



## Network lookup API

### Introduction

Our network lookup API can provide you with a more detailed response for your network lookups, including an indication of how the information was discovered, by sending a request via HTTP POST to our gateway, allowing quick integration with your own services.

### Identify which network is providing services to a mobile handset

Two classes of network lookup service make it possible to identify the network operator for a given mobile number.

### Pricing

Service	Cost per query
OFCOM reservation reference	Free
Network reference	1 SMS credit

### OFCOM reservation reference service

[OFCOM](#) publish information about which mobile numbers were reserved for which provider. We provide a way for you to refer to this information programmatically for free.

Please note that where a number has been ported from one provider to another, the system will inform you of the original provider rather than the current one. This is the same regardless of the different methods used to access the data.

### How to identify the network provider for a given mobile number

Send a HTTP post request to either of the following gateways:

[http://gw.aql.com/nl/network\\_lookup.php](http://gw.aql.com/nl/network_lookup.php) (or https)

including these variables in your request (\* denotes a required field):

```
username *
password *
msisdn *   How should my number be formatted?
method: 1, 2 or 3 (bitmask)
  method=1 : for Ofcom only lookup (Free)
  method=2 : for network lookup (cost -1 premium(UK) or -1 premium(Global)
credit)
  method=3 : (1+2) for both Ofcom and Network Lookup
contact: 0 (zero) or 1 (one) (1 to include contact details, 0 for no
details)
```

## Possible return values

contact: Network provider contact details.  
country: Country  
msisdn: The mobile telephone number  
nl\_accuracy:  
    1: Live data  
    2: Cached within 24 hours  
    3: Cached information (up to 1 month old)  
    4: Prefix identification  
    9: Failed  
nl\_mvno: Name of Mobile Virtual Network Operator  
nl\_network: Network name (Network Lookup)  
nl\_network\_code: MCC+MNC code (if nl\_network undecipherable - Network Lookup)  
nl\_location: The current location that the SIM is registered  
ofcom\_area: Geographic number area code (Ofcom database)  
ofcom\_change\_date: Date when the data last changed (Ofcom database)  
ofcom\_network: Network name (Ofcom database)  
ofcom\_tariff\_note: Tariff note according to Ofcom (Ofcom database)  
ofcom\_use: Number usage according to Ofcom (Ofcom database)  
sms\_handler: The party that handles inbound SMS on the number

## Example successful lookup responses

0: Successful lookup

msisdn: 44777XXXXXXX  
country: United Kingdom  
ofcom\_network: Vodafone Ltd  
ofcom\_change\_date: 01-1998  
ofcom\_use: Mobile services  
nl\_network: Vodafone Ltd  
nl\_location: United Kingdom  
nl\_accuracy: 1

OR with contact

0: Successful lookup

msisdn: 44777XXXXXXX  
contact: 08700746464, Vodafone Head Office, The Courtyard, 2-4 London Road, Newbury, Berkshire, RG14 1JX  
country: United Kingdom  
ofcom\_network: Vodafone Ltd  
ofcom\_change\_date: 01-1998  
ofcom\_use: Mobile services  
nl\_network: Vodafone Ltd  
nl\_location: United Kingdom  
nl\_accuracy: 1

OR international number

0: Successful lookup  
 msisdn: 491511XXXXXXX  
 country: Germany  
 nl\_network: T-Mobile Deutschland GmbH  
 nl\_location: Federal Republic of Germany  
 nl\_accuracy: 1

OR UK landline

0: Successful lookup  
 msisdn: 44120XXXXXXX  
 contact: 08702257879, BT plc, 81 Newgate Street, London, EC1A 7AJ  
 country: United Kingdom  
 ofcom\_area: Colchester  
 ofcom\_network: BT  
 ofcom\_change\_date: 07-1994

## Error responses

Any failed queries will return an error response: "status # : description"

e.g.: 2: Authentication error

Status	Description
0: Successful lookup	Successful lookup
1: Insufficient route	Can appear when querying a foreign destination
2: Authentication error	Incorrect username or password
3: MSISDN number error	Incorrect MSISDN provided
4: Insufficient credit	Buy more credit
5: Internal system error	There was a problem with processing your request Please report this using our support system
9: Undefined error	Error without any specific description Please report this using our support system
10: Gateway unreachable	Desired network was not reachable
11: Result not parsable	Data was not returned in expected format
12: Data unavailable	HLR data unavailable for the MSISDN
13: Unknown subscriber	MSISDN is not known to the network
14: Absent subscriber	MSISDN is not currently registered to any network
15: Invalid request	Unexpected data was submitted to a network
16: System failure	Request rejected due to network or protocol failure
17: Lookup not supported	MSISDN does not support look ups
18: Request rejected	MSISDN is barred
19: Request aborted	Indicates temporary problem or lost reach
20: Timeout	No response was received from a network

## Network lookup



Following the link below will take you to our on-site Network Lookup service where you can identify the operator for a particular mobile or landline number, based on existing [OFCOM](#) information. [Network Lookup Service](#).