SANGFOR NGAF FIREWALL PLATFORM

Smarter Security Powered By

Artificial Intelligence

The World First Fully Integrated NGFW + WAF

- One Management Panel for All Security Operations
- Security Expertise Enablement Through Visualization
- Do More With Less. Minimum 50% of TCO Reduction
- Reduce Security Hardware Footprint Up to 70%

Listed In

Gartner

Magic Quadrant for Enterprise Network Firewalls

Certified by







New World. New IT. New Security



The IT industry is constantly evolving. The Internet has given IT trends like cloud computing, BYOD and IoT adaptive advantage over previous insular methods of connection, with business-critical applications and IT services hosted remotely and accessible 24/7 on an endless array of devices in an endless number of locations. These adaptable trends survive because they are the fittest, but is network security evolving at the same pace?

Ethics has never played the greatest role in the process of evolution and the IT industry is no exception. Information is the newest global business currency and sensitive data like financial information and confidential corporate information is understandably the target of coevolving corrosive elements like defacement, ransomware and malware.

The security market has responded with many granular security solutions but less than 40% of enterprises have progressed to Next Generation Firewall protection methods. Those organizations who are protected by Firewall or IPS often neglect to evolve their security protection into the realm of Web Application Firewall or more comprehensive and proactive methods of protection. WAF and deep-learning security components are often seen as an additional investment with few monetary benefits, while the protection offered by NGFW & IPS is becoming too general and reactive with the increasing number of evolving web vulnerabilities.

In 2017, a new variation of ransomware called WannaCry infected more than 99 countries, attacking governments, schools, hospitals, and other industries. It was this incident that made ransomware well-known to the public.

Ransomware is a malicious software that cyber-criminals use to hold your files (or computer) for ransom and requiring you to pay a certain amount of money to get them back by encrypting your files. Since its been discovered, Ransomware has been growing at a tremendous speed with more and more users being infected, both companies and consumers. This is critically affecting the productivity & reputation of many companies, which many of them are paying in the end.

More and more varients are now being spread such as XBash, which are focus on data system destruction and crypto currency mining. Application security is no longer optional. Between increasing attacks and regulatory pressures, organizations must establish effective processes and capabilities for securing their applications and APIs (Source: OWASP, 2017). With risk awareness & cost concerns delaying the evolution of true organizational security, many businesses are simply taking what's offered with no consideration given to (or no idea of) true needs.

SANGFOR Next Generation Application Firewall



Sangfor NGAF is a converged security solution providing protection against IPS, advanced threat, malware, viruses, ransomware and web-based attacks using integrated security features like FW, IPS, AV, Anti-malware, APT, URL filtering, Cloud Sandbox, and WAF. Sangfor NGAF uses its own Cloud Sandbox to isolate possible emerging threats that haven't yet been added to any security database, making it especially effective against 0-day attacks.

Neural-X, Sangfor's newest security innovation, is at the core of a sophisticated web of Sangfor developed network security elements like threat intelligence, deep learning, WAF, ZSand, Botnet Malware Detection and Engine Zero. As a cloud-based intelligence and analytic platform powered by Artificial Intelligence (AI), Neural-X empowers and expands security detection capabilities for Sangfor's network, endpoint, and security-as-a-service offerings.

Smart World, Safe World with Sangfor Innovations

Neural-X is at the center of a sophisticated web of Sangfor developed network security elements. As a cloud-based intelligence and analytic platform powered by Artificial Intelligence (AI), Neural-X powers and expands security detection capabilities for Sangfor's network, endpoint, and security-as-a-service offerings.



Neural-X contains dozens of interconnected components designed to work together seamlessly to keep your system both safe and secure including engine zero, threat intelligence, deep learning, sandboxing and botnet detection.

Engine Zero

Engine Zero is an underlining malware detection engine that is built upon a set of powerful artificial intelligence technology, and enhanced by a team of data scientists, security analysts and white hat researchers. This engine is one of many malware inspection engines embedded in Sangfor's network security solutions, end point solution and Neural-X cloud platform. It is very efficient and utilizes very little resource. Only such efficiency can provide malware inspection for known and zero-day attacks on the network gateway with almost no impact on performance. In recent tests (July 2018), our malware detection rate scored the highest in terms of accuracy, surpassing other vendors and open source alternatives.

