PROJECT NAME: M-PESA	Safaricom
DOCUMENT NAME: B2C API SPECIFICATION	VERSION: 1.5
COMPANY/DIVISION: PRODUCT AND SERVICE DEVELOPMENT	DATE: 7 [™] OCTOBER 2014

B2C API Specification

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Approvals

This document needs below approvals for implementation.

Author(s)	Name	Signature	Date
Service Development Engineer	Eneth Kubai		
Reviewers	Name	Signature	Date

Revision Log

Revision Number	Revision Date	Revision	Revision made by
1.0	18th June, 2013	Initial Draft	Eneth Kubai
1.1	9 th July, 2013	Added section 3.8.1: Password Encryption	Eric Mokaya
1.2	29 th July 2013	Added Result codes	Eneth Kubai
1.3	13 th Jan 2014	Added Result code explanations	Eneth Kubai
1.4	7 th Sept 2014	Added changePassword interface, edited queryTransaction Interface, edited OriginatorConversationId field restrictions. Removed encrypted parameter tag. Edited the genericAPI request,	Eneth Kubai

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		response and result, added result and response codes	
1.5	11 th Nov 2014	Attached SSL Guide	Eneth Kubai

References

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

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Abbreviations

Term	Definition
API	Application Programming Interface
B2C	Business to Customer
Broker	Service Access Gateway
SP	Service Provider

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Introduction

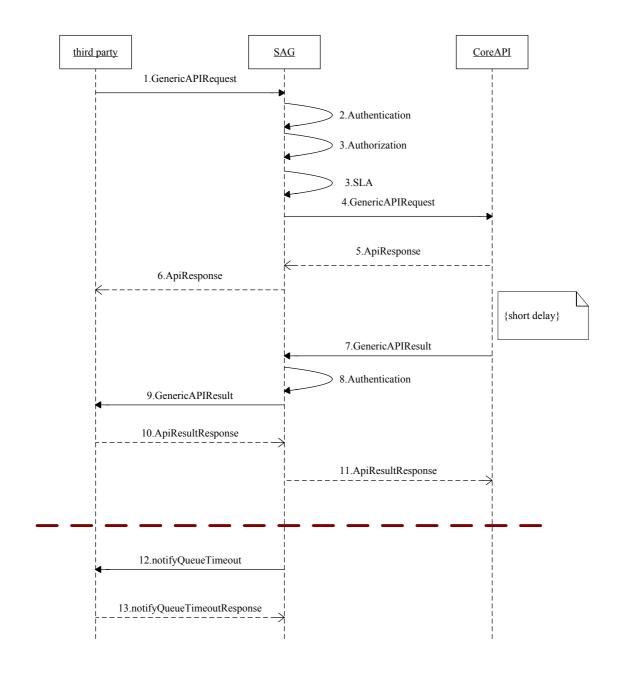
1.1 Scope

The present document specifies the real time B2C Web Service aspects of the interface. All aspects of B2C Web Service are defined here, these being:

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

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2 Message Flow Description



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3 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	ParameterTyp e[1unbounde	No	It is used to carry specific parameters for specific transaction or business operation.
	d]		

3.5 ReferenceData structure

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

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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 • SalaryPayment • BusinessPayment • BusinessPaymentWithWithdrawalChargePaid • SalaryPaymentWithWithdrawalChargePaid • PromotionPayment • TransferFromBankToCustomer
LanguageCod e	xsd:string	Yes	It indicates language. It's reserved.
OriginatorConv ersationID	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 B2C organisation short and name of organisation. Eg. 232323_KCBOrg_XXXXXX XXXXX must be unique for every transaction.
ConversationI D	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
EncryptedPara meters	xsd:string	Yes	It is used to carry the value for the element Parameters which are encrypted. The value for this parameter should be a CDATA and encode with base64
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	ReferenceDat a	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.

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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.
SecurityCrede ntial	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	No	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 B2C 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.

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3.9 PrimaryParty structure

Element name	Element type	Optional	Description
IdentifierType	<u>IdentifierType</u>	<u>No</u>	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
PrimaryParty	PrimaryParty	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

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3.14 Response structure

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

3.15 ResultParameters structure

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

3.16 Result structure

Element name	Element type	Optiona I	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
OriginatorConv ersationID	xsd:string	Yes	The unique identifier of the request message generated by third party. Its value comes from the request message.
ConversationI D	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.
ResultParamet ers	ResultParamet ers	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

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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	MissingRequestParameters	ApiResponse	
25	InvalidRequestParameters	ApiResponse	
26	SystemTooBusy	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	ApiResponse	
	%1 indicates the parameter's name.	' '	
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	ApiResponse	
	%1 indicates the parameter's name.	·	
28	InitiatorAllowedOperationCheckFailure	ApiResult	
29	InvalidCommand	ApiResult	
30	ErrorSerializingRequest	ApiResponse	
31	InitiatorNotSpecified	ApiResult	
32	ErrorSerializingRequest	ApiResult	
33	PrimaryPartyNotSpecified	ApiResult	
34	PrimaryPartyIdentifierInvalid	ApiResult	
35	ReceiverPartyNotSpecified	ApiResult	
36	ReceiverPartyldentifierInvalid	ApiResult	
37	MissingApiCommand ApiResu		
38	InvalidConversationId	ApiResult	
39	UnknownConversationId	ApiResult	

