



SANGFOR



SANGFOR INTERNET ACCESS MANAGEMENT

Increased Visibility

Enhanced Management

Value-Added Marketing



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SANGFOR Internet Access Management Solution

Internet has become a vital platform for most businesses as more and more mission-critical applications have been deployed over the Internet. However with great opportunities come great challenges.

IT departments are often neglected as they are only seen as a cost, rather than an investment. Improving user experience and work efficiency, blocking illegal endpoints, reducing bandwidth consumption, guarding intellectual property rights, protecting against malware and implementing internet access compliance have become the main challenges for IT managers. Moreover, with the rise of the BYOD (Bring Your Own Device) trend in work environment, superior enterprise Internet management tools are needed more urgently than ever for the overburdened IT department.

SANGFOR Internet Access Management (IAM) is the ideal solution designed to tackle enterprise network challenges which offer simple and reliable Internet access control.

With SANGFOR IAM, you can also transform your wireless network into a Marketing Tool, which can allow you to generate more revenue through advertisements and better understand your customer's behavior.



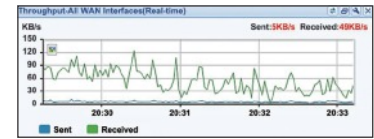
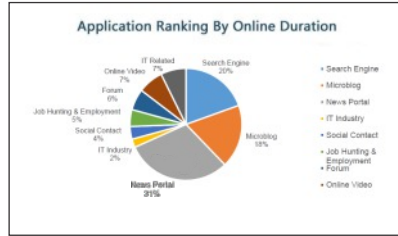
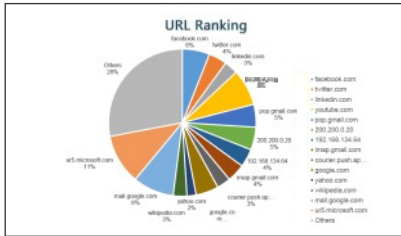
Intuitive Reporting

Advanced Report Center: Accurate Traffic Reporting and Graphs
Content Visibility and Auditing: IM, Emails and Social Networks

“You can't manage what you can't see” describes the challenges and risks of a modern enterprise network and makes the Report Center a critical component for IT department to analyze network traffics. SANGFOR IAM is built with an Advanced Report Center which supports various customized report based on traffic statistics, queries, ranking, times and behavior of user & user groups, helping enterprises analyze the root causes of all network issues.

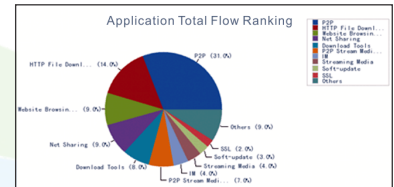
At the same time, as information and data are becoming key assets, enterprises are paying more attention to prevent potential information leakage and disruptive network activities. SANGFOR IAM can realize refined content auditing for common IM programs (Instant Messenger such as Yahoo Messenger, Skype, Gtalk), emails and social network platforms (Facebook, Twitter, etc.).

Advanced Report Center



No.	App Type	Uplink	Download	Percent
1	Website Browsers	42.45(Kb/s)	659.86(Kb/s)	75.9%
2	ICMP Protocol	11.27(Kb/s)	848(b/s)	20.1%
3	Skype	1.33(Kb/s)	9.06(Kb/s)	2.4%
4	Skype Receive File	480(b/s)	488(b/s)	0.8%
5	Networkmapers	432(b/s)	0(b/s)	0.8%

The above graphics are available in the Control Panel of IAM : URL Ranking, Application Ranking/Duration, Real Time WAN Throughput and Application Flow Ranking.



The above graphics are available in the Control Panel of IAM : Group Stream Trend Detail, Internet Application (IM Action Trend) and Application Total Flow Ranking.

IAM Advanced Report Center records, audits and counts every single network behavior of intranet users in graphical reports. With reports, curves and statistics, IT managers are provided with all the detailed information they need to know about their network, including Internet access activities, bandwidth consumption and viewed contents. Reports are self-generated by the device and automatically & regularly sent to an appointed e-mail address to effectively assist in the network design, secure it and optimize the usage of traffic.



BM & User Access Control

Bandwidth Management: Guarantee Enough Bandwidth for Critical Applications

Account Management: Avoid Abuse by Restricting Total Number of Devices

Application Control : Protect Enterprises Against Unauthorized Applications

URL Filtering: Monitor & Control Evasive Activities

Endpoint Control: Management of Mobiles Devices

Internet is evolving exponentially with thousands of new websites and applications emerging daily. Some of them are non-work related and if the enterprise has not set any control policy, it will reduce employees work productivity and occupy much more bandwidth resource, which can bring network security risks and non-compliance risks. In order to solve these issues, SANGFOR IAM is built with an URL database and application database, which can help IT administrators to effectively control users online behavior by setting specific policies.

