

SMS Firewall Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, By Component (SMS Firewall Platform and Services), By SMS Type (A2P and P2A Messages), By SMS Traffic (National and International), By Region, By Competition, 2018-2028

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Abstracts

Global SMS Firewall Market has valued at USD 2.56 Billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 7.34% through 2028. The Global SMS Firewall Market is currently experiencing a substantial surge in growth, driven by the expanding role of artificial intelligence (AI) technologies in reshaping and optimizing supply chain operations across diverse industries. AI has become an invaluable asset for organizations striving to enhance efficiency, reduce costs, and gain a competitive edge in today's rapidly evolving global marketplace. This exploration delves into how AI is instigating significant transformations across the supply chain industry, equipping organizations to thrive in an era where data-driven insights and automation reign supreme.

AI technology has ushered in a new era in supply chain management, equipping it with a diverse set of capabilities that form the bedrock of operational excellence. A primary catalyst driving AI adoption in the supply chain domain is the relentless pursuit of elevated operational efficiency. AI-powered algorithms and predictive analytics provide organizations with the tools to optimize various aspects of the supply chain, including demand forecasting, inventory management, and route optimization. The outcome is a reduction in lead times, decreased carrying costs, and enhanced levels of customer satisfaction. Demand forecasting is a pivotal domain where AI excels. By scrutinizing historical sales data, market dynamics, and external variables such as weather patterns

and economic indicators, AI algorithms can generate highly accurate demand forecasts. This empowers organizations to align their production and inventory levels with actual demand, minimizing excess inventory and averting stockouts. AI-driven inventory management is another key driver of efficiency. AI algorithms continuously analyze inventory levels, supplier performance, and demand fluctuations to optimize stock levels. This not only reduces carrying costs but also ensures products are available precisely when and where they are needed.

Supply chain logistics also benefit significantly from AI technology. AI-powered route optimization and real-time tracking enhance the efficiency of transportation operations. Organizations can reduce fuel consumption, lower transportation costs, and ensure timely deliveries to customers. Furthermore, AI enhances supply chain visibility and transparency. Through the use of IoT sensors and data analytics, organizations can gain real-time insights into the status and condition of goods in transit. This high level of visibility helps in identifying and addressing potential issues proactively, improving supply chain resilience. AI-driven automation represents a revolutionary force in supply chain operations. Robotic process automation (RPA) and autonomous robots are increasingly being employed for tasks such as order picking, packing, and inventory replenishment. This not only reduces labor costs but also minimizes errors and enhances overall process efficiency. The convergence of AI and blockchain technology is also making supply chains more secure and transparent. Blockchain, when combined with AI, provides end-to-end visibility and traceability of products, reducing the risk of fraud and counterfeit goods. In conclusion, the Global SMS Firewall Market is undergoing remarkable growth, driven by the transformative influence of AI technologies. These innovations are reshaping the landscape of supply chain management, streamlining processes, reducing costs, and ensuring the timely and efficient delivery of goods. As AI technology continues to evolve, its undeniable role in shaping the future of supply chain management is solidified, driving innovation, efficiency, and customer satisfaction to previously unattainable heights.

Key Market Drivers

Escalating Cybersecurity Threats and SMS Frauds:

The Global SMS Firewall Market is witnessing significant growth due to the escalating cybersecurity threats and SMS frauds plaguing the telecommunications industry. SMS (Short Message Service) remains a widely used communication channel for individuals and businesses alike. However, it has also become a target for cybercriminals who exploit vulnerabilities in SMS networks for various malicious activities such as phishing,

spamming, and SMS-based frauds.

One of the primary drivers in this market is the pressing need to protect SMS networks and subscribers from these threats. SMS firewalls are designed to act as robust security mechanisms, monitoring and filtering incoming and outgoing SMS traffic. They employ sophisticated algorithms and real-time threat intelligence to detect and block suspicious or fraudulent messages. This capability is critical in safeguarding the integrity of SMS communication and protecting subscribers from scams and cyberattacks.