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	1	1		
40	InvalidParameterDefinition	ApiResult		
41	DuplicateConversationDetected	ApiResult		
42	DuplicateStageMessageDetected	ApiResult		
43	AwaitingConfirmation	ApiResult		
44	InitiatorToReceiverPartyPermissionFailure	ApiResult		
45	InternalErrorDuringFinancialTransaction	ApiResult		
46	ConfirmationReceived	ApiResult		
47	RejectionReceived	ApiResult		
48	OperationPermissionFailure	ApiResult		
49	NoTransactionFound	ApiResult		
50	InitiatorOrgIdentityStatusFailure	ApiResult		
51	DebitChargeAccountInvalid	ApiResult		
52	WouldExceedMaximumSingleAirtimePurchase ApiResult			

The following table lists result codes and result descriptions which are provided to the caller. These may be commincated 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. In case of multi staged transaction the response code will be 43 for initiation stage and 46 for confirmation.

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.

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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

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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

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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

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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

Not been used.

41 DuplicateConversationDetected

If the originator conversationid is be reused again, the request will end up with duplicate error code. The request should have a unique originator conversationid for every new apirequest.

42 DuplicateStageMessageDetected

If the stage name is requested twice it will end up with duplicate stage. Though the occurance of this would be very rare.

43 AwaitingConfirmation

It is applicable for multi stage transaction. Once the first stage of the transaction is set to authorised with will set the result code as AwaitingConfirmation to convey the initiator to initiate the confirmation stage.

44 InitiatorToReceiverPartyPermissionFailure

The initiator presented does not have the right to issue requests for the specified receiver 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.

45 InternalErrorDuringFinancialTransaction

46 ConfirmationReceived

It is applicable for the multi stage transaction. The result code is send once the confirmation stage is processed successfully to confirm the financial transaction.

47 RejectionReceived

It is applicable for the multi stage transaction. The result code is send once the confirmation stage is processed successfully to cancel the financial transaction

48 OperationPermissionFailure

For transaction status query if the initiator presented was not the part of the original transaction or linked to the respective parties within the original request a transaction access permission failure result is send out. For balance query if the initiator is not linked to the request organisation shortcode it will return the same result code. As the validation is common the result code will be shared by both the request.

49 NoTransactionFound

For transaction status query is the request transaction parameter is not found in the system it will send the transaction not found result code.

50 InitiatorOrgIdentityStatusFailure

The result code is returned if the organisation status is closed.

51 DebitChargeAccountInvalid

If the Airtime purchase account is set to inactive state the corresponding transaction will return an invalid debit charge account failure.

52 WouldExceedMaximumSingleAirtimePurchase

If transaction amount exceeds the maximum amount configured for single request it will fail the transaction for rule failure.

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4 Web Service Interface Definition

4.1 Interface: RequestMgrPortType

4.1.1 Operation: GenericAPIRequest

The 3rd party invokes this operation to send a B2C request

4.1.1.1 Message Header: RequestSOAPHeader

Element name	Element type	Optional	Description
spld	xsd: string	No	SP ID.
			This is the Service Provider Identifier that is allocated by the Broker to the 3 rd 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 spld, password and the timeStamp as illustrated below:
			Given the following parameters
			spld: 601399
			password: spPassword
			timestamp: 20130702212854
			spPassword = BASE64(SHA-256(spld + Password + timeStamp)) e.g.
			spPassword = BASE64(SHA-256(601399spPassword20130702212854)
			[Example]
			e6434ef249df55c7a21a0b45758a39bb
serviceld	xsd: string	Yes	Service ID.
			This is the Service Identifier that is allocated by the Broker for every service created.
			[Example]
			3500001000012

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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

4.1.1.2 Input Message: RequestMsg

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

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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 B2C request. It will be invoked by Broker to notify the 3rd party once Broker received the notification from CoreAPI.

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.

4.2.1.3 Response Codes

ResponseCode	ResponseDesc
000000000	Success
200000001	The system is overload
200000002	Throttling error
200000003	Internal Server Error

The parameters in the **Result/ResultParameters** element are listed below:

The **ResultParameters** will change to this on April 2015.

