

PROJECT NAME: M-PESA	
DOCUMENT NAME: B2C API SPECIFICATION	VERSION: 1.0
COMPANY/DIVISION: PRODUCT AND SERVICE DEVELOPMENT	DATE: 18 <sup>TH</sup> JUNE 2013

# 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
Senior Manager Service Development	Reginald Tole		
Principal Service Development Engineer	Eric Mokaya		

## Revision Log

Revision Number	Revision Date	Revision	Revision made by
1.0	18th June, 2013	Initial Draft	Eneth Kubai

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## Abbreviations

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

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# 1 Introduction

---

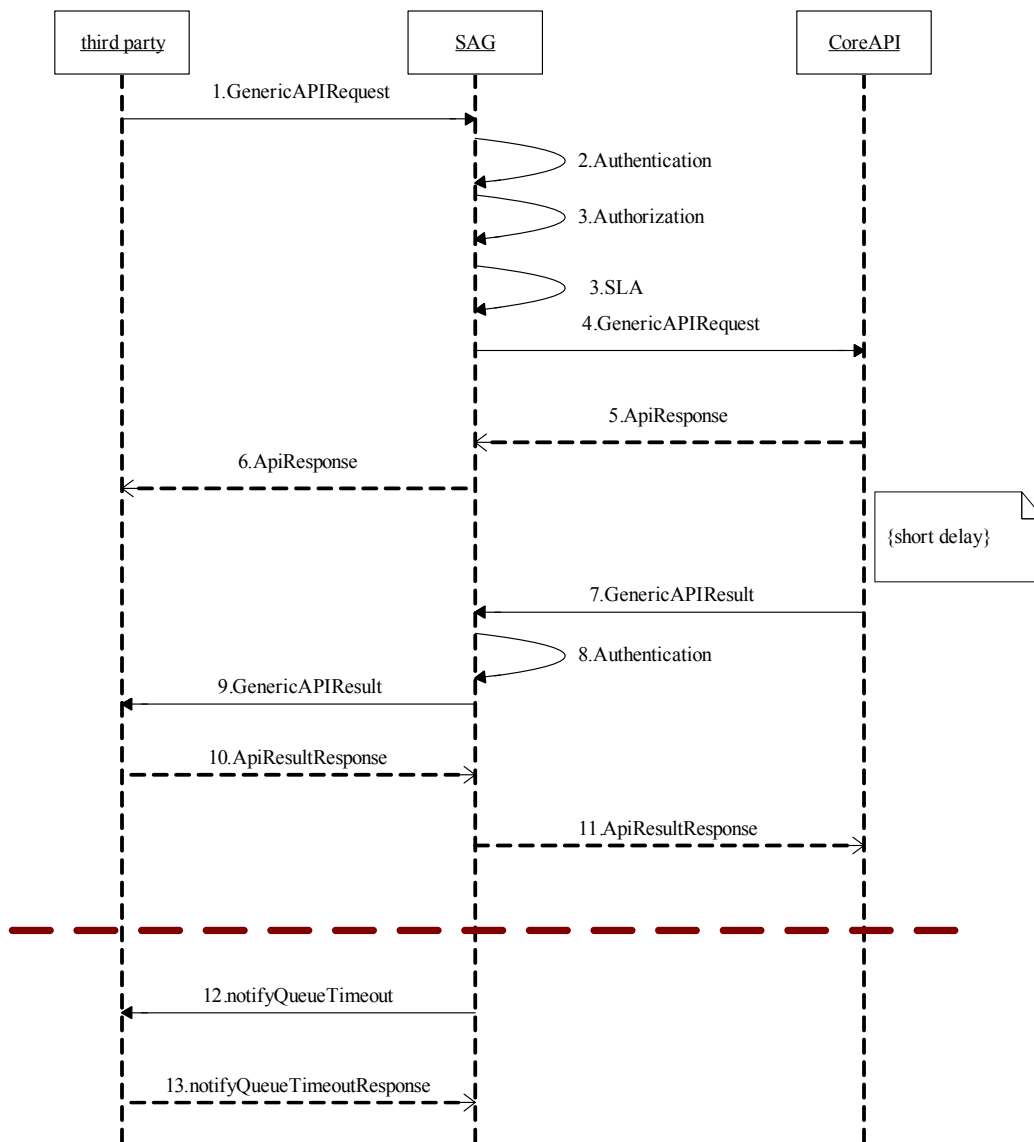
## 1.1 Scope

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	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
Referenceltem	ParameterType[1..unbounded]	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 <ul style="list-style-type: none"> <li><i>SalaryPayment</i></li> <li><i>BusinessPayment</i></li> <li><i>BusinessPaymentWithWithdrawalChargePaid</i></li> <li><i>SalaryPaymentWithWithdrawalChargePaid</i></li> <li><i>PromotionPayment</i></li> </ul>
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
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
EncryptedParameters	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	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.

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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.
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.

### 3.9 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 IdentifierType.
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

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### 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 Initiator.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.
ResponseDescription	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.

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### 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

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## 4 Web Service Interface Definition

### 4.1 Interface: RequestMgrPortType

#### 4.1.1 Operation: GenericAPIRequest

The 3<sup>rd</sup> party invokes this operation to send a B2C request

##### I. 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 <sup>rd</sup> 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
serviceId	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	<p>Time stamp (UTC time).</p> <p>The value is required during SHA-256 encryption for <b>spPassword</b>.</p> <p><b>NOTE</b> If the <b>spPassword</b> parameter must be set, this parameter is mandatory.</p> <p>[Format] yyyyMMddHHmmss</p> <p>[Example] 20100731064245</p>

#### II. 4.1.1.2 Input Message: RequestMsg

Element name	Element type	Optional	Description