Moreover, the proliferation of mobile devices and the increasing reliance on SMS for critical communications, such as two-factor authentication (2FA) and one-time passwords (OTPs), have made the SMS infrastructure a lucrative target for attackers. This has propelled the demand for SMS firewall solutions, as telecom operators and enterprises seek to fortify their SMS networks and ensure the secure transmission of sensitive information.

As cyber threats continue to evolve and SMS-based frauds become more sophisticated, the Global SMS Firewall Market is expected to grow in tandem with the rising demand for robust SMS security solutions. This trend underscores the critical role that SMS firewalls play in maintaining the integrity and trustworthiness of SMS communication.

Regulatory Compliance and Data Privacy Requirements:

Another driving factor in the Global SMS Firewall Market is the increasing emphasis on regulatory compliance and data privacy requirements. Governments and regulatory bodies around the world have implemented stringent regulations to protect consumer privacy and prevent SMS-based abuse, such as spamming and unsolicited marketing messages. For instance, regulations like the General Data Protection Regulation (GDPR) in Europe and the Telephone Consumer Protection Act (TCPA) in the United States impose strict rules on SMS communications. Organizations that fail to comply with these regulations face severe penalties and reputational damage. As a result, there is a growing need for SMS firewall solutions that can help telecom operators and enterprises adhere to these regulations. SMS firewalls are equipped with features that enable organizations to enforce compliance with these regulations. They offer capabilities such as opt-in and opt-out management, consent tracking, and message content filtering to ensure that SMS campaigns are conducted in accordance with legal requirements. This not only helps organizations avoid legal repercussions but also enhances their reputation as responsible SMS service providers. Furthermore, the growing awareness among consumers about their data privacy rights has increased

their expectations for secure and compliant SMS communications. Organizations that invest in SMS firewall solutions can demonstrate their commitment to protecting customer data and complying with relevant regulations, thereby gaining a competitive advantage in the market.

Increasing SMS Traffic and Application-to-Person (A2P) Messaging:

The Global SMS Firewall Market is also being driven by the rapid increase in SMS traffic and the growth of Application-to-Person (A2P) messaging. A2P messaging refers to the use of SMS for automated communications between applications and individuals, often for purposes such as alerts, notifications, and authentication. The proliferation of mobile apps and the need for businesses to engage with customers in real-time have led to a surge in A2P messaging. Industries such as banking, healthcare, e-commerce, and logistics rely on A2P SMS for critical communications. This surge in A2P messaging has created new revenue opportunities for telecom operators and SMS service providers. However, it has also attracted the attention of fraudsters and spammers looking to exploit A2P messaging for malicious purposes. This has resulted in an increased demand for SMS firewall solutions that can distinguish between legitimate A2P messages and fraudulent or spammy ones. SMS firewalls use advanced algorithms and machine learning to analyze message content, sender reputation, and traffic patterns to identify and block unauthorized A2P messages. This ensures that legitimate A2P communication channels remain secure and reliable. The growth of A2P messaging, coupled with the need to protect it from abuse, is a significant driver in the Global SMS Firewall Market. As A2P messaging continues to gain traction across industries, the demand for SMS firewall solutions is expected to grow, bolstering the market's expansion. In summary, the Global SMS Firewall Market is being driven by factors such as escalating cybersecurity threats and SMS frauds, regulatory compliance and data privacy requirements, and the increasing SMS traffic, particularly in the context of A2P messaging. These drivers highlight the critical role of SMS firewall solutions in securing SMS communication and ensuring compliance with regulatory standards. As organizations recognize the importance of safeguarding their SMS networks and maintaining customer trust, the demand for SMS firewall solutions is poised to grow substantially.

Key Market Challenges

Evolving and Sophisticated SMS Threat Landscape:

One of the foremost challenges facing the Global SMS Firewall Market is the

continuously evolving and increasingly sophisticated SMS threat landscape. As businesses and individuals rely heavily on SMS for communication and various services, cybercriminals have identified SMS as a lucrative target for malicious activities. These activities encompass a wide range of threats, including SMS phishing (smishing), spamming, SMS fraud, and SMS-based malware distribution.