Threat Intelligence

Neural-X is at the core of Intelligent threat detection and defense. Threat Intelligence is organized, analyzed and refined information that enables organizations to understand, assess and prevent against known and severe risks from external sources.

ZSand

Sangfor ZSand is a virtual dynamic execution technology (sandboxing) designed to detect unknown malware. Sangfor ZSand detonates suspected malware in a safe and controlled environment and monitors the abnormal behaviors of these files for future recognition and prevention. In recent tests, it has accurately detected ransomware families including GandCrab, Zusy, Globelmposter and LockCrypt. ZSand shares all data with Neural X threat intelligence making it possible to identify and study malware with no known previous signature, reducing the risk of future zero-day attacks.detection, identification and elimination within Neural-X.

Deep Learning

Deep learning is a complex element of machine learning inspired by the function of interconnecting neurons in the human brain. It is part of Artificial Intelligence and can be considered as an evolution to Machine Learning. As the names goes, it can learn by itself by obersving and processing millions of data so that it can make more accurate & faster predictions.

One of the way Neural-X uses deep learning is to break down cryptic domain names into vectors that are machine readable. In-depth analysis of vector association detects domain names used by malwares of similar families. Over time the deep learning function will begin to operate and learn independently – thus maintaining a proactive approach to malware

Botnet Detection

Hackers are becoming more sophisticated by abandoning fixed IP addresses and use dynamic domain names instead. These cryptic domain names are used to connect botnets to their controller using secret algorithms. They are notoriously difficult to detect because DNS queries behave similarly to the average user. Neural-X uses advanced flow analysis, visual calculation and deep learning technology to uncover botnets. It is able to uncovered significantly more malicious domain names compared to popular sources such as VirusTotal. So far, it has ncovered over a million malicious domain names and this list is growing daily.

Next Generation Web Application Firewall

The Next Generation WAF engine, which is integrated in Sangfor's next-gen firewall, was developed to protect against new web-based attacks such as SQL injection, web shells, struts2 injection, and deserialization flaws. Sangfor's NGWAF engine uses machine- and deep-learning to analyze attack behaviors. It enhances detection rates and decreases false positives from traditional SNORT-based detection engines. By modeling attack behaviors, a threat model is created to easily manage the applications' system threats.

Sangfor Security Concept

SANGFOR



Network Security has not experienced an equal evolution in all verticals – security experts have differing opinions, expectations and needs across different sectors and different locations. While some define network security as protection against unauthorized access to files and data, others focus on firewall, anti-virus and botnet detection. Traditional security solutions have limited visibility of users, traffic and IT assets with no real-time or post-event detection capabilities. With increasing attacks on the application layer, network security needs to evolve further to keep up with emerging threats.



Sangfor Technologies has a new concept of network security to counter new and more dangerous threats. We go further to provide a complete protection solution for all users against all threats, internal or external, existing or future. Sangfor's evolutionary adaptation of network security follows 4 fundamental points which form the core of our market strategy:



(11) Simplified Security Operation

Even small or mid-sized organization without a specialized IT security team often receive thousands of alerts per week, requiring the IT department to dedicate man-hours to investigation and analysis, and increasing operational costs. The IT nightmare is just beginning, as they are now responsible for limiting downtime, identifying the root cause and taking action to mitigate damages and prevent future attack from the same source. Those organizations still using traditional security solutions without any intelligent or automated reporting tools are at a severe disadvantage. Without 360° visibility and clear analytics and reports, effective security becomes exponentially more difficult.

Sangfor NGAF provides reliable and effortless security with easy deployment and simplified operation and maintenance features, enabling an effective and safe IT environment. The NGAF Configuration Wizard streamlines security policy deployment while integrated intuitive reporting tools provide end-to-end visibility of the overall security of an organization from business systems to endpoints.

