

HLRLookUP *Specification*

Version 1.0.2

HLR Lookup Request:

This API provides HTTP/HTTPS solution for HLR lookup.

Request:

<http://<ipaddress>:<port>/HLR/query?username=xxxx&password=xxxx&reference=xxx&msisdn=xxxxxxxxxxxxx>

<https://<ipaddress>:<port>/HLR/query?username=xxxx&password=xxxx&reference=xxxx&msisdn=xxxxxxxxxxxxx>

Sr. No	Parameter	Description
1.	username	Name of the user
2.	password	Password for the specified user
3.	reference	Reference value
4.	msisdn	Destination for lookup. It should be prefixed with country code.

Response:

In case of successful lookup, number lookup information will be given in response body in JSON format.

In case of success:

```
{
  "results":{
    "to":"XXXXXXXXXXXXXXXX",
    "msgid":"XXXXXXXXXXXXXXXX",
    "ported":"XXXXXX",
    "mccmnc":"XXXXXX",
    "imsi":"XXXXXXXXXXXX",
    "country":"XXXXXXXX",
    "operator":"XXXXXXXX",
    "errcode":"XXXXXXXX",
    "errdesc":"XXXXXX"
  }
}
```

In case of number lookup failure:

```
{
"results":{
  "to":"XXXXXXXXXXXX",
  "msgid":"XXXXXXXXXXXXXXXX",
  "ported":"XXXXX",
  "mccmnc":"XXXXX",
  "imsi":"XXXXXXXXXXXX",
  "country":"XXXXXXXX",
  "operator":"XXXXXXXX",
  "errcode":"XXXXXXXX",
  "errdesc":"XXXXX"
}
}
```

In case of lookup failure ‘errdesc’ node will contain the ERROR_CODE giving reason for failure. ERROR_CODE values could be one of the following:

- i. ERR 2401 : One of the parameter is missing
- ii. ERR 2402 : Authentication failed for given user credentials
- iii. ERR 2403 : Provided destination is invalid
- iv. ERR 2409 : Some error occurred

Response nodes description:

Sr.No.	Node Name	Description
1.	to	MSISDN for number lookup
2.	msgid	Unique 36 character value for request mapping purpose
3.	ported	Indicate whether number is ported or not
4.	imsi	International Mobile Subscriber Identity, used to uniquely identify the user of a mobile network.
5.	mccmnc	Mobile Country Code and Mobile Network Code
6.	country	Ported country name if number is ported else original country name
7.	operator	Ported operator name in case of number is ported else original operator name
8.	errcode	000 → DELIVRD 001 → UNDELIV Temporarily 002 → UNDELIV Permanent 003 → REJECTD Temporarily 004 → REJECTD Permanent
9.	errdesc	Refer table 1.1 for error description

Table 1.1:

Error Description	Error code	Permanent
Absent Subscriber	001	false
Call Barred	001	false
Data Missing	001	false
SMS Facility Not Supported	001	false
HLR Abort	001	false
No Response	001	false
Reject Request	001	false
No Error	000	false
MSISDN Not Found	001	false
Invalid MSISDN	001	false
Request Method Not Allowed	001	false
Request Throttled	001	false
Invalid URL	001	false
System Failure	001	false
SMS Tele Service Not Provisioned	002	true
Time Out	001	false
Unexpected Data Value	001	false
Unknown Subscriber	002	true
Service Failure	003	false
CUG Reject	001	false
SMS Facility Not Supported	001	false
System Failure	001	false
Data Missing	001	false
Unexpected Data Value	001	false
Service Unreachable	003	false
Authentication Error	001	false
Not allowed to use this profile	001	false
Not allowed to use this service	001	false
Unknown user	001	false
Invalid parameter	001	false
Unidentified Subscriber	001	false
Roaming not allowed	001	false
Illegal Subscriber	002	true
Subscriber Busy For Mt SMS	001	false
SM Delivery Failure	001	false
Message Waiting List Full	001	false
System Failure	001	false
Unexpected Data Value	001	false
Unknown Error	001	false
No Response	001	false

Service not Supported	001	false
Duplicated Invoke Id	001	false
Subsystem Congestion	001	false
Subsystem Failure	001	false
Network Congestion	001	false
IMSI blacklisted	002	true
DND blacklisted	002	true
Message canceled	002	true
Validity Expired	002	true
Time window violation	001	false
Message delivered to operator	001	false
Message sent, waiting for delivery report	001	false
Message rejected by operator	001	false
Message delivered to handset	001	false
Network is forbidden	001	false
Message submitted to operator	001	false
Number prefix missing	003	false
Message sent not delivered	001	false
Destination on DND list	001	false
Rejected by Destination	001	false
Message expired	001	false
Network not reachable	001	false
Destination not registered	001	false
Route not available	003	false
Rejected flooding	001	false
System error	001	false
Unknown Reason	001	false
Rejected duplicate message ID	001	false
Rejected message too long	001	false
Message accepted, pending for delivery	001	false
Message accepted, pending for approval	001	false
Rejected Not Sent	001	false
Expired DLR Unknown	001	false
MO message forwarded and delivered	001	false
Message not sent	003	false
ERR 2401	003	false
ERR 2402	003	false
ERR 2403	003	false
ERR 2409	003	false

ERR 1025	003	false
Internal Error	001	false
Temporary Failure Or Unsupported Network Operator	003	false