

SifoWorks D300 in Wuhan Longfa Steel Trading Co.

Success Story



BACKGROUND

Wuhan Longfa Steel Trading Co., Ltd. has a well organized corporate structure with almost 200 employees. To facilitate strategic planning and management for the whole organization, Longfa has set up centers for their sales, marketing, administration, human resource, finance and strategic investments groups. It is also planning a “Marketing Research Institute”.

Headquartered in Wuhan, 120 employees require online access for online trading, employee recruitment, goods declaration, etc. The company’s ERP server is located at headquarters, providing access services for branch offices all over the country and the company’s web server is open to the public.

To control the online behavior of employees during working hours, and to ensure security of the public servers, Longfa Steel Group employed O2Security’s SifoWorks D300 as its firewall solution.

ANALYSIS

Longfa Steel Trading Co.’s requirement Analysis

- Headquarters office employees’ online behavior during working hours will be controlled by the administrator: Finance employees will only be allowed online goods declaration; HR employees are allowed access to recruitment websites and are allowed to send/receive email; sales employees will be able to browse web portals like SINA, send/receive email, and use chat tools such as MSN. All employees will not be allowed to download or upload files and access online games and videos.
- The above restrictions are applicable during working hours (9am to 6pm). Internet access at any other time will not be monitored.
- Security for server groups that provide service to the public. ERP server is only open to employees from branch offices, while the web server is only accessible via port 80.
- Provide route functions for routing and NAT.

Customer

Wuhan Longfa Steel Trading Co., Ltd.

Industry

Trading Company, Agent,
Distributor/Wholesaler

Business Challenge

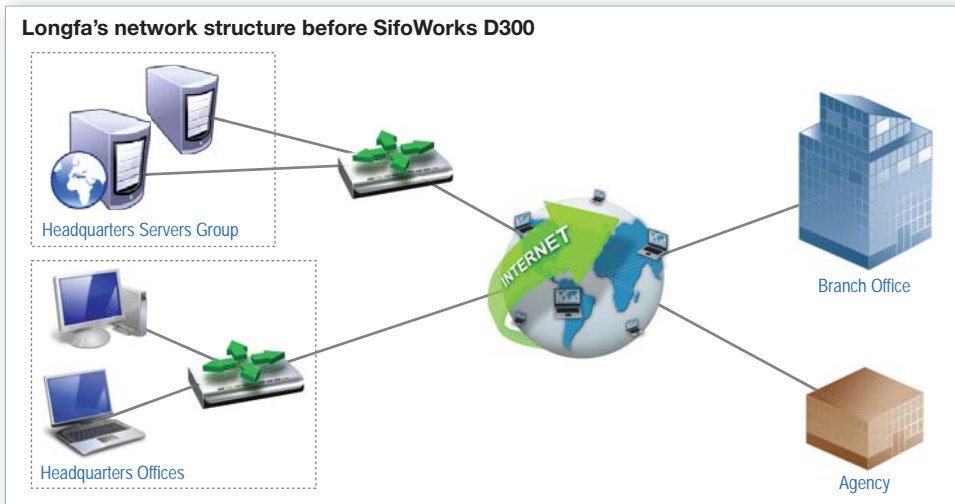
Administrators need the ability to control headquarters and office Internet usage: group access to certain sites and email privileges. Restrictions need to be setup between business hours 9am - 6pm.

