

# MLTI Participation Packet 2013

For more information, please visit:  
<http://www.maine.gov/mlti/deployment>



**Jeff Mao**

Learning Technology  
Policy Director

[jeff.mao@maine.gov](mailto:jeff.mao@maine.gov)

207-624-6634

**Charlie Hartman**

Project  
Manager

[charlie.hartman@maine.gov](mailto:charlie.hartman@maine.gov)

207-624-6679

**Juanita Dickson**

Project  
Assistant

[juanita.dickson@maine.gov](mailto:juanita.dickson@maine.gov)

207-499-7142

**THIS PACKET CONTAINS:**  
MLTI Program Description  
Student and Staff Eligibility Guidelines  
Participation Options  
*MLTI Participation Form 2013*  
*MLTI Device Order Form 2013*

## ***MLTI Program Description***

### **Goals**

The MLTI goals remain:

- Equity
- Integration with Maine's Learning Results
- Sustainability / Avoiding Obsolescence
- Teacher Preparation and Professional Development
- Economic Development

At a school and classroom level, these goals can be translated into a few more tangible actionable goals: 1) changing teacher practices in ways that leverage technology to facilitate a student-centered learning environment, and 2) active participation in on-going professional development efforts.

## ***Professional Development***

Hewlett Packard (HP) in collaboration with Education Networks of America (ENA) has designed an overall professional development plan (PDP) specifically to address transforming education and the classroom experience. This PDP takes into consideration that educator and leader adoption of technology instruction and skill levels vary widely, so HP has carefully selected a robust variety of professional development offerings. These offerings not only meet the learning needs of novice to experienced technology users but also provide a selection of professional development opportunities to ensure sustainability and support expanding various educator and leader capabilities around effective instruction for teaching and learning in a 1:1 environment.

### ***Professional Development Partners and Delivery Modes***

The PDP leverages the skills and experience of seasoned professional development partners, with a long-term commitment to education, and includes state-level consulting, leader-led or train-the-trainer workshops, online facilitator-led or self-paced classes, video tutorials, webinars, and a robust selection of other online resources to meet the needs and learning styles of educators and leader learners. Professional development partners include: HP, Microsoft, Intel, McREL, Atomic Learning, ClassLink and Common Sense Media with ENA providing project management services.

### ***Summary of Leader-Led Facilitated Professional Development Offerings***

Leader-led workshops and training sessions for educators, leaders and technology administrators are to be delivered over a four year period, and include Intel and/or Microsoft workshops for novice, intermediate and advanced users, ClassLink workshops, HP technical workshops, and McREL advanced 1:1 technology integration and quality instructional strategies workshops for mentor educators and leaders.

## ***Summary of Online Self-Paced Professional Development Offerings***

The PDP offers a broad selection of online resources and self-paced training provided with all HP devices. Included are: Atomic Learning Integrate and Mobilize tutorials, Common Sense Media K-12 Digital Literacy and Citizenship Project and Learning Ratings for Educators courses and resources, Intel Teach Elements Series, Education and Engage Community courses and Network courses and communities.

## ***Personal Digital Device***

### ***HP ElitePad 900***

The HP ElitePad 900 is a fully functioning personal computer optimized for Windows 8. It supports the Microsoft Windows Professional operating system, and is configured with dedicated components including system memory, hard drive, and wireless network connections. The HP ElitePad 900 is light and small in size, making it easy to transport. Rigorous testing was done to ensure that this device has the durability to withstand daily use. These durability features include an aluminum unibody case, second generation GorillaGlass, as well as an included Targus 12" Netbook Sleeve with a neoprene exterior that protects the tablet and is also a comfortable carrying option. The HP ElitePad 900 can be used without network access to perform personal computing functions such as writing, file saving, and accessing multimedia, and when connected to a network, can access shared files and software, ensuring coordination between home- and school-work. Coordination is even easier with the addition of a tablet stand and an ElitePad Jacket for every device, which includes two USB ports and an HDMI connection. This allows students to prop up the tablet for comfortable viewing, and use the included USB attached keyboard as an alternative to touchscreen interaction. The ElitePad Jacket also extends the battery life of the device significantly.

