

# SMS Subscription Services

## REST Connection API

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v2.0



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## REST API description

Actel Operator REST API is designed for 3rd parties, mostly mobile network operators, to allow new user registrations, add / remove / renew subscriptions.

Actel Operator REST API usage is restricted to authorized 3rd parties. All requests need to be signed using *ApiKey* and *ApiSecret*. Keys are obtained from Actel. Never expose your *ApiSecret* to anyone. Do not write your *ApiSecret* to any log file or include it in your requests.

Please see section *Signatures* to learn how to use *ApiSecret* to generate a *Signature* for every API request.

## REST API usage

### Requests

REST was initially described in the context of [HTTP](#), but it is not limited to that protocol. REST architectures may be based on other [Application Layer](#) protocols if they already provide a rich and uniform vocabulary for applications based on the transfer of meaningful representational state. REST applications maximize the use of the existing, well-defined interface and other built-in capabilities provided by the chosen network protocol, and minimize the addition of new application-specific features on top of it.

All requests to Actel Operator REST API are made as **HTTP REST** requests including mandatory *Common request parameters* in addition to each *API Method specific parameters*. API support one response formats, xml with header value "application/xml".

Request method: **HTTP GET, PUT or DELETE (depending on availability for used method and wanted behavior)**

Production API endpoint: <http://clients.actelme.com/MainSMS/REST/subscription.aspx?method>

### Common request parameters

Common request parameters are described in following table. If any of the required parameters are missing the request will fail. Required common request parameters must be included in every request.

Parameter	Description	Required
ApiSecret	The ApiSecret provided by Actel, identifies the requesting party. Type: String	Yes
Signature	A signature calculated using the request parameters, <i>ApiSecret</i> and <b>MD5</b> encryption algorithm. More info on section <i>Signatures</i> . Type: String	Yes
RequestId	The unique ID posted with each transaction. Type: String	Yes
ApiKey	The ApiKey provided by Actel, identifies the requesting channel. Type: String	No

## Responses

REST API responses HTTP status code and a body with *Common response values* in addition to *API Method call specific response values*. Response body is formatted as requested within *Accept* HTTP header or “*format*” request parameter (this will override *Accept* HTTP header). If the request does not indicate desired formatting the response will be formatted as xml. Please see *Appendix B* for example responses with different formatting.

### Common response values

Common response values are described in following table. *Status* is included in every response.

Key	Value
Service	The REST API operation Service ApiKey Type: String
Status	The REST API operation status Type: String Possible values: OK, Invalid

## Signatures

Every *Request* needs to be signed with a signature. Signing process is fairly easy and straight forward.

- Add value of your *ApiSecret* to the string
- Add value of your *ApiKey* to the string
- Add value of your *RequestId* to the string
- Concatenate key-value array to a string by adding "@" between values
- Calculate **MD5** signature from the string

Example string used for signature calculation:

YourApiSecret@

YourApiKey@

YourRequestId

## REST API Methods

### Subscription

Use Subscription method to check, add, modify or remove a subscription for a user. User is here identified by MSISDN. Only one active subscription per MSISDN is possible.

Production API endpoint: <http://clients.actelme.com/MainSMS/REST/subscription.aspx?method>

#### Available REST calls for subscription method

GET used for checking current subscription status  
 PUT used to add new subscription for a user (subscribe)  
 DELETE used for removing subscription (cancel)

#### Available Method request parameter with same values:

GET used for checking current subscription status  
 PUT used to add new subscription for a user (subscribe)  
 DELETE used for removing subscription (cancel)

#### Call specific request parameters for subscription method

#### GET - used for checking current subscription status

GET request specific request parameters are described in following table.

Parameter	Description	Required
MSISDN	MSISDN of the user Type: String	NO
ACTIVE	Status of the requested user (Active, Inactive) Type: Boolean	Yes
OPERATORID	Request group info based on operatorid value Type: Integer	NO
APIKEY	The ApiKey provided by ACTel, identifies the requesting channel. Type: String	YES



**PUT - used to add new subscription for a user (subscribe)**

PUT request is set to behave just like POST request when existing record is found. PUT request specific request parameters are described in following table.

Parameter	Description	Required
MSISDN	MSISDN of the user Type: String	YES
OPERATORID	Request group info based on operatorid value Type: Integer	YES
APIKEY	The ApiKey provided by Actel, identifies the requesting channel. Type: String	YES

**DELETE - used for removing subscription (cancel)**

DELETE request specific request parameters are described in following table.

Parameter	Description	Required
MSISDN	MSISDN of the user Type: String	YES
OPERATORID	Request group info based on operatorid value Type: Integer	YES
APIKEY	The ApiKey provided by Actel, identifies the requesting channel. Type: String	YES

There are no DELETE request specific response values. When Common response value for key *Status* is *Success* the subscription is successfully removed from Actel databases. If response value for key *Status* is *Error*, check response values for keys *ErrorCode* and *ErrorDescription* for details.