Sangfor NGAF simplifies daily security operations by helping to identify real and risky security events among thousands of alerts and providing guidance and suggestions for the best solution.

These expansive visibility components allow the IT department and business owners to execute proactive checks of their system online or offline, thus providing a secure environment for all business systems.



Valuable Report to MGMT Team



Simplified Daily Operation

Data ever been harvested(7) Hocker ones tools, the forage, to search for a last of data, such as server ports, services, etc.			Ever been attacked(364 Hecker exploits the vulnerabil launch stacks operat the ser	Hacked(0) Server has been hecked, infactual or calcost.			
Filter: Period	(2018-07-18 03:09	~2018-07-18 03	1:09) Src zone (All)	Sec IP (92.96.)	134.133)	Dst zone (A	II) D:
Src Location	Det IP	Rule ID	Description	Threat Level	Action	Details	Whit
U.A.E	200.200.1.1	13070018	Malicious Statem	High	Deny	View	Ac
U.A.E	200.200.1.1		Source code discl	Medium	Deny	View	Ac
U.A.E	200.200.1.1	13070027	Malicious Statem	High	Deny	View	Ac
HAF	200 200 1 1	13070614		Hinh	Denv	View	-
H I Pau	oe 1 of 1	E H I DI	Entry Per Page: 50			Entry 1 -	
Src IP: 92.96			Dst U	RL: 191.118.1	18.115/6	etc/passwd	l
Packet Conte	ent					T _U T	T 11
Host: 191.11 Connection: Cache-Contri Accept: text; 0.8 Upgrade-Insi User-Agent:	keep-alive ol: max-age=0 /html,application/ ecure-Requests: Mozilla/5.0 (Wind	1 Jows NT 6.1) /	plication/xml;q=0.9 AppleWebKit/537.34				
GET /etc/pas Host: 191.11 Connection: Cache-Contrn Accept: textj 0.8 Upgrade-Insi User-Agent:	18.118.115 keep-alive ol: max-age=0 /html,application/ ecure-Requests: Mozilla/5.0 (Win: 1.7454.93 Safari/	1 Jows NT 6.1) /					
GET /etc/pas Host: 191.11 Connection: Cache-Contrn Accept: textj 0.8 Upgrade-Insi User-Agent: Chrome/45.0	18.118.115 keep-alive ol: max-age=0 /html,application/ ecure-Requests: Mozilla/5.0 (Wind 1.2454.93 Safari/ Hecket	1 Jows NT 6.1) /					

Step by Step Incident Response

Prevention Against Unknown Threats



Sangfor NGAF is a converged security solution, which provides protection against advanced persistent threats (APT), malware (virus, ransomware) and web-based attacks. Sangfor NGAF has integrated complete security features, such as Firewall, Intrusion Prevent System (IPS), Anti-Virus (AV), Anti-Malware engine, APT Protection (Advanced Persist Threats), URL filtering, Cloud Sandbox and Web Application Firewall.

Sangfor NGAF uses its own Cloud Sandbox to help users isolate potential emerging & new threats that haven't been included in any security database, which is especially useful against 0-day attacks.

The human element is still one of the weakest elements in any organization security operation team. With thousands of logs, it is almost impossible to go through each one of them. This is why many NGFW will filter all logs and only shows the ones with the highest level of importance. However even with this, it is still possible to make errors.

That is why Sangfor is now going further and has implemented artificial intelligence in all of its security innovations, such as malware detection "Engine Zero", Next generation WAF and new Botnet detection engines.

All these engines are sharing the same threat intelligence, which is provided by Sangfor cloud-based Neural-X platform. Using machine learning, it can detect the new unknown threat without any existing signature in advance and prevent any harms to your organization.



Real-Time Monitor of Threat Intelligence

Intelligence Sources

• Over 20,000 connected network gateways provide IOC that includes malicious URL, IP, domain names and malware hashes with the number of participating gateways doubling every year.

- Third party threat intelligence feed.
- Sangfor security R&D into both white hat and black hat communities.