The HP ElitePad 900 on its own has a battery life of up to 10.5 hours, but with the additional embedded battery in the Jacket, can last up to 20 hours. The batteries can be recharged at home or elsewhere, and/or charged in a multi-unit recharger at a school. Additional ElitePad Jackets, external batteries, and multi-unit charging carts will be allocated based on school size, and districts will be able to work with MLTI to optimize the number of stations per location. This will allow flexible recharging options for students and faculty.



## *Wireless Network*

Included in the MLTI service is a new wireless infrastructure that is optimal for supporting 1:1 initiatives. HP and ENA, in collaboration with the Department, will provide a fully managed wireless service that includes all new access points, Power over Ethernet switches, high capacity bandwidth between the local area network and the wireless network, as well as all necessary wireless site surveys, design, and implementation. The MLTI wireless service also includes on-line reporting and custom security and network configurations for each school, so that the wireless service can best fit the 1:1 and other digital learning initiatives of each district.

The MLTI wireless service includes high capacity wireless coverage for all classrooms and instructional areas as well as for gymnasiums, auditoriums, cafeterias, libraries and administrative areas, including the main office of each school. The service is tuned to provide excellent coverage for the HP personal computing device, but the service also allows guest or BYOD access for any standards-based wireless LAN device. Beyond the initial implementation, all ongoing design, support, monitoring and maintenance, including replacement of any degraded or failed components, is included in the service.



The wireless service provided by MLTI utilizes ENA's highly available, geographically redundant datacenters for cloud-based wireless management and control. Each MLTI wireless implementation is designed to function seamlessly with the local area network. Service includes upgraded switches and 10/100/1000 Mbps handoffs, greatly increasing throughput between the WLAN and local area network.

Wireless service includes:

### *Wireless Network Equipment*

- Wireless access points and switch gear with mesh networking and controller-less architecture for industry leading uptime and auto-recovery.
  - Full 802.11 a/b/g/n 2.4Ghz and 5Ghz wireless networking
  - 3x3x3 MIMO spatial streams
  - Enterprise-class gigabit switching with on-demand provisioning
- Connectivity
  - CAT 5e cabling for seamless integration to customer's LAN
  - Singular or multiple 1Gbps connections between wireless infrastructure and Local Area Network (LAN)
  - Power over Ethernet (PoE) and wired Ethernet connections
  - Full integration with customer's Local Area Network (LAN) for access to local resources such as printers and file servers as required

### *Wireless Managed Service*

The MLTI service model is an Infrastructure as a Service (IaaS) solution designed and optimized to provide a complete turnkey wireless networking solution.

- Help Desk with proactive monitoring, maintenance, recovery and replacement initiatives, available Monday through Friday, 6:00 a.m. to 10:00 p.m.
- Full design support, site survey, network mapping, integration testing, and installation of the managed wireless networking solution
- Automatic software updates to all ENA-owned components of the service
- All necessary wireless security, policy design, and on-boarding implementation
- Comprehensive online visibility for authorized technology staff, including:
  - Top Talkers
  - Specific utilization by username/device
  - Aggregated total wireless traffic utilization
  - Total wireless traffic utilization by SSID
  - Total wireless traffic utilization by frequency (2.4 GHz vs. 5 GHz)
  - Total unique users per SSID
  - Maximum concurrent users per SSID

### *Communication and Collaboration*

The MLTI device is configured with standards-compliant wireless and wired network access. Students and teachers can connect to the Internet from home or other locations via the local ISP account, allowing schoolwork to be accessed outside of school hours.

Additionally, ClassLink's LaunchPad product is included with each HP MLTI device. LaunchPad is the student and teacher's personalized cloud desktop that gives access to schoolwork from anywhere, reinventing the experience of instructional technology. LaunchPad delivers access to files (both in the 3GB ClassLink storage area and for configured district- and school-based file servers), school software and powerful collaboration tools both within the school and when working outside the school.