Cyber adversaries continually adapt their tactics to bypass traditional security measures, making it challenging for SMS firewalls to keep up. For example, SMS phishing attacks involve fraudsters sending deceptive messages to trick recipients into revealing sensitive information or clicking on malicious links. These messages often appear genuine and convincing, posing a significant challenge for SMS firewalls to differentiate between legitimate and fraudulent SMS.

Moreover, SMS spamming remains a persistent challenge. Spam messages not only inundate users' inboxes, causing annoyance, but also serve as a vector for phishing attempts and fraudulent schemes. SMS firewalls must employ advanced content filtering and pattern recognition techniques to effectively identify and block spam messages without impacting legitimate SMS traffic. To address these challenges, SMS firewall providers must continuously update their threat intelligence databases, machine learning models, and detection algorithms. They need to stay vigilant against emerging threats, monitor global SMS traffic patterns, and collaborate with industry stakeholders to share threat intelligence. Keeping pace with cybercriminals' innovation and maintaining high detection accuracy are pivotal challenges in the SMS Firewall Market.

Regulatory Complexity and Compliance Requirements:

Another significant challenge in the Global SMS Firewall Market revolves around the regulatory complexity and compliance requirements imposed on SMS communications. Governments and regulatory bodies in various countries have introduced stringent regulations to protect consumers' privacy and combat SMS-related abuse, such as spam, fraud, and unsolicited marketing messages.

For instance, regulations like the General Data Protection Regulation (GDPR) in Europe, the Telephone Consumer Protection Act (TCPA) in the United States, and the Personal Data Protection Act (PDPA) in Singapore mandate strict rules for SMS communications. Non-compliance with these regulations can result in severe penalties and damage to an organization's reputation.

SMS firewall providers face the challenge of developing solutions that can assist

telecom operators, SMS aggregators, and enterprises in adhering to these complex and ever-changing regulations. This involves implementing features such as consent management, opt-in and opt-out mechanisms, and message content filtering to ensure that SMS campaigns are compliant with legal requirements.

Furthermore, SMS firewall providers must stay abreast of evolving regulatory frameworks across different regions and adapt their solutions accordingly. Compliance challenges include understanding the nuances of each regulation, developing mechanisms for obtaining user consent, and providing tools for organizations to maintain detailed records of their SMS communications for audit and reporting purposes. Navigating the intricate landscape of global SMS compliance while delivering effective SMS firewall solutions presents a formidable challenge for providers in this market.

Rising User Expectations for Secure SMS Communication:

A third significant challenge in the Global SMS Firewall Market is the rising user expectations for secure and trustworthy SMS communication. With consumers becoming increasingly aware of their data privacy rights and the risks associated with SMS-based threats, they expect SMS service providers to deliver secure, spam-free, and privacy-respecting SMS experiences.

User expectations extend to protection against SMS phishing attempts, spam messages, and fraudulent activities. Consumers demand assurance that their personal information shared through SMS, such as one-time passwords (OTPs) for authentication or transaction confirmations, remains confidential and secure.

Addressing these expectations requires SMS firewall providers to continuously enhance their solutions' capabilities. It necessitates the development of advanced content analysis algorithms, machine learning models, and real-time threat detection mechanisms to identify and block malicious SMS effectively. Additionally, providers must offer features that empower users to manage their SMS preferences, report suspicious messages, and easily opt in or out of SMS communications.

User education and awareness are also paramount. SMS firewall providers should collaborate with telecom operators and enterprises to educate users about SMS security best practices, such as not sharing sensitive information via SMS or recognizing common SMS phishing tactics.

Meeting rising user expectations for secure SMS communication is a multifaceted challenge that encompasses technology innovation, user empowerment, and awareness-building efforts. Providers must strike a balance between enhancing security and preserving the convenience and accessibility of SMS as a communication channel.