At the same time, as the BYOD trend is becoming more and more popular, mobile devices should be also included in the enterprise network management policy. IAM can control mobile devices by identifying and applying specific access and control policies, according to the device OS, group and location. It unifies the management for both LAN and WLAN.

SANGFOR IAM can also detect and block illegal Wi-Fi hotspots to avoid any information leakage from your laptop, smartphones or tablets. A wireless endpoints list will display which endpoint is using an illegal Wi-Fi hotspot and the IT team can decide whether to block it or not.



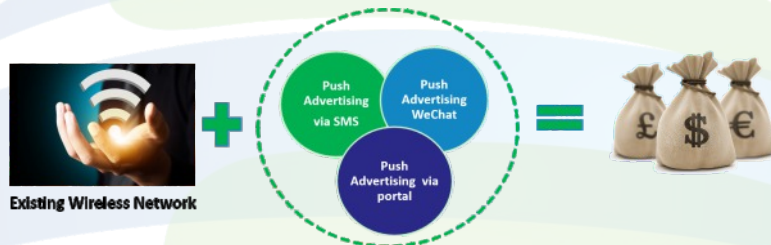
Value-Added Marketing

Authentication & Push Advertising based on SMS

Authentication & Push Advertising based on Portal

Authentication & Push Advertising based on Social Media

Most of the shopping centers, restaurants, hotels, etc. are now providing Free Wi-Fi to their customers. Free Wi-Fi is now the trend and it can be an important criteria when choosing a place to spend time. So why not transform your Wi-Fi into a Marketing Tool, which can bring more revenue and increase your marketing campaigns effectiveness? With the multiple authentication methods provided for Wireless access, you can also ensure that your customers are connected to a secured network environment.



Authentication & Push Advertising based on SMS

One of the most fastest way and common way to collect customers information is by collecting their phone number. When connecting to the Wi-Fi access point, the login page will ask the customers to insert their phone number to access the internet. Thanks to that, you can now send advertisements to your customers through SMS or by calling them.



Enter your phone number to access Free Wi-Fi !



Let me send a Thank You & Promotion message to our customers who used our Wi-Fi this month !

Authentication & Push Advertising based on Portal

Another common solution to collect customers information is to redirect them to a customized Portal page after they successfully connected to your Wi-Fi. This Portal can be customized with any kind of information such as today's promotions, new products or services, etc.



Authentication & Push Advertising based on Social Media

Facebook, Line, WeChat are the fastest growing social media platforms in Asia. They can now be used as a way to authenticate to your Wi-Fi and at the same time, increase your number of followers. More importantly, you can now push information and reach a larger number of people.

SANGFOR IAM Product Family

Model	S5000	M5000	M5100	M5400	M5500	M5600	M5900	M6000	M9000
Profile	Desktop	1U	1U	1U	2U	2U	2U	2U	2U
HD Capacity	64G SSD	128G SSD	128G SSD	500GB	500GB	500GB	500GB	500GB	500GB+ 4G CF
FW Throughput ¹	100 Mbps	150 Mbps	250 Mbps	1.2 Gbps	2 Gbps	2.5 Gbps	3.5 Gbps	6.0 Gbps	20 Gbps
Application Layer Throughput ¹	20 Mbps	60 Mbps	120 Mbps	240 Mbps	600 Mbps	1.2 Gbps	2 Gbps	4 Gbps	10 Gbps
Recommended Concurrent Users	50 PCs~ 100 Mob.	100 PCs~ 100 Mob.	100~300	300~600	600 ~3000	3000 ~6000	6000 ~10000	10000 ~15000	15000 ~50000

¹: Represents the maximum bidirectional flow (max. inbound + outbound flow).

