW9uSUQ+PC9Db252ZXJzYXRpb25JRD4KCTxSZW1hcms+MDwvUmVtYXJrPgoJPEVuY
3J5cHRlZFBhcmFtZXRlcnM+RW5jcnlwdGVkUGFyYW1ldGVyczA8L0VuY3J5cHRlZFBhcmFtZXRlcnM+CjxQYXJhbWV0ZXJzPjxQYXJh
bWV0ZXI+Cgk8S2V5Ftb3VudDwvS2V5PgoJPFZhbHVlPjcwLjAwPC9WYWx1ZT4KPC9QYXJhbWV0ZXI+CgogICAgICAgICAKCjwv
UGFyYW1ldGVycz4KPFJlZmVyZW5jZURhdGE+Cgk8UmVmZXJlbmNlSXRlbT4KCQk8S2V5PlF1ZXVlVGltZW91dFVSTDwvS2V5PgoJCT
xWYWx1ZT5odHRwOi8vMTAuNjYuNDkuMjAxOjg5ODkvPC9WYWx1ZT4KCTwvUmVmZXJlbmNlSXRlbT48L1JlZmVyZW5jZURhdGE+Cg
k8VGltZXN0YW1wPjIwMTQtMDktMjdUMTI6NTM6MTkuMDAwMDUyMo8L1RpbWVzdGFtcD4KPC9UcmFuc2FjdGlvbj4KPElkZW50aXR
5PgoJPENhbGxlcj4KCQk8Q2FsbGVyVHlwZT4yPC9DYWxsZXJUeXBlPgoJCTxUaGlyZFBhcnR5SUQ+ODk4OTQxPC9UaGlyZFBhcnR5
SUQ+CgkJPFBhc3N3b3JkPlBhc3N3b3JkMDwvUGFzc3dvcmQ+CgkJPENoZWNrU3VtPkNoZWNrU3VtMDwvQ2hlY2tTdW0+CgkJPFJlc3
VsdFVSTD5odHRwczovLzE5Ni4yMDEuMjE0LjEzNjoxODMyMy9tbWludGVyZmFjZS9yZXN1bHQ8L1Jlc3VsdFVSTD4KCTwvQ2FsbGVyP
goJPEluaXRpYXRvcj4KCQk8SWRlbnRpZmllclR5cGU+MTE8L0lkZW50aWZpZXJUeXBlPgoJCTxJZGVudGlmaWVyPmIyYzJiPC9JZGVud
GlmaWVyPgoJCTxTZWN1cml0eUNyZWRlbnRpYWw+YkpKYkNBNFFUL1c3cFZUUOWcrM2RjdGpRSUZVMm9qU1VWZXF6NVlVQit1VXA
2NkQ5VWhqalpzaFhKeSs5bURlU3BSbkVRYnM2SDh3R3JoaDDlzVZ1UDlvY3lEcUU2eGGoYVNoVzNLLHHRWdCctBcXvhdFVhQmZMYjZ

TUGdOOWVna1VrbjRoc1hXaytuaGZZN1JzbWRNS3k0SVJCWVRpak11ZVBlNnlHdzE3a2VFalpPTDQrazRuV2ExalZ2UnBQSTZ1QUZKU1kzM3BJeHVMaDJUeCtrQXJnNUk0QjRKUUtPaXcybTdDUG5WVTBqaHZxOHhzR2FyT0luMkNPQ2pFdDNHL0JyMFdwbnJLNzErSHp2aEFCaDlVOGxuTjl1RXZVN3JqQVR6THdsRjhNZ1Z2K2t1MkhEUzYyeDBabVRLVVhIMXNyc1NCYUtFamlUaGNNjRnJmWFRFa0ZRPT08L1NlY3VyaXR5Q3JlZGVudGlhbD4KCQk8U2hvcnnRDb2RlPjg5ODk0NzwvU2hvcnRDb2RlPgoJPC9Jbml0aWF0b3I+CgkJPFByYW1hcnlQYXJ0eT4KCQkJPEloZW50aWZpZXJUeXBlPjQ8L0lkZW50aWZpZXJUeXBlPgoJCQk8SWRlbnRpZmllcj44OTg5NDY8L0lkZW50aWZpZXI+CgkJCTxTaG9ydENvZGU+PC9TaG9ydENvZGU+CgkJPC9QcmltYXJ5UGFydHk+Cgk8UmVjZWl2ZXJQYXJ0eT4KCQk8SWRlbnRpZmllclR5cGU+MTwvSWRlbnRpZmllclR5cGU+CgkJPEloZW50aWZpZXI+MjU0NzA3MTYzNjA1PC9JZGVudGlmaWVyPgoJCTxoYW9ydENvZGU+PC9TaG9ydENvZGU+Cgk8L1JIY2VpdmVyUGFydHk+Cgk8QWNjZXNzRGV2aWNlPgoJCTxJZGVudGlmaWVyVHlwZT4xPC9JZGVudGlmaWVyVHlwZT4KCQk8SWRlbnRpZmllcj5JZGVudGlmaWVyMzwvSWRlbnRpZmllcj4KCQk8L0FjY2Vzc0RldmljZT48L0lkZW50aXR5PgoJCTxLZXIpSXF1ZXN0TXNnPgogICA8L3NvYXBlbnY6Qm9keT4KPC9zb2FwZW52OkVudmVsb3BlPg==</ns1:submitApiRequest>