In summary, the Global SMS Firewall Market faces significant challenges, including the evolving SMS threat landscape, regulatory complexity and compliance requirements, and rising user expectations for secure SMS communication. Overcoming these challenges requires SMS firewall providers to stay agile, invest in advanced threat detection capabilities, and collaborate with industry stakeholders to ensure the continued security and integrity of SMS communication.

Key Market Trends

Evolving and Sophisticated SMS Threat Landscape:

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Segmental Insights

Component Insights

The SMS Firewall Platform segment is the dominating segment in the Global SMS Firewall Market.

The growth of the SMS firewall platform segment is being driven by a number of factors,

including:

The increasing adoption of SMS firewall platforms by telecom operators and businesses to protect their customers and networks from SMS spam and fraud.

The growing sophistication of SMS spam and fraud attacks.

The increasing awareness of the need for SMS security among telecom operators and businesses.

Some of the key benefits of SMS firewall platforms include:

Protection from SMS spam and fraud: SMS firewall platforms can be used to protect telecom operators and businesses from SMS spam and fraud attacks. SMS firewall platforms use a variety of techniques to identify and block SMS spam and fraud messages, such as content filtering, blacklisting, and whitelisting. Improved network performance: SMS firewall platforms can help to improve network performance by reducing the amount of SMS spam and fraud traffic on the network. This can lead to faster message delivery and reduced network congestion. Enhanced customer satisfaction: SMS firewall platforms can help to improve customer satisfaction by protecting customers from SMS spam and fraud. This can lead to increased customer loyalty and reduced customer churn. The SMS firewall services segment is expected to grow at a faster rate than the SMS firewall platform segment in the coming years. This is due to the increasing demand for managed SMS firewall services from telecom operators and businesses. Managed SMS firewall services provide telecom operators and businesses with a comprehensive solution for protecting their customers and networks from SMS spam and fraud.

Regional Insights

North America is the dominating region in the Global SMS Firewall Market.

The growth of the SMS firewall market in North America is being driven by a number of factors, including:

The early adoption of SMS firewall technologies in North America.

The high concentration of telecom operators and businesses in North America.

The high level of awareness of the need for SMS security among North American telecom operators and businesses.

The stringent government regulations in North America that require telecom operators and businesses to protect their customers and networks from SMS spam and fraud.

Some of the key countries in North America that are contributing to the growth of the SMS firewall market include the United States and Canada.

The United States is the largest market for SMS firewalls in North America. The United States is home to a number of leading SMS firewall vendors, such as Symantec, Fortinet, and Cisco.

Canada is another major market for SMS firewalls in North America. The Canadian government is actively promoting the adoption of SMS firewall technologies by telecom operators and businesses.

Other key regions in the Global SMS Firewall Market include Europe, Asia Pacific, and the Middle East and Africa.

Europe is a major market for SMS firewalls. European telecom operators and businesses are investing in SMS firewalls to protect their customers and networks from SMS spam and fraud.

Asia Pacific is a rapidly growing market for SMS firewalls. The Asia Pacific region is home to a number of emerging economies, such as China and India, which are investing heavily in the telecom and business sectors.

The Middle East and Africa is a smaller but growing market for SMS firewalls. The Middle East and African governments are actively promoting the adoption of SMS firewall technologies by telecom operators and businesses. Overall, the Global SMS Firewall Market is expected to grow rapidly in the coming years, driven by the increasing adoption of SMS firewall technologies by telecom operators and businesses in various regions, such as North America, Europe, Asia Pacific, and the Middle East and Africa. North America is expected to continue to be the dominating region in this market, due to the early adoption of SMS firewall technologies, the high concentration of telecom operators and businesses, and the high level of awareness of the need for SMS security.

Key Market Players

Twilio Inc.

Nexmo

Sinch AB

Route Mobile Limited

SAP SE

Mobileum Inc.

