



**Location Based Services: Documentation**

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## Introduction to the Service

The Location Based Service (LBS) provided by aql.com is an easy to use method of determining the approximate position of a mobile handset.

## Connection Details

LBS requests are processed via our HTTP Post Interface:

[http://gw1.aql.com/lbs/gw\\_lbs.php](http://gw1.aql.com/lbs/gw_lbs.php)

or

[https://gw1.aql.com/lbs/gw\\_lbs.php](https://gw1.aql.com/lbs/gw_lbs.php)

Although we do offer the standard HTTP gateway, we do prefer that your application uses the HTTPS gateway as it prevents sensitive details being “sniffed” across the internet.

## Process Overview

The steps involved in locating a mobile handset are:

- 1) The mobile you wish to locate needs to send the word 'locate' to 64446. This only need to be done if:
  - The user has not texted locate to [64446](#) previously
  - The user has previously texted [STOP](#) to [64446](#).
  - The user has previously texted 'locate STOP' to [64446](#)

This is a required step as it gives you the permission to locate this particular mobile number.

- 2) You application performs a HTTP post to the location gateway and receives the coordinated as a response.

### **NB:**

- The mobile user is not charged for this service.
- The mobile user can stop location requests being made at anytime by texting either 'STOP' or 'locate STOP' to [64446](#)

## Gateway Details

The LBS gateway requires 3 variables:

| Variable Name | Description                             |
|---------------|---|
| username      | Your aql.com username                   |
| password      | Your aql.com password                   |
| msisdn        | The mobile number that is to be located |

The mobile number must be in international format without the leading + and any leading zeros. E.g 07766404142 would be 447766404142

A successful response from the gateway would be in the format:

```
0  
Latitude  
Longitude  
Radius
```

The initial 0 indicates success. Other codes indicate failure and full documentation for these codes can be found later.

An example of a successful location request is:

```
0  
1.1426542  
15.266533  
1000
```

## Failure

Any attempt to request the location of a mobile number that fails will produce an error in the following format:

```
Error code
Error description
```

**Error code** will be a numeric identifier indicating the type of failure and **Error description** will be a short string describing the error.

An example of a failed request is:

```
5
Authentication failed
```

The complete list of possible error values are:

| Error Code | Error Description  |
|------------|--|
| 0          | Success  |
| 1          | The mobile number was not provided   |
| 2          | The mobile number was invalid  |
| 3          | There was an internal Server Error*  |
| 4          | Insufficient credit to perform this request  |
| 5          | The username and/or password were incorrect  |
| 6          | The username and password have not been supplied   |
| 7          | The mobile has not opted into the service**  |
| 17         | The mobile number could not be located. Possible reasons for this are that the mobile is turned off or out of reception. |

\* If this persists, please raise a support query via your account at <http://www.aql.com>. Our technicians will normally respond within 20 minutes.

\*\* The mobile number needs to have opted in. Please see step 1) in the section titled **Process Overview** on page 2.