        </ns1:submitApiRequestList>

        <ns1:submitApiResponseList>

<ns1:submitApiResponse>SFRUUC8xLjEgMjAwIE9LDQpPb250ZW50LVR5cGU6IHRleHQveG1sOyBjaGFyc2V0PXV0Zi04DQpTZXJ2ZXI6IE1pY3Jvc29mdC1JSVMvNy4wDQpYLVBvd2VyZWQtQnk6IEFTUC5ORVQNCkRhdGU6IFR1ZSwgMzAgU2VwIDIwMTQgMTI6NTE6MzUgR01UDQpDb25uZWN0aW9uOiBjbG9zZQ0KQ29udGVudC1MZW5ndGg6IDYzNDQKDQo8czpFbnZlbG9wZSB4bWxuczpzPSJodHRwOi8vc2NoZW1hcy54bWxzb2FwLm9yZy9zb2FwL2VudmVsb3BlLyI+PHM6Qm9keSB4bWxuczp4c2k9Imh0dHA6Ly93d3cudzMub3JnLzIwMDEvWE1MU2NoZW1hLWluc3RhbmNlIiB4bWxuczp4c2Q9Imh0dHA6Ly93d3cudzMub3JnLzIwMDEvWE1MU2NoZW1hIj48UmVzcG9uc2VNc2cgeG1sbnM9Imh0dHA6Ly9jGktdjEuZ2VuLm1tLnZvZGFmb25lLmNvbS9tbWludGVyZmNjS9yZXF1ZXN0Ij48IVtDREFUQVs8UmVzcG9uc2UgeG1sbnM6aT0iaHR0cDovL3d3dy53My5vcmcvMjAwMS9YTUxTY2hlbWEtaW5zdGFuY2UiIHhtbG5zPSJodHRwOi8vYXBpLLXYxLmdlbi5tbS52b2RhZm9uZS5jb20vbW1pbnRlcmZhY2UvcmVzcG9uc2UiPjxSZXNwb25zZVN0YXR1cz48UmVzcG9uc2VDb2RlPjQwMDAwMTQyMjUtZzY0MTUzPC9SZXNwb25zZUNvZGU+UjlJJMS0wMDAwLTQyMjUtZzY0MTUzPC9SZXNwb25zZUNvZGU+PFNlcnZpY2VTdGF0dXM+MDwvU2VydmljZVN0YXRlcz48L1Jlc3BvbnNlUl1dPjwvUmVzcG9uc2VNc2c+PC9zOkJvZHk+PC9zOkVudmVsb3BlPg==</ns1:submitApiResponse>