BICS SA

AdaptiveMobile Security Ltd

Infobip Ltd.

OpenMarket Inc.

Report Scope:

In this report, the Global SMS Firewall Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

SMS Firewall Market, By Component:

SMS Firewall Platform

Services

SMS Firewall Market, By SMS Type:

A2P

P2A Messages

SMS Firewall Market, By SMS Traffic:

National

International

SMS Firewall Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Belgium

Asia-Pacific

China

India

Japan

Australia

South Korea

Indonesia

Vietnam

South America

Brazil

Argentina

Colombia

Chile

Peru

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global SMS Firewall Market.

Available Customizations:

Global SMS Firewall market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON GLOBAL SMS FIREWALL MARKET

5. VOICE OF CUSTOMER

6. GLOBAL SMS FIREWALL MARKET OVERVIEW

7. GLOBAL SMS FIREWALL MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Component (SMS Firewall Platform and Services)

7.2.2. By SMS Type (A2P and P2A Messages)

7.2.3. By SMS Traffic (National and International)

7.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)

7.3. By Company (2022)

7.4. Market Map

8. NORTH AMERICA SMS FIREWALL MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Component

8.2.2. By SMS Type

8.2.3. By SMS Traffic

8.2.4. By Country

8.3. North America: Country Analysis

8.3.1. United States SMS Firewall Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Component

8.3.1.2.2. By SMS Type

8.3.1.2.3. By SMS Traffic

8.3.2. Canada SMS Firewall Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Component

8.3.2.2.2. By SMS Type

8.3.2.2.3. By SMS Traffic

8.3.3. Mexico SMS Firewall Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Component

8.3.3.2.2. By SMS Type

8.3.3.2.3. By SMS Traffic

9. EUROPE SMS FIREWALL MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Component

9.2.2. By SMS Type

9.2.3. By SMS Traffic

9.2.4. By Country

9.3. Europe: Country Analysis

9.3.1. Germany SMS Firewall Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Component

9.3.1.2.2. By SMS Type

9.3.1.2.3. By SMS Traffic

9.3.2. France SMS Firewall Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Component

9.3.2.2.2. By SMS Type

9.3.2.2.3. By SMS Traffic

9.3.3. United Kingdom SMS Firewall Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Component

9.3.3.2.2. By SMS Type

9.3.3.2.3. By SMS Traffic

9.3.4. Italy SMS Firewall Market Outlook

9.3.4.1. Market Size & Forecast

9.3.4.1.1. By Value

- 9.3.4.2. Market Share & Forecast
 - 9.3.4.2.1. By Component
 - 9.3.4.2.2. By SMS Type
 - 9.3.4.2.3. By SMS Traffic
- 9.3.5. Spain SMS Firewall Market Outlook
 - 9.3.5.1. Market Size & Forecast
 - 9.3.5.1.1. By Value
 - 9.3.5.2. Market Share & Forecast
 - 9.3.5.2.1. By Component
 - 9.3.5.2.2. By SMS Type
 - 9.3.5.2.3. By SMS Traffic
- 9.3.6. Belgium SMS Firewall Market Outlook
 - 9.3.6.1. Market Size & Forecast
 - 9.3.6.1.1. By Value
 - 9.3.6.2. Market Share & Forecast
 - 9.3.6.2.1. By Component
 - 9.3.6.2.2. By SMS Type
 - 9.3.6.2.3. By SMS Traffic

10. SOUTH AMERICA SMS FIREWALL MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Component
 - 10.2.2. By SMS Type
 - 10.2.3. By SMS Traffic
 - 10.2.4. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil SMS Firewall Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Component
 - 10.3.1.2.2. By SMS Type
 - 10.3.1.2.3. By SMS Traffic
 - 10.3.2. Colombia SMS Firewall Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value

