





Trusted By















About us

DecisionTelecom (IT-Decision Telecom LLC) an international provider of A2P messaging and Voice communication, holds network operator license, GSMA member, and interconnected with more than 800 mobile networks globally. DecisionTelecom operates a carrier-grade messaging platform and network infrastructure with highest quality industry standards.

With more than 10 years of industry experience we serve mobile network operators, A2P messaging providers, aggregators, and enterprises globally in order to create secure A2P SMS ecosystem and protect subscribers from various of frauds by delivering innovative SMS Firewall solution within a synergy of managed services.





SMS Firewall

SMS messaging is still one of the most common delivery channels in the world.

The problem of SMS spam and frode remains relevant for both subscribers and mobile operators.

Due to the large number of illegal messages, the load on the network is growing. Revenues from legal M-commerce advertising campaigns are being disrupted. The loyalty of subscribers is reduced.



Functionality

- ✓ Detection and analyze illegal SMS traffic of various types
 - SMS Faking, SMS Spoofing, SMS Smishing, Fraud
- ✓ Subscriber data protection (IMSI, MSC, VLR Number, MSC Number, HLR Humber)
- ✓ Monitoring SMPP/SS7 interconnect traffic
- ✓ SMS traffic analyze by AI technologies
- ✓ API for black/white lists and blocking rules creation

- Configuration of settings via GUI (routes, links)
- ✓ Filter rules groups and structures, the ability to use rules combinations
- ✓ AND, OR, NOT statements in rules
- ✓ Analysis of concatenated messages
- ✓ Monitoring MO messages
- ✓ Analyze SS7 traffic (SRI, reports, etc.)



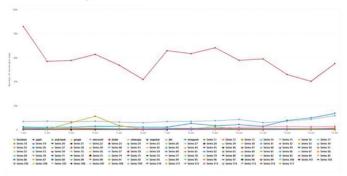
Reporting tools

Dashboard



- Monitor SS7 traffic
- Monitor AlphaNames from SS7
- Monitor SMPP traffic
- Monitor SMPP traffic by SME

Generate Report



- Generate diagrams for SS7/SMPP
- Download SS7/SMPP statistics (csv/excel)
- Generate online table with filters SS7/SMPP
- Using filters for different parameters (configurable reports)



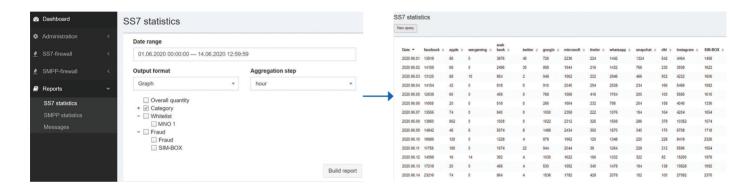
Display messages



- Display and export specific messages
- Find messages with specific text or number
- Find messages from specific sources
- Use configurable filters for troubleshooting



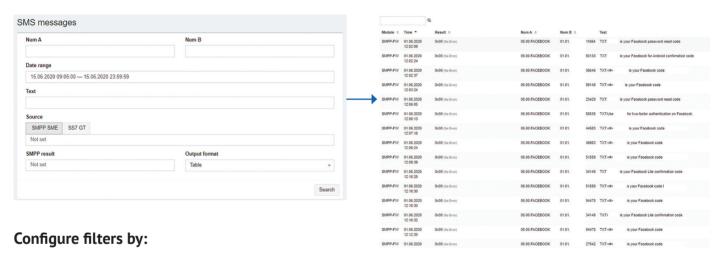
Report generation



Output format	Graph / CSV / Excel / Table		
Date range	Any time range		
Aggregation step	Min / hour / day / month		
Parameter (customized)	Service Category / Overall / Fraud / Whitelist		



Display message



- Origination/Destination
- Date range: Any time range
- Message text
- Message source (SMPP SME/SS7 GT)
- Message result: Success/Error Code
- Output format: CSV/Table/Excel



Filtering options

- GT blocking/Sender number blocking
- Filtering by keywords
- Duplicate messages filtering
- Extended filtering options by Lua scripts

Filtering rules can be created by AI technologies

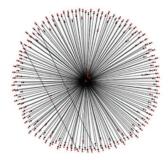


Al module (coming soon)

Visual representation of subscriber behavioral in the form of graphs:



Example 1. Live communication between 28 people. All topics are different, a small degree of similarity = 0.0756.