RequestMsg	xsd: string	No	Request Message from 3 <sup>rd</sup> 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 3<sup>rd</sup> party must add a key-pair parameter into **ReferenceData** and the key is **QueueTimeoutURL**.

#### III. 4.1.1.3 Output Message: ResponseMsg

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

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#### IV. 4.1.1.4 Response Codes

ResponseCode	ResponseDesc
000000000	Success
100000000	Request was cached, waiting for resending
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
100000009	API's status is abnormal
100000010	Insufficient permissions
100000011	Exceed the limitation of request rate
100000012	Insufficient balance
100000013	No route
100000014	Missing mandatory parameter:%1 %1 indicates the parameter's name.

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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 3<sup>rd</sup> party once Broker received the notification from CoreAPI.

#### V. 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.

#### VI. 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.

#### VII. 4.2.1.3 Response Codes

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



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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 3<sup>rd</sup> party once cached B2C requests are expired.

#### VIII. 4.3.1.1 Input Message: notifyQueueTimeout

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

#### IX. 4.3.1.2 Output Message: notifyQueueTimeoutResponse

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

#### X. 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 3<sup>rd</sup> party invokes this operation to query transaction information..

#### XI. 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 <sup>rd</sup> party. [Example] 000201
spPassword	xsd: string	Yes	Encrypted authentication password for partners to access the Broker. The value is a character string encrypted from <b>spId</b> + <b>Password</b> + <b>timeStamp</b> by SHA-256. The encryption formula is as follows: $spPassword = \text{BASE64}(\text{SHA-256}(spId + Password + timeStamp))$ In the preceding formula: <b>timeStamp</b> : value of <b>timeStamp</b> . <b>Password</b> : authentication password for 3 <sup>rd</sup> parties to access the Broker. The value is allocated by the Broker. <b>NOTE</b> 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 <sup>rd</sup> party. [Example] 3500001000012
timeStamp	xsd: string	Yes	Time stamp (UTC time). The value is required during SHA-256 encryption for <b>spPassword</b> . <b>NOTE</b> If the <b>spPassword</b> parameter must be set, this parameter is mandatory. [Format] yyyyMMddHHmmss [Example] 20100731064245

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#### XII. 4.3.1.2 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.