- 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Component
 - 10.3.2.2.2. By SMS Type
 - 10.3.2.2.3. By SMS Traffic
- 10.3.3. Argentina SMS Firewall Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Component
 - 10.3.3.2.2. By SMS Type
 - 10.3.3.2.3. By SMS Traffic
- 10.3.4. Chile SMS Firewall Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Component
 - 10.3.4.2.2. By SMS Type
 - 10.3.4.2.3. By SMS Traffic
- 10.3.5. Peru SMS Firewall Market Outlook
 - 10.3.5.1. Market Size & Forecast
 - 10.3.5.1.1. By Value
 - 10.3.5.2. Market Share & Forecast
 - 10.3.5.2.1. By Component
 - 10.3.5.2.2. By SMS Type
 - 10.3.5.2.3. By SMS Traffic

11. MIDDLE EAST & AFRICA SMS FIREWALL MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Component
 - 11.2.2. By SMS Type
 - 11.2.3. By SMS Traffic
 - 11.2.4. By Country
- 11.3. Middle East & Africa: Country Analysis
 - 11.3.1. Saudi Arabia SMS Firewall Market Outlook
 - 11.3.1.1. Market Size & Forecast
 - 11.3.1.1.1. By Value

- 11.3.1.2. Market Share & Forecast
 - 11.3.1.2.1. By Component
 - 11.3.1.2.2. By SMS Type
 - 11.3.1.2.3. By SMS Traffic
- 11.3.2. UAE SMS Firewall Market Outlook
 - 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value
 - 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Component
 - 11.3.2.2.2. By SMS Type
 - 11.3.2.2.3. By SMS Traffic
- 11.3.3. South Africa SMS Firewall Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value
 - 11.3.3.2. Market Share & Forecast
 - 11.3.3.2.1. By Component
 - 11.3.3.2.2. By SMS Type
 - 11.3.3.2.3. By SMS Traffic
- 11.3.4. Turkey SMS Firewall Market Outlook
 - 11.3.4.1. Market Size & Forecast
 - 11.3.4.1.1. By Value
 - 11.3.4.2. Market Share & Forecast
 - 11.3.4.2.1. By Component
 - 11.3.4.2.2. By SMS Type
 - 11.3.4.2.3. By SMS Traffic
- 11.3.5. Israel SMS Firewall Market Outlook
 - 11.3.5.1. Market Size & Forecast
 - 11.3.5.1.1. By Value
 - 11.3.5.2. Market Share & Forecast
 - 11.3.5.2.1. By Component
 - 11.3.5.2.2. By SMS Type
 - 11.3.5.2.3. By SMS Traffic

12. ASIA PACIFIC SMS FIREWALL MARKET OUTLOOK

- 12.1. Market Size & Forecast
 - 12.1.1. By Component
 - 12.1.2. By SMS Type
 - 12.1.3. By SMS Traffic