Microsoft's cloud based service, Office 365 for Education, is included as part of HP's MLTI offering. Office 365 for Education will extend the power of Windows and Office Professional that will come on your new HP MLTI device by enabling Districts to create experiences that help students and teachers to easily connect with each other, collaborate on assignments and form new ideas all within a browser anytime and anywhere.

Each user will receive a 25GB email/calendaring inbox, 7GB of synchronized storage, Office Web Apps for web-based collaboration of Office documents and an individual web presentation subscription (Lync) for IM, VOIP calls, Video calls and group discussion. Additionally, each District will receive up to 25TB of pooled storage to be allocated via the web administrator console by the District's I.T. team. Exchange Online, Lync Online, SharePoint Online, SkyDrive Pro and Office WebApps can be enabled at the District's discretion altogether, individually or any combination best suited to the District's needs.

## ***Warranty and Support***

MLTI is including managed services, which cover the portable computing device for four years. This custom support and maintenance covers parts and labor in support of portable device under normal wear as well as coverage for defective units. To meet availability and timely replacement requirements this custom support is being accomplished by the use of "hot-spare replacement units" and a return to repair depot strategy. These hot-spare units will be supplied in the same configuration as the regular student devices. End user replaceable parts like keyboard, mouse, battery and power bricks will also be available to school districts. The primary 6-cell battery and replacement batteries carry a one-year limited warranty. The charging stations are covered under warranty as a part of the managed services supplied.

HP is providing multiple ways for portable computing devices to be updated and re-imaged. USB drives containing the current Master OS Image, as well as individual District customizations will be provided when manually updating devices, and each device is equipped with LabTech's remote monitoring and management system, which provides a more hands-free option. This cloud-based, over-the-air service continually monitors all managed devices and checks for relevant software updates that are then automatically applied to each machine. This dual system provides options when updating or installing software. It can be done manually by storing the software on the USB drive, or automatically by pushing software through the LabTech system directly and immediately onto the device, or the LabTech system can build the new software into the annual Base image to be incorporated when the device is next re-imaged.

Further technical support can be accessed through HP's Help Desk, available Mondays through Fridays, from 6:00 AM to 10:00 PM, at a toll-free number that will be provided to the local Technology Assistant. This Technology Assistant should be the first point of contact for students and teachers before the Help Desk is called to ensure coordination of resolution activities. Once a call has been put through, incidents that cannot be resolved remotely will be escalated to the appropriate support team and dealt with in a timely fashion.

MAINE LEARNING TECHNOLOGY INITIATIVE  
2013-2017 Deployment IV

***HP ElitePad 900 Information***

**Dimensions**

- Height: 0.36 inch (9.2 mm)
- Width: 7.00 inches (178 mm)
- Depth: 10.28 inches (261 mm)
- Weight: Starting at 1.38 lbs (630 g)

**Connections and expansion**

- SIM/Micro SD Card Access
- Combo stereo, headphone and microphone jack
- Power Connector
- HP ElitePad USB Adapter
- 2 USB ports on Jacket
- HDMI connection

**Communications**

- Support for secure, integrated wireless LAN
- AR6004 802.11a/b/g/n 2x2 WiFi + AR 3002 BT4.0 Combo Adapter

**Environmental Status Report**

- IT ECO declaration
- This product is greater than 97.9% recycle-able when properly disposed of at end of life.
- This product does not contain any of the following substances in excess of regulatory limits (for reference of these limits please refer to the HP General Specification of the Environment)
- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants – may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

- Nickel finishes that release greater than 0.5 µgrams/cm<sup>2</sup>/week, measured according to EN 1811:1998, are not used on any product surface designed to be frequently handled or touched by users.

