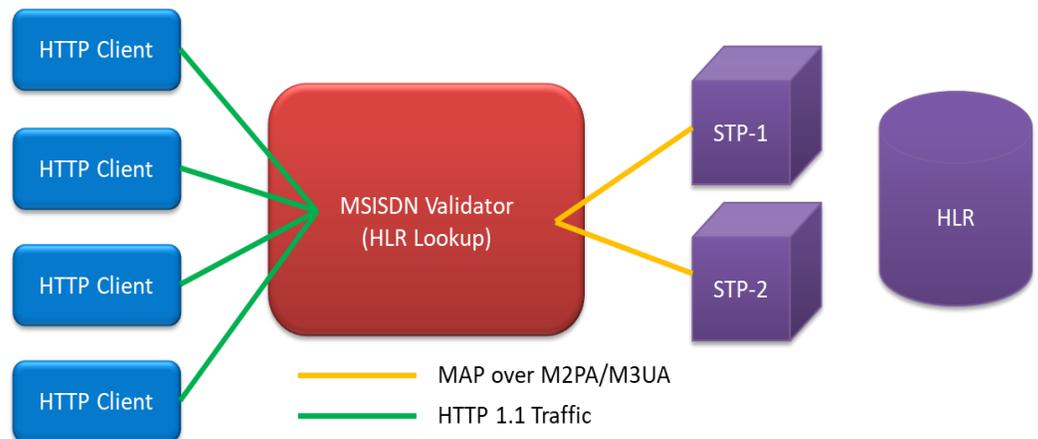


MSISDN Validation - HLR Lookup



MSISDN Validation

Run campaigns to validate MSISDN's and remove invalid MSISDN's to save revenue by avoiding SMS to invalid / disconnected MSISDN's

LOW CAPEX/OPEX

HLR Lookup solution installs and runs on a small to medium commercially available computers or servers. The solution can run over bare metal or virtualized servers. This ensures lower opex and capex investment and higher return on investment.

LINUX BASED

The solution runs over Linux operating systems in a multi-process mode for fair distribution of load across CPU cores.

- Validate an MSISDN to detect invalid MSISDN and clean-up campaign's to avoid fees incurred for sending SMS to invalid MSISDN
- Offer your customers the capability to validate the MSISDN's before they run bulk SMS campaign's.
- Integrate your web based solution through a simple HTTP interface to retrieve the status of the MSISDN
- Leverage the high performance SCTP transport for high speed signaling
- Receive important information in relation to MSISDN in addition to its status including it's IMSI and MSC or SGSN number associated with it's location.
- A versatile HTTP based API is used for HLR Lookup. Use of HTTP based interface enables ease of application integration.
- Supports connection from multiple HTTP Clients simultaneously to the HLR Lookup solution.
- Support for email notifications for SIGTRAN Link Status
- Dedicated process for handling SCTP traffic allows for very high throughput of SIGTRAN traffic.
- Available in two configurations, each for M2PA or M3UA based SIGTRAN transport
- Multi-Process architecture allows better distribution of load across a multi-processor server.
- JSON based API parameters and API Response enables applications to use standard JSON libraries

MULTI-PROCESS

Multi-Process Architecture enabling better utilization of CPU cores in a multi-core computer or server.

RELIABLE SOLUTION

Reliability of solution ensured at various levels by utilizing Linux services enabling automatic restart in a failure situation, utilizing SCTP multi-homing whenever possible.

MULTI-CONNECT

Supports connecting to many HTTP Clients at the same time and processing traffic from them in parallel.

HTTP API Interface

Provides a versatile HTTP API to perform the MSISDN validation / HLR Lookup operation

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Operational Benefits



The solution requires almost very low day to day operational maintenance. Once the system is configured and it is up and running, the system operator does not need to monitor it regularly. The system configuration is maintained through the configuration files.

The solution also comes with scripts to start or stop all the modules or processes of HLR Lookup software using a single command. There are Email alerts available in the solution that would help in troubleshooting in case a SIGTRAN link goes down. In case there is a failure of any process due to any unforeseen situation, they attempt to restart themselves using the inbuilt capabilities of Linux OS.

Capacity

HLR Lookup Solution provides a very high performance. It can be used before Bulk SMS campaigns to clean up the invalid MSISDN and avoid unnecessary fees incurred for sending SMS to invalid MSISDN.

In Lab environment, with a TPS of around 2000, on a system with Intel i5 10th Gen quad-core processor, the CPU utilization was stable and below 10%.

System Requirements

HLR Lookup Solution can easily run from a small sized computer to a server grade computer based on the traffic processing needs of an operator.

A bare metal server or a Virtual Machine with Linux OS can be used as to install and run the HLR Lookup solution.

SERVICES AVAILABLE

Technical Support

Installation and Setup

Maintenance

Application Customization

New Features Development

Technical Consultancy



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