Real Case Scenario

If Sangfor NGAF detects an unusual outbound connection on a server connected to the internet, it sends the suspicious DNS address to Neural-X for verification. If threat intelligence has classified this particular DNS as a known C&C server, it's likely the server has been compromised. NGAF can be programmed to block these C&C communications so no further damage can be caused and to also send alerts to firewall operators for further investigation and processing.



Sangfor NGAF is good at discovering and protecting business assets. Sangfor NGAF can automatically discover your organization' IT assets, discover the system vulnerabilities in real-time, and continuously protect the IT assets.

Moreover, with its proactive protection, Sangfor NGAF is capable of applying virtual patching, identify weak passwords, and hidden applications in all IT assets.



With its Next Generation WAF engine, which use learning and semantic analysis, will help to protect against the most common attacks such as webshell, struts2 injection, and deserialization flaws. It can also learn to analyze the attacks and the attack behaviors. It'll enhance the detection rate and decrease the false positive of the traditional SNORT based detection engine. With the modeling of the attack behaviors, the threat model will be created for customers to easy manage the application system threats.



Unable to detect unknown threats and exploits
 Easy to bypass

Comprehensively surpasses sort rules to identify unknown threats and high-risk vulnerabilities
 Automatically learns by modeling normal business traffic, reducing false positives by 62.4%

- Common false positive SQL injection detection-Low-level performance





Security is growing increasingly complex with malicious traffic intermingling with legitimate traffic and authorized users both at risk of attack and (knowingly or unknowingly) a potential risk to the network. Sangfor believes that visibility of the entire network is the foundation of solid network management. Administrators need to clearly see and understand all risks to information assets and track users and behaviours in order to recognize security threats and eliminate them in a timely manner.

Data and statistics on past and current threats is vital, but there is also a need for further analysis of the correlation between users, behaviours and business systems. By evolving security into a 360 ° view of the network, users can gain a better understanding of where the attack originated, the attack process, repair any damage and proactively defend against further attacks.

Sangfor NGAF Reporting Tools give our customers an extensive overview of their network with just a few clicks. Information like online user identity, server or abnormal traffic and attack status and source are just a few of the visibility resources provided.

Effective Analysis & Presentation: Risk Positioning | Analysis of Data | Graphical Display.

Broader Visibility: User | Behaviour | Business | Threats | Risks | Security Events.

Neural-X is at the core of NGAF intelligent threat detection and defence. Neural-X uses deep learning and in-depth analysis of vector association to detect domain names used by malware of similar families. The deep learning function is designed to operate and learn independently – thus maintaining a proactive, innovative and highly visible approach to malware detection, identification and elimination.

Intelligence is the key to visibility and Sangfor NGAF and Neural-X aim to provide a wholistic view of the network with comprehensive visibility from endpoints to business systems.



SANGFOR NGAF Product Family

Model	M5100-F-I	M5150-F-I	M5200-F-I	M5250-F-I	M5300-F-I	M5400-F-I	M5500-F-I	M5600-F-I	M5800-F-I	M5900-F-I	M6000-F-I
Profile	1U	1U	1U	1U	1U	1U	2U	2U	2U	2U	2U
RAM	4G	4G	4G	4G	4G	4G	4G	8G	16G	24G	32G
HD Capacity	SSD 64GB	SSD 64GB	SSD 64GB	SSD 64GB	SSD 64 GB	SSD 128 GB	1 TB	1 TB	1 TB +4G CF	1 TB +4G CF	1 TB +4G CF
Firewall Throughput*	2 Gbps	2 Gbps	3 Gbps	3 Gbps	6 Gbps	8 Gbps	12 Gbps	18 Gbps	20 Gbps	40 Gbps	80 Gbps
IPS + WAF Throughput (HTTP)	550 Mbps	550 Mbps	850 Mbps	850 Mbps	950 Mbps	1.7 Gbps	3 Gbps	8 Gbps	12 Gbps	20 Gbps	40 Gbps
IPS or WAF Throughput (HTTP)	1 Gbps	1 Gbps	2 Gbps	2 Gbps	3.6 Gbps	5.4 Gbps	8 Gbps	12 Gbps	15 Gbps	20 Gbps	40 Gbps
IPsec VPN Throughput	250 Mbps	250 Mbps	375 Mbps	375 Mbps	1 Gbps	1.25 Gbps	2 Gbps	3 Gbps	3.75 Gbps	5 Gbps	5 Gbps
Max IPsec VPN Tunnels	300	300	500	500	1000	1500	3000	4000	5000	10000	10000
Concurrent Connections (TCP)	250,000	250,000	1,000,000	1,000,000	1,500,000	2,200,000	3,000,000	4,000,000	8,000,000	12,000,000	16,000,000
New Connections (TCP)	50,000	50,000	60,000	60,000	100,000	110,000	220,000	300,000	330,000	450,000	600,000