**Display**

- 14" diagonal LED-backlit HD anti-glare (1366 x 768)

**Graphics and video support**

- Intel Graphics Media Accelerator ± 533 MHz

**Input**

- Built in software keyboard
- Included USB attached keyboard
- Capacitive multi-touch screen with digitizer

**Audio/Visual**

- Intel Smart Audio DSP with Realtek ALC5642 codec
- Integrated stereo speakers
- Integrated dual-microphone array
- Integrated 1080p with LED (front facing) camera
- 8MP (rear facing)

**Processor and memory**

- Intel® Atom™ Z2760 Processor, 1.5 GHz
- 4GB DDR3 PC3-10600 SDRAM, 1600 MHz
- 2 GB memory

**Storage**

- 32 or 64 GB embedded Multi Media Card (eMMC) SSD

**Battery and power**

- 2-cell polymer HP Long Life battery
- External 10-watt HP ElitePad 10W Smart A/C Adapter

**MAINE LEARNING TECHNOLOGY INITIATIVE**  
2013-2017 Deployment IV

The following list of software titles are preloaded onto the MLTI devices. Additional software and applications are available at the Windows and Office Store if desired.

Windows 7 <a href="http://www.windows.microsoft.com">www.windows.microsoft.com</a>	Microsoft's latest operating systems. Included with Windows are popular tools for the classroom such as; calculator with scientific, statistics, programmer and unit conversions, Snipping Tool, Photo and Video Galleries, ClearType, Sticky Notes, integrated desktop search and more. Future upgrades available under MLTI. Accessibility details may be found at: <a href="http://www.microsoft.com/enable">www.microsoft.com/enable</a>
Office Professional 2013 <a href="http://www.office.microsoft.com">www.office.microsoft.com</a>	World's most widely used suite of desktop productivity applications. Future upgrades available under MLTI
Access	Desktop database
Word	Robust Word Processing application
Excel	Spreadsheet application consisting of commonly used formulas and data analysis tools teachers and students are expected to know how to use.
Lync	Instant Messaging, Presence, peer-to-peer audio/video calling, webinar engine for presentations and distance learning
PowerPoint	Presentation application
Publisher	Desktop publishing application with emphasis on page layout and graphic design
Outlook	Robert communications client for managing email, calendar, tasks, contacts, notes and journals through unified interface. Also allows for shared calendar management, delegates, room scheduling, etc..
OneNote	Every student and teacher's digital notebook with endless pages! Free-form note taking application that captures handwritten notes, typed notes, audio notes, drawings, screen clips.
Office 365 for Education (Cloud Service) <a href="http://office.microsoft.com/en-us/academic/">http://office.microsoft.com/en-us/academic/</a>	Microsoft's cloud-based service that provides anywhere access to Office-based applications and Office-based servers via browser and mobile devices.
Exchange Online	Enterprise class messaging and calendaring systems that provides 25GB inbox for all users
Office Web Apps	'webified' companion to Office Professional rich client suite. Provides true fidelity viewing experience with core editing capabilities for Word, Excel, PowerPoint, OneNote and Outlook based files while enabling the user to freely share and collaborative, in real time in the documents with fellow students and/or colleagues all within the browser.
SharePoint Online	Classroom/teacher/team/department/school and/or student sites for online storage of documents, group collaboration and other portal needs. <b>Every tenant receives 10GB of pooled storage plus 500MB per user up to 25TB of total online storage</b>
Lync Online	Web conferencing for distance learning, connecting classrooms across the state or across the world, broadcasting school committee meetings and recording for on-demand viewing
SkyDrive Pro	Synchronize personal files across multiple devices and