Power and Physical Specifications									
Dual Power Supplies	N/A	N/A	N/A	N/A	N/A	YES	YES	YES	YES
Power [Watt] (Typical)	22W	25W	25W	180W	180W	212W	212W	212W	325W
Temperature	0°C~40°C	0°C~40°C	0°C~40°C	0°C~40°C	0°C~40°C	0°C~40°C	0°C~40°C	0°C~40°C	0°C~40°C
System Dimensions (W x L x H in mm)	275x175x 44.5	430x300 x44.5	430x300 x44.5	430x390x 44.5	430x500 x89	430x500 x89	440x600 x89	440x600 x89	440x600 x89
System Weight	1.7 Kg	3.85 Kg	4.2 Kg	6.65 Kg	15.3 Kg	15.3 Kg	20.0 Kg	20.0 Kg	20.0 Kg
Relative Humidity	5%~95% non-condensing								

Network Interfaces									
Bypass (copper)	N/A	1 pair	1 pair	3 pairs	3 pairs	3 pairs	2 pairs	2 pairs	2 pairs
10/100/1000 Base-T	3	4	4	6	6	6	4	4	4
1G SFP	N/A	N/A	N/A	N/A	2	4	4	4	4
10GbE SFP+	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2
Serial Port	RJ45x1	RJ45x1	RJ45x1	RJ45x1	RJ45x1	RJ45x1	RJ45x1	RJ45x1	RJ45x1
USB Port	2	2	2	2	2	2	2	2	2

Compliance and Certificates									
Compliance	CE, FCC, IPv6 Ready								

- 1) Products specifications described herein are subject to change without prior notification.
- 2) Please contact your local SANGFOR office for more information and support.
- 3) All performance values are "up to" and vary depending on the system configuration.

SANGFOR Internet Access Management (IAM) Product Features

User Authentication and Management

Mapping and Identifying Users	IP, MAC, IP/MAC binding, hostname, USB Key, SMS, QR-Code, Portal, WeChat.
User Accounts Importing	- Import user accounts information using CSV file, LDAP Server. - Synchronize user with LDAP, Database and H3C CAMS Server.
Integration and SSO Option	Active Directory/POP3/Proxy/Web Server, Radius, Third-party authentication device, Database Server. - Automatically map new user to its privileged groups in local database based on its IP range, subnet or external authentication server group.
New User Management	- Automatically map new users to a pre-defined privileged group as temporary accounts.
Account Attribution	Public (Share user login)/ Private (Single user login) account option.
Wireless Auth. Methods	SMS/WeChat/QR-Code/ Portal

Access Control

Application Control	Identify and control applications through application DB or port.
URL Filter	URL DB, keyword in web-page based control.
Search Engine Control	Managed by keywords.
Enhanced Email Control	Managed by source address, destination address, keywords in email, keywords in body/title, attachment, type/size/count based control.
Enhanced IM Control	Comprehensive management to IM tools such as MSN, Yahoo!, as well as encrypted IM such as Skype, Gtalk, MSNShell, etc.
File Filter	Control HTTP, FTP upload and download activity based on true file type.
SSL Traffic Control	Certificate, text content based control and filter.

Illegal Wi-Fi Detection and Blocking

Illegal Wi-Fi Detection and Blocking	Detect the endpoint information from every IP address.
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Bandwidth Management (BM)

BM Policy	Traffic guarantee/limit policy for uplink and/or downlink base on bandwidth percentage of the pipe, max bandwidth per user, user/application priority, exclusion policy.
BM Objects	Application type, website type, file type, user, schedule, destination IP, etc.
Bandwidth Guarantee & Limitation	Allocate bandwidth resource according to business type & guarantee bandwidth for core business applications and restrict irrelevant traffic.
Multi-level SON Channel	Match the organizational structure to achieve fine-grained bandwidth management.
Dynamic Bandwidth Management	- "Bandwidth Borrowing" among BM tunnel for full bandwidth utilization. Specify a network flow thresholds as effective points of BM policy. - BM based on public IP (oversea). - Average allocation/free competition among users in a single traffic pipe.
Virtual Line	Manage and control to each physical line independently and effectively in bridge mode.
Multiplexing and Intelligent Routing	Provide link load balancing in router mode.

Traffic Identification and Categorization

Sangfor URL Database	- Leverage on-the-cloud infrastructure, dynamically categorizes millions URLs into the predefine categories. - Support configurable in-box cache footprint.
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Third Party URL Database	Optional URL database.
Application Database	Independent Internet application signatures database.
Intelligent Identification Rules	Identify P2P/Proxy tools/VOIP/SSL traffic intelligently through dynamic flow characteristics analysis.
File Type Identification	- By extension name - By file type (data pattern)

