



**Vodacom**

# Information Comms to CIM API Documentation

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# 1. Introduction

This document describes the Web service interface provided by Engineering Fusion to the third party systems.

## 2. Interface

The protocol used to communicate between the Fusion and the third party systems is based on SOAP (Simple Object Access Protocol) over HTTP. The web service endpoint is provided in Appendix sections.

### 2.1. Authentication and Authorization

#### *Authentication*

The consumer of the Web service needs to be registered and be provided with the username and password. The consumer or thirty party application will be required to send the **HTTP Basic** authentication header when calling the Web Service. These credentials are to be provided by Vodacom on request.

#### *Invalid Credentials*

Authenticating with invalid credentials will result in HTTP error code **401 Unauthorized**:

#### *Authorization*

In addition to the service consumer being authenticated, the user need to be authorized to call a specific service or operation. A error response will be return if the authenticated user is not allowed to invoke the operation.

### 2.2. Request Parameters Definition

Parameter Name	Mandatory / Optional	Format	Parameter Value Description
msisdn	Conditional	String	This is mandatory if subscriberId is not provided.  Subscriber's MSISDN e.g. 0829805010 (10 digit MSISDN) or 27821234567 (11 digit MSISDN) or 279612312345678 (15 Digit MSISDN)  Note: The 15 Digit MSISDN format is used for the 14 Digit length  MSISDN, may be extended to all MSISDN's
topicCode	Conditional	String	Topic Code e.g. 'Just For You' – This is a freetext field currently  CSS subscribers should use interactionType and not topicCode. Mandatory if no interactionType.
comment	Conditional	String	Mandatory if no message.  Detail of the Scratchpad e.g. "Customer phoned in to complain about the bill – he was out of the country when calls were made." This field is the concatenation of Comment Lines 1, 2 and 3.  CSS subscribers should use message and not comment.

interactionDate	Mandatory	String	The date and time the interaction request was logged. The format is 'YYYY-MM-DD HH24:MI:SS'
interactionType	Conditional	String	The interaction type. Mandatory if no topicCode. Refer to table Interaction Types in 7.3  Recommended to use for CSS subscribers.
interactionId	Optional	String	An ID identifying related SMS's. It will be used to update the delivery receipt column when receiving confirmations. This is currently limited to SMS interactions
subscriberId	Conditional	String	Mandatory if msisdn is not provided. For CSS CIM interactions, Asset Integration ID shall be sent and ICAP ID shall be sent for ICAP subscribers.
srId	Optional	String	The SR ID
originId	Optional	String	The origin ID of the external client. Example 'FX', 'US', 'BH'
destinationType	Optional	String	Defaults to 'SMS' if not provided. Please see values in 7.2.
subject	Optional	String	The subject of the email message.
message	Conditional	String	Mandatory if no comment. The interaction message. E.g. "the SMS sent to the subscriber", "MSISDN forwarding denied by subscriber", etc.  Recommended to use for CSS subscribers.
origination	Optional	String	The origin of the interaction. E.g. Flex, SMSCentre, ICAP, USSD.
destination	Optional	String	MSISDN or email of the subscriber of the interaction.
altnum	Optional	String	Alternate MSISDN
response	Optional	String	The response (if any) to a SMS.
direction	Optional	String	Defaults to 'Outbound' if not provided.
waspId	Optional	String	The WASP identifier for which the service applies. This parameter is required if the interaction type is listed in the 'Double Opt-In' or 'MSISDN Forwarding' interaction table in 7.3
waspName	Optional	String	The WASP Name
serviceId	Optional	String	The WASP service identifier. This parameter is required if the interaction type is listed in the 'Double Opt-In' interaction table in 7.3