Example 2. Spam to 209 numbers. Message similarity within the selected group = 0.99

- **✓** Grey routes detection
- Spam detection not covered by filter rules.

Al development involves the full range of the latest technologies and scientific achievements. The Al module brings traffic analysis to a qualitatively new level.



Traffic Analysis Results

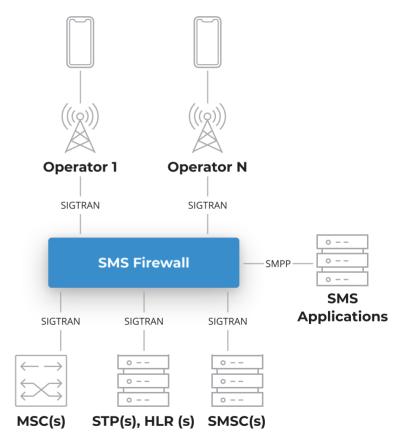
During the analyze process, the system decides whether to deliver or block the message. As a result, the following actions can be performed:

Allow message delivery	
Reject message with sending delivery report	X
Reject message without sending delivery report	×
MAP/SMPP error transfer to sender MAP/SMPP	!
Tagging traffic	#



Integration scheme

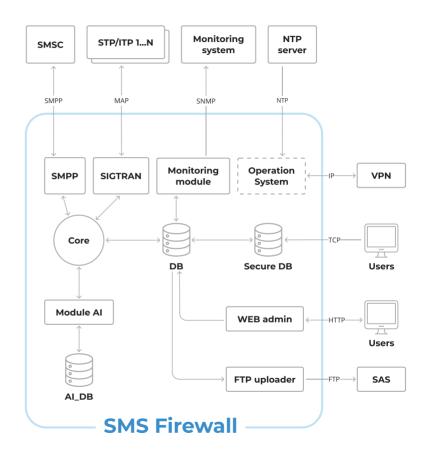
- ✓ SMPP 3.4/5.0
- ✓ SIGTRAN m2pa/m3ua
- Average duration of installation 5 days* *Home Routing functionality needed





Architecture

SMS FRW with AI module





Different options









Platform for MT SMS processing only – SMPP+SS7

Platform with own SMSC for MO traffic processing

Platform with SS7 traffic processing. Optional STP can be supplied Platform with AI Module for deep analyze.



Conformity to specifications

MAP requests supported with specifications:

- IETF RFC 2960, 3286, 3309 (SIGTRAN SCTP).
- IETF RFC 4165 (M2PA).
- ITU-T Q.704-Q.709 (MTP3).
- IETF RFC 3332 (M3UA).
- ITU-T Q.711-Q.719, ANSI T1.112-1996 (SCCP).
- ITU-T Q.771-775 (TCAP).
- 3GPP TS 29.002 (MAP).

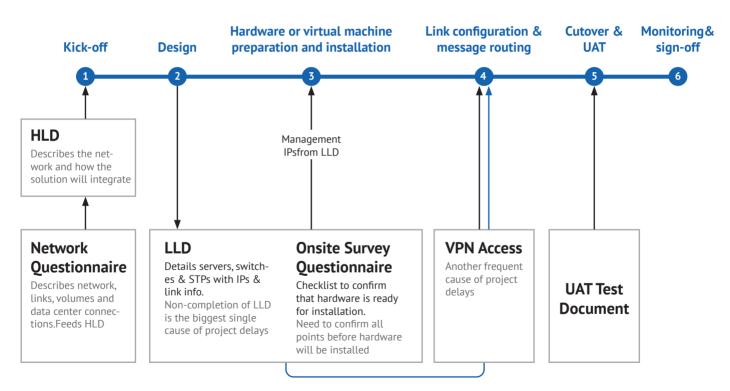
Flexible analysis logic for MAP, CAP requests.

