



EDUCATION

Helping Schools Secure Their Networks While Saving Their Budgets

SONICWALL[®]

Opportunities and Challenges

The Internet is forever changing education. It's opening up a world of opportunities, transforming how students learn and teachers teach. Today, even a one-room schoolhouse can be connected to the rest of the world. A student in Texas can tap into research resources in London. A group of kids in Rome can collaborate with another in Boston. And teachers and administrators can work more efficiently than ever.

But the Internet has a dark side, too. Lurking beyond your gateway are vast amounts of inappropriate Web content, malicious viruses and individuals looking to breach your school's network security.

Network risks

Nowadays, a school or district's network is at risk from the same viruses, worms and hacker attacks that plague businesses. Always-on broadband connections mean you must protect your network around the clock, seven days a week. Laptops expose you to viruses picked up from unsecured home networks. And if that weren't enough, your wireless network is probably relying on a flawed security protocol, which can easily be cracked with software downloaded from the Internet.

No Child Left Behind

Further complicating matters is the No Child Left Behind Act. With new requirements for reporting and accountability, schools are now building large data warehouses to store highly sensitive information—student grades, medical history and even Social Security numbers. Many parents are demanding easy access to their child's information, opening your network to potential security breaches.

Student hackers

And don't forget the students themselves. Besides the usual student hackers using tools they can easily access from the Web, you have to look out for vulnerabilities caused by popular activities like instant messaging and peer-to-peer file sharing. Programs like Kazaa and Morpheus not only eat up your valuable bandwidth, they also expose the network to backdoor attacks and expose the school to potential legal liability claims.

How can schools keep up?

It's clear schools need the same layers of network security technology that businesses use. But deploying multiple devices from different sources can be a real nightmare. While big business often solve these security problems with sizeable IT staffs and generous technology budgets, that just isn't an option for school districts. So what's the answer?

Affordable, integrated network security, from SonicWALL®.

SonicWALL Solutions for Education

Powerful security appliances

To meet these challenges, SonicWALL has developed fully integrated security appliances delivering everything you need to protect your network. We offer a range of products

"SonicWALL provides powerful, integrated Internet security solutions that address our needs. SonicWALL's complete solution eliminates integration and maintenance problems that come from using multiple vendors, resulting in significant infrastructure cost and manpower savings."

— Mike Cothren,
MIS Director,
Pulaski County Special School District, AK



and services, from affordable solutions tailored for smaller schools to powerful solutions with the capacity to serve an entire school district.

All SonicWALL security appliances feature deep packet inspection firewalls which act as the first line of defense against security breaches. Integrated IPSec virtual private networking (VPN) delivers a secure and affordable means of connecting remote locations or staff working from home.

Integrated services

To include additional layers of protection in your network, simply add one or more of our security services, such as content filtering, anti-virus, anti-spyware and intrusion prevention. These services run seamlessly on your SonicWALL security appliance under a unified management system. And with everything coming from one source, you won't run afoul of complications that pop up when multiple solutions from different vendors don't work well together. It all adds up to lower total cost of ownership.

Flexible, affordable content filtering

SonicWALL content filtering solutions offer the most affordable way to protect your students from harmful and inappropriate Web content. Our Content Filtering Service (CFS) is ideal for small to mid-sized school districts looking for a cost-effective, integrated solution. Running on all SonicWALL network security appliances, CFS features a continuously updated, comprehensive database of over 4 million Web sites, domains and IP addresses.

For school districts requiring a more full-featured service, SonicWALL's Content Security Manager (CSM) offers an affordable alternative to enterprise-class content management solutions. This dedicated in-line filtering appliance integrates seamlessly into virtually any network topology. It features dynamic onboard rating and controls instant messaging, peer-to-peer and multimedia applications.

Adding more protection, not costs

SonicWALL's Intrusion Prevention Service (IPS) uses a dynamically updated database of over 3,400+ attacks and vulnerabilities to put a stop to network attacks, malicious traffic, Trojans, and worms. It also closes possible backdoor network vulnerabilities by blocking peer-to-peer sharing, and instant messaging. Blocking such applications not only saves valuable network bandwidth it also reduces the legal liability associated with students illegally swapping music and other files.

SonicWALL's Enforced Client Anti-Virus and Anti-Spyware gives schools an automatically updated solution that eliminates time-consuming machine-by-machine anti-virus deployments and updates. Because students and teachers must have the latest updates running on their systems to access the Internet, you'll know you always have the highest level of protection.

Making wireless secure and affordable

Wireless networking offers many benefits for schools, from a cost-effective means of extending network access to the convenience of mobile computing carts. Yet the management and security challenges are considerable.

SonicWALL's Secure Distributed Wireless Solution makes these challenges a thing of the past. With a SonicWALL network security appliance acting as a gateway for up to 128 wireless access points, the management and security of your campus wireless network can be handled on the same platform used for your wired network.