Report Center

Report Objects	Application flow, user behavior counts, online duration per user & per application, virus and security, keywords, etc.
Graphical Reports	Counts, ranking, comparison, trends analysis with statistics, pie, bar, line chart, etc.
Real-Time Report	Real-time monitor of CPU/hard disk/traffic/connection/session status, online user information, traffic ranking, connection ranking, real-time utilization, visibility of bandwidth channels.
Content Log	Content log including IM chat (Gtalk, Skype, QQ, MSN, Yahoo! Messenger, etc.), SMTP and Web mail content and attachment (Gmail, Yahoo, etc.), BBS posts (Facebook, Twitter), etc.
Customizable Risk Report	Employee turnover trend, disclosure, work efficiency, security risks and other risk reports.
CIO Report	Tailored reports of overall network analysis and risk management for CIO.
Web-Access Connection Quality Report	Used for clear evaluation of the overall network quality. Users with poor web access quality can be listed down.
Report Format	CSV, PDF.
Report center storage	Optional internal (built-in) report center and external report center. - Option to protect the report center by using external authentication key for additional security. - "Google Like" search engine GUI for external report center. - Email subscription.
External reports storage security	

Control Tools for Manageability

Notification (Reminder)	Notify end user for online time of specific application and the flow speed of specific application.
Flow/Duration Control	Daily/Monthly flow quota per user. Daily online duration quota per user with exception case based on specific application. Concurrent session quota per user.
Endpoint security compliance	Operation system, process, registry, scheduled task, etc.
Audit-Free Key	Prevents access audits and control for users that assigned with audit-free keys.
Audit-Log Key	Only the user with the audit-log key can check the network logs to avoid privacy issue.
Hierarchical Administration	Functionality of different modules can be assigned to different administrators as needed, via a hierarchical management paradigm. Administration of different functions and modules can be delegated to different administrative groups.

Network and Deployment

Centralized Management	Unified the configuration and policy for multiple devices, remote control and monitor running status.
LAN+WLAN Management	Set special control policy for mobile user based on user & location. Suitable for BYOD office environment.
Security modules	- Built-in Firewall. - Built-in IPsec VPN.
Deployment	Route, Bridge, Double bridge, Bypass.
Stability	Hardware bypass, A/A, A/P.
IPv6	- Support deployment in IPv6 environment. - Support monitoring of IPv6 traffic.
Integrity	Support SNMP.

*M5900-AC-I and M6000-AC-I supports Bridge, Double Bridge, and Bypass mode.

Please do not hesitate to contact us by email or by phone if you need more information about our IAM features.

SANGFOR TECHNOLOGIES

SANGFOR is the leading vendor of Application Security, Optimization and Internet Access Management in Asia. Founded in 2000, SANGFOR set a clear goal to build high performance, reliable and secure network devices that increase the business growth of our clients and at the same time decrease their Total Cost of Ownership (TCO).

SANGFOR currently has 55 representative offices located in major cities of mainland China, Hong Kong, Singapore, Malaysia, Indonesia, Thailand, United Kingdom and United States of America, with over 2000 employees, which 40% of them are dedicated to R&D.

In 2014, SANGFOR has got a record-breaking income and has continuously invested 20% of the revenue into R&D each year. So far, SANGFOR has provided solutions to over 28,000 businesses partners in various industries, among which lists a number of Fortune 500 companies, as well as hundreds of local government departments and famous education institutions.

Awards & Achievements

- “Technology Fast 500 Asia Pacific Region” Award for 8 consecutive years from 2005 to 2012 by Deloitte.
- “Best Companies to Work for in China” Award from 2009 to 2011 by the Fortune Magazine.
- “Best Practice Award in Asia-Pacific Region” in 2010 by Frost & Sullivan.
- “Management Action Award” in 2012 by Harvard Business Review.
- “Business Security Contribution” Award in 2010 by Communication World.
- Sangfor SSL VPN no. 1 in Network Security market in Mainland China, Hong Kong & Taiwan according to Frost & Sullivan.
- No.1 for Secure Content Management Hardware and VPN Hardware segment in China according to IDC.
- Sangfor IAM listed for 5 consecutive years in the Gartner Magic Quadrant for Secure Web Gateways (2011-2015).
- Sangfor WANO listed for 3 consecutive years in the Gartner Magic Quadrant for WAN Optimization (2013-2015).
- Sangfor NGFW listed in the Enterprise Network Firewalls Magic Quadrant by Gartner (2015).
- Reviewed by NSS Labs with a “Recommended” rating in 2014 for SANGFOR NGFW (WAF test).

Vision

Become the Global Leading Vendor of Advanced Network Solutions.

Mission

Provide Network Innovation, Focus on Network Security, Optimization and Virtualization.

Values

- Continuous Innovation
- Collective Commitment
- Customer & Result Oriented
- Caring for Employees

Our Notable Clients





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AVAILABLE SOLUTIONS

- IAM : Take Back Control of your Network
- WANO : LAN Speed on your WAN
- NGAF : Best Value for Money
- EasyConnect: Rapid, Secure & Simple

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