Parameter	Data Type	Mandatory or Optional	Description	Example
TransactionReceipt	xs:string	Mandatory	Unique transaction ID for the payment transaction.	1234560 0000070 31

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Parameter	Data Type	Mandatory or Optional	Description	Example
TransactionAmount	xs:string	Mandatory	2 fixed point decimal amount of the transaction	1 0 0 2 2
TransactionComplet edDateTime	xs:string	Mandatory	The time when the financial transaction was completed, as recorded in the M-Pesa system. Format: dd.mm.yyyy HH:MM:SS	2 2 0 3 2 0 1 2 1 2 2 0 2 0

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Parameter	Data Type	Mandatory or Optional	Description	Example
ReceiverPartyPubli	xs:string	Mandatory	Public name of the customer who has been issued the money. Format: <msisdn>-<first name=""> <last name=""> For unregister customer, the <first name=""> <last name=""> will be blank.</last></first></last></first></msisdn>	2 5 4 7 7 8 8 8 6 6 5 5 3 8 6 8 - K i p
B2CWorkingAccou ntAvailableFunds	xs:string	Mandatory	2 fixed point decimal amount of the Available Balance of the organization's Working Account. Note: the exact Account Type will depend on the configuration.	9 9 9 9 8 8
B2CUtilityAccount AvailableFunds	xs:string	Mandatory	2 fixed point decimal amount of the Available Balance of the organization's Utility Account, which is the debit account of the principle transaction. Note: the exact Account Type will depend on the configuration.	9 9 9 9 8 8

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Parameter	Data Type	Mandatory or Optional	Description	Example
B2CChargesPaidAc countAvailableFund s	xs:string	Mandatory	2 fixed point decimal amount of the Available Balance of the organization's Charge Paid Account, which is debit account of the charge. Note: the exact Account Type will depend on the configuration.	9999.88
B2CRecipientIsReg isteredCustomer	xs:string	Mandatory	Indicate if the recipient is an existing Mobile Money customer, or an unregistered customer. Format: Y or N Note: This field is not filled	Y
			by the G1 platform, but it will be filled by the G2 platform.	

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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 B2C requests are expired. It will be invoked by Broker to notify the 3rd party once cached B2C requests are expired.

4.3.1.1 Input Message: notifyQueueTimeout

Element name	Element type	Optiona I	Description
originatorCon versationID	xsd:string		originatorConversationID from the request sent by the 3 rd party
originRequest	xsd:string	No	Original request without SOAP Header sent by 3 rd 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	
extensio nInfo	Parameters	Yes	Extended parameters.

4.3.1.3 Response Code

ResponseCode	ResponseDesc
000000000	Success
000000001	Failed

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4.4 Interface: QueryTransactionPort

4.4.1 Operation: queryTransaction

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

4.3.1.1 Message Header: RequestSOAPHeader

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

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4.3.1.2 Input Message: queryTransaction

Element name	Element type	Optional	Description
originatorCon versationID	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 1-1 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.

4.3.1.3 Output Message: queryTransactionResponse

Element name	Element type	Optional	Description
result	Response	No	
submitApiRe questList	xsd:string[0-u nbounded]	Y	Requests sent by the 3 rd party. Its value is the requests sent by the 3 rd party with base64 encoded.
submitApiRes ponseList	xsd:string[0-u nbounded]	Y	Responses returned from the Broker. Its value is the responses returned from the Broker with base64 encoded.
submitApiRes ultList	xsd:string[0-u nbounded]	Y	Results sent to the 3 rd party. Its value is the requests sent by the Broker with base64 encoded.
queueTimeOu tList	xsd:string[0-u nbounded]	Y	QueueTimeout requests sent to the 3 rd party. Its value is the requests sent by the Broker with base64 encoded.
extensionInfo	Parameters	Yes	Extended parameters.

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4.3.1.4 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.

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Input Message: changePassword

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

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Element name	Element type	Optional	Description
newPassword	xsd:string	No	New authentication password for 3 rd 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
			BASE64(AES(!QAZ2wsx, AAAabcdefghijklm, abcdefghijklmnop)) is wi2a7BAH0QPd2LRdmcgC9w==
			SP should fill wi2a7BAH0QPd2LRdmcgC9w== as newPassword
extensionInfo	Parameters	Yes	Extended parameters.

$Output\ Message: change Password Response$

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
100000005	Invalid input value:%1 %1 indicates the parameter's name.

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

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5 Example

5.1 GenericAPIRequest

5.1.1 The 3rd party send B2C request to the Broker

Example1: Request with ResultURL and QueueTimeoutURL

```
<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.cn/schema/common/v2_1">
           <tns:spld>35000011</tns:spld>
           <tns:spPassword>c5216e519a071d601bedd150f3fcd026</tns:spPassword>
           <tns:serviceId>35000001000009</tns:serviceId>
           <tns:timeStamp>20120101010101</tns:timeStamp>
        </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>PromotionPayment</CommandID>
          <LanguageCode></LanguageCode>
          <OriginatorConversationID>4596/OriginatorConversationID>
          <ConversationID> </ConversationID>
          <Remark> </Remark>
                  <Parameters>
              <Parameter>
                  <Key>Amount</Key>
                  <Value>1</Value>
              </Parameter>
             <Parameter>
                  <Key>Key1</Key>
```