<ns1:submitApiResponse>SFRUUC8xLjEgMjAwIE9LDQpDb250ZW50LVR5cGU6IHRleHQveG1sOyBDQpDb250ZW50LVR5cGU6IHRleHQveG1sOyBjaGFyc2V0PXV0Zi04DQpTZXJ2ZXI6IE1pY3Jvc29mdC1JSVMvNy4wDQpYLVBvd2VyZWQtQnk6IEFTUC5ORVQNCkRhdGU6IFR1ZSwgMzAgU2VwIDIwMTQgMTI6NTE6MzUgR01UDQpDb25uZWN0aW9uOiBjbG9zZQ0KQ29udGVudC1MZW5ndGg6IDYzNDQKDQo8czpFbnZlbG9wZSB4bWxuczpzPSJodHRwOi8vc2NoZW1hcy54bWxzb2FwLm9yZy9zb2FwL2VudmVsb3BlLyI+PHM6Qm9keSB4bWxuczp4c2k9Imh0dHA6Ly93d3cudzMub3JnLzIwMDEvWE1MU2NoZW1hLWluc3RhbmNlIiB4bWxuczp4c2Q9Imh0dHA6Ly93d3cudzMub3JnLzIwMDEvWE1MU2NoZW1hIj48UmVzcG9uc2VNc2cgeG1sbnM9Imh0dHA6Ly9hcGktdjEuZ2VuLm1tLnZvZGFmb25lLmNvbS9tbWludGVyZmFjZS9yZXF1ZXN0Ij48IVtDREFUQVs8UmVzcG9uc2UgeG1sbnM6aT0iaHR0cDovL3d3dy53My5vcmcvMjAwMS9YTUxTY2hlbWEtaW5zdGFuY2UiIHhtbG5zPSJodHRwOi8vYXBpLXYxLmdlbi5tbS52b2RhZm9uZS5jb20vbW1pbnRlcmZhY2UvcmVzcG9uc2UiPjxSZXNwb25zZVN0YXR1cz48UmVzcG9uc2VDb2RlPjQwMDAwMTQyMjUtZzY0MTUzPC9SZXNwb25zZUNvZGU+PFNlcnZpY2VTdGF0dXM+MDwvU2VydmljZVN0YXRlcz48L1Jlc3BvbnNlUl1dPjwvUmVzcG9uc2VNc2c+PC9zOkJvZHk+PC9zOkVudmVsb3BlPg==</ns1:submitApiResponse>

        </ns1:submitApiResponseList>

        <ns1:submitApiResultList>

<ns1:submitApiResult>UE9TVCAvIEhUVFAvMS4xDQpDb250ZW50LVR5cGU6IHRleHQveG1sDQpIb3N0OiAxMC42Ni40OS4yMDE6ODA5Nw0KQ29ubWVjdGlvbjogY2xvc2UNCkNvbnRlbnQtTGVuZ3RoOiAxMTc5DQoNCjxzOkVudmVsb3BlIHhtbG5zOm9Imh0dHA6Ly9zY2hlbWFzLnhtbHNvYXAub3JnL3NvYXAvZW52ZWxvcGUvIj48czpCb2R5IHhtbG5zOnhzaT0iaHR0cDovL3d3dy53My5vcmcvMjAwMS9YTUxTY2hlbWEtaW5zdGFuY2UiIHhtbG5zOnhzZD0iaHR0cDovL3d3dy53My5vcmcvMjAwMS9YTUxTY2hlbWEiPjxSZXNwb25zZU1zZyB4bWxucz0iaHR0cDovL2FwaS12MS5nZW4ubW0udm9kYWZvbmUuY29tL21taW50ZXJmYWNlL3Jlc3BvbnNlIj48IVtDREFUQVBWzxSZXNwb25zZSB4bWxucyeG1sbnM6

