



VoIP Provisioning API for Resellers: Documentation

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Version 1.2

Introduction to the Service

Being a reseller for aql.com is an unique opportunity. aql offers free non geographic 0871 numbers as well as ten of thousands of UK geographic numbers.

This document aims to explore the API used to provision numbers via aql.

Connection Details

<http://gw1.aql.com/telecoms/checknumberapi.php>

<http://gw1.aql.com/telecoms/assignnumberapi.php>

Process Overview

Our API is divided into 2 processes.

1. Querying of available numbers.

· This returns a list of available numbers for you to choose from. Once you have selected your desired number(s), you would use them in step 2

2. Assigning Number(s).

· This stage assigns the number(s) to your account and activates them. In response, you will receive the voip username and password for each of the numbers in the request.

All the communications between client and gateway are carried out using the HTTP POST method.



Gateway Details

Querying Available Numbers

This step requires the following HTTP POST parameters:

Variable	Description
username	Reseller's username
password	Reseller's password
country	Country code of the number, UK is 44
areaCode	Area code of the number without the leading 0 (zero), e.g. 113 for Leeds instead of 0113
subCode	The actual number - The subCode supports * as wildcard

When a request is posted to our gateway, the response will be of the following format:

```
<RESPONSE_CODE>  
<ADDITIONAL_INFO>
```

The possible values of <RESPONSE_CODE> are outlines in the following table:

Response	Description
AQVOIP_FORMAT_ERROR	One or more variables is not in the correct format e.g. if areaCode contains alphabet.
AQVOIP_AUTH_ERROR	Authentication error.
AQVOIP_NO_NUMBER	No number which matches the query is available.
AQVOIP_OK	Request is successful.

Example:

To search for 0871 numbers beginning with 312012 you would use the following variables:

```
country = 44,  
areaCode = 871 and  
subCode = 312012*
```

The gateway would then return the following (only the first 4 numbers are shown for clarity):

```
AQVOIP_OK  
44-871-3120120_44-871-3120121_44-871-3120122_44-871-3120123_ ...
```

Depending on the query, the second line of response might contain up to 100 different numbers.



Provisioning Numbers

This step requires the following HTTP POST parameters:

Variable	Description
username	Reseller's username
password	Reseller's password
phoneNumbers	A list of the phone number(s) of all the numbers to be activated separated by underscores
firstNames	A list of all the first name(s) of the reseller's customer separated by underscores
lastNames	A list containing all the last name(s) of the reseller's customer separated by underscores
emails	A list containing all the email address(es) of the reseller's customer separated by underscores

Example of how list variables should look like:

– PhoneNumbers list should be passed in the format of

44-871-3120120_44-871-3120121_44-871-3120122_44-871-3120123_ ...

– firstNames, lastNames and emails should be passed in the format of

Robert_James__John_...

Important:

It is important to note that the size (i.e. number of elements) of all of these lists have to be exactly the same. If that is not the case, the response AQVOIP_FORMAT_ERROR will be issued.

The values for the firstNames, lastNames and emails parameters may contain an empty string. If these fields are left blank, this may affect some aql VoIP functionality. An example would be sending a sound file containing a voice-mail message to a customer email address if he/she has a voicemail.

The response from our gateway will be of the following format:

```
<RESPONSE_CODE>
<REAL_NUMBER>_<VOIP_NUMBER>_<PASSWORD>
<REAL_NUMBER>_<VOIP_NUMBER>_<PASSWORD>
.
<REAL_NUMBER>_<VOIP_NUMBER>_<PASSWORD>
```



The possible values of <RESPONSE_CODE> are outlines in the following table:

Response	Description
AQVOIP_FORMAT_ERROR	One or more variables is not in the correct format
AQVOIP_AUTH_ERROR	Authentication error.
AQVOIP_SIMUL_ERROR	1. One or more number in the phoneNumbers variable is not available to be assigned. Please check using our check available number API. 2. Or other reseller/customer is trying to assign the same number for themselves. Restarting the process or choosing a different set of numbers would usually solve this problem.
AQVOIP_GEN_ERROR	General error that arises during number assignment. Please contact our support team on 08707449227 if the problem persists.
AQVOIP_OK	Request is successful.

Important:

The order of voipnumber and password will correspond to the order of phoneNumbers, firstNames, lastNames and emails sent to our gateway in step 2.

An example response from this gateway would be:

```
AQVOIP_OK
44-871-3120120_612345_98765
44-871-3120121_654321_45848
```

Important:

- For the provision number api, we maintain the policy of “assign all” or none. Which means to avoid any inconsistency or anomalies, if an error occurs in any part of the process then none of the number will be assigned even though the error might occur half way through the provisioning process.
- The monthly price for activating a geographic number will be charged to your account and you will be invoiced monthly.
- It is an advisable practice to check and recheck if numbers are still available using querying available number api (see above) before assigning them. This, however, is not compulsory.
- All lines in the API are terminated by \n and not \r\n.

Support

Please feel free to contact us if you have any other enquiry via our support system at <http://www.aql.com>. Our support team will normally respond your query within 20 minutes during normal office hours.