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```
<Value>Value1</Value>
        </Parameter>
    </Parameters>
    <ReferenceData>
        <ReferenceItem>
            <Key>QueueTimeoutURL</Key>
            <Value>http://10.66.49.789:7888/new</Value>
        </ReferenceItem>
        <ReferenceItem>
            <Key>Occasion</Key>
            <Value>Jamuhuri</Value>
        </ReferenceItem>
    </ReferenceData>
    <Timestamp>2013-07-29T18:50:41.2109675Z</Timestamp>
</Transaction>
<ld><ldentity></ld>
    <Caller>
        <CallerType>2</CallerType>
        <ThirdPartyID> </ThirdPartyID>
        <Password>Password0</Password>
        <CheckSum>CheckSum0</CheckSum>
         <ResultURL>ResultURL0</ResultURL>
    </Caller>
    <Initiator>
        <ld><ld><ld><ld>IdentifierType></ld></lr>
        <ld><ldentifier>username</ldentifier></ld>
        <SecurityCredential>SecurityCredential0</SecurityCredential>
        <ShortCode>859636</ShortCode>
    <PrimaryParty>
        <IdentifierType>4</IdentifierType>
```

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```
<Identifier>859636</Identifier>
            <ShortCode>859636</ShortCode>
        </PrimaryParty>
        <ReceiverParty>
           <Identifier>2547204789659//Identifier>
            <ShortCode>ShortCode1</ShortCode>
        </ReceiverParty>
        <AccessDevice>
            <ld><ldentifierType>1</ldentifierType></ld>
            <ld><ldentifier>Identifier3</ldentifier></ld>
        </AccessDevice>
    </ldentity>
    <KeyOwner>1</KeyOwner>
</request>]]></req:RequestMsg>
   </soapenv:Body>
</soapenv:Envelope>
```

Example2: Request without ResultURL and QueueTimeoutURL

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```
<req:RequestMsg><![CDATA[<?xml version="1.0" encoding="UTF-8"?>
<request xmlns="http://api-v1.gen.mm.vodafone.com/mminterface/request">
              <Transaction>
                            <CommandID>CommandID0</CommandID>
                            <LanguageCode>LanguageCode0</LanguageCode>
                            < Originator Conversation ID > Originator Conversation ID 0 < / Originator Conversation ID > Originat
                            <ConversationID>ConversationID0</ConversationID>
                            <Remark>Remark0</Remark>
                            <EncryptedParameters>EncryptedParameters0</EncryptedParameters>
                            <Parameters>
                                          <Parameter>
                                                       <Key>Key0</Key>
                                                        <Value>Value0</Value>
                                          </Parameter>
                                          <Parameter>
                                                       <Key>Key1</Key>
                                                       <Value>Value1</Value>
                                          </Parameter>
                            </Parameters>
                            <ReferenceData>
                                          <ReferenceItem>
                                                       <Key>Key2</Key>
                                                        <Value>Value2</Value>
                                          </ReferenceItem>
                            </ReferenceData>
                            <Timestamp>
                            </Timestamp>
              </Transaction>
              <ld><ldentity></ld>
                            <Caller>
                                          <CallerType>0</CallerType>
```

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```
<ThirdPartyID>ThirdPartyID0</ThirdPartyID>
            <Password>Password0</Password>
            <CheckSum>CheckSum0</CheckSum>
        </Caller>
        <Initiator>
            <Identifier>Identifier0</Identifier>
            <SecurityCredential>SecurityCredential0</SecurityCredential>
            <ShortCode>
            </ShortCode>
        <PrimartyParty>
            <ld><ldentifierType>1</ldentifierType></ld>
            <ld><ldentifier>Identifier1</ldentifier></ld>
            <ShortCode>ShortCode0</ShortCode>
        </PrimartyParty>
        <ReceiverParty>
            <IdentifierType>1</IdentifierType>
            <ld><ldentifier>Identifier2</ldentifier></ld>
            <ShortCode>ShortCode1</ShortCode>
        </ReceiverParty>
        <AccessDevice>
            <ld><ld><ld><ld>IdentifierType></ld></ld></lr>
            <ld><ldentifier>Identifier3</ldentifier></ld>
        </AccessDevice>
    </ldentity>
    <KeyOwner>0</KeyOwner>
</request>]]></req:RequestMsg>
   </soapenv:Body>
</soapenv:Envelope>
```

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5.1.2 The Broker return response to the 3rd party

Example1: Forward CoreAPI response to the 3rd party

```
<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>ResponseCode0</ResponseCode>
     <ResponseDesc>ResponseDesc0</ResponseDesc>
     <ConversationID>
     </ConversationID>
     <OriginatorConversationID>
     </OriginatorConversationID>
     <ServiceStatus>0</ServiceStatus>
  </response>]]></req:ResponseMsg>
    </soapenv:Body>
</soapenv:Envelope>
```

Or

Example2: Error response caused by authentication failed.

