Future Ready Schools: Securing Technology Infrastructure for Learning

Technology is changing the face of K-12 education, creating new models for innovative teaching and learning—at a pace that is only accelerating.

As an IT leader, you need to provide effective security for all of the technology used in your school's educational programs and operations. To do that, you need a security solution that can grow and change as quickly as your school's needs do.

At iboss, we understand the unique challenges you face, and we designed our Distributed Gateway Platform to help you meet them.

iboss has been delivering effective, flexible, and manageable cybersecurity to schools like yours for over a decade. Our solutions, and our people who support them, have made iboss the #1 provider in the K-12 segment, with deployments that currently protect thousands of schools and millions of students across the U.S.

The iboss Difference

Innovation for today with flexibility for tomorrow:

- Revolutionary architecture supports small and large school systems with varied facilities and needs

- Lowest TCO with no data backhaul, hardware upgrades, or load balancers required

- Most flexibility with deployment options (cloud gateways, local on-prem gateways, or both), and feature packages

How iboss Cybersecurity Helps

iboss simplifies cybersecurity so teachers and administrators can focus more on what really matters—the quality of the teaching and learning experience they deliver. Here are some examples of how iboss helps schools to improve and streamline the security of their educational programs and general operations.

CIPA Compliance – Ubiquitous use of mobile devices, and differing content filtering parameters for students, teachers, and staff, have made keeping up with CIPA requirements a challenge for schools. The iboss Platform eliminates this problem, giving schools an easy and automated way to establish and enforce CIPA compliance for all types of devices, and all of the various groups within a school community.

One-to-One Initiatives – Giving every student a laptop or tablet means that schools need to extend CIPA compliance beyond their four walls—to wherever students use those devices. Backhauling that traffic to datacenters is cumbersome and expensive. iboss gives schools a way to secure all of their mobile devices—including iOS and Android devices, and Chromebooks—in the cloud, while eliminating the costs and vulnerabilities associated with backhauling data.

Learning Enablement – Content filtering is rarely black-and-white. Policies intended to block harmful content can inadvertently block material with legitimate educational value, frustrating students and teachers alike. The iboss Platform eliminates these problems with granular policy controls, including selective SSL decryption, making it easy to ensure that inappropriate content is blocked while educationally useful content is not.

Advanced Content Filtering and Cybersecurity – Your School's Way

The iboss Distributed Gateway Platform includes many content filtering, security, and management features. Here are some that our K-12 customers find most valuable.

Complete Web and content filtering – for blocking access to online content that is harmful or objectionable. Capabilities include:

- ✔ Stream-based protection covering all ports and protocols (TCP & UDP)
- ✔ Granular category-and user-based filtering
- ✔ Real-time alerts on keywords and events
- ✔ File and domain extension, and content MIME type blocking
- ✔ Port access management
- ✔ Dynamic, real-time URL database

Automated compliance and reporting – for establishing and enforcing policies to ensure and document compliance with all applicable industry regulations for data privacy and protection, including:

- ✔ CIPA-compliant content filtering technology for students and staff
- ✔ HIPAA-compliant with Business Associates Agreement

SSL traffic management – for monitoring and managing the growing amount of encrypted traffic on schools' networks, especially attempts to use SSL to bypass control measures. Capabilities include:

- ✔ Fastest, most scalable SSL decryption available
- ✔ Micro-segmentation for selective decryption based and content, device, user, or group

Cloud Apps and social media controls – for closely managing which cloud-based apps and social media sites can be accessed and used by students and teachers. Capabilities include:

- ✔ Advanced application scanning and deep packet inspection
- ✔ Content-aware management of social media apps such as Facebook, Twitter, LinkedIn and Pinterest
- ✔ Granular control of evasive cloud apps such as TOR, BitTorrent and SnapChat
- ✔ Safe Search enforcement for Google, Bing, and Yahoo
- ✔ Clean Image Search and Translation Filtering for Google Services

Mobile device protection – for extending cybersecurity coverage for all of the mobile devices used by a school's students, teachers, and staff – regardless of where or when they use them, including:

- ✔ Complete content filtering for all iOS, Android, and Chromebook devices
- ✔ BYOD and guest Wi-Fi policy management

Protection for out-of-date technologies – for extending protection of deployed technologies after end-of-life (EOL) when vendors stop issuing security updates and patches for them. Coverage includes:

- ✔ Browser EOL protection
- ✔ Operating system EOL protection

Advanced real-time reporting – for streamlining the process of producing timely, accurate and professional reports for a range of compliance and internal management purposes. Capabilities include:

- ✔ Comprehensive, drill-down reports
- ✔ Live, historical, and statistical reports
- ✔ Report scheduling and customization
- ✔ Event searching, including pinpointing and locking evasive protocol usage
- ✔ Automated triggering of Video Desktop Recorder (DMCR)
- ✔ Native Splunk integration, and SIEM integration for forensic-level reporting

Centralized and delegated management and administration – for enabling a school system's central office to set and enforce cybersecurity policies district-wide via the cloud, with flexibility to delegate some policy decisions to individual schools. Capabilities include:

- ✔ Cloud admin console with responsive Web UI
- ✔ Complete bi-directional policy management
- ✔ Seamless directory integration and group management
- ✔ System delegated administrators and reporting groups
- ✔ Location-based policies
- ✔ Custom branding on end user sign in and block pages

Bandwidth monitoring and shaping – for giving school systems visibility into their bandwidth utilization to ensure availability by spotting problems and curbing misuse. Capabilities include:

- ✔ Centralized policy/threshold setting and monitoring to curb bandwidth misuse
- ✔ Ensuring bandwidth availability at critical times and locations, such as when statewide/adaptive testing is administered via student devices in the classroom

Top-quality Technical Support – Highly trained and experienced iboss technicians are ready to help customers with any technical problems or questions they may have. A range of service offerings are available to meet K-12 customers' needs.

About iboss

iboss has created the first and only Distributed Gateway Platform specifically designed to solve the challenge of securing distributed organizations. Built for the cloud, iboss leverages an elastic, node-based architecture that provides advanced security for today's decentralized organizations and scales to meet the ever-increasing bandwidth needs of tomorrow. The iboss Distributed Gateway Platform is backed by more than 100 patents and protects over 4,000 organizations worldwide, making iboss one of the fastest growing cybersecurity companies in the world. To learn more, visit www.iboss.com.

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