

Security Solutions for Education



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Today's powerful communication and collaboration technologies have revolutionized education, fostering opportunities to make teaching, learning, and research more interactive and rewarding. But the same tools that help students and faculty learn and work together can also introduce vulnerabilities.

Microsoft's robust security solutions for education dovetail seamlessly with your institution's content-management, email, and network-access applications to provide a security-enhanced, efficient technology infrastructure. Simplified deployment and management lighten the burden on education IT departments, while flexible licensing arrangements make these solutions cost-effective. Here's how:

Help improve security, reliability, and manageability for endpoints with Forefront Endpoint Protection

At many educational IT departments, endpoint management and endpoint security are treated as separate responsibilities—a division of processes and infrastructures that's inherently inefficient. By building on the desktop management capabilities of Microsoft System Center Configuration Manager 2007 R2 and R3, however, Forefront Endpoint Protection 2010 converges these parallel roles. This unified infrastructure is designed to reduce complexity and deployment costs, and help enable IT administrators to:

- Keep networked computers properly configured as well as secured against emerging threats, using a single console to both manage operational issues and monitor client security across the enterprise.
- Proactively detect and rapidly respond to threats, troubleshoot, and deliver necessary remedies.
- Manage Windows Firewall to help prevent attackers or malicious software from gaining access to computers through the Internet or a network.
- Easily migrate from existing anti-virus solutions, and choose among 16 preconfigured security policy templates or customize them to suit your organization's specific needs.

Confidently store and share content resources

Break down barriers to real-time collaboration.

► [Microsoft Office SharePoint Server 2010](#) simplifies content management and makes it easier for educators and students to share information and work together no matter where they are—on or off-campus, with

a computer, mobile device, or smartphone, with a supported browser and Internet access. Instructors can post a syllabus and class schedules, for example, and resources for students. Academic teams can write, edit, and discuss research papers—separately or together at the same time.

Secure remote access to network resources

Help neutralize threats that might come through student- or faculty-owned hardware. Microsoft Forefront is a comprehensive line of products that deliver secure remote access to institutional resources for faculty, staff, and students on both managed and unmanaged PCs and mobile devices.

Microsoft Forefront Unified Access Gateway 2010.

Forefront Unified Access Gateway (UAG) maximizes security in remote-access scenarios by enforcing granular access controls and policies tailored to the applications in use, the identity of the user, and the condition of the specific device. Forefront UAG:

- Facilitates single sign-on across a variety of systems and services, so that people can access resources in a range of settings: at the dorm, for example, at the library or student union building, or to utilize an integrated, multi-purpose education portal (see box, "Campus web portal streamlines student access to information and services").
- Utilizes a combination of connectivity options, from SSL VPN to DirectAccess, as well as built-in configurations and policies.
- Reduces costs and complexity by centralizing management operations of your institution's access technologies.

Campus web portal streamlines student access to information and services

Students at the University of Tennessee wanted their university website to operate with the convenience of a social networking site, which would bring information and applications directly to them in one place. The university's systems didn't operate that way—but university officials set out to make it happen. They used Microsoft technologies to aggregate information and applications from back-end systems into a one-stop portal, and to give students, faculty, and staff single

sign-on access to it all. The result has won rave reviews from students, who now can perform integrated actions ranging from settling accounts to registering for classes, all without leaving the portal.

The university positioned Forefront Unified Access Gateway on the network in front of the SharePoint Server portal and other applications, such as SAP. It accepts Active Directory credentials, so the university expanded its existing Active Directory system to include all students and staff.

Users contacting the portal from within the university domain authenticate themselves once, when they log on to their computers. The solution performs Integrated Windows Authentication transparently, authenticating the usernames and passwords with Active Directory Federation Services. When users access the portal, their browsers pass their Active Directory credentials in a highly secure way to Forefront Unified Access Gateway.

[Learn more](#) 

Microsoft Forefront Protection 2010 for Exchange Server. To help safeguard your school's messaging services, Forefront Protection 2010 for Exchange Server defends servers that run Exchange Server 2007 and Exchange Server 2010. (See box, "Medical University of South Carolina (MUSC) deploys Forefront to secure messaging and collaboration.")

- Uses file and keyword filtering to block out-of-policy content and dangerous attachments from entering or leaving the network.
- Detects and quarantines spam and malware.

Microsoft Forefront Protection 2010 for SharePoint. Forefront Protection 2010 for SharePoint helps keep your organization's collaboration environment secure. (See box, "Medical University of South Carolina (MUSC) deploys Forefront to help secure messaging and collaboration.")

- Helps prevent users from uploading or downloading documents containing malware, out-of-policy content, or sensitive information to SharePoint libraries.
- Blocks dangerous attachments from being posted or downloaded.
- Combines multiple malware-scanning engines to stop the latest threats.

Centralized management of security solutions simplifies IT's job

Microsoft's education security solutions streamline deployment, monitoring, and upgrades, while giving your IT department a high level of control and security features for managed and non-managed assets. The result is increased efficiency—which saves your institution time and money.

Lower costs through ECAL

Schools and other educational institutions can reduce software costs significantly through consolidation of licenses with an Enterprise Client Access License (CAL) agreement with Microsoft.

For more information about Microsoft Security Solutions for Education, visit <http://www.microsoft.com/education/solutions/itsecurity.aspx>.

Case studies

- [Medical University Saves \\$200,000 and Improves Patient Care with Security Solution](#)
- [University Brings Students Social Networking Convenience with Campus Web Portal](#)



Medical University of South Carolina (MUSC) deploys Forefront to help secure messaging and collaboration.

The IT department at MUSC sought a solution that would help protect its collaboration and messaging environment from malware and other threats; it wanted to prevent specific content or file types from being uploaded and spread across its network. "Having a solid environment where people can collaborate and share knowledge is the center of our goal in the IT department," says Robbie Townsend, Team Leader for the Managed Desktop and Endpoint Security Teams at MUSC. "But the thing about collaboration is that if it's not a secure environment, what

you end up with is people sharing viruses and other malware. This not only poses significant threats to intellectual property and opens the door to plagiarism, but it also poses tangible threats to our entire network."

As a result of implementing Forefront Protection 2010 for Exchange Server and Forefront Protection 2010 for SharePoint, along with Forefront Threat Management Gateway, Medical University of South Carolina has improved the care it offers its patients in its medical facilities.

At the same time, MUSC provided a security-enhanced collaboration environment for users, enhanced network protection, and reduced costs. "Forefront is the life support of our security environment and we are confident that we are now providing physicians, nurses, researchers, and students with the collaboration and messaging environment they need to continue to give unparalleled care to patients," says [MUSC Endpoint Security Engineer Clay] Taylor.

[Learn more](#)