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```
<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>
```

Example3: Error response caused by waiting for resending.

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5.2 GenericAPIResult

5.2.1 The Broker send notification to the 3rd party

```
<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>Success</ResultDesc>
               <OriginatorConversationID>R9-2-eq-a7cb-q277/OriginatorConversationID>
               <ConversationID>61da40ad-7e96-4889-83c4-1ea77091f8ec</ConversationID>
                <TransactionID>X-IO213</TransactionID><ResultParameters>
                <Parameter>
               <Key xmlns="http://api-v1.gen.mm.vodafone.com/mminterface/request">Amount</Key>
                <\!Value\ xmlns = "http://api-v1.gen.mm.voda fone.com/mminter face/request">\!Ksh200.00<\!/Value>\!Face/request''>\!Ksh200.00<\!/Value>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/request''>\!Face/reque
                </Parameter><Parameter><Key xmlns="http://api-v1.gen.mm.vodafone.com/mminterface/request">Transaction Datetime</Key>
                <Value xmlns="http://api-v1.gen.mm.vodafone.com/mminterface/request">22/10/2014 20:55:24</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">\!2338002.5100<\!/Value>\!
               </Parameter><Parameter>
                <Key xmlns="http://api-v1.gen.mm.vodafone.com/mminterface/request">Charges Paid Account Available Funds
                <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 Available Funds</Key>
               <Value xmlns="http://api-v1.gen.mm.vodafone.com/mminterface/request">461898.0000</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://10.66.49.201:8097/</Value></ReferenceItem></ReferenceData></Result>]]>
</ResultMsg>
```

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

Or

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:Header/>
<soapenv:Body>
<Result>
  <ResultType>0</ResultType>
  <ResultCode>0</ResultCode>
  <ResultDesc>The service request is processed successfully.</ResultDesc>
  <\!Originator Conversation ID\!>\!D7866050\text{-}CE7C\text{-}46B9\text{-}BE97\text{-}D9FBACC69041}<\!/Originator Conversation ID\!>
  <ConversationId>B72AC018-86E4-477A-B4B0-9EC65AE8A2FE/ConversationId>
  <TransactionId>2782728972</TransactionId>
  <ResultParameters>
    <ResultParameter>
      <Key>TransactionReceipt</Key>
      <Value>2782728972</Value>
    </ResultParameter>
    <ResultParameter>
      <Key>TransactionAmount</Key>
      <Value>100.00</Value>
    </ResultParameter>
    <ResultParameter>
      <Key>TransactionCompletedDateTime</Key>
      <Value>22.03.2012 12:20:20</Value>
    </ResultParameter>
        <ResultParameter>
      <Key>ReceiverPartyPublicName</Key>
      <Value>254778866553868-Kip Keino</Value>
    </ResultParameter>
```