SonicWALL also offers higher levels of wireless security, allowing the enforcement of robust IPSec VPN for all wireless traffic. Rogue access point detection neatly slams shut yet another wireless security backdoor. Finally, students and staff can enjoy secure extended wireless coverage with seamless roaming across the wireless network.

Tying it together with management and reporting

Integrated security demands an integrated approach to management. So our Global Management System (GMS) makes it easy for you to manage your complete security solution from one location. Configure firewall settings, deploy VPN to any user, add more layers of protection with additional services — all with the click of your mouse. You'll cut staffing needs, speed deployments and lower overall management costs.

GMS also includes ViewPoint reporting software, which produces graphical reports on all firewall and network activity, helping you fine-tune your security policies while demonstrating CIPA compliance.

“With the SonicWALL Global Management System, we can easily make on-the-fly changes, quickly pushing out security policy updates across the entire district. SonicWALL enables me to manage with a small staff – I don't need to send people to every school to implement firewall and filtering updates.”

— Dennis Peterson,
Technical Services Manager,
Kansas City School District, MO





SonicWALL Delivers Integrated, Cost-Effective Network Security Solutions

SonicWALL's family of network security appliances combines robust UTM security services with high-speed deep packet inspection to provide small, mid-size and large academic environments with the best protection possible. SonicWALL TZ, NSA and E-Class NSA appliances are engineered to reduce cost, risk and complexity by integrating automated and dynamic security capabilities for comprehensive protection and maximum performance.

■ SonicWALL E-Class NSA Series

The SonicWALL E-Class NSA Series features the industry's first network security appliances to perform RFDPI over specialized multi-core processors, delivering comprehensive state-of-the-art UTM without sacrificing network throughput. E-Class NSA is ideal for high-performance network security deployed across large and distributed campus environments.

■ SonicWALL NSA Series

The SonicWALL NSA Series brings the power and performance of multi-core RFDPI and comprehensive UTM to small-to-midsize academic environments. With advanced routing, stateful high-availability and high-speed VPN technology, the NSA Series adds security, reliability, functionality and productivity to main campuses, remote campuses and distributed mid-size academic networks, while minimizing cost and complexity.

■ SonicWALL TZ Series

The SonicWALL TZ Series integrates RFDPI, UTM, 802.11b/g secure wireless, and failover/failback into an easy-to-use, affordable solution. A complete security firewall for smaller educational institutions, the TZ Series is flexibly scalable for remote and WiFi campuses in larger distributed implementations.

SonicWALL Content Filtering Solutions

■ SonicWALL Content Filtering Service (CFS)

SonicWALL Content Filtering Service is ideal for school districts seeking a cost-effective, integrated filtering solution. This subscription-based service runs on all SonicWALL security appliances and leverages a dynamic database of millions of Web sites and IP addresses.

■ SonicWALL Content Security Manager

SonicWALL Content Security Manager offers an affordable alternative to enterprise-class content management solutions. It consists of a dedicated in-line filtering appliance which integrates into virtually any network topology. Features include dynamic onboard rating, built-in reporting functionality and the ability to block instant messaging, peer-to-peer and multimedia applications.

Scalable Integrated Solutions for Comprehensive Protection

SonicWALL complements its network security appliance line with a fully-scalable range of integrated Secure Remote Access (SRA), Email Security, and Backup and Recover solutions.

■ SonicWALL Secure Remote Access (SRA)

SonicWALL Aventail® E-Class Secure Remote Access and SonicWALL SRA for SMB deliver flexible, scalable academic solutions for secure remote access, disaster recovery, wireless networking and secure extranets, extending clientless mobile access over standard Web browsers to laptops, wireless PDAs and smartphones with unsurpassed granular control. SonicWALL E-Class NSA and NSA solutions feature integrated site-to-site IPSec VPN functionality.

■ SonicWALL Email Security

SonicWALL Email Security (SES) solutions all deliver powerful protection against inbound spam, phishing, viruses, Denial-of-Service, Directory Harvest and Zombie attacks, while preventing outbound leaks of confidential information and violations of regulatory compliance laws. Easy-to-use and manage, the self-running and self-updating SES solutions are ideal for any size academic environment.

■ SonicWALL Backup and Recovery

SonicWALL Continual Data Protection (CDP) solutions provides complete end-to-end policy-based data protection and business continuity for small and medium-sized academic environments by automatically backing up changed data to integrated disk storage in real time. CDP supports most business applications such as SQL Server and MS Exchange, as well as backup of files and folders. Lost data can be restored instantly from a choice of previous versions.

For more information on SonicWALL's solutions for education, please visit our Web site at please visit www.sonicwall.com.

SonicWALL, Inc.

1143 Borregas Avenue
Sunnyvale CA 94089-1306

T +1 408.745.9600
F +1 408.745.9300

www.sonicwall.com