Power and Hardware Specifications											
Model	M5100-F-I	M5150-F-I	M5200-F-I	M5250-F-I	M5300-F-I	M5400-F-I	M5500-F-I	M5600-F-I	M5800-F-I	M5900-F-I	M6000-F-I
Support Dual Power Supplies	N/A	N/A	N/A	N/A	N/A	N/A	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Power [Watt] (Max)	60W	60W	100W	100W	100W	250W	300W	300W	500W	500W	500W
Temperature		0~40°C									
System Weight	3.85Kg	3.85Kg	3.85Kg	3.85Kg	6.65Kg	6.65Kg	20.0Kg	20.0Kg	20.0Kg	20.0Kg	20.0Kg
System Dimensions (mm³)	300x430x44.5	300x430x44.5	300x430x44.5	300x430x44.5	300x430x44.5	375x430x44.5	440x500x89	440x600x90	440x600x90	440x600x90	440x600x90
Relative Humidity		5%~95% non-condensing									
Compliance & Certificates		CE, FCC									

Network Interfaces											
Model	M5100-F-I	M5150-F-I	M5200-F-I	M5250-F-I	M5300-F-I	M5400-F-I	M5500-F-I	M5600-F-I	M5800-F-I	M5900-F-I	M6000-F-I
Bypass (Copper)	1 pair	1 pair	1 pair	1 pair	2 pairs	4 pairs	3 pairs	5 pairs	4 pairs	2 pairs	4 pairs
10/100/1000 Base-T	4	6	6	6	6	6	8	6	4	4	8
SFP	N/A	N/A	N/A	2	2	4	2	4	8	4	8
10G Fiber SFP	N/A	2	2	2	4						
Optional Interface & 10G Fiber SFP*	N/A	N/A	N/A	N/A	N/A	N/A	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Serial Port	RJ45×1	RJ45×1	RJ45×1	RJ45×1	RJ45×1						
USB Port	2	2	2	2	2	2	2	2	2	2	2

* "Optional Interface & 10G Fiber SFP" allows upgrading interfaces according to your requirement.

** M5100-F-I are available with 6 interfaces platforms with corresponding cost.

All performance values are "up to" and vary depending on the system configuration.

vNGAF SANGFOR Virtual NGAF (HCI PLATFORM)

Model	vAF100	vAF200	vAF400	vAF800	vAF1600
Throughput	200 Mbps	400 Mbps	800 Mbps	1600 Mbps	3200 Mbps
Concurrent Connection (TCP)	500,000	1,000,000	2,000,000	4,000,000	4,000,000
New Connections (TCP)	10,000	20,000	50,000	80,000	80,000

System Requirements

System Requirements	vAF100	vAF200	vAF400
Virtualization Platform	SANGFOR HCI	SANGFOR HCI	SANGFOR HCI
CPU	Min. 1-Core Processor	Min. 2-Core Processor	Min. 4-Core Processor
Memory	2GB	4GB	8GB
Disk Space	32GB	32GB	32GB

System Requirements	vAF800	vAF1600
Virtualization Platform	SANGFOR HCI	SANGFOR HCI
CPU	Min. 8-Core Processor	Min. 8-Core Processor
Memory	16GB	16GB
Disk Space	32GB	32GB



