



# Internet Access Management

Internet enables organizations to reduce operational cost while brings in a great number of commercial opportunities. However, the lack of proper Internet access management may pose numerous troubles to the organizations. Internal users can browse social websites, chat about private things and do other recreational activities during the business hour, these will lead to the drop of work efficiency and decrease of turnovers. Besides, lack of Internet access management may also cause bandwidth abuse, data loss, legal issues, inappropriate accesses, network security and other problems.

With features of user authentication, web filtering, application control, bandwidth management, caching, Internet traffic reporting and logging, the IAM offers an effective solution of Internet traffic visibility, control and optimization, hence to create a manageable, fast Internet access environment while simplify the network infrastructure.

**SANGFOR Internet Access Management (IAM) series is designed to meet challenges from the evolving Internet and ensure effective utilization of the Internet resources.**



**SANGFOR**

## SANGFOR Internet Access Management

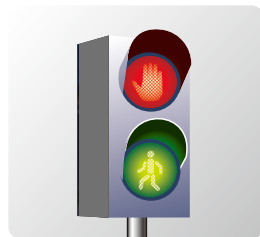
Monitor, control and optimize the Internet access



### • Monitoring the Internet Access Traffic

#### Full network visibility for risk analysis

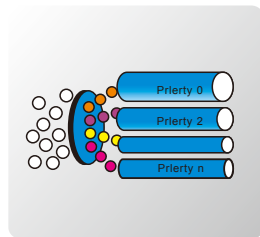
SANGFOR IAM identifies, categorizes and logs the internal users' access activities, bandwidth consumption and also the related content to enable full traffic visibility. With its unparalleled reporting capabilities, the IAM manages to show an accurate map of network traffic, thus to help organizations know the application's bandwidth usage and internal users' access activities and help to analyze risks.



### • Controlling the Internet Access Activities

#### Control the unwanted Internet accesses to reduce risks

Based on strong identification capabilities and full traffic visibility, IAM provides comprehensive controls over applications such as social website, forums, IM, Email, online video, P2P, file transferring, etc. The flexible controls allow you to manage the Internet access the way you want, thus, frees you from the challenges of low work efficiency, data loss, copy right, and other risks that caused by improper Internet access.



### • Optimizing Internet Access Speed

#### Access optimization to accelerate your Internet access speed

IAM's well-reputed bandwidth management solution is designed to help organizations to maximize the bandwidth usage, the result of which is more bandwidth for critical business applications/users/user groups while less bandwidth for inappropriate activities. Furthermore, IAM combines its caching feature to reduce up to 30%-50% of the Internet traffic, significantly enhancing the access speed while reducing the bandwidth cost.

Based on eight years of real world research and development in core networking technologies, as well as a fully optimized systems architecture and a high-performance hardware platform, the SANGFOR IAM series is far more advanced than comparable offerings. The IAM products can govern networks of more than 20,000 users and 2Gbps bandwidth.



## SANGFOR Internet Access Management Solution

Solution that is developed based on 8 years of real world research and 8000 customers' Internet access management experiences

### Monitor the Internet Access Traffic

With "management policies come after traffic visibility" bearing in mind, SANGFOR leverages its innovations in analyzing the data packet and identifying the Internet traffic, thus to provide full traffic visibility.

#### • Identification

The Internet is always evolving quickly. Thousands of Internet sites are emerging daily; More and more sites are been encrypted; One website that used to be one kind of webpage now can carry multiple applications and those applications may be related to business and also recreational activities...

Giving the increasingly complex Internet environment, the IAM specially enhanced its capability to identify and categorize the traffic into the most detailed level, even for the encrypted traffic such as https websites, Gmail, Skype and the related content, etc. The IAM's identification capability enables total traffic transparency. Furthermore, to offer clearer traffic visibility, IAM also leverages its user identification technology to seamlessly combine with the organization's authentication servers, such as AD, LDAP, Radius, POP3, Proxy, etc. The strong identification capability of IAM has offered a solid base to effective management policies.





## Optimize the Internet Access Speed

Caching combines with bandwidth management to greatly accelerate the access speed.

### • Bandwidth Management

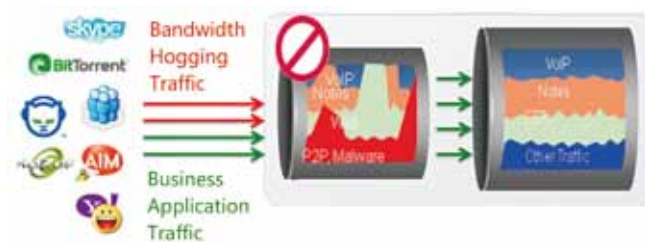
To guarantee effective bandwidth usage, SANGFOR IAM allocates the bandwidth based on the application/file type/website/user/group/schedule according to bandwidth management policies and business requirements.



Furthermore, the IAM leverages its advanced technology such as “virtual line”, “virtual pipe” and “dynamic

bandwidth control” to offer the most professional bandwidth management solution. The “virtual line” visualizes one link into multiple virtual links and each virtual links can be applied with independent traffic shaping policies. The “virtual pipe” allows the traffic shaping pipes to be divided into 8 layers to offer better flexibility. The “dynamic bandwidth control” allows “bandwidth borrowing” to optimize the bandwidth usage. All policies can be applied to uplink as well as downlink.

In case that organizations may have multi-lines that connecting to the Internet, the IAM’s multi-lines and intelligent routing feature will allocate the best output for users automatically when Intranet users are visiting the resources of different ISP operators. To guarantee stability, IAM can also lead the traffic to the other healthy lines automatically when one line is interrupted.



### • Caching for Performance Enhancement

Benefiting from SANGFOR IAM’s caching technology, the frequently accessed webpage, files and videos are cached in IAM appliance. When internal users visit these websites or watch these videos, they will get the data from IAM’s cache rather than directly from the servers in Internet, thus to cut up to 30%-50% of the bandwidth flow and greatly accelerate the access speed.

## Solution Highlights

### Visibility

#### Full network visibility for risk analysis

- Layer 7 visibility based on DPI+DFI+behaviour analysis
- Https traffic visibility
- Visibility to activity, traffic, time (online duration) and also content
- Highly customized reports
- Internal/External Data Center

### Control

#### Control the unwanted Internet accesses to reduce risks

- Seamless combination with LDAP, AD, Radius, POP3, and Proxy
- In-cloud web filtering
- Granular Facebook, Gmail, Skype, Gtalk control
- Block/Filter/Audit/Report/Alert policies
- Policies based on user/schedule/outer IP, etc.

### Optimization

#### Access optimization to accelerate your Internet access speed

- P2P intelligent identification & control
- Traffic shaping to uplink and downlink
- “Virtual line”, “Virtual pipe” and “Dynamic bandwidth control”
- Multi-lines and Intelligent Routing
- Caching

\* Built-in SPI firewall, Proxy model, Anti-virus, IPSec VPN for branch office security solution

## Benefits

SANGFOR IAM helps you achieve complete management of your organization’s Internet access. By virtue of powerful functions and easy administration, SANGFOR IAM family delivers the most effective solutions for network visibility, control and optimization, thus helps you meet with the challenges of invisible network, low work efficiency, bandwidth inefficiency, data loss and others that brought by Internet, create an unified IT policy and boost productivity, making the Internet a better service for you.