12.1.4. By Country

12.2. Asia-Pacific: Country Analysis

12.2.1. China SMS Firewall Market Outlook

12.2.1.1. Market Size & Forecast

12.2.1.1.1. By Value

12.2.1.2. Market Share & Forecast

12.2.1.2.1. By Component

12.2.1.2.2. By SMS Type

12.2.1.2.3. By SMS Traffic

12.2.2. India SMS Firewall Market Outlook

12.2.2.1. Market Size & Forecast

12.2.2.1.1. By Value

12.2.2.2. Market Share & Forecast

12.2.2.2.1. By Component

12.2.2.2.2. By SMS Type

12.2.2.2.3. By SMS Traffic

12.2.3. Japan SMS Firewall Market Outlook

12.2.3.1. Market Size & Forecast

12.2.3.1.1. By Value

12.2.3.2. Market Share & Forecast

12.2.3.2.1. By Component

12.2.3.2.2. By SMS Type

12.2.3.2.3. By SMS Traffic

12.2.4. South Korea SMS Firewall Market Outlook

12.2.4.1. Market Size & Forecast

12.2.4.1.1. By Value

12.2.4.2. Market Share & Forecast

12.2.4.2.1. By Component

12.2.4.2.2. By SMS Type

12.2.4.2.3. By SMS Traffic

12.2.5. Australia SMS Firewall Market Outlook

12.2.5.1. Market Size & Forecast

12.2.5.1.1. By Value

12.2.5.2. Market Share & Forecast

12.2.5.2.1. By Component

12.2.5.2.2. By SMS Type

12.2.5.2.3. By SMS Traffic

12.2.6. Indonesia SMS Firewall Market Outlook

12.2.6.1. Market Size & Forecast

- 12.2.6.1.1. By Value
- 12.2.6.2. Market Share & Forecast
 - 12.2.6.2.1. By Component
 - 12.2.6.2.2. By SMS Type
 - 12.2.6.2.3. By SMS Traffic
- 12.2.7. Vietnam SMS Firewall Market Outlook
 - 12.2.7.1. Market Size & Forecast
 - 12.2.7.1.1. By Value
 - 12.2.7.2. Market Share & Forecast
 - 12.2.7.2.1. By Component
 - 12.2.7.2.2. By SMS Type
 - 12.2.7.2.3. By SMS Traffic

13. MARKET DYNAMICS

- 13.1. Drivers
- 13.2. Challenges

14. MARKET TRENDS AND DEVELOPMENTS

15. COMPANY PROFILES

- 15.1. Twilio Inc.
 - 15.1.1. Business Overview
 - 15.1.2. Key Revenue and Financials
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel/Key Contact Person
 - 15.1.5. Key Product/Services Offered
- 15.2. Nexmo
 - 15.2.1. Business Overview
 - 15.2.2. Key Revenue and Financials
 - 15.2.3. Recent Developments
 - 15.2.4. Key Personnel/Key Contact Person
 - 15.2.5. Key Product/Services Offered
- 15.3. Sinch AB
 - 15.3.1. Business Overview
 - 15.3.2. Key Revenue and Financials
 - 15.3.3. Recent Developments

- 15.3.4. Key Personnel/Key Contact Person
- 15.3.5. Key Product/Services Offered
- 15.4. Route Mobile Limited
 - 15.4.1. Business Overview
 - 15.4.2. Key Revenue and Financials
 - 15.4.3. Recent Developments
 - 15.4.4. Key Personnel/Key Contact Person
 - 15.4.5. Key Product/Services Offered
- 15.5. SAP SE
 - 15.5.1. Business Overview
 - 15.5.2. Key Revenue and Financials
 - 15.5.3. Recent Developments
 - 15.5.4. Key Personnel/Key Contact Person
 - 15.5.5. Key Product/Services Offered
- 15.6. Mobileum Inc.
 - 15.6.1. Business Overview
 - 15.6.2. Key Revenue and Financials
 - 15.6.3. Recent Developments
 - 15.6.4. Key Personnel/Key Contact Person
 - 15.6.5. Key Product/Services Offered
- 15.7. BICS SA
 - 15.7.1. Business Overview
 - 15.7.2. Key Revenue and Financials
 - 15.7.3. Recent Developments
 - 15.7.4. Key Personnel/Key Contact Person
 - 15.7.5. Key Product/Services Offered
- 15.8. AdaptiveMobile Security Ltd
 - 15.8.1. Business Overview
 - 15.8.2. Key Revenue and Financials
 - 15.8.3. Recent Developments
 - 15.8.4. Key Personnel/Key Contact Person
 - 15.8.5. Key Product/Services Offered
- 15.9. Infobip Ltd.
 - 15.9.1. Business Overview
 - 15.9.2. Key Revenue and Financials
 - 15.9.3. Recent Developments
 - 15.9.4. Key Personnel/Key Contact Person
 - 15.9.5. Key Product/Services Offered
- 15.10. OpenMarket Inc.

- 15.10.1. Business Overview
- 15.10.2. Key Revenue and Financials
- 15.10.3. Recent Developments
- 15.10.4. Key Personnel/Key Contact Person
- 15.10.5. Key Product/Services Offered

16. STRATEGIC RECOMMENDATIONS

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