



HLRLookUP

Specification

User Manual Version
1.0.1

HLR Lookup Request:

This API provides HTTP solution for HLR lookup.

<http://1s2u.com/HLR/api/hlr.asp?key=xxxx&ref=xxxxx&msisdn=xxxxxxxxxxx>

Sr. No	Parameter	Description
1.	Key	Name of the user
2.	ref	Reference value
3.	msisdn	Destination for lookup. It should be prefixed with country code . More than one MSISDNs should be separated by ','
	Error Code	<p>'00' Invalid user key.</p> <p>'01' Invalid Reference Number (Should minimum 6 digit and each time you post the request must have unique number) and must be numeric only.</p> <p>'02' Invalid mobile number, for multi number you can use comma between the numbers maximum 500 numbers each time.</p> <p>'03' Insufficient Balance.</p>



Response:

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

In case of success:

```
{ "results ":[  
{  
  "to":"xxxxxxxxxxxx",  
  "orgnetworkprefix":"xxxxx",  
  "errdesc":"xxxx",  
  "servingmsc":"xxxxxx",  
  "orgcntprefix":"xxxxxxxxxxxx",  
  "mccmnc":"001",  
  "imsi":"xx",  
  "roaming":"xxxxx",  
  "statusdesc":"xxxxxxxxxxxxxxxx",  
  "roaming":"xxxxx",  
  "msgstatus":"xxxxxxxxxxxxxxxxxxxxx"  
}  
]}
```

In case of number lookup failure:

- ERR 2403 : Provided destination is invalid
- ERR 2409 : Some error occurred

In case of lookup failure no any HLR will be deducted from the account and nothing will inserted in the report.

Response nodes description:

Sr. No	Node Name	Description
1.	to	MSISDN for number lookup
2.	mccmnc	Mobile Country Code and Mobile Network Code
3.	imsi	International Mobile Subscriber Identity, used to uniquely identify the user of a mobile network.
4.	orgentprefix	Original country prefix
5.	orgnetworkprefix	Original network prefix
6.		
7.	msgstatus	Status of lookup. Will contain values as follows: <ul style="list-style-type: none"> i. ACCEPTED → Message is accepted. ii. PENDING → Message is in pending Status. iii. UNDELIVERABLE → Message is Undeliverable. iv. DELIVERED → Message is delivered. v. EXPIRED → Message is expired. vi. REJECTED → Message is rejected.
8.	roaming	MSISDN is in roaming or not
9.	statusdesc	Description of the status given above. Please refer Table 1.1.
15.	servingmsc	Serving mobile switching center.
16	errdesc	Please refer Table 1.2

Table 1.1:

Status	Description
DELIVERED_TO_OPERATOR	Message delivered to operator
PENDING_WAITING_DELIVERY	Message sent, waiting for delivery report
UNDELIVERABLE_REJECTED_OPERATOR	Message rejected by operator
DELIVERED_TO_HANDSET	Message delivered to handset
REJECTED_NETWORK	Network is forbidden
PENDING_ENROUTE	Message submitted to operator
REJECTED_PREFIX_MISSING	Number prefix missing
UNDELIVERABLE_NOT_DELIVERED	Message sent not delivered
REJECTED_DND	Destination on DND list
REJECTED_DESTINATION	Rejected by Destination
EXPIRED_EXPIRED	Message expired
REJECTED_NOT_REACHABLE	Network not reachable
REJECTED_DESTINATION_NOT_REGISTERED	Destination not registered
REJECTED_ROUTE_NOT_AVAILABLE	Route not available
REJECTED_SYSTEM_ERROR	System error
EXPIRED_UNKNOWN	Unknown Reason
PENDING_ACCEPTED	Message accepted, pending for delivery
PENDING_APPROVAL	Message accepted, pending for approval
REJECTED_NOT_SENT	Rejected Not Sent
UNDELIVERABLE_NOT_SENT	Message not sent

Table 1.2:

Error Description	Is Permanent
No Error	False
Unknown Subscriber	True
Unidentified Subscriber	False
Absent Subscriber	False
Roaming not allowed	False
Illegal Subscriber	True
Facility Not Supported	False
Absent Subscriber	False
SM Delivery Failure	False
Message Waiting List Full	False
System Failure	False
Data Missing	False
Unexpected Data Value	False
Resource Limitation	True
Unknown Alphabet	False
Ussd Busy	True
Unknown Error	False
SM DF Memory Capacity Exceeded	False
SM DF Equipment Protocol Error	False
SM DF Equipment Not SM Equipped	False
SM DF Unknown Service Centre	False
SM DF Sc Congestion	False
SM DF InvalidSME Address	False
SM DF Subscribernotsc Subscriber	false
Provider General Error	False
Invalid Response Received	False
No Response	False
Unexpected Response From Peer	False
Supported Service	False
Invalid Destination Reference	False
Internal Error	False