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```
<ResultParameter>
      <Key>B2CWorkingAccountAvailableFunds</Key>
      <Value>10000.00</Value>
    </ResultParameter>
    <ResultParameter>
      <Key>B2CUtilityAccountAvailableFunds</Key>
      <Value>100000.00</Value>
    </ResultParameter>
    <ResultParameter>
      <Key>B2CChargesPaidAccountAvailableFunds</Key>
      <Value>1000.00</Value>
    </ResultParameter>
    <ResultParameter>
      <Key>B2CRecipientIsRegisteredCustomer</Key>
      <Value>Y</Value>
</ResultParameter>
<ResultParameter>
      <\!\!Key\!\!>\!\!B2CWithdrawalChargeAmount\!<\!\!/Key\!\!>
      <Value>12.00</Value>
    </ResultParameter>
  </ResultParameters>
  <ReferenceData>
    <ReferenceItem>
      <Key>Occasion</Key>
      <Value>Christmas</Value>
    </ReferenceItem>
  </ReferenceData>
</Result>]]></req:ResultMsg>
</soapenv:Body>
</soapenv:Envelope>
```

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5.2.2 The 3rd party return response to the Broker

Example1: Success response

Example2: Error response

5.3 notifyQueueTimeout

5.3.1 The Broker send notification to the 3rd party

PROJECT NAME: M-PESA	Safaricom
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<soapenv:Body>

<loc:notifyQueueTimeout> <loc:originatorConversationID>OriginatorConversationID0 <loc:originRequest>PHNvYXBlbnY6RW52ZWxvcGUgeG1sbnM6c29hcGVudj0iaHR0cDovL3NjaGVtYXMueG1sc29hcC5v cmcvc29hcC9lbnZlbG9wZS8iIHhtbG5zOnJlcT0iaHR0cDovL2FwaS12MS5nZW4ubW0udm9kYWZv bmUuY29tL21taW50ZXJmYWNlL3JlcXVlc3QiPgoglCA8c29hcGVudjpCb2R5PgoglCAglCA8cmVxPz4KPHJlcXVlc3QgeG1sbnM9Imh0dHA6Ly9hcGktdjEuZ2VuLm1tLnZvZGFmb25lLmNvbS9tbWlu bW1hbmRJRDA8L0NvbW1hbmRJRD4KICAgICAgICA8TGFuZ3VhZ2VDb2RIPkxhbmd1YWdIQ29kZTA8 L0xhbmd1YWdlQ29kZT4KlCAglCAglCA8T3JpZ2luYXRvckNvbnZlcnNhdGlvbklEPk9yaWdpbmF0b3JDb252ZXJzYXRpb25JRDA8L09yaWdpbmF0b3JDb252ZXJzYXRpb25JRD4KICAgICAgICA8Q29udmVyc2F0aW9uSUQ+Q29udmVyc2F0aW9uSUQwPC9Db252ZXJzYXRpb25JRD4KICAgICAgICA8UmVtYXJrPIJIbWFyazA8L1JIbWFyaz4KICAgICAgICA8RW5jcnlwdGVkUGFyYW1ldGVycz5FbmNyeXB0 ZXk+CiAglCAglCAglCAglCAglCAglCAgVmFsdWU+VmFsdWUxPC9WYWx1ZT4KlCAglCAglCAglCAglCAgPC9Q YXJhbWV0ZXI+CiAglCAglCAgPC9QYXJhbWV0ZXJzPgoglCAglCAglDxSZWZlcmVuY2VEYXRhPgog ICAgICAgICAGICASUmVmZXJlbmNlSXRlbT4KICAgICAgICAgICAGICAGIDxLZXk+UXVldWVUaW1I b3V0VVJMPC9LZXk+CiAgICAgICAgICAgICAgICASVmFsdWU+VmFsdWUyPC9WYWx1ZT4KICAgICAg ICAgICAgICAgIDxLZXk+S2V5MzwvS2V5PgogICAgICAgICAgICAgICAgICAgPFZhbHVIPIZhbHVIMzwvVmFsdWU+CiAgICAgICAgICAgIDwvUmVmZXJlbmNlSXRlbT4KICAgICAgICA8L1JlZmVyZW5jZURhdGE+CiAgICAgICAgPFRpbWVzdGFtcD4KICAgICAgICAgICAgL1RpbWVzdGFtcD4KICAgIDwvVHJhbnNhY3Rpb24+CiAgICA8SWRlbnRpdHk+CiAgICAgICAgPENhbGxlcj4KICAgICAgICAgICAgPENhbGxl clR5cGU+MDwvQ2FsbGVyVHlwZT4KlCAglCAglCAglCAgPFRoaXJkUGFydHlJRD5UaGlyZFBhcnR5 SUQwPC9UaGlyZFBhcnR5SUQ+CiAglCAglCAglCAglDxQYXNzd29yZD5QYXNzd29yZDA8L1Bhc3N3ICAgPFJIc3VsdFVSTD5SZXN1bHRVUkwwPC9SZXN1bHRVUkw+CiAgICAgICAgPC9DYWxsZXI+CiAg

PROJECT NAME: M-PESA	Safaricom
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ICAglCAgPEluaXRpYXRvcj4KlCAglCAglCAglCAgPElkZW50aWZpZXJUeXBlPjE8L0lkZW50aWZp ZXJUeXBIPgogICAgICAgICAgICA8SWRlbnRpZmllcj5JZGVudGlmaWVyMDwvSWRlbnRpZmllcj4KICAgICAgICAgICAGPFNIY3VyaXR5Q3JIZGVudGlhbD5TZWN1cml0eUNyZWRlbnRpYWwwPC9TZWN1 cml0eUNyZWRlbnRpYWw+CiAqlCAqlCAqlCAqlDxTaG9ydENvZGU+CiAqlCAqlCAqlCAqlDwvU2hv ICAgICAgICASWRIbnRpZmllclR5cGU+MTwvSWRlbnRpZmllclR5cGU+CiAgICAgICAgICAgIDxJPINob3J0Q29kZTA8L1Nob3J0Q29kZT4KICAgICAgICAgL1ByaW1hcnR5UGFydHk+CiAgICAgICAg PFJIY2VpdmVyUGFydHk+CiAgICAgICAgICAgIDxJZGVudGlmaWVyVHlwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZT4xPC9JZGVudGlmaWVyNHwZY4xPC9JZGVudGlmaWVyNHwZY4xPC9JZGVudGlmaWVyNHwZY4xPC9JZGVudGlmaWVyNHwZY4xPC9JZGVudGlmaWVyNHwZY4xPC9JZGVudGlmaWVyNHwWyNHwZY4xQVudGlmaWVyNHwZY4xQVudGlmaWVyNHWZY4xQVudGlmaWVyNWVyNHwWZY4xQVudGlmaWVyVHIwZT4KICAgICAgICAgICAgPElkZW50aWZpZXI+SWRlbnRpZmllcjl8L0lkZW50aWZpZXI+CiAg ICAgICAgICAgIDxTaG9ydENvZGU+U2hvcnRDb2RIMTwvU2hvcnRDb2RIPgogICAgICAgIDwvUmVj ZWI2ZXJQYXJ0eT4KICAgICAgICA8QWNjZXNzRGV2aWNIPgogICAgICAgICAgICA8SWRIbnRpZmllZXIzPC9JZGVudGlmaWVyPgoglCAglCAglDwvQWNjZXNzRGV2aWNlPgoglCAgPC9JZGVudGl0eT4KICAgIDxLZXIPd25lcj4wPC9LZXIPd25lcj4KPC9yZXF1ZXN0Pl1dPjwvcmVxOIJlcXVlc3RNc2c+CiAgIDwvc29hcGVudjpCb2R5Pgo8L3NvYXBIbnY6RW52ZWxvcGU+Cg==</loc:originRequest> </loc:notifyQueueTimeout> </soapenv:Body> </soapenv:Envelope>

5.3.2 The 3rd party return response to the Broker

Example1: Success response

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```
</loc:notifyQueueTimeoutResponse>
</soapenv:Body>
</soapenv:Envelope>
```