The solution conforms GSMA safety specifications:

- GSM Association IR.70 (Official Document IR.70 SMS SS7 Fraud).
- GSM Association IR.82 (Official Document IR.82 Security SS7 implementation on SS7 network guidelines).



Implementation process





Experience with other systems and software

Systems	Vendors	Constant	— —	*** A.1
MSC/MSS, HLR/HSS, STP/ ITP	Huawei, Ericsson, Nokia, ZTE, Cisco, Alcatel, Nortel, Delta Solutions	CentOS Virtualization VmWare	Red Hat openstack	AlmaLinux KVM
Billing	Nexign, Foris, HP, CBOSS, Bercut, Comverse, Ensemble (AmDocs), NVision (Sitronics), Asia Info and others	DBMS ORACLE		PostgreSQL
VAS platforms	Protei, Unifun, Openmind, Eastwind, Mavenir, CBOSS, Bercut, ORGA, Lucent, Aicent, Mobico, Nokia, Siemens Networks, Sitronics, Ericsson, Telenity, Synapse, Comverse, Acision (Xura), Mediafon, Sicap	Servers Switching equipment HUAWEI	HUAWEI E	Alcatel·Lucent

Operating Systems

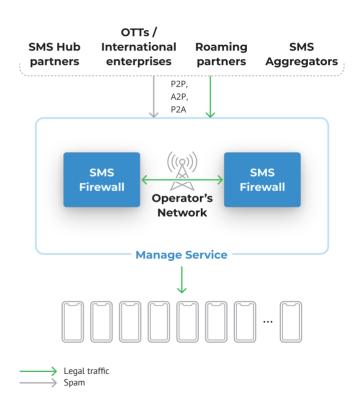


Managed Services

SMS is still one of the most common channels in the world of message delivery.

SMS remains the most important channel of communication with customers and potential customers. Unlike the P2P SMS messages, A2P messages grows every year* and requires more and more security. The presence of gray routes reduces the income of telecom operators.

SMS Firewall Management traffic Monetization



^{*} According to Mobilesquared forecasts, the turnover of the global A2P market in 2022 will amount to \$26.61 billion (in 2017 - \$11.86 billion)



Features

The platform collects statistics and uses tools to deeply analyze and develop a successful strategy for monetizing A2P traffic.

Sandbox

System of safe testing of filtering rules on the test database for next implementation in the production environment. Before applying to the main database, all changes are necessarily moderated.

Data hashing

The system can hash personal data if these data are transferred to third parties – analysts, managers, etc.

Message tagging

Tags create separate policies for specific types of traffic, providing capabilities for more detailed monitoring.

Perfomance

Storage, GB

Standart version – **500 SMS per sec** (w/o storage)

Modular platform architecture provides easy scalability to 20 000+ SMS per sec

Standart version: 2 virtual machines Processor cores 6 RAM, GB 16

150





Our A2P SMS experience

Years of experience

1C+ 50C+ 5C+ Partners globally

Million of A2P SMS daily

80C+ Mobile networks worldwide







Complete customization for customer cases

Professional team

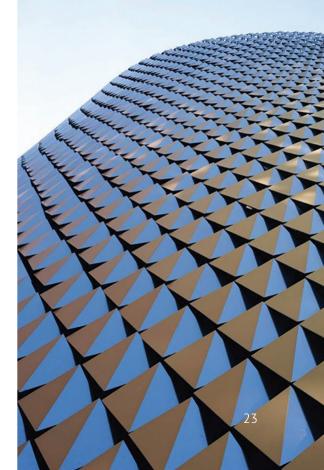




Monetization/Manage Service









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