Accelerating the Digital Education Revolution
Learning Today is Limitless

Technology is playing an increasingly important role in helping teachers and students across the globe find ways to deepen learning experiences. Digital content and applications are taking the place of textbooks, interactive white boards are replacing blackboards, and educators are using PCs and tablets to offer greater flexibility to students in where, when, and how they engage.

Learning is no longer limited to the physical confines of classrooms, and mobile devices are being used to engage students in new and compelling ways.

Provide Students Equal Access to Digital Learning Environments
Since computing resources at home vary widely, technology helps level the playing field for students worldwide. VMware enables school systems to overcome barriers and achieve equal access for all.

Enable New Teaching Models
Internet access, digital content, and mobile devices provide educators with new ways to engage students. VMware technology helps educators improve learning both inside and outside of the classroom.

Align with School Policies and Comply with Regulations
VMware solutions support efforts to comply with government regulations and school policies that keep kids and their personal information safe while using mobile devices or accessing information online.

Maximize Efficiencies in a Budget-Constrained Environment
Virtual desktops and apps help schools face ever-shrinking budget challenges. Software can be deployed on more efficient and cost effective thin clients.
With the BPS desktop, our students can now continue working on their projects at home, at their own pace, or in groups with their friends. It’s available to them 24 hours a day.

— Carmen Robles, Instructional Technology Coach, Buffalo Public Schools

Deliver Secure Access to Online Resources
School systems are facing unprecedented IT challenges. Computing resources available to students after school are unequal and heterogeneous. One-to-one device initiatives are very costly to start or unsustainable for some schools to support over time. Different device types (phones, tablets, and laptops), varying operating systems, as well as underpowered or out-of-date hardware and software can be complex, time-consuming, and costly to manually manage. For school systems of all sizes, finding ways to provide access, services, and software to every student regardless of socioeconomic status while making digital learning manageable for teachers, students and parents remains challenging.

The VMware Secure Digital Backpack for Primary and Secondary Education solution enables schools and districts to provide equal opportunity to achieve academic success for all students by delivering a consistent, reliable, and secure user experience to any device.

Improve Learning for Students, from Preschool through Graduation
From home, the library, or anywhere else, students can use their smartphones, tablets, laptops and PCs to remotely access coursework. VMware supports bring your own device (BYOD) and school-issued device initiatives.

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Align with School Policies and Comply with Government Mandates

Keep your School's Digital Workspaces in Compliance
Learning institutions have policies governing how school-issued devices should be used, including what sites and applications can and cannot be accessed. Many schools are also now legally mandated to manage government assessment initiatives, and need to ensure standardized online testing software is delivered consistently and securely.

Test and Teach on the Same Computers
The Secure Digital Backpack solution manages devices across platforms and operating systems, empowering IT administrators to address policies and compliance concerns from one solution – all while providing teachers and students with the technology they need to meet learning objectives.

Working closely with leading Common Core State Standards Initiative (CCSSI) online testing vendors, VMware creates a secure online testing solution that leverages existing computing resources. This ensures secure online test delivery in a way that’s easy to deploy and manage in a certified VMware environment.

“The state took note of Baltimore. We were the only local educational agency in the state to use VMware to help with PARCC Common Core testing... It was a complete success.”
— Kenneth Thompson, Chief Information Officer, Baltimore Public Schools

Secure Online Testing Across New and Old Equipment

- Deliver standardized online testing and promote digital equality
- Minimizing the disruption of the existing curriculum during standardized testing
- Simplify deployment of testing and instructional desktops
- Extend the usefulness of aging equipment
Enable New Mobile Teaching Models

Enhance Learning in the Mobile Era
Schools are capitalizing on the popularity of mobile devices, and are leveraging them to optimize learning – both inside and outside of the classroom.

Because mobility augments teacher-student interactions, it is being used to personalize learning plans for students. Yet districts leveraging mobility to improve teaching methods need a solution that seamlessly becomes part of the classroom without causing disruption.

Simplify the Mobile Classroom
With AirWatch® Teacher Tools™, teachers use a simple interface to manage devices in the classrooms. Developed specifically to meet the needs of schools, the solution puts powerful device management capabilities in teachers’ hands so they can keep kids engaged, minimize classroom disruptions, and reduce reliance on IT administrators for basic device management needs.