serviceName	Optional	String	The WASP service name in full
sentYN	Optional	String	Interaction sent confirmation
sentDate	Optional	String	Format e.g. 2020-06-29 17:40:32.
deliveredYN	Optional	String	Interaction delivery receipt confirmation.
deliveredDate	Optional	String	Format e.g. 2020-06-29 17:40:32.
frequency	Optional	String	The frequency of the WASP Service – Daily, Weekly, Monthly
price	Optional	String	The Price of the WASP service in Cents (.e.g. 599)
hashValue	Optional	String	The Hash Value for the WASP Service
reference	Optional	String	The WASP reference for the service
triggerUrl	Optional	String	The requested / trigger URL. This parameter is required if the interaction type is listed in the ‘MSISDN Forwarding’ interaction table in 7.3
destinationUrl	Optional	String	The destination URL. This parameter is required if the interaction type is listed in the ‘MSISDN Forwarding’ interaction table in 7.3.
sourceIpAddress	Optional	String	The source IP address. This parameter is optional.
consentStartDate	Optional	String	The start date of the consent. This parameter is required if the interaction type is Fwd 30 Days Accept. E.g. “2011-03-09 07:56:00”
consentEndDate	Optional	String	The end date of the consent. This parameter is required if the interaction type is Fwd 30 Days Accept. E.g. “2011-03-09 07:56:00”
channelId	Optional	String	The Channel ID is an indicator of the channel which is making the request, e.g. USS-001. Refer to Table 418 for possible values. The Channel ID will be supplied as a 7-digit alphanumeric code.
revenueOriginId	Optional	String	The Revenue Orig ID is a campaign specific numeric identifier e.g 1000006 for Double your Data. Refer to Table 419 for possible values. The Revenue Orig ID will be supplied as a 7-digit numeric code.
failureReason	Optional	String	Failure Reason as supplied by Notifications manager

## 2.3 Sample Request

### 2.3.1 DOI Accepted

#### Accepted Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:int="http://localhost/ci/interface">
  <soapenv:Header/>
  <soapenv:Body>
    <int:InteractionRequest>
      <interactionType>DOI/Double OPT In Accepted</interactionType>
      <interactionDate>2020-07-26 13:10:00</interactionDate>
      <direction>Inbound</direction>
      <waspId>Basebone</waspId>
      <waspName>Basebone</waspName>
      <serviceId>Stylix</serviceId>
      <serviceName>Stylix</serviceName>
      <frequency>Once off</frequency>
      <price>8059</price>
      <sentDate>2020-07-26 13:08:00</sentDate>
      <msisdn>0825524266</msisdn>
      <message>Customer accepted Double OPT In request for Stylix</message>
      <origination>USSD</origination>
      <originId>E0</originId>
    </int:InteractionRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

### 2.3.2 DOI Rejected

#### Reject Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:int="http://localhost/ci/interface">
  <soapenv:Header/>
  <soapenv:Body>
    <int:InteractionRequest>
      <interactionType>DOI/Double OPT In Rejected</interactionType>
      <interactionDate>2020-07-26 13:15:00</interactionDate>
      <direction>Inbound</direction>
      <waspId>worldplay</waspId>
      <waspName>worldplay</waspName>
      <serviceId>Zonechoc</serviceId>
      <serviceName>BeFit</serviceName>
      <sentDate>2020-07-26 13:14:30</sentDate>
      <msisdn>0825524266</msisdn>
      <message>Customer rejected Double OPT In request for Yoga4Health</message>
      <origination>USSD</origination>
      <originId>E0</originId>
    </int:InteractionRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

### 2.3.3 DOI IN

#### Double OPT In Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:int="http://localhost/ci/interface">
  <soapenv:Header/>
  <soapenv:Body>
    <int:InteractionRequest>
      <interactionType>DOI/Double OPT In</interactionType>
      <interactionDate>2020-08-26 13:10:00</interactionDate>
      <direction>Outbound</direction>
      <waspid>Basebone</waspid>
      <waspname>Basebone</waspname>
      <serviceId>Mydownload</serviceId>
      <frequency>Once off</frequency>
      <price>8059</price>
      <serviceName>Backgrounds for WhatsApp</serviceName>
      <sentDate>2020-08-26 13:08:00</sentDate>
      <msisdn>0825524266</msisdn>
      <message>You're about to subscribe to OnGames FREE for 1 day thereafter R10.00 per day. Reply 1 to accept or 2 to decline.test1</message>
      <origination>USSD</origination>
      <originId>E0</originId>
    </int:InteractionRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