#### XIII. 4.3.1.3 Output Message: queryTransactionResponse

Element name	Element type	Optional	Description
result	Response	No	
submitApiRequestList	xsd:string[0-unbounded]	Y	Requests sent by the 3 <sup>rd</sup> party. Its value is the requests sent by the 3 <sup>rd</sup> 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.
submitApiResponseList	xsd:string[0-unbounded]	Y	Results sent to the 3 <sup>rd</sup> party. Its value is the requests sent by the Broker with base64 encoded.
queueTimeoutList	xsd:string[0-unbounded]	Y	QueueTimeout requests sent to the 3 <sup>rd</sup> party. Its value is the requests sent by the Broker with base64 encoded.
extensionInfo	Parameters	Yes	Extended parameters.

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#### XIV. 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.

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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>35000001</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>CommandID0</CommandID>
    <LanguageCode>LanguageCode0</LanguageCode>
    <OriginatorConversationID>OriginatorConversationID0</OriginatorConversationID>
    <ConversationID>ConversationID0</ConversationID>
    <Remark>Remark0</Remark>
    <EncryptedParameters>EncryptedParameters0</EncryptedParameters>
    <Parameters>
      <Parameter>
        <Key>Key0</Key>
        <Value>Value0</Value>
      </Parameter>
      <Parameter>
```

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```

        <Key>Key1</Key>

        <Value>Value1</Value>

    </Parameter>

</Parameters>

<ReferenceData>

    <ReferenceItem>

        <Key>QueueTimeoutURL</Key>

        <Value>Value2</Value>

    </ReferenceItem>

    <ReferenceItem>

        <Key>Key3</Key>

        <Value>Value3</Value>

    </ReferenceItem>

</ReferenceData>

<Timestamp>

</Timestamp>

</Transaction>

<Identity>

    <Caller>

        <CallerType>0</CallerType>

        <ThirdPartyID>ThirdPartyID0</ThirdPartyID>

        <Password>Password0</Password>

        <Checksum>Checksum0</Checksum>

        <ResultURL>ResultURL0</ResultURL>

    </Caller>

    <Initiator>

        <IdentifierType>1</IdentifierType>

        <Identifier>Identifier0</Identifier>

        <SecurityCredential>SecurityCredential0</SecurityCredential>

        <ShortCode>

</ShortCode>

```

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```

</Initiator>

<PrimaryParty>

  <IdentifierType>1</IdentifierType>

  <Identifier>Identifier1</Identifier>

  <ShortCode>ShortCode0</ShortCode>

</PrimaryParty>

<ReceiverParty>

  <IdentifierType>1</IdentifierType>

  <Identifier>Identifier2</Identifier>

  <ShortCode>ShortCode1</ShortCode>

</ReceiverParty>

<AccessDevice>

  <IdentifierType>1</IdentifierType>

  <Identifier>Identifier3</Identifier>

</AccessDevice>

</Identity>

<KeyOwner>0</KeyOwner>

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

</soapenv:Body>

</soapenv:Envelope>

```

#### Example2: Request without 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/schema/osg/common/v2_1">

      <tns:spld>35000001</tns:spld>

      <tns:spPassword>c5216e519a071d601bedd150f3fcd026</tns:spPassword>

      <tns:timeStamp>20080101010101</tns:timeStamp>

      <tns:serviceId>35000001000009</tns:serviceId>

      <tns:OA>861234567890</tns:OA>

      <tns:FA>861234567890</tns:FA>
    </tns:RequestSOAPHeader>
  </soapenv:Header>
</soapenv:Envelope>

