

Creating Safe Learning Environments

School learning environments must meet academic needs for internet connectivity while simultaneously minimizing cyber risks. Meanwhile, on-premises data and cloud resources must all meet security protocols while meeting demanding performance requirements. And security policies for teachers, students and administrators must all be upheld and enforced across the district.

Keeping students and their data safe, while maintaining a modern and engaging learning environment, is a precarious juggling act. Legacy security systems leave much to be desired in dealing with the increasing sophistication and frequency of cyberattacks. Manual detection is usually a case of desperately mitigating the damage from an attack that has already happened, which can prove expensive in terms of time, money and resources. Comprehensive protection involves integrated and automated controls to detect and prevent threats at every stage of the attack lifecycle.

In Fighting (Plat)Form

A security operating platform can do much to protect students from inappropriate content through content filtering on school-owned devices both inside and outside the network as well as BYOD (Bring Your Own Device) devices inside the school network. And this level of protection comes with simplified security operations due to automated threat intelligence. A security operating platform offers full visibility into all traffic and provides the context necessary to enforce dynamic security and reduce attacks. Detailed threat intelligence, analysis and protections prevent both known and unknown threats.

A Security Operating Platform typically provides the following overarching benefits:

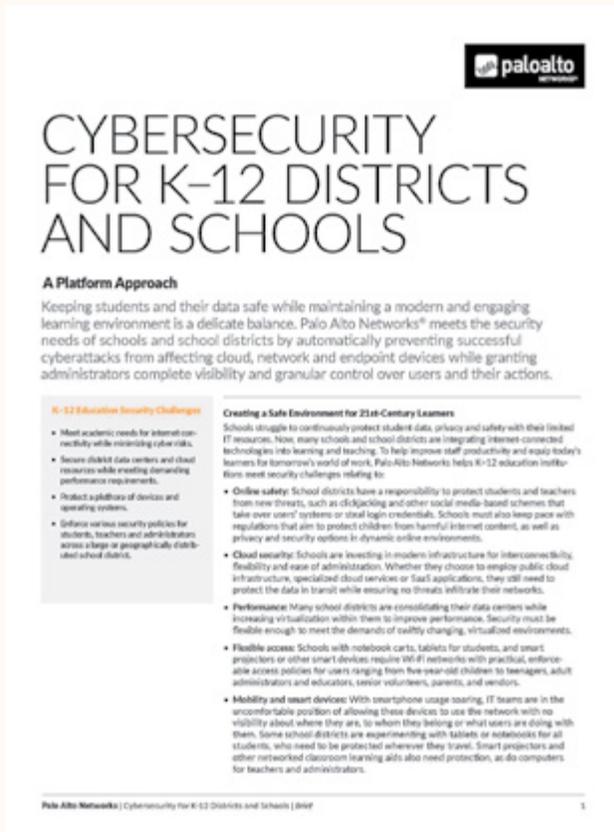
- **Visibility** of all users and devices across the network, including endpoint, cloud and SaaS (Software as a Service) applications.

- **Reducing the attack surface** through integrated technologies.
- **Known threat prevention** across different security controls for quick identification and threat response.
- **Unknown threat detection** through the automated creation and delivery of near-real-time protections against new threats.

The elements of a security operating platform must be implemented in the correct positions within a security architecture while remaining agile and automatically sharing new threat data. It should also have the ability to automatically extend new protections based on this new data to stop the spread of an attack. In this way, schools can implement the latest learning applications and technologies safely and securely.



A New Approach to Security



Palo Alto Networks has released a brief entitled [A Platform Approach: Cybersecurity for K-12 Districts and Schools](#) that lays out the essential components of a safe, 21st century learning environment.

The brief addresses the responsibility school districts have in protecting students and teachers from new threats (such as “clickjacking”: tricking a user into clicking on something different from what the user perceives, allowing others to take control of their computer) while keeping pace with regulations that aim to protect student data. There are also challenges to data security posed by specialized cloud services and virtualization, as well as flexible access and smart devices.

The Palo Alto Networks Security Operating Platform supports schools in their online safety efforts while helping IT teams to better support the 21st-century classroom. Schools and districts use Palo Alto Networks to gain visibility and control over their networks while preventing ransomware and malware from threatening critical information.

Students often unwittingly—or at times deliberately—put networks at risk. Palo Alto Networks automatically protects the network from threats with coordinated anti-malware and web content filtering. Advanced endpoint protection coordinates with threat intelligence to stop attacks the minute they are attempted.

The key is automation, with enforcement points and shared intelligence working together to prevent ever-changing cyberthreats. And cloud-delivered security services employ global intelligence to filter content as well as detect threats and attackers.

Schools and districts can explore the platform at a pace that makes sense to them: beginning by employing some elements, with the ability of expanding to grow their protection level without having to purchase, learn and manage a new system.

Security Operating Platforms arm schools against cyberthreats through integrated network, cloud and endpoint security technologies: decreasing a school’s incident response time while increasing the reach and efficiency of their security teams.

Learn more

Learn more about data privacy for K-12 education at [CDW](#).