### 2.3.4 SMS Notification

#### SMS Notification Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:int="http://localhost/ci/interface">
  <soapenv:Header/>
  <soapenv:Body>
    <int:InteractionRequest>
      <interactionType>SMSNOTIFICATION</interactionType>
      <interactionDate>2020-09-01 13:10:00</interactionDate>
      <msisdn>0825524266</msisdn>
      <message>SMS text here</message>
      <origination>USSD</origination>
      <originId>E0</originId>
    </int:InteractionRequest>
  </soapenv:Body>
</soapenv:Envelope>
```



### 2.3.5 Stop

#### Stop Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:int="http://localhost/ci/interface">
  <soapenv:Header/>
  <soapenv:Body>
    <int:InteractionRequest>
      <interactionType>Stop</interactionType>
      <interactionDate>2020-07-26 13:10:00</interactionDate>
      <direction>Inbound</direction>
      <waspId>Basebone</waspId>
      <waspName>Basebone</waspName>
      <serviceId>Stylix</serviceId>
      <serviceName>Stylix</serviceName>
      <frequency>Once off</frequency>
      <price>89</price>
      <sentDate>2020-07-26 13:08:00</sentDate>
      <msisdn>0825524266</msisdn>
      <message>Welcome Notification e.g. congratulation on your ...</message>
      <origination>USSD</origination>
      <originId>E0</originId>
    </int:InteractionRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

### 2.3.6 Welcome Notification

#### Welcome Notification Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:int="http://localhost/ci/interface">
  <soapenv:Header/>
  <soapenv:Body>
    <int:InteractionRequest>
      <interactionType>Welcome Notification</interactionType>
      <interactionDate>2020-07-26 13:10:00</interactionDate>
      <direction>Inbound</direction>
      <waspId>Basebone</waspId>
      <waspName>Basebone</waspName>
      <serviceId>Stylix</serviceId>
      <serviceName>Stylix</serviceName>
      <frequency>Once off</frequency>
      <price>8059</price>
      <sentDate>2020-07-26 13:08:00</sentDate>
      <msisdn>0825524266</msisdn>
      <message>Customer accepted Double OPT In request for Stylix</message>
      <origination>USSD</origination>
      <originId>E0</originId>
    </int:InteractionRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

## 2.4 Sample Response

### 2.4.1 Successful Response

No attributes are returned on a successful response.

#### Successful Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soap-env:Header xmlns:soap-env="http://schemas.xmlsoap.org/soap/envelope/" />
  <env:Body xmlns:S="http://schemas.xmlsoap.org/soap/envelope/" xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
    <ns2:InteractionResponse xmlns:ns2="http://localhost/ci/interface"/>
  </env:Body>
</soapenv:Envelope>
```

### 2.3.1 Failure Response

Parameter Name	Format	Parameter Value description
group	String	'APPLICATION_ERROR'
code	String	Failure code
message	String	The reason for the failure

Below failure response sample:

#### Failure Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soap-env:Header xmlns:soap-env="http://schemas.xmlsoap.org/soap/envelope/" />
  <env:Body xmlns:S="http://schemas.xmlsoap.org/soap/envelope/" xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
    <S:Fault xmlns:ns4="http://www.w3.org/2003/05/soap-envelope">
      <faultcode>S:Server</faultcode>
      <faultstring>[cii1@BETEIS05]:Invalid MSISDN provided.</faultstring>
      <detail>
        <ns2:InterfaceError xmlns:ns2="http://localhost/ci/interface">
          <group>APPLICATION_ERROR</group>
          <code>1</code>
          <message>[cii1@BETEIS05]:Invalid MSISDN provided.</message>
        </ns2:InterfaceError>
      </detail>
    </S:Fault>
  </env:Body>
</soapenv:Envelope>
```

### 3. Appendix

Endpoint: <https://fusion-test.vodacom.co.za:11443/ci/interface>

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