```

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```

</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>CommandID0</CommandID>

    <LanguageCode>LanguageCode0</LanguageCode>

    <OriginatorConversationID>OriginatorConversationID0</OriginatorConversationID>

    <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>

      <Referenceltem>

        <Key>Key2</Key>

        <Value>Value2</Value>

      </Referenceltem>

    </ReferenceData>

    <Timestamp>

    </Timestamp>

  </Transaction>

```



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```

<Identity>

  <Caller>

    <CallerType>0</CallerType>

    <ThirdPartyID>ThirdPartyID0</ThirdPartyID>

    <Password>Password0</Password>

    <Checksum>Checksum0</Checksum>

  </Caller>

  <Initiator>

    <IdentifierType>1</IdentifierType>

    <Identifier>Identifier0</Identifier>

    <SecurityCredential>SecurityCredential0</SecurityCredential>

    <ShortCode>

    </ShortCode>

  </Initiator>

  <PrimartyParty>

    <IdentifierType>1</IdentifierType>

    <Identifier>Identifier1</Identifier>

    <ShortCode>ShortCode0</ShortCode>

  </PrimartyParty>

  <ReceiverParty>

    <IdentifierType>1</IdentifierType>

    <Identifier>Identifier2</Identifier>

    <ShortCode>ShortCode1</ShortCode>

  </ReceiverParty>

  <AccessDevice>

    <IdentifierType>1</IdentifierType>

    <Identifier>Identifier3</Identifier>

  </AccessDevice>

</Identity>

<KeyOwner>0</KeyOwner>

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

```

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```
</soapenv:Body>
```

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

### 5.1.2 The Broker return response to the 3rd party

Example1: Forward CoreAPI response to the 3<sup>rd</sup> 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>
```

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>
```

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</soapenv:Envelope>

Example3: Error response caused by waiting for resending.

```

<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>100000000</ResponseCode>
  <ResponseDesc>Request was cached, waiting for resending</ResponseDesc>
</response>]]></req:ResponseMsg>
  </soapenv:Body>
</soapenv:Envelope>

```

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## 5.2 GenericAPIResult

### 5.2.1 The Broker send notification to the 3rd party

```

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

  <soapenv:Header/>

  <soapenv:Body>

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

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

  <ResultType>0</ResultType>

  <ResultCode>ResultCode</ResultCode>

  <ResultDesc>ResultDesc0</ResultDesc>

  <OriginatorConversationID>OriginatorConversationID0</OriginatorConversationID>

  <ConversationID>ConversationID0</ConversationID>

  <TransactionID>TransactionID0</TransactionID>

  <ResultParameters>

    <ResultParameter>

      <Key>Key0</Key>

      <Value>Value0</Value>

    </ResultParameter>

    <ResultParameter>

      <Key>Key1</Key>

      <Value>Value1</Value>

    </ResultParameter>

  </ResultParameters>

  <ReferenceData>

    <ReferenceItem>

      <Key>Key2</Key>

      <Value>Value2</Value>

    </ReferenceItem>

    <ReferenceItem>

```

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```

        <Key>Key3</Key>

        <Value>Value3</Value>

    </ReferenceItem>

</ReferenceData>

</result>]]</res:ResultMsg>

</soapenv:Body>

</soapenv:Envelope>

```

## 5.2.2 The 3rd party return response to the Broker

Example1: Success response

```

<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>00000000</ResponseCode>

    <ResponseDesc>success</ResponseDesc>

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

    </soapenv:Body>

</soapenv:Envelope>

```

Example2: Error response

```

<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>20000003</ResponseCode>

    <ResponseDesc>Internal Server Error</ResponseDesc>

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

    </soapenv:Body>

```





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```

<soapenv:Header/>

<soapenv:Body>

  <loc:notifyQueueTimeoutResponse>

    <loc:result>

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

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

    </loc:result>

  </loc:notifyQueueTimeoutResponse>

</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>

```

## 5.4 queryTransaction

### 5.4.1 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>