Example2: Error response

5.4 queryTransaction

5.4.1 The 3rd party sends query request to the Broker

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COMPANY/DIVISION: PRODUCT AND SERVICE DEVELOPMENT	DATE: 7 TH OCTOBER 2014

5.4.2 The Broker return response to the 3rd party

Example1: Success response

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

<soapenv:Body>
<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

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

<ns1:result>

<ns1:submitApiRequestList>
```

<ns1:submitApiRequest>UE9TVCAvbW1pbnRlcmZhY2UvcmVxdWVzdCBIVFRQLzEuMQ0KQWNjZXB0LUVuY29kaW5nOiBnemlwLGRIZ mxhdGUNCkNvbnRlbnQtVHlwZTogdGV4dC94bWw7Y2hhcnNldD1VVEYtOA0KU09BUEFjdGlvbjoglilNClVzZXItQWdlbnQ6lEpha2FydGE gQ29tbW9ucy1ldHRwQ2xpZW50LzMuMQ0KSG9zdDogMTAuNS4zOC41MTo4MzEwDQpDb250ZW50LUxlbmd0aDogMjU1MQ0KDQo8c 29hcGVudjpFbnZlbG9wZSB4bWxuczpzb2FwZW52PSJodHRwOi8vc2NoZW1hcy54bWxzb2FwLm9yZy9zb2FwL2VudmVsb3BlLylgeG1sb nM6cmVxPSJodHRwOi8vYXBpLXYxLmdlbi5tbS52b2RhZm9uZS5jb20vbW1pbnRlcmZhY2UvcmVxdWVzdCI+CiAgIDxzb2FwZW52OkhIY WRlcj4KICAgICAgPHRuczpSZXF1ZXN0U09BUEhlYWRlciB4bWxuczp0bnM9lmh0dHA6Ly93d3cuaHVhd2VpLmNvbS9zY2hlbWEvb3NnL 2NvbW1vbi92Ml8xlj4KICAgICAgICAgPHRuczpzcElkPjE1MTUxNTwvdG5zOnNwSWQ+CiAgICAgICAgICAgIDx0bnM6c3BQYXNzd29yZD5PRE V4TkVSQ01EbENOalZEUmtZeFFVRkNOekU1TWtFMU9FUXINakpETXprMVJVRkNOemd3TWprMk9ERTRSamsxT1RFMk1FRkdORFUx UWtSQ01Ea3lNZz09PC90bnM6c3BQYXNzd29yZD4KICAgICAgICAgICAgPHRuczp0aW1IU3RhbXA+MjAxNDA3MzAwOTM2MjA8L3Ruczp0a W1IU3RhbXA+CiAgICAgICAgIDx0bnM6c3VydmljZUlkPjE1MTUxNTAwMDwvdG5zOnNlcnZpY2VJZD4KICAgICAgPC90bnM6UmVxdWVzdFNPQVBIZWFkZXI+CiAgIDwvc29hcGVudjpIZWFkZXI+CiAgIDxzb2FwZW52OkJvZHk+CiAgICAgIDxyZXE6UmVxdWVzdE1zZz248IVtDR

PROJECT NAME: M-PESA	Safaricom
DOCUMENT NAME: B2C API SPECIFICATION	VERSION: 1.5
COMPANY/DIVISION: PRODUCT AND SERVICE DEVELOPMENT	DATE: 7 [™] OCTOBER 2014

EFUQVs8P3htbCB2ZXJzaW9uPScnMS4wJycgZW5jb2Rpbmc9JydVVEYtOCcnPz48cmVxdWVzdCB4bWxucz0nJ2h0dHA6Ly9hcGktdjEu Z2VuLm1tLnZvZGFmb25lLmNvbS9tbWludGVyZmFjZS9yZXF1ZXN0Jyc+CjxUcmFuc2FjdGlvbj4KCTxDb21tYW5kSUQ+U2FsYXJ5UGF5 bWVudDwvQ29tbWFuZEIEPqoJPExhbmd1YWdlQ29kZT4wPC9MYW5ndWFnZUNvZGU+Cqk8T3JpZ2luYXRvckNvbnZlcnNhdGlvbklEPII5STEtMDAwMC00Mjl1LWc2NDE1MzwvT3JpZ2luYXRvckNvbnZlcnNhdGlvbklEPgoJPENvbnZlcnNhdGlvbklEPjwvQ29udmVyc2F0aW9uSUQ+Cgk8UmVtYXJrPjA8L1JlbWFyaz4KCTxFbmNyeXB0ZWRQYXJhbWV0ZXJzPkVuY3J5cHRlZFBhcmFtZXRlcnMwPC9FbmNyeXB0Z WRQYXJhbWV0ZXJzPgo8UGFyYW1ldGVycz48UGFyYW1ldGVyPgoJPEtleT5BbW91bnQ8L0tleT4KCTxWYWx1ZT43MC4wMDwvVmFs