



Secure Digital Backpack for K-12 Education

Limitless Learning with Anytime,
Anywhere Access to Digital Resources
through a Single Workspace

vmware®

The Digital Education Revolution

Educators, parents, and governments recognize the importance of delivering quality education to children in order to stay competitive in today's globalized world. Technology is playing an increasingly important role in the ability to deliver engaging, interactive education to children that will lead to enhanced learning outcomes. Digital content and mobile devices are taking the place of textbooks and traditional primary and secondary paradigms are undergoing a massive transformation as educational institutions struggle to facilitate new teaching methods and curriculum models. Learning is no longer limited by classroom instruction hours or the physical confines of school – learning today is limitless.

Key Information Technology Drivers in K-12 Education

A Device for Every Student	Changing Learning Outcomes	Assessment Gaps	Budgetary Constraints	Mobility
Many school systems are issuing devices to students to ensure access to coursework both at school and outside the classroom.	Governments recognize the importance of getting technology into the hands of students at an early age in order to develop a workforce better aligned to the demands of a global economy.	Different standards and assessments are being leveraged worldwide. Finding ways to deliver online testing to students during the school day is reality for most school systems.	As government budgets funding technology projects ebb and flow, schools must leverage existing infrastructure and find new ways to meet student and technology challenges.	Mobile devices are becoming ubiquitous in student daily life. As integral to learning as they are becoming, without a thoughtful approach to mobile learning, they can represent a distraction in the classroom.

VMware Secure Digital Backpack for K-12 Education: The IT Curriculum for Today's Mobile Students

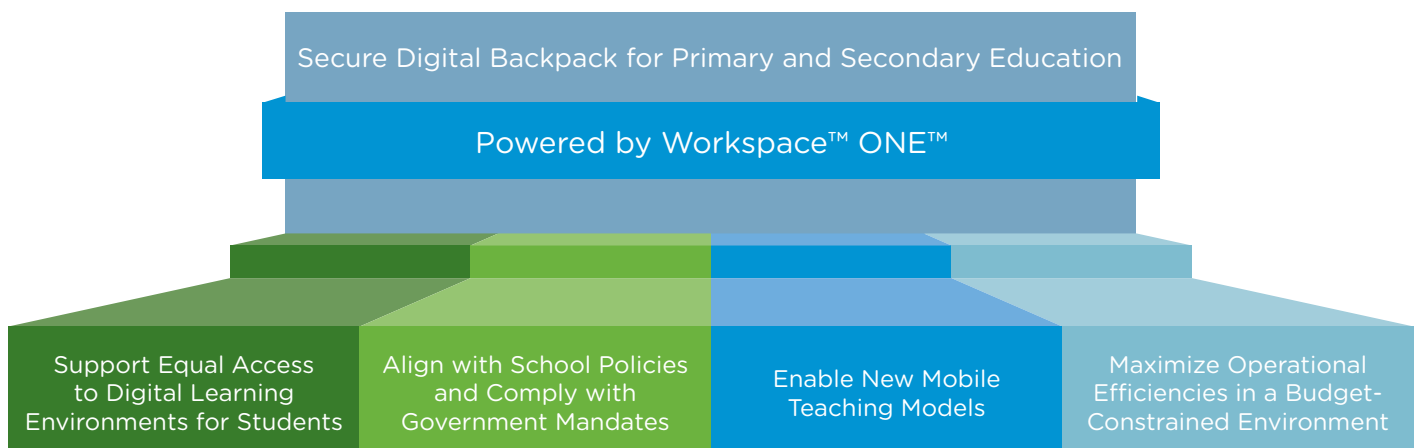
While some children have access to the latest computing resources at home, others do not or may be working with underpowered systems or out-of-date software. VMware enables schools to offer students the same software on any device from any location, eliminating technology disadvantages. Ensure compliance with policies governing how school-issued devices can be used, including what websites and applications can be accessed, and how standardized testing software is delivered consistently and securely.

The VMware Secure Digital Backpack for Primary and

Secondary Education solution—powered by VMware® Workspace™ ONE™—provides students and teachers with anytime, anywhere mobile access to digital resources, enabling limitless learning. It combines desktop and application virtualization and enterprise mobility management with centralized identity management and policy enforcement to improve teaching and learning experiences within increasingly heterogeneous digital learning environments.

Enabling School Systems to:

- Level the learning playing field for all students
- Align to privacy and security policies and meet requirements for online testing
- Empower teachers to manage device use in the classroom





Support Equal Access to Digital Learning Environments for Students

VMware helps schools provide equal opportunity for all students to achieve academic success by delivering the same user experience to any device. Key benefits include:

- 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



Align with School Policies and Comply with Government Mandates

VMware aligns with school policies and government mandated security as well as performance requirements for online testing in a cost-effective way. Key benefits include:

- 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



Enable New Mobile Teaching Models

VMware helps empower teachers to manage mobile device use in the classroom by managing student devices, applications and content with VMware AirWatch® Teacher Tools™. Key benefits include:

- 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



Maximize Operational Efficiencies in a Budget Constrained Environment

VMware enables schools to deliver high-quality education in a budget constrained environment by repurposing old PDs using a Horizon client. Key benefits include:

- 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

Discover How Education Providers are Benefiting from Mobilizing Classrooms



St. Edmund's College Prep School: Transforming Learning with VMware Horizon

Using VMware software, the school has virtualized all of its servers and 70% of its desktop PCs, providing a new, central platform for managing IT

- Pupils and teachers can now use their own mobile devices to access the school network from any location
- Server and desktop virtualization has increased energy efficiency while decreasing maintenance, leading to expected savings of up to £63,000 over the next eight years



Malaysian Ministry of Education: Virtualizing 25,000 Desktops in 150 Days

"We are very proud because in around three months, we can install systems in 700 schools using the VDI client. The students and teachers love to use the application" - Noorhisham Bin Shahabudan, Senior IT Officer, Malaysian Ministry of Education

- VMware-technology was installed in K-12 schools - even in areas as remote as the jungle
- MoE is using IT-as-a-service tools for teaching and learning as they are easy to bring up and manage
- Horizon is exceeding MoE expectations and the children love it, especially Excel, PowerPoint, and movies



Coachella Valley Unified School District (CVUSD): Enabling 24/7 Learning Through Mobility

"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 USD

- Deployment of 17,000 iPads and iPhones throughout its schools for email, calendar, curriculum teaching, and learning activities
- CVUSD became the first school district in the nation to provide mobile devices financed by a public vote and the sale of G.O. bonds



Mansfield ISD: Leading the Way in 1:1 Mobile Device Deployment

Mansfield Independent School District is home to 30,000 students and spans 42 campuses. Since 2012, it has successfully deployed 13,000 mobile devices, secured by AirWatch, to teachers and students. According to Lynn Phears, Network Security Manager, "the iPads are no longer shiny distractions to play with. The students view them as tools they can actually use to get work done."

- Students take classroom tests and complete homework on their mobile devices, inside the classroom and out
- IT can restrict access to inappropriate content, and blacklist prohibited applications
- Teachers have greater control in the classroom and students are more engaged



Baltimore City Public Schools: Enabling Online Testing Across New and Old Equipment

VMware Horizon is used to deliver Common Core PARCC online testing and supports the schools' efforts to promote digital equality for all of its students.

- Minimized disruption of existing curriculum during Common Core testing
- Simplified deployment of testing and instructional desktops
- Extended usefulness of aging equipment