```



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```

<v2:spld>3500001</v2:spld>

<v2:spPassword>c5216e519a071d601bedd150f3cd026</v2:spPassword>

<v2:serviceId>35000001000001</v2:serviceId>

<v2:timeStamp>20120101010101</v2:timeStamp>

</v2:RequestSOAPHeader>

</soapenv:Header>

<soapenv:Body>

  <loc:queryTransaction>

    <loc:originatorConversationID>1223465451551515</loc:originatorConversationID>

  </loc:queryTransaction>

</soapenv:Body>

</soapenv:Envelope>

```

#### 5.4.2 The Broker return response to the 3rd party

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:queryTransactionResponse>

      <loc:result>

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

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

      </loc:result>

      <loc:submitApiRequestList>

        <loc:submitApiRequest>PHNvYXBibnY6RW52ZWxcGUgeG1sbnM6c29hcGVudj1odHRwOi8vc2NoZW1hcy54bWxzb2FwLm9y
          Zy9zb2FwL2VudmVsb3BilYB4bWxuczpyZXE9aHR0cDovL2FwaS12MS5nZW4ubW0udm9kYWZvbmlUu
          Y29tL21taW50ZXJmYWNIL3JlcXVlc3Q+CiAgIDxzbn2FwZW52OkhYWRlcj4KICAgICAgPHRuczps
          ZXF1ZXN0U09BUeHlYWWRlciB4bWxuczps0bnM9aHR0cDovL3d3dy5odWF3ZWkuY29tLmNuL3NjaGVt
          YS9jb21tb24vdjJfMT4KICAgICAgICAgPHRuczpzciElkPjM1MDAwMDAxPC90bnM6c3BJZD4KICAg