SANGFOR NGAF Product Features

Firewall

- Networking Policy routing, static routing, RIP v1/2, OSPF, BGP, and GRE.
- Application policy-based forwarding, NAT (1-1 NAT, many-to-one NAT, NAT46, NAT64, and many-to-few NAT), VLAN tagging
- IPv6 & IPv4 supported
- Support multi cast traffic, SNMP v3, and Syslog server with UTF-8 format
- Intelligent Dos/ DDos prevention
- ARP spoofing prevention HA fail-over time less than 1 second
- Support at least 10000 security policies
- Policies basis with "first come first match"
- Provide management via SSH, HTTPS, CLI, and Web-based GUI
- . SSL VPN
- IPsec VPN
- IPSec Protocol: AH, ESP
- D-H Group: MODP768 Group(1), MODP1024 Group(2), MODP1536 Group(5)
- IPSec Authentication Algorithm: MD5, SHA-1, SHA-2, SM3
- IPSec Encryption Algorithm: DES, 3DES, AES-128, AES-256. SANGFOR_DES, SCB2_SM4
- Auto VPN, support creating and manage VPN connection from Central Management Console Support SDWAN path selection policy

Threats Prevention

Full SSL inspection

- SSL inspection to all security modules including IPS, WAF, ATP, Access control, etc.
- Cross-module intelligent correction
 Policy association of IPS, WAF and APT prevention modules.
 Cross-module visibility reporting analysis
- Threats prevention
- APT (Advanced Persistent Threat), Remote Access Trojan, Botnet, malware detection
- Cloud-based Sandbox threats analysis
- Al based malware detection engine, covering threats type of Trojan, AdWare, Malware, Spy, Backdoor, Worm, Exploit, Hacktool, Virus, etc.
- Use cloud intelligence to prevent unknown and advanced threat.
- Anti-virus
- Scan and kill viruses infecting HTTP, FTP, SMTP and POP3 traffic as well as viruses infecting compressed data packets
- Support remove virus from detected malicious files
- Email security
- Categorize and filter various forms of malicious emails. Support detection deep into email body and attachments
- Support place warning messages into email title to avoid users from opening malicious emails

IPS

- IPS signature database
- Prevention against vulnerability exploits towards various system, application, middleware, database, explorer, telnet, DNS, etc. Employ cloud-based analysis engine
- Allow custom IPS rules Database update once a week
- Certificate and partnership
 Common Vulnerabilities and Exposures (CVE) compatibility certificated
 Microsoft Active Protections Program (MAPP) partnership

Risk Assessment and Security Service

- Risk assessment
- Scan and identify security loopholes such as open port, system vulnerabilities, weak passwords, etc.
- Web scanner
- On-demand scanning of targeted website/URL to discover the system vulnerabilities.
- Real-time vulnerability scanner - Discover vulnerabilities in real-time and protection against 0-days attacks
- SANGFOR threat intelligence service Threat intelligence to deliver the latest vulnerabilities, malware and security incidents information with advisory alerts for policy creation

Web Application Firewall

- Web-based attack prevention
 Support SNORT based and semantic detection engine to
 Defend against the 10 top major web-based attacks identified by the Open
 Web Application Security Project (OWASP)
 Web-based attack rules database
 Support custom WAF rules

- Parameters protection
 Proactive protection of automatic parameter learning
- Application hiding
 Hide the sensitive application information to prevent hackers from mounting targeted attacks with the feedback information from the applications
- Password protection
 Weak password detection and brute-force attack prevention

- Privilege control
 File upload restriction of file type blacklist
 Specify access privilege of sensitive URL such as the admin page for risk
 prevention
- Buffer overflow detection Defend against buffer overflow attacks
- Detection of HTTP anomalies
 Analyze anomalies of the fields of the HTTP protocol via single parsing
- Secondary authentication for server access
 Server access verification by IP address restriction and mail authentication

Data Leakage Prevention

- Data leakage detection and prevention
- Control and detection over multiple types of sensitive information (customizable)including user information, email account information, MD5 encrypted passwords, bank card numbers, identity card numbers, social insurance accounts, credit card numbers, and mobile phone numbers
- File downloading control Restrict suspicious file downloading

