

DAS

SOLUTIONS

CARRIER-GRADE SMS GATEWAY

DAS SOLUTIONS SERVICES.

We are a progressive software development company growing and helping businesses from a variety of leading industries. DAS Solutions is a team of individuals who revolve around technology, innovative ideas and software that works.



SOFTWARE DEVELOPMENT

Our mission is to be a trusted technology partner to our clients. Our skills are constantly evolving based on the needs — from open-source to licensed enterprise tools, we stay sharp.

We connect your Telecom ecosystem to streamline operations, leverage automation, and create solid, flexible yet reliable digital solutions. Ask us about our custom SMS solutions - we know lots.



SMS GATEWAY

We have developed an SMS Gateway, which is a powerful tool that is being used for marketing and communication purposes by well-known brands in a range of industries.



IT OUTSOURCING

Let us handle the extra development hours while your IT department can focus on delivering real strategic value back to your business.

SMS GATEWAY.

DAS Solutions **SMS Gateway (SMSG)** is the carrier-grade, in-house developed platform that gives Telecom Carriers and Service Providers the capability to offer their customers an entire range of messaging services.

The SMS Gateway performs intelligent algorithm routing management and comes with the origin and content-based routing capabilities

ADJUSTABLE

Easy to install in both hardware and virtualized environments.

FLEXIBLE

A cost-effective solution with a flexible licensing for different service modules.

USER-FRIENDLY

Fast and easy to use, friendly graphical user interface (GUI).

SAFE

High availability – fully redundant hardware & software solution.

SMS GATEWAY SERVICES.



P2P SMS

Our platform acts as SMSG for delivery of Person to Person SMS to MNO, MVNO and Wholesales Carriers.

