



IT for 21st-Century K-12 Organizations: Challenges and Solutions



Emerging IT Challenges for K-12 Organizations

The adoption of novel technologies such as videoconferencing, social media, online collaboration, e-learning, and more, is enabling a richer, more differentiated and effective learning experience for an increasingly diversified community of learners.

With K-12 budgets shrinking, however, it can be difficult to meet the increased demand for IT services that comes with these benefits. In addition, today's K-12 IT administrators face a number of novel challenges that cannot be addressed cost-effectively by traditional IT solutions:

Content Security

- **"1-to-1" initiatives** that allow students unrestricted Internet access when using school-provided devices off-campus
- **Explosive data growth**—caused in part by large numbers of BYOD mobile devices on campus—straining network resources and degrading performance
- **Productivity hindered** by traditional solutions that force complete blocking of restricted content without allowing exceptions for teaching or administrative staff
- **Social Media/Web 2.0 applications** that bypass traditional content filtering and message monitoring
- **Liability exposure** due to inability to promptly identify and block harassment, cyberbullying, and data leakage via social messaging
- **Lack of visibility** into network activities to identify applications and users making excessive or inappropriate use of resources
- **Malware and spyware** attacking the network from a growing number of seemingly innocuous websites that may be visited by students and staff
- **Regulatory compliance threatened** by ever-changing sources of inappropriate or banned content



Data Protection

- **Excessive operational costs** for data and email storage due to increased retention needs, data growth, and inefficient storage
- **Loss of data** at the school or district level due to inadequate or outdated data protection technology
- **Legal liability** due to inability to comply with e-discovery requests, driven by FRCP, in a timely manner
- **Poor data and email retrieval capabilities** for day-to-day recovery needs
- **Incomplete message retention** due to the inability to archive growing volume of social-media messages

The Barracuda Difference:

Advanced Content Security and Data Protection Made Simple and Affordable

Barracuda Networks provides **cost-effective, best-of-breed IT solutions** for K-12 organizations that deliver **quick return on investment**, along with the **advanced capabilities and features** needed to simply and easily address the complex challenges facing today's school-based network administrators.

Content Security

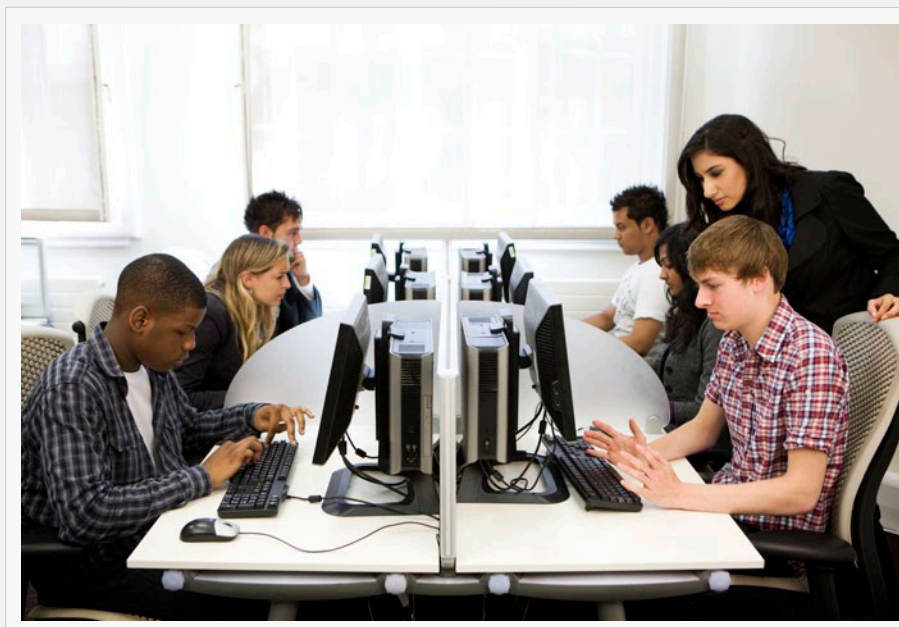
- **Extend content security** beyond network borders with unlimited licenses for apps and agents that enforce policies on remote and mobile devices used off-campus and off-network
- **Boost productivity and reclaim wasted bandwidth** by customizing granular access policies that protect students from prohibited content while granting teachers and administrators the freedom to do their jobs effectively
- **Regulate social-media and Web 2.0 applications** with unmatched precision—e.g., allow access to Facebook but block Facebook games, and allow only staff to use Facebook chat
- **Monitor social messaging** in real time, with keyword alerts to trigger immediate responses to emerging cases of bullying, harassment, or loss of confidential data
- **Get granular insight** into the sites, applications, and devices consuming your network resources, with real-time visibility that goes beyond ports and IP addresses to identify specific applications and users in an intuitive, centralized management interface
- **Prevent malware and spyware intrusions** with real-time content filtering, constantly updated URL blocklists, and malware removal tools to clean out previously infected computers on the network
- **Ensure compliance** with content regulations such as CIPA by regulating access to 95 predefined, up-to-date content categories