User Access Management

User identity;

- Mapping by IP, MAC, IP/MAC binding, hostname and USB-Key. User account import from CSV file and LDAP Server. SSO integration with AD domain, proxy, POP3 and WEB

- Internet content classification
 Cloud-based URL/APP classification engine
- Access control
- Policy configuration oriented toward users and applications for web filter, application control and bandwidth management

Visibility Reporting

- · Built-in report center
- Full visibility to network, endpoint and business servers with multi-dimensional analysis of risks, vulnerabilities, attacks, threats and behaviours
- Threats analysis for specific attack by Description, Target, Solution Support visualization into cyber kill chain
- Business Systems based reporting
- Report subscription
- Support PDE format and automatically send to pre-defined mailbox on daily/weekly/monthly basis

Deployment

- Configuration Wizard
 Guideline for deployment and policy configuration
- Deployment
 - Gateway (Route mode) | Bridge mode | Bypass mode | Multiple Bridge (2- 4 bridges)
- High Availability
 Active-Active | Active-Passive
- Bypass Hardware bypass in the event of hardware failure
- Central Management
- Support central management of multiple NGAFs Support quick deployment from Central Management Console

Sangfor Technologies



Sangfor Technologies is the leading global vendor for IT infrastructure solutions. They specialize in Cloud Computing & Network Security with a wide range of products including: Hyper-Converged Infrastructure, Virtual Desktop Infrastructure, Next Generation Application Firewall, Internet Access Management, WAN Optimization, SSL & IPSec VPN and many others.

Through constant innovation, Sangfor always strives to create value for our customers by helping them achieve sustainable growth. We take customers' business needs and user experience very seriously, placing them at the heart of our corporate strategy.

Established in 2000, Sangfor currently has 3,500+ employees with more than 60 branch offices in the world in exciting locations like Hong Kong, Malaysia, Thailand, Indonesia, Singapore, Philippines, Vietnam, Myanmar, Pakistan, UAE and the USA.

Awards & Achievements



- "Technology Fast 500 Asia Pacific Region" Award for 8 consecutive years from 2005 to 2012 by Deloitte.
 Reviewed by NSS Labs with a "Recommended" rating in 2014 for SANGFOR NGAF (WAF test).
- Sangfor SSL VPN no. 1 in Network Security market in China, Hong Kong & Taiwan according to F&S.
- No. 1 for Secure Content Management Hardware and VPN Hardware segment in China according to IDC.
- Sangfor IAM listed for 6 consecutive years in the Gartner MQ for Secure Web Gateways (2011-2017).
- Sangfor WANO listed for 3 consecutive years in the Gartner MQ for WAN Optimization (2013-2016).
- Sangfor NGAF listed in the Enterprise Network Firewalls MQ by Gartner (2015-2017).
- Sangfor HCI listed in the x86 Server Virtualization Infrastructure MQ by Gartner (2016).
- ICSA Labs certification for SANGFOR Next Generation Firewall (2016).
- "Most Promising Network Security Solution" in June 2016 by Singapore NetworkWorld Asia.
- "Readers Choice Awards for Enterprise Security" in October 2016 by Computerworld Malaysia.

Our Notable Clients





SANGFOR NGAF FIREWALL PLATFORM

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AVAILABLE SOLUTIONS

IAM	Simplify User & Network Management
NGAF	Smarter Security Powered By Al
SD-WAN	Boost Your Branch Business With Sangfor
WANO	Enjoy a LAN Speed on your WAN
HCI	Driving Hyperconvergence to Fully Converged
aCLOUD	Enterprise Cloud Built on HCI
VDI	Ultimate User Experience that Beats PC
aBOS	The World First NFV Converged Gateway
BBC	Centralized Management Platform





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Our Social Networks :

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2	https://twitter.com/SANGFOR
n	https://www.linkedin.com/company/sangfor-technologies
3	https://www.facebook.com/Sangfor
Ð	https://plus.google.com/+SangforTechnologies
ou Ilte	http://www.youtube.com/user/SangforTechnologies

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