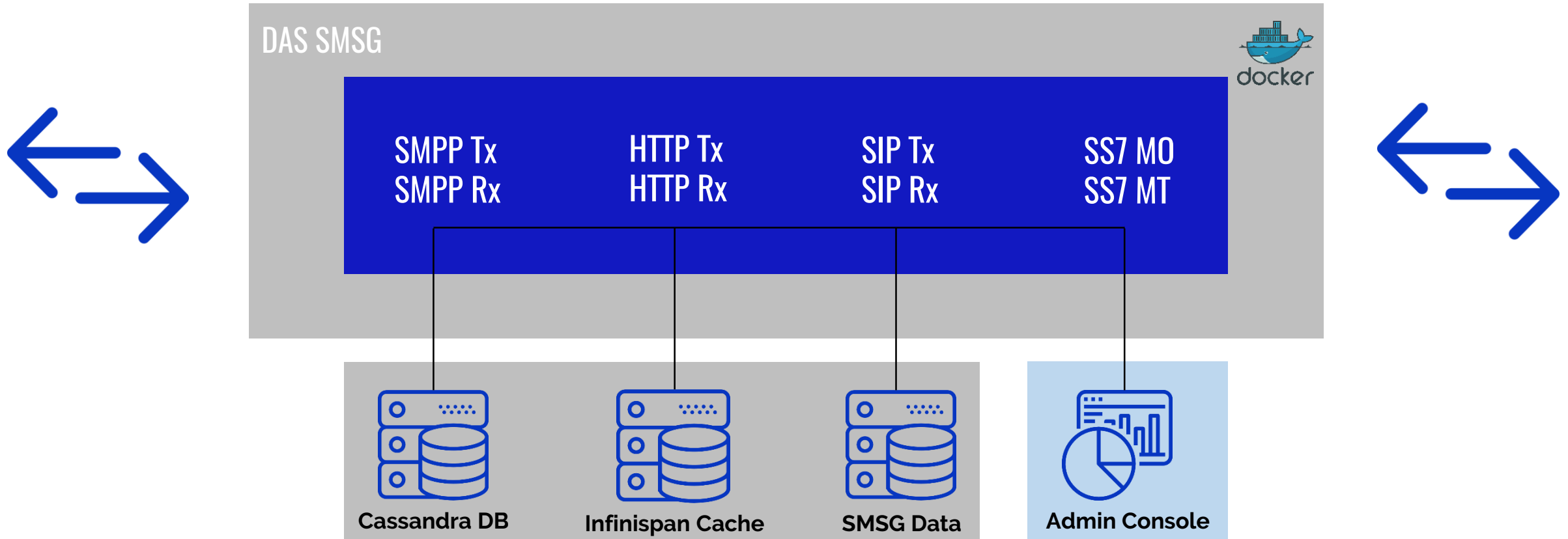
SECURE PLATFORM

Own developed SMS platform provides stability and reliability to meet today's challenges with the best in class software and support solutions.

A2P SMS

National and International A2P SMS delivery according to several connection scenarios. API capabilities.

SMS GATEWAY ARCHITECTURE.



SMSG architecture is based on MobicentsJAIN SLEE 1.1 Server using MobicentsjSS7 Stack. MobicentsJAIN SLEE Server is an application server with a robust component model and fault tolerant execution environment. Support dockerizing deploy.

SMS GATEWAY FEATURES.



- SMPP (3.3, 3.4)
- HTTP
- SIP
- SS7 Stack, SIGTRAN (M3UA) based on RFC 4666 and support ASP, SGW or IPSP mode

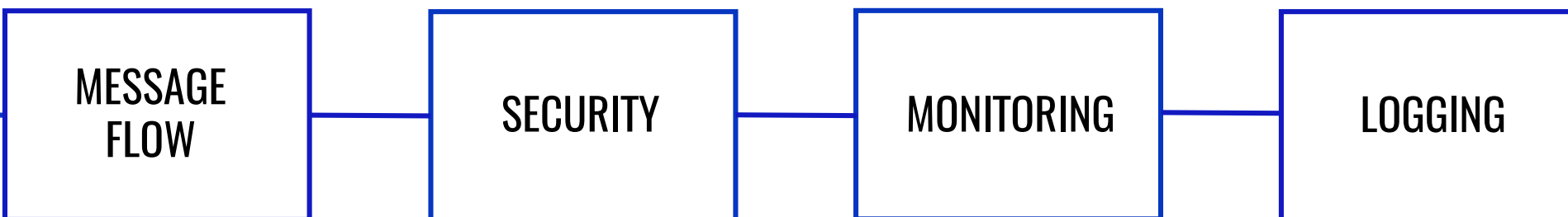
- Multi hardware platforms
- Multiple operating systems compatibility
- Command Line Interface (CLI)
- Available integration with JeraSoftbilling and other billing systems
- Possibility to use a third party solutions/tools for reporting & statistics

- High throughput (more than 1000 SMS/sec)
- Handles multiple simultaneous connections
- Dynamic connections
- Static connections
- Outbound fail-over and load balancing

- Routing algorithms - Active Standby, Load Sharing, Round Robin;
- Advanced routing - routing by Sender ID, Content, Error Code, Concatenate SMS
- Store and Forward functionality
- Support Mobile Number Portability

- Multiple SMS character sets (7-bit, 8-bit, Unicode/UCS2, UTF-8) support
- Transparent User Data Header (UDH) support
- Support long SMS

SMS GATEWAY FEATURES.



- Message throttling per connector and per user
- Customizable retry schemes
- Source Address Translation
- ESME, DCS, TON, NPI Translation
- Full support for handling delivery reports (DLR)
- CDR and DLR generation
- Cash server storage

- Authentication (username/password, HTTP basic authorization)
- Limit account access on IP addresses
- SSL support

- Alarm tool - monitor SMPP links established between SMSG and customers/suppliers
- Error management - mapping of error codes received and sent via different type of protocol

- Configurable log levels.
- Log file rotation based on date
- Logging by: SMPP, Maintenance, Service

SMSG GATEWAY GRAPHICAL USER INTERFACE (GUI).