```











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MGRIQTZMeTioY0drdGRqRXVaMIZ1TG0xdExuWnZaR0ZTYj1bExtTnZiUz0YlYdsdQpkR1Z5Wm1G  
 alpTOXlaWEYxWihOMElqNEtJQ0FnSUR4VWNtRnVjMkZqZEdsdmJqNEtJQ0FnSUNBZ0IDQThRMjI0  
 YldGdVpFbEVQa052CmJXMWhibVJKUkRBOEwwTnZiVzFoYm1SSIJENetJQ0FnSUNBZ0IDQThUR0Z1  
 WjNwFoyVkrIMiJsUGt4aGJtZDFZV2RsUTi5a1pUQTgKTDB4aGJtZDFZV2RsUTi5a1pUNEtJQ0Fn  
 SUNBZ0IDQThUM0pwWjJsdVIYUnZja052Ym5abGNuTmhkR2x2YmtsRVBrOXlhV2RwYm1GMApiM0pE  
 YjI1MlpYSnpZWFJwYjI1SIJEQThMMDI5YVdkcGJtRjBiM0pEYjI1MlpYSnpZWFJwYjI1SIJENetJ  
 Q0FnSUNBZ0IDQThRMjI1CmRtVnIjMkYwYVc5dVNVUStRMjI1ZG1WeWMYRjBhVzI1U1VRd1BDOURi  
 MjUyWihKelIYUnBiMjVJKUkQ0S0IDQWdJQ0FnSUNBOFVtVnQKWVhKclBsSmxiV0Z5YXpBOEwxSmxi  
 V0Z5YXo0S0IDQWdJQ0FnSUNBOFJXNWpjbmx3ZEEdWa1VHRnlZvZFsZEEdWeWN6NUZibU55ZVhCMApa  
 V1JRWVhKaGJXVjBaWEp6TUR3dJXNWpjbmx3ZEEdWa1VHRnlZvZFsZEEdWeWN6NEtJQ0FnSUNBZ0ID  
 QThVR0Z5WVcxGRHVnlIjeJRLCKIDQWdJQ0FnSUNBZ0IDQWdQRKJoY21GdFpYUmxajRLSUNBZ0ID  
 QWdJQ0FnSUNBZ0IDQWdJRHHMWlhrK1MyVjVNRHd2UzJWNVBnb2cKSUNBZ0IDQWdJQ0FnSUNBZ0ID  
 QWdQRlpoYkhWbFBsWmhiSFZsTUR3dIZtRnNkV1UrQ2IBZ0IDQWdJQ0FnSUNBZ0IEd3ZVR0Z5WVcx  
 bApkR1Z5UGdvZ0IDQWdJQ0FnSUNBZ0IDQThVR0Z5WVcxGRHVnlQZ29nSUNBZ0IDQWdJQ0FnSUNB  
 Z0IDQWdQRXRrsZVQ1TFpYa3hQQzIMCpYaytDaUFnSUNBZ0IDQWdJQ0FnSUNBZ0IDQThWbUZZfDV  
 K1ZtRnNkV1V4UEM5V1IXeDFaVDRLSUNBZ0IDQWdJQ0FnSUNBZ1BDOVEKWVhKaGJXVjBaWEkrQ2IB  
 Z0IDQWdJQ0FnUEM5UVIYSmhiV1YwWihKelBnb2dJQ0FnSUNBZ0IEeFNaV1psY21WdVkyVkvZWfJo  
 UGdvZwpJQ0FnSUNBZ0IDQWdJQ0E4VW1WbVpYSmxibU5sU1hSbGJUNetJQ0FnSUNBZ0IDQWdJQ0Fn  
 SUNBZ0IEeExaWGsrVvHwGRXVIVhVzFsCmlzVjBWVkpNUEM5TFpYaytDaUFnSUNBZ0IDQWdJQ0Fn  
 SUNBZ0IDQThWbUZZfDVK1ZtRnNkV1V5UEM5V1IXeDFaVDRLSUNBZ0IDQWcKSUNBZ0IDQWdQQzIT  
 WldabGntVnVZMIZKEdWdFBnb2dJQ0FnSUNBZ0IDQWdJQ0E4VW1WbVpYSmxibU5sU1hSbGJUNetJ  
 Q0FnSUNBZwpJQ0FnSUNBZ0IDQWdJRHHMWlhrK1MyVjVNend2UzJWNVBnb2dJQ0FnSUNBZ0IDQWdJ  
 Q0FnSUNBZ1BGWmhiSFZsUGxaaGJIVmxNend2CiZtRnNkV1UrQ2IBZ0IDQWdJQ0FnSUNBZ0IEd3ZV  
 bVZtWihKbGJtTmxTWFJsYIQ0S0IDQWdJQ0FnSUNBOEwxSmxabVZ5Wlc1alpVUmgKZEEdFK0NpQWdJ  
 Q0FnSUNBZ1BGUnBiV1Z6ZEdGdGNENetJQ0FnSUNBZ0IDQThMMVJwYldWemRHRnRjRDRLSUNBZ0IE  
 d3ZWEpoYm5OaApZM1JwYjI0K0NpQWdJQ0E4U1dSbGJuUnBkSGsrQ2IBZ0IDQWdJQ0FnUEVOaGJH  
 eGxajRLSUNBZ0IDQWdJQ0FnSUNBZ1BFTmhiR3hsCmNsUjVjR1UrTUR3dIEyRnNiR1Z5Vkhds1pU  
 NEtJQ0FnSUNBZ0IDQWdJQ0FnUEZSb2FYsmtVR0Z5ZEhsSIJENVVhR2x5WkZCaGNuUjUKU1VRd1BD  
 OVVhR2x5WkZCaGNuUjVTVVERQ2IBZ0IDQWdJQ0FnSUNBZ0IEeFFZWE56ZDI5eVpENVFZWE56ZDI5  
 eVpEQThMMUJoYzNOMwpiM0prUGdvZ0IDQWdJQ0FnSUNBZ0IDQThRMmhsWTJ0VGRXMCtRMmhsWTJ0  
 VGRXMHdQQzIEYUdWamExTjFiVDRLSUNBZ0IDQWdJQ0FnCkIDQWdQRKpsYzNWc2RGVINURDVTWihO