Data Protection

- **Reduced operational costs** through efficient storage technology to support increased retention and larger data volumes
- **Comprehensive backup and recovery** solution ideal for mixed physical and virtual environments and for data distributed across school districts
- **E-discovery support** through flexible retention policies and sophisticated search and export for both email and social-media messages
- **Quick retrieval** of messages and files to increase the efficiency of daily IT operations

Integration and Centralized Management

- Optimize efficiency and ease of use with solutions that integrate to deliver enhanced capabilities and benefits
- Simplify network administration with **Barracuda Cloud Control** – single-point centralized management of all appliances, accessible anywhere



Barracuda Networks:

Integrated Products and Services to Simplify and Secure K-12 IT

Barracuda security and data-protection products work together seamlessly to create **comprehensive IT solutions ideal for K-12 educational organizations.**

Barracuda Web Security

In the 21st-century classroom, constant interaction with online resources and applications is a simple necessity—despite the risks of prohibited content, wasted bandwidth, and loss of confidential data. The Barracuda Web Filter lets K-12 educational organizations enjoy the benefits of web connectivity without the risks.

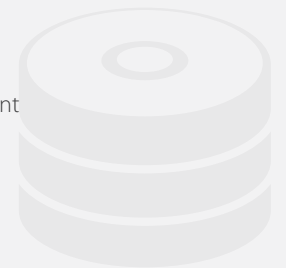
- Predefined content-filtering categories
- Granular, user-aware policies
- Granular control and visibility into whitelisting portal
- Detailed, real-time visibility with integrated reports
- Unlimited remote filtering agents (models 410 and higher)
- Regulate Web 2.0 application activity and alert admin when suspicious activity occurs
- Monitor and archive social-network messages
- Integrated spyware and virus protection



Barracuda Backup

A complete backup solution no longer requires multiple vendors, unreliable removable media, and a huge commitment of time and effort. Barracuda Backup combines software, storage, deduplication, encryption, and offsite replication—all without per-server or per-application licensing fees.

- All-in-one backup solution requires no third-party software, hardware, or cloud
- Protects physical and virtual (VMware & Hyper-V) environments
- Deduplicated storage and fast replication
- Cloud storage or site-to-site deployments for disaster recovery protection
- Intuitive and simple cloud-based central management
- Local and cloud LiveBoot™ for VMware.
- Exchange, SQL, and message-level recovery
- No per-server or per-application fees
- Complimentary hardware refresh with Instant Replacement subscription



Barracuda Message Archiver

Retaining all your email is not only a regulatory requirement. It's also a really good idea. What's not such a good idea—for lots of reasons—is using your mail server to do it. The Barracuda Message Archiver makes it easy to retain, recover, and export email and social messages without bloating infrastructure or costs.

- Efficient storage through compression and deduplication
- No per-user or per-server fees
- Mobile applications for anytime/anywhere access
- Outlook Add-in for folder-based searches and viewing
- Powerful search and export capabilities
- Flexible, time- and content-based retention policies
- Archive social-network messages (when paired with Barracuda Web Security solution)
- Cloud-based central management
- Role-based administration
- Litigation holds



To speak with an education technology expert and learn more about how Barracuda Networks can help your K-12 organization reduce its IT overhead while delivering state-of-the-art security and data protection, please contact Barracuda Networks or your local technology reseller today.