The screenshot displays the SMSG-GUI interface. The top navigation bar includes a menu icon, the title 'SMSG-GUI', and utility icons for search, email, notifications, and a user profile labeled 'Admin'. A left sidebar contains navigation options: 'TEST_SMSG', 'DASHBOARD', and 'SMSG MANAGEMENT'. Under 'SMSG MANAGEMENT', there are sub-menus for 'SMSG Properties', 'Account Management' (with 'ESME Account' selected), 'HTTP Account', 'SS7 Account', 'SMPP Server Properties', 'SIPs', 'Routing Management', and 'Rates Management'. The main content area is titled 'Accounts Management' and shows a 'Customers' tab. It features a search bar with the value '20' and action buttons for 'PRODUCT -', 'VIEW', 'NEW', 'EDIT', and 'DELETE'. Below this is a table with the following data:

Name	System ID	Password	Host	Port	Smpp Bind Type	System Type	Esme Ton	Esme Npi	Default Coding	Product	Status	Action
client1	client1	client1	192.168.1.222	-1	TRANSCIEVER		-1	-1	0		BOUND	
client2	client2	client2	192.168.1.222	-1	TRANSCIEVER		-1	-1	0		CLOSED	
CustomerA	CustomerA	Customer_A	-1	-1	TRANSCIEVER	SMPP	-1	-1	0		CLOSED	
Customer_B	Customer_B	Customer_B	-1	-1	TRANSCIEVER	SMPP	-1	-1	0		CLOSED	
TEST	TEST	TEST	192.168.1.222	-1	TRANSCIEVER		-1	-1	0		CLOSED	
Orange_client	OR_client	23455	192.168.1.222	-1	TRANSCIEVER		-1	-1	0		CLOSED	

Fast and easy to use, friendly GUI is made out of blocks related to:

- **SMSG Management**
(SMSG Properties, Account Management, SMPP Server Properties, SIP Interconnections, Routing Management, Rates Management)
- **SS7 Stack**
(manages the SS7 functionalities of the SMS Gateway)
- **Governance**
(Server Management and Alarm Tool)

SMS GATEWAY MANAGEMENT.



The module provides the ability to set up parameters related to the SMS Gateway functioning.



The module where you can provision both Customers and Suppliers accounts, change the messaging parameters for each account, as well as assign/change a specific routing plan.



The module allows to manage the parameters related to the platform functionalities such as Bind Port, System ID, Bind timeout, Max connection size, etc.



The module allows to manage a SIP connection to a host such as a billing system: IP address, port.