## Appendix A - REST API error

Error Code	Error Description
E0	Global Error
E1	Invalid APISECRET
E2	Invalid SIGNATURE
E3	Invalid REQUESTID
E4	Invalid APISECRET , APIKEY OR OPERATORID
E5	Invalid MSISDN
E6	Invalid APIKEY (In case of DELETE and PUT)
E7	Invalid OPERATORID (In case of DELETE and PUT)
E8	Invalid ACTIVE
E9	Invalid Request, DUPLICATES
U0	Non Existing ,USER
M0	Invalid METHOD

## Appendix B – Example requests and responses

### Example Request for subscription GET method

#### Single mobile Search:

**Request URL:** <http://clients.actelme.com/MainSMS/REST/subscription.aspx>

**Request Method:** GET

#### *Request Headers*

**Accept:** application/xml

**Accept-Charset:** utf-8

**Content-Type:** application/x-www-form-urlencoded

#### *Request Body* (line changes are for the documentation only)

ApiKey=YourApiKey&

ApiSecret=ApiSecret&

Signature=e3448519b2909ccd92d1182bce7365412c490afa0fbfe5e33aaf1b21b2b353e0&

MSISDN=12345678910&

RequestId=XYZ-123-XYZ-123

### Example Responses for subscription GET request

```
<xml METHOD="GET">
  <Service APIKEY=" YourApiKey " Total="1">
    <User>
      <sender>123456789</sender>
      <operatorid>83</operatorid>
      <country>KSA</country>
      <operator>Zain</operator>
      <shortcode>700000</shortcode>
      <mtshortcode>702001</mtshortcode>
      <languageid>0</languageid>
      <insertiondate>3/5/2013 10:29:20 AM</insertiondate>
      <expirydate>3/12/2013 10:29:20 AM</expirydate>
      <lastupdate>3/5/2013 10:29:23 AM</lastupdate>
      <active>True</active>
      <servicename>Service 1</servicename>
    </User>
  </Service>
</xml>
```

**Example Responses for subscription GET bulk request**

<http://clients.actelme.com/MainSMS/REST/subscription.aspx?>

ApiKey=YourApiKey&  
ApiSecret=ApiSecret&  
Signature=e3448519b2909ccd92d1182bce7365412c490afa0fbfe5e33aaf1b21b2b353e0&  
MSISDN=12345678910&  
RequestId=XYZ-123-XYZ-123&  
Active=1&  
OperatorId=83

**Request Method:** GET

```
<xml METHOD="GET">
  <Service APIKEY=" YourApiKey " Total="X">
    <User>
      <sender>123456789</sender>
      <operatorid>83</operatorid>
      <country>KSA</country>
      <operator>Zain</operator>
      <shortcode>700000</shortcode>
      <mtshortcode>702001</mtshortcode>
      <languageid>0</languageid>
      <insertiondate>3/5/2013 10:29:20 AM</insertiondate>
      <expirydate>3/12/2013 10:29:20 AM</expirydate>
      <lastupdate>3/5/2013 10:29:23 AM</lastupdate>
      <active>True</active>
      <servicename>Service 1</servicename>
    </User>
    <User>
      <sender>987654321</sender>
      <operatorid>83</operatorid>
      <country>KSA</country>
      <operator>Zain</operator>
      <shortcode>700000</shortcode>
      <mtshortcode>702001</mtshortcode>
      <languageid>0</languageid>
      <insertiondate>3/7/2013 10:29:20 AM</insertiondate>
      <expirydate>3/14/2013 10:29:20 AM</expirydate>
      <lastupdate>3/7/2013 10:29:23 AM</lastupdate>
      <active>True</active>
      <servicename>Service 1</servicename>
    </User>
    .
    .
  </Service>
</xml>
```

**Example Request for subscription POST and PUT method**

**Request URL:** <http://clients.actelme.com/MainSMS/REST/subscription.aspx>

**Request Method:** POST (or PUT)

***Request Headers***

**Accept:** application/xml

**Accept-Charset:** utf-8

**Content-Type:** application/x-www-form-urlencoded

***Request Body***

ApiKey=YourApiKey&

ApiSecret=ApiSecret&

Signature=e3448519b2909ccd92d1182bce7365412c490afa0fbfe5e33aaf1b21b2b353e0&

MSISDN=12345678910&

OperatorId=11&

RequestId=XYZ-123-XYZ-123

### Example Responses for subscription POST and PUT request

#### **Success Response Body when requested with Accept: application/xml**

```
<?xml version="1.0" encoding="utf-8"?>
<xml METHOD="PUT">
  <Service APIKEY=" YourApiKey ">
    <Status>OK</Status>
  </Service>
</xml>
```

#### **Error Response Headers**

**Content-Length:** 188

**Content-Type:** application/xml

#### **Error Response Body when requested with Accept: application/xml**

```
<?xml version="1.0" encoding="utf-8"?>
<xml METHOD="PUT">
  <Service APIKEY="">
    <Status>Error</Status>
    <ErrorCode>E9</ErrorCode>
    <ErrorDescription>Invalid Request, DUPLICATES</ErrorDescription>
  </Service>
</xml>
```

### Example Request for subscription DELETE method

**Request URL:** <http://clients.actelme.com/MainSMS/REST/subscription.aspx>

**Request Method:** DELETE

#### *Request Headers*

**Accept:** application/xml

**Accept-Charset:** utf-8

**Content-Type:** application/x-www-form-urlencoded

#### *Request Body*

ApiKey=YourApiKey&

ApiSecret=ApiSecret&

Signature=e3448519b2909ccd92d1182bce7365412c490afa0fbfe5e33aaf1b21b2b353e0&

MSISDN=12345678910&

OperatorId=11&

RequestId=XYZ-123-XYZ-123



### Example Responses for subscription DELETE request

#### ***Success Response Body when requested with Accept: application/xml***

```
<?xml version="1.0" encoding="utf-8"?>
<xml METHOD="DELETE">
  <Service APIKEY=" YourApiKey ">
    <Status>OK</Status>
  </Service>
</xml>
```

#### ***Error Response Headers***

**Content-Length:** 188

**Content-Type:** application/xml

#### ***Error Response Body when requested with Accept: application/xml***

```
<?xml version="1.0" encoding="utf-8"?>
<xml METHOD="DELETE">
  <Service APIKEY="">
    <Status>Error</Status>
    <ErrorCode>E9</ErrorCode>
    <ErrorDescription>Invalid Request, DUPLICATES</ErrorDescription>
  </Service>
</xml>
```