



Inbound SMS relay API

Introduction

All aql numbers support inbound SMS messaging. To provide the maximum flexibility to your business, we provide this API to allow you full control over how and where these SMS messages are delivered.

Access to the SMS relay API is via the following gateway URL: <https://gw.aql.com/sms/sms-relay.api.php>

The gateway accepts both HTTP GET and POST.

Modify the number

Request

If you wish to adjust the SMS delivery mechanism for a number, you need to provide the following parameters to the API.

Parameter	Type	Required	Length	Description
command	Alphanumeric	Yes		Value must be "modify"
username	Alphanumeric	Yes		aql username
password	Alphanumeric	Yes		aql password
number	Alphanumeric	Yes		The number you wish to modify
action-type	Alphanumeric	Yes		See "delivery methods" below
action-detail	Alphanumeric	Yes		See "required action detail" below
return-mode	Blank	No		See separate return-mode parameters document
return-format	Blank	No		See separate return-mode parameters document

Response

If the request was successful, the following will be returned (unless return-mode is set to 'url')

```
<status_code>: <description>
number: <number>
action-type: <action-type>
action-detail: <action-detail>
```

If the request failed for any reason, the following will be returned

```
<status_code>: <description>
```

Query number

Request

If you wish to query the current SMS delivery mechanism for a number, you need to provide the following parameters to the API:

Parameter	Type	Required	Length	Description
command	Alphanumeric	Yes		Value must be "query"
username	Alphanumeric	Yes		aql username
password	Alphanumeric	Yes		aql password
number	Numeric	Yes		Number you wish to query
return-mode	Blank	No		See separate return-mode parameters document
return-format	Blank	No		See separate return-mode parameters document

Response

If the request was successful, the following will be returned (unless return-mode is set to 'url')

```
<status_code>: <description>
number: <number>
action-type: <action-type>
action-detail: <action-detail>
```

If the request failed for any reason, the following will be returned

```
<status_code>: <description>
```

Delivery methods

The following are possible delivery methods that could be used for receiving SMS via the relay.

Action	Available via API?	Information
null-route	Yes	Messages are not delivered anywhere and only logged at aql.
email	Yes	Forward the message via email.
httpget	Yes	Forward the message via a HTTP GET request.
httppost	Yes	Forward the message via a HTTP POST request.
mvno	No	This indicates the number is currently being used in conjunction with our MVNO offering.

		<p>If the action type of a number is currently set to 'mvno', this means that the messages cannot be forwarded to any external destination. In addition, if you modify the action type from 'mvno' to some other method of delivery, this will mean that MT messages will no longer be delivered to the MVNO sim this number is associated with. They will, however, be delivered to the destination you set. It is important to note that you are NOT able to set the action type of any number to 'mvno'.</p> <p>aql cannot be held responsible for any non-delivery of MVNO messages caused this kind of modification.</p>
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Required action detail

null-route

The action-detail parameter is not required for the 'null-route' action-type. For all others it must be provided

httpget and httppost

In this case, action-detail must be a callback URL. If you wish to provide more than 1 callback URL, please separate them by commas. If multiple URLs are provided, successive URLs will only be called if the previous URL could not be contacted.

There are message specific variables which can be embedded within your URL(s). All possible values can be found in the inbound SMS to UK landline numbers API document.

e.g.

```
http://www.yourdomain.co.uk/callback.php?id=%i&orig=%o&msg=%m
http://www.domain-backup.co.uk/callback.php?id=%i&orig=%o&msg=%m
```

email

In this case the action-detail parameter must be a list of email addresses. Each email address will be sent a copy of the message.

Response codes

This table lists all the response codes that the gateway can return.

Status	Description
200	OK
400	Bad request
401	Authentication error

500	Internal system error
600	Invalid Command
69001	Number not valid
69003	action-type is invalid
69004	action-detail is invalid for the provided action-type

Return mode

To make the API more flexible, you can set the format of the response. For further information on setting the return-mode and return-format parameters, please see the separate return-mode documentation.

Examples

Note that while the example below only uses the HTTP GET method however you can also use HTTP POST.

To modify the SMS endpoint

Data	Value
command	modify
username	myusername
password	mypassword
number	44113000111
action-type	httpget
action-detail	http://www.yourdomain.co.uk/callback.php?id=%i&orig=%o&msg=%m

You would need to assemble the following:

```
https://gw.aql.com/sms/sms-relay.api.php?username=myusername&password=mypassword&command=modify&number=44113000111&action-type=httpget&action-detail=http%3A%2F%2Fwww.yourdomain.co.uk%2Fcallback.php%3Fid%3D%25i%26orig%3D%25o%26msg%3D%25m
```

If the request was successful, you would get a result similar to:

```
status: 200
number: 44113000111
action-type: httpget
action-detail:
http://www.yourdomain.co.uk/callback.php?id=%i&orig=%o&msg=%m
```

If the request was **not** successful, you would get a response similar to:

```
69001: number is invalid
```