**MAINE LEARNING TECHNOLOGY INITIATIVE**  
2013-2017 Deployment IV

	with the ‘cloud’. Share files and folders with fellow students and co-workers. <b>Every users receives 7GB of online storage</b>
Internet Explorer <a href="http://www.microsoft.com/ie">www.microsoft.com/ie</a>	Microsoft’s latest web browser leveraging HTML 5 for rich, dynamic web experiences
Digital Learning Suite <a href="http://www.pil-network.com/">http://www.pil-network.com/</a>	Packaged suite of 20 of the most popular teacher resources and classroom tools free for download via Microsoft’s Partners in Learning network
Microsoft Movie Maker	Video editing offering ability to create, edit and publish videos in HD.
Microsoft Photo Gallery	Photo editing, organizing and sharing application
Microsoft Photosynth	Three dimension modeling of digital pictures leveraging pattern recognizing to create detailed, panoramic images allowing for intense zoom-in/zoom-out capabilities
Microsoft AutoCollage	Photomontage desktop application developed by Microsoft Research
Microsoft Songsmith	A musical accompaniment application for Windows that helps students ‘find their spark’! Development by Microsoft Research Songsmith generates musical accompaniment after a voice is recorded.
Bing Maps for Office	Use location data from a given column and plot it on a Bing Map. Provides data visualization with ability to manipulate using Excel
Kodu	Visual Programming allowing children to program characters in a 3D world using rule-based system based on conditions and actions.
Microsoft Mathematics	Free download for Windows and plug in for Office that provides scientific and graphing calculator, unit converter, triangle solve and equation solver. Recipient of Award of Excellence from Tech & Learning Magazine
Math Worksheet Generator	Teachers can create their own Math worksheets using Word
Microsoft Chemistry Add-in for Word	Insert and modify chemical information, such as labels, formulas, and 2-D depictions, within Word. Create inline “chemical zones,” and store and expose chemical information in a semantically rich manner
Microsoft Worldwide Telescope	A state-of-the-art combination of software and Web services, Worldwide Telescope offers terabytes of high-resolution images, astronomical data, and guided tours that bring the universe to your fingertips.
Microsoft Dreamspark (Districts may register for free access and downloads) <a href="http://www.dreamspark.com">www.dreamspark.com</a>	Microsoft Program that supports technical education by providing access to Microsoft software for learning, teaching and research purposes. With emphasis in support STEM-related curriculum Microsoft is providing all of its development tools for application, web, phone and gaming for free for classroom use and teaching.
Microsoft Systems Center Endpoint Protection <a href="http://www.microsoft.com/en-us/server-cloud/system-center/endpoint-protection-2012.aspx">http://www.microsoft.com/en-us/server-cloud/system-center/endpoint-protection-2012.aspx</a>	Client-based management and security agent for virus and malware protection, detection and remediation.
Microsoft Windows Server Client Access License <a href="http://www.microsoft.com/windowsserver">www.microsoft.com/windowsserver</a>	License to access and utilization on premises Windows Servers for file/print, application, Active Directory and policy management

**MAINE LEARNING TECHNOLOGY INITIATIVE**  
*2013-2017 Deployment IV*

Microsoft Exchange Server Client Access License <a href="http://www.microsoft.com/exchangeserver">www.microsoft.com/exchangeserver</a>	License to access on-premises Exchange server for email, shared calendaring, etc..
Microsoft Systems Center Configuration Manager Client Access License <a href="http://www.microsoft.com/en-us/server-cloud/system-center/configuration-manager-2012.aspx">http://www.microsoft.com/en-us/server-cloud/system-center/configuration-manager-2012.aspx</a>	License to access on-premises SCCM server for full client management.
Microsoft SharePoint Server Client Access License <a href="http://www.microsoft.com/sharepoint">www.microsoft.com/sharepoint</a>	License to access on premises SharePoint Servers for in-network 'my sites', collaboration sites and portals
Microsoft Lync Server Client Access License <a href="http://www.microsoft.com/lync">www.microsoft.com/lync</a>	License to access on premises Lync Servers for secure IM, video conferencing, online meetings
GeoGebra	GeoGebra is free and multi-platform dynamic mathematics software for all levels of education that joins geometry, algebra, tables, graphing, statistics and calculus in one easy-to-use package.
SketchUp Pro	Developed for the conceptual stages of design, <b>SketchUp</b> is powerful software that allows for quick and