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```

MWJIUIZVa3d3UEM5U1pYTjFiSFJWWVt3K0NpQWdJQ0FnSUNBZ1BDOURZV3hzWlhJK0NpQWcKSUNB
Z0IDQWdQRWx1YVhScFIYUnZjajRLSUNBZ0IDQWdJQ0FnSUNBZ1BFbGtaVzUwYVdacFpYSIVIWEJs
UGpFOEwwbGtaVzUwYVdacApaWEpVZVhCbFBnb2dJQ0FnSUNBZ0IDQWdJQ0E4U1dSbGJuUnBabWxs
Y2o1SlpHVnVkr2xtYVdWeU1Ed3ZTV1JsYm5ScFptbGxjajRLCKIDQWdJQ0FnSUNBZ0IDQWdQRk5s
WTNWeWFYUjVRM0psWkdWdWRHbGhIRDVUWldOMWNtbDBIVU55WldSbGJuUnBZV3d3UEM5VFpXTjEK
Y21sMGVVTnlaV1JsYm5ScFIdytDaUFnSUNBZ0IDQWdJQ0FnSUR4VGFHOXIkRU52WkdVK0NpQWdJ
Q0FnSUNBZ0IDQWdJRhd2VTJodgpjblJEYjJSbFBnb2dJQ0FnSUNBZ0IEd3ZTVzVwZEsaGRHOXIQ
Z29nSUNBZ0IDQWdJRHRy21sdFIYSjBIVkJoY25SNVBnb2dJQ0FnCkIDQWdJQ0FnSUNBOFNXUmxI
blJwWm1sbGNsUjVjR1UrtVR3dINXUmxibJwWm1sbGNsUjVjR1UrtQ2IBZ0IDQWdJQ0FnSUNBZ0IE
eEoKWkdWdWRHbG1hV1Z5UGtsa1pXNTBhV1pwWlhJeFBDOPaR1Z1ZEsbWFXVniQZ29nSUNBZ0ID
QWdJQ0FnSUNBOFUyaHZjblJEYjJSbApQbE5vYjNKMFEyOWtaVEE4TDFOb2lzSjBRMjlrWlQ0S0ID
QWdJQ0FnSUNBOEwxQnlhVzFoY25SNVHRnIkSGsrQ2IBZ0IDQWdJQ0FnCIBGSmxZMIZwZG1WeVVH
RnIkSGsrQ2IBZ0IDQWdJQ0FnSUNBZ0IEeEpaR1Z1ZEsbWFXVniWVGx3WlQ0eFBDOPaR1Z1ZEsb
bWFXVnkKvKhsd1pUNetJQ0FnSUNBZ0IDQWdJQ0FnUEVsa1pXNTBhV1pwWlhJK1NXUmxibJwWm1s
bGNqStHMMGxwR1c1MGFXWnBaWEkrQ2IBZwpJQ0FnSUNBZ0IDQWdJRHRhUYUc5eWRFtTnZaR1UrtVtJo
dmNuUkRiMjJTVR3dlUyaHZjblJEYjJSbFBnb2dJQ0FnSUNBZ0IEd3ZVbVZqClpXbDJaWEpRWVhK
MGVUNetJQ0FnSUNBZ0IDQThRV05qWlhOeIJHVjJhV05sUGdvZ0IDQWdJQ0FnSUNBZ0IDQThTV1Js
Ym5ScFptbGwKY2xSNWNHVStNVhd2U1dSbGJuUnBabWxsY2xSNWNHVStDaUFnSUNBZ0IDQWdJQ0Fn
SUR4SlpHVnVkr2xtYVdWeVBrbGtaVzUwYVdacApaWEI6UEM5SlpHVnVkr2xtYVdWeVBnb2dJQ0Fn
SUNBZ0IEd3ZRV05qWlhOeIJHVjJhV05sUGdvZ0IDQWdQZlKWkdWdWRHbDBIVDRlCKiDQWdJRHRhM
WlHsUGQyNWxajR3UEM5TFpYbFBkMjVsY2o0S1BDOXIaWEYxWlhOMFBsMWRQand2Y21WeE9sSmxj
WFZsYzNSTmMyYysKQ2IBZ0IEd3ZjMjloY0dWdWRqcENiMII1UGdvOEwzTnZZWEJsYm5ZNIJXNTJa
V3h2Y0dVK0NnPT08L2xvYzpvcmInaW5SZXFldXN0PgogICAgICA8L2xvYzpub3RpZnIRdWV1ZVRp
bWVvdXQ+CiAgIDwvc29hcGVudjpbC2R5Pgo8L3NvYXBibnY6RW52ZWxvcGU+Cgo=</loc:queueTimeOut>

</loc:queueTimeOutList>

</loc:queryTransactionResponse>

</soapenv:Body>

</soapenv:Envelope>

```

## Example2: Error response

```

<soapenv:Envelope
xmlns:loc="http://www.csapi.org/schema/transaction/data/v1_0/local"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"

```



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```

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>

```