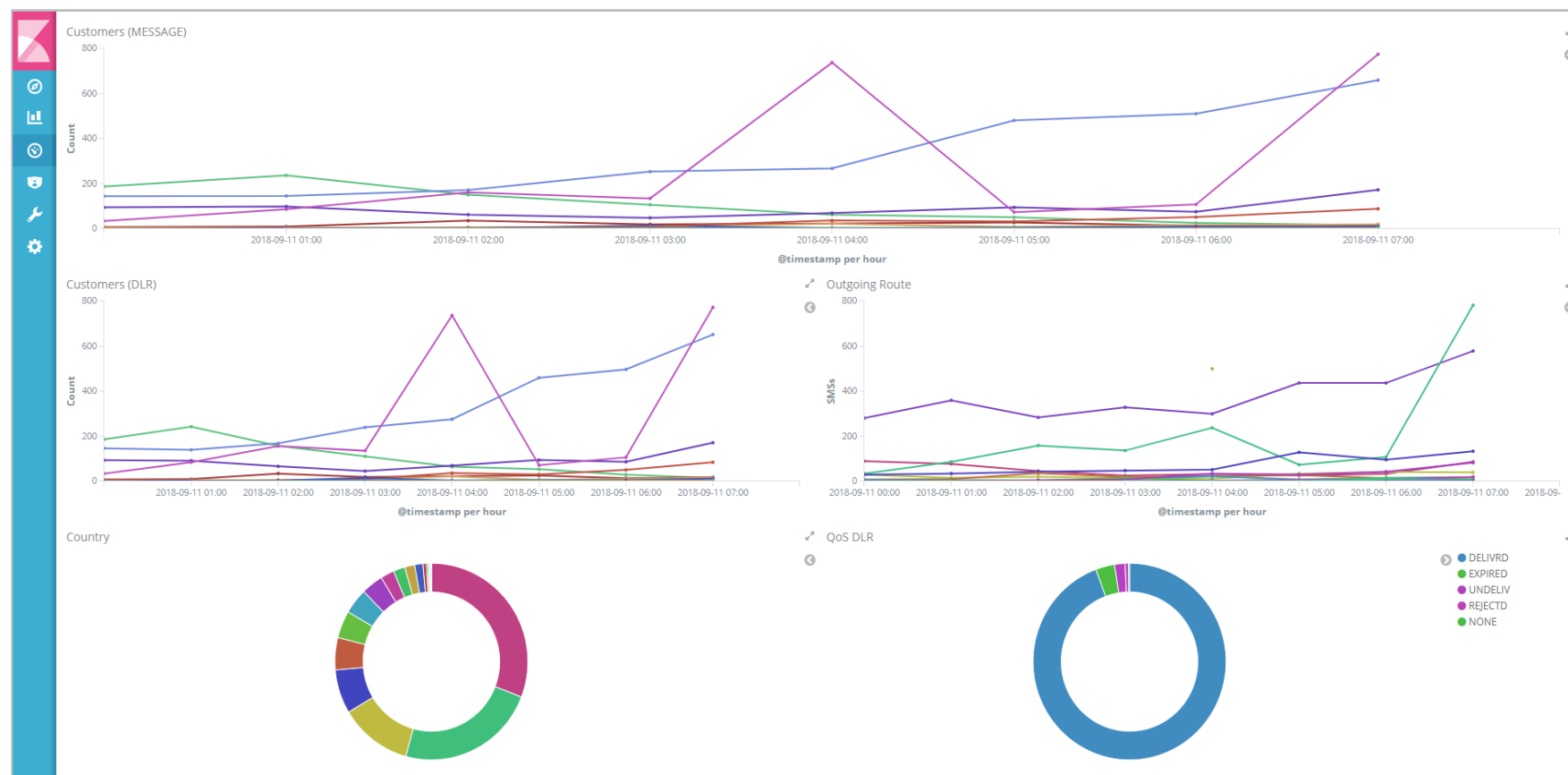
The module allows to manage your traffic in the most convenient for your business way, both quality and commercially wise.



The module allows to import A-Z and partial price lists, as well as to see the rate fluctuations that occurred, making possible a least-cost routing implementation.

REPORTING & STATISTICS.

Monitoring service has been extended by integration with Elastic stack, allowing advanced reporting and management of the traffic with enriched information at graphical level and content.



WHY CHOOSE DAS SOLUTIONS SMS GATEWAY?

I

In-house carrier grade developed platform continuously evolving to adapt latest technologies.

II

Full ability to interconnect and manage SS7, SMPP, HTTP and SIP.

III

Performing intelligent routing management.

IV

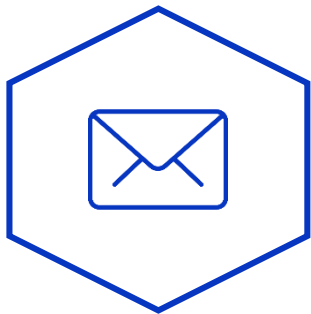
High throughput (more than 1000 SMS/sec).

V

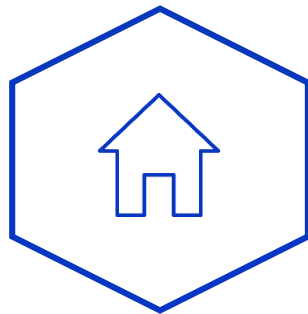
Friendly graphical user interface (GUI).

VI

Easy to integrate into your network and billing system.



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