dWU+CjwvUGFyYW1ldGVyPgoKICAgICAgICAgICAgCgo8L1BhcmFtZXRlcnM+CjxSZWZlcmVuY2VEYXRhPgoJPFJIZmVyZW5jZUI0ZW0+CgkJPEtleT5RdWV1ZVRpbWVvdXRVUkw8L0tleT4KCQk8VmFsdWU+aHR0cDovLzEwLjY2LjQ5LjlwMTo4OTg5LzwvVmFsdWU+Cgk8L 1JIZmVyZW5jZUI0ZW0+PC9SZWZlcmVuY2VEYXRhPgoJPFRpbWVzdGFtcD4yMDE0LTA5LTI3VDEyOjUzOjE5LjAwMDA1MjFaPC9Ua W1Ic3RhbXA+CjwvVHJhbnNhY3Rpb24+CjxJZGVudGI0eT4KCTxDYWxsZXI+CgkJPENhbGxlcIR5cGU+MjwvQ2FsbGVyVHlwZT4KCQk8 VGhpcmRQYXJ0eUIEPjq5ODk0MTwvVGhpcmRQYXJ0eUIEPqoJCTxQYXNzd29yZD5QYXNzd29yZDA8L1Bhc3N3b3JkPqoJCTxDaGVja 1N1bT5DaGVja1N1bTA8L0NoZWNrU3VtPgoJCTxSZXN1bHRVUkw+aHR0cDovLzEwLjY2LjQ5LjlwMTo4MDk3LzwvUmVzdWx0VVJMPg oJPC9DYWxsZXI+Cgk8SW5pdGlhdG9yPgoJCTxJZGVudGlmaWVyVHlwZT4xMTwvSWRlbnRpZmllclR5cGU+CgkJPElkZW50aWZpZXI+ YjJjMml8L0lkZW50aWZpZXI+CqkJPFNIY3VyaXR5Q3JIZGVudGlhbD5iSkpiQ0E0UVQvVzdwVIQ5ZyszZGN0alFJRIUyb2pTVVZlcXo1WV VCK3VVcDY2RDIVaGpqWnNoWEp5KzltRGVTcFJuRVFiczZIOHdHcmhoMjNBVnVQMi9jeURxRTZ4ZmhhU2hXM0tkdFZ0K0FxdWF0VW FCZkxiNINQZ045ZWdrVWtuNGhzWFdrK25oZlk3UnNtZE1LeTRJUkJZVGlqTXVIUGU2eUd3MTdrZUVqWk9MNCtrNG5XYTFqVnZScFBJ NnVBRkpTWTMzcEl4dUxoMlR4K2tBcmc1STRCNEpRS09pdzJtN0NQblZVMGpodnE4eHNHYXJPSW4yQ09DakV0M0cvQnlwV3Bucks3 MStlenZoQUJoOVU4bG50MjVFdlU3cmpBVHpMd2xG0E1nVnYra3UySERTNjJ4MFptVEtVWEgxc3JzU0JhS0VqaVRoY2NGcmZYVEVrR IE9PTwvU2VjdXJpdHlDcmVkZW50aWFsPgoJCTxTaG9ydENvZGU+ODk4OTQ3PC9TaG9ydENvZGU+Cgk8L0luaXRpYXRvcj4KCQk8U bnRpZmllcj4KCQkJPFNob3J0Q29kZT48L1Nob3J0Q29kZT4KCQk8L1ByaW1hcnlQYXJ0eT4KCTxSZWNlaXZlclBhcnR5PgoJCTxJZGVud GlmaWVyVHlwZT4xPC9JZGVudGlmaWVyVHlwZT4KCQk8SWRlbnRpZmllcj4yNTQ3MDcxNjM2MDU8L0lkZW50aWZpZXI+CgkJPFNob3 J0Q29kZT48L1Nob3J0Q29kZT4KCTwvUmVjZWl2ZXJQYXJ0eT4KCTxBY2Nlc3NEZXZpY2U+CgkJPElkZW50aWZpZXJUeXBlPjE8L0lkZ W50aWZpZXJUeXBIPgoJCTxJZGVudGlmaWVyPklkZW50aWZpZXlzPC9JZGVudGlmaWVyPgoJCTwvQWNjZXNzRGV2aWNIPjwvSWRI bnRpdHk+CgkJPEtleU93bmVyPjE8L0tleU93bmVyPgoJPC9yZXF1ZXN0Pl1dPjwvcmVxOlJlcXVlc3RNc2c+CiAglDwvc29hcGVudjpCb2R5 Pgo8L3NvYXBlbnY6RW52ZWxvcGU+</ns1:submitApiRequest>

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</ns1:queryTransactionResponse>
</soapenv:Body>

</soapenv:Envelope>Example2: Error response

5.5 changePassword

5.5.1 Request example:

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</soapenv:Envelope>
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5.5.2 Response example:

• Example1: Success response

• Example2: Error response caused by authentication failed.

PROJECT NAME: M-PESA	Safaricom
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<ResponseCode>100000007</ResponseCode>

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