aT0iaHR0cDovL3d3dy53My5vcmcvMjAwMS9YTUxTY2hlbWEtaW5zdGFuY2UiIHhtbG5zPSJodHRwOi8vYXBpLXYxLmdlbi5tbS52b2RhZm9uZS5jb20vbW1pbnRlcmZhY2UvcmVzdWx0Ij48UmVzdWx0VHlwZT5Db21wbGV0ZWQ8L1Jlc3VsdFR5cGU+PFJlc3VsdENvZGU+MTk8L1Jlc3VsdENvZGU+PFJlc3VsdERlc2M+QXBpUmVxdWVzdE1lc3NhZ2VGeHBpcnlGYWlsdXJlPC9SZXN1bHRFcnJEZXNjPENvbnZlcnNhdGlvbklEPUjlJMS0wMDAwLTQyMjUtZzY0MTUzPC9QcmNlbm5hZ0y29udmVyc2F0aW9uSUQ+UjlJMS0wMDAwLTQyMjUtZzY0MTUzPC9PcmlnaW5hbGNy29udmVyc2F0aW9uSUQ+PENvbnZlcnNhdGlvbklEPmUwZTk2OGY1LThjZWEtNDMxMy1hYWNmLTA3OWM1Y2E0N2QwMTwvQ29udmVyc2F0aW9uSUQ+PFJlc3VsdFBhcmFtZXRlcnM+PFBhcmFtZXRlcicj48S2V5IHhtbG5zPSJodHRwOi8vYXBpLXYxLmdlbi5tbS52b2RhZm9uZS5jb20vbW1pbnRlcmZhY2UvcmVzdWxVZDCI+VHJhbnNhY3Rpb24gRGF0ZVRpbWU8L0tleT48VmFsdWUgeG1sbnM9Imh0dHA6Ly9hcGktdjEuZ2VuLm1tLnZvZGFmb25lLmNvbS9tbWludGVyZmFjZS9yZXN1bHQiIHhzaTp0eXBlPSJ4czpkMC4wIDEyOjUyOjMxPC9WYWx1ZT48L1BhcmFtZXRlcicj48L1Jlc3VsdFBhcmFtZXRlcnM+PFJlZmVyZW5jZURhdGE+PFJlZmVyZW5jZUl0ZW91dFVSTDwvS2V5PjxWYWx1ZT5odHRwOi8vaW50ZW5uYWwuM2MuN0oj48L1ZhbHVlPjwvUmVmZXJlbmNlSXRlbT48L1JlZmVyZW5jZURhdGE+PElQbVVUZGVudVZSTDwvS2V5PjxWYWx1ZT5odHRwOi8vaW50ZXJuYWwuM2MuN0oj48L1ZhbHVlPjwvUmVmZXJlbmNlSXRlbT48L1JlZmVyZW5jZURhdGE+PC9SZXN1bHQ+XV0+PC9SZXN1bHRSc2c+PC9zOkJvZHk+PC9zOkVudmVsb3BlPg==</ns1:submitApi Result>

    </ns1:submitApiResultList>

    <ns1:queueTimeOutList/>

   </ns1:queryTransactionResponse>

  </soapenv:Body>

</soapenv:Envelope>Example2: Error response

  <soapenv:Envelope   xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:loc="http://www.csapi.org/schema/transaction/data/v1_0/local"   xmlns:res="http://api-
v1.gen.mm.vodafone.com/mminterface/response" xmlns:res1="http://api-v1.gen.mm.vodafone.com/mminterface/result">

  <soapenv:Header/>

  <soapenv:Body>

   <loc:queryTransactionResponse>

    <loc:result>

      <ResponseCode>100000007</ResponseCode>

      <ResponseDesc>Authentication failed</ResponseDesc>

    </loc:result>

   </loc:queryTransactionResponse>

  </soapenv:Body>

 </soapenv:Envelope>

6.8 changePassword

6.8.1 Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:loc="http://www.csapi.org/schema/management/data/v1_0/local" xmlns:res="http://api-
v1.gen.mm.vodafone.com/mminterface/result">

   <soapenv:Header/>

   <soapenv:Body>

     <loc:changePassword>

       <loc:spId>3500001</loc:spId>

       <loc:spPassword>c5216e519a071d601bedd150f3fcd026</loc:spPassword>

       <loc:timeStamp>20120101010101</loc:timeStamp>

       <loc:newPassword>wi2a7BAH0QPd2LRdmcgC9w==</loc:newPassword>

     </loc:changePassword>

   </soapenv:Body>

 </soapenv:Envelope>
```

6.8.2 Response example:

- Example1: Success response

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:loc="http://www.csapi.org/schema/transaction/data/v1_0/local" xmlns:res="http://api-
v1.gen.mm.vodafone.com/mminterface/response" xmlns:res1="http://api-v1.gen.mm.vodafone.com/mminterface/result">

   <soapenv:Header/>

   <soapenv:Body>

     <loc:changePassword Response>

       <loc:result>

         <res:ResponseCode>00000000</res:ResponseCode>

         <res:ResponseDesc>Success</res:ResponseDesc>

       </loc:result>

       <loc:changePasswordResponse>

     </soapenv:Body>
```

```
</soapenv:Envelope>
```

- Example2: Error response caused by authentication failed.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:req="http://api-
v1.gen.mm.vodafone.com/mminterface/request">

  <soapenv:Header/>

  <soapenv:Body>

    <req:ResponseMsg><![CDATA[<?xml version="1.0" encoding="UTF-8"?>

<response xmlns="http://api-v1.gen.mm.vodafone.com/mminterface/response">

  <ResponseCode>100000007</ResponseCode>

  <ResponseDesc>Authentication failed</ResponseDesc>

</response>]]></req:ResponseMsg>

  </soapenv:Body>

</soapenv:Envelope>
```