O₂Security Solution

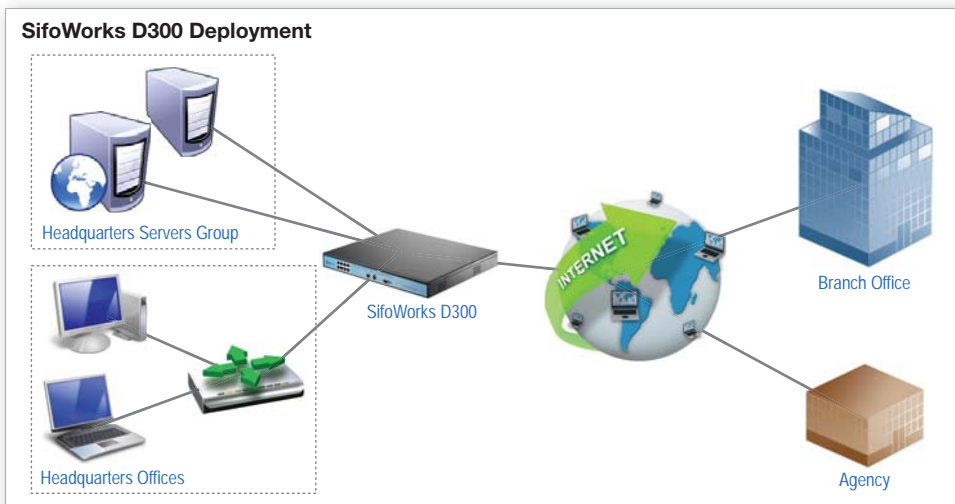
SifoWorks D300

Benefits

SifoWorks D300 is the best cost-to-performance choice for small-to-medium size enterprises. Its leading ASIC hardware architecture guarantees high network performance while its powerful functions provide comprehensive network protection.



DEPLOYMENT



Based on Longfa Steel Trading Co.'s needs, current network situation and investment budget, SifoWorks D300 firewall is the internet gateway solution to provide security for the company network.

During the deployment process and actual usage, O₂Security has been providing technical support to Longfa Steel Trading Co., including free software upgrades and guidance to the latest security technology, ensuring network security and stability.

1. SifoWorks D300 provides 7, 100M ports, the servers can connect directly to the firewall via eth1 and eth2, while internet can connect to eth0 and the switch's port is connected at eth3.
2. Configure eth0 as WAN, eth1 and eth2 as DMZ, and eth3 as LAN. Also configure the port IP addresses of WAN, LAN and DMZ.
3. Configure the default route for the firewall and gateways to all PC are pointed to SifoWork D300's LAN address. Configure the SNAT rules that enable the office PC's to go online, and also the DNAT rules that enable the servers in the server group to be accessed.
4. Designate IP addresses for each employee, dividing them into 3 network segments: Sales, HR and Finance. Bind the PC's MAC address.
5. Configure the URL filter white list, including all URLs that are accessible. Other URLs will be listed in the black list as inaccessible.
6. Activate the Intelligent Protocol Recognition function to restrict IM applications for certain employees. Activate SMTP and POP3 protocols.

7. Added a “From All, To All” filtering policy to prohibit BT, video, online games and other services.
8. Added a schedule: Monday to Friday, 9am to 6pm. To be applied to the above filtering policy.
9. Configure an ERP access policy that allows access from source IP belonging to branch offices and agency PCs.
10. Finally added a “From All, To All” policy for unrestricted online access for other times.

POST IMPLEMENTATION

After successful deployment of SifoWorks D300, the online behavior of employees was effectively monitored and controlled, resulting in a significant increase in employee productivity and at the same time reduced the risk of network virus attacks in the offices. For the security of the servers in the server group that provide external services, all traffic was transferred via the firewall, effectively blocking external scanning and attacks. This maintains the quality of service provided to the public.

SifoWorks D300 provides multiple ports and routing functions, removing costs for additional routers and server switches. SifoWorks DN (P) AT function allows all applications providing external services to be mapped onto a public IP, saving the cost of renting a public IP.

CONCLUSION

SifoWorks D300 is the best cost-to-performance choice for small-to-medium size enterprises. Its leading ASIC hardware architecture guarantees high network performance while its powerful functions such as IDS/IDP, content filtering, intelligent protocol recognition, route policies, etc. provide comprehensive network protection.

O2Security’s “customers-come-first” principle provides first rate technical support and a comprehensive post-sales system to our customers.

ABOUT O2SECURITY

O2Security Limited is a subsidiary company of industry-leading analog and digital IC chip designer O2Micro (NASDAQ: OIIM). O2Security provides complete, comprehensive security solutions that are easy to use and maintain. Since its inception in 2003, O2Security Ltd. has consistently developed highly-anticipated products that meet the needs of the network security industry. Nearly 70% of its research capital goes into developing new products and enhancing existing ones to meet current market trends.

O2Security Ltd. has service offices located in many regions around the world including; the United States, Taiwan, Singapore, Malaysia, Indonesia, Philippines, Vietnam, Thailand and various locations in China. This allows us to provide localized and on-site support to our clients, gather information on security issues and emerging market trends on a global scale, continually improve and develop new products in response to market changes and meet the needs of our customers.

SifoWorks D300’s simple and user-friendly user-interface greatly facilitates the management of the system. Comprehensive and detailed reports provide administrators and company executives to easily audit and monitor statistics, saving precious time. SifoWorks D300 earns a unanimous thumbs-up from company administrators and executives.

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