“Mobility makes the difference in how we teach and how students learn. With devices managed by AirWatch, students have the ability to learn 24/7.”

— Dr. Darryl S. Adams, Superintendent, Coachella Valley

Easy-to-Use Resources to Keep Students on Task

- Deploy and configure mobile devices, provision them with appropriate learning apps, content and other learning resources while ensuring devices stay safe for kids
- Empower teachers to manage how students use devices
Maximize Operational Efficiencies in a Budget-Constrained Environment

Deliver Additional Resources for Less
Virtual desktops and apps help schools overcome ever-shrinking budget issues by allowing districts to deploy software on thin clients that are cheaper to manage than laptops and PCs.

Administrators can securely support initiatives that give all students access to coursework through large-scale tablet or Chromebook distribution, or simply by letting them bring their own devices. Whether it’s an old PC or the latest tablet, the user experience stays the same.

Keep All of Your Devices Up-to-Date, Easily
The Secure Digital Backpack enables schools to deliver high-quality education in a budget-constrained environment by repurposing old PCs using a desktop client. It lets schools leverage existing devices to support the requirements of today’s most demanding apps. As thin clients, old PCs can deliver up-to-date Windows.

“We are very proud because in around three months, we can install systems in 700 schools using the virtual desktop infrastructure (VDI) client. The students and teachers love to use the app.”

— Noorhisham Bin Shahabudan, Senior IT Officer, Malaysian Ministry of Education

Fast and Easy Installation — Even in Remote Places

• Quickly install in urban or remote K-12 schools
• Provide IT-as-a-service tools for teaching and learning that are easy to access and manager
• Deliver an environment that students love, especially for the Windows apps they use most

Virtualized desktops in 150 days in the Malaysian jungle

25,000
Comprehensive Solutions for Limitless Learning

New mobile technologies and lower budgets are driving change across primary and secondary school systems worldwide. The VMware Secure Digital Backpack enhance digital learning experiences, supports new mobile teaching models, and stretches budget dollars by ensuring reliable access and the simplified management of critical computing resources.

Support Equal Access to Digital Learning Environments

- Provide anytime access to coursework and resources on any device type or operating system, whether 1:1, BYOD, or on shared devices
- Deliver the same user experience to access coursework whether from a five-year old desktop, a low-cost Chromebook, or the latest iPad
- Enable device sharing between students when using mobile computer carts
- Enable access to computing in remote locations with limited power and limited Internet connectivity

Enable New Mobile Teaching Models

- Control mobile learning in the classroom with AirWatch Teacher Tools
- Personalize the distribution of educational content to student devices
- Facilitate the use of devices in flipped classroom and blended learning workflows

Align Policies and Comply with Regulations

- Give IT control over how school-issued devices are used with mobile device management
- Enable IT to stage devices efficiently to align with school policies
- Meet the security, scalability, and performance requirements of government mandates such as Common Core, COPPA, etc.
- Efficiently move between an online testing environment and a school’s standard device posture for daily curriculum needs

Maximize Efficiency in a Budget-Constrained Environment

- Enable device or application sharing
- Enable schools to repurpose old desktops as thin clients that deliver the functionality and performance required by today’s applications
- Provide efficient over-the-air deployment and management of devices, applications, and content to greatly reduce the IT workload inherent in manual device deployment
- Centralize the deployment of images, devices, applications, and content

With the Secure Digital Backpack, schools can confidently deliver ongoing instruction and online testing—ensuring that learning continues at home and at school, at any time.
Make the Move to VMware

The VMware Secure Digital Backpack enables limitless learning for students of all levels. Primary and secondary schools rely on VMware solutions to manage devices, apps, content, and expand teacher and student access to educational resources while ensuring IT administrators maintain visibility and control. Schools deliver virtual desktops—both inside and outside of the classroom—and manage school-issued, shared, and bring your own devices. Secure Digital Backpacks also enable new teaching methods by supporting apps such as AirWatch Teacher Tools.

With VMware solutions, all students can move closer to the head of the class in this competitive age of digital learning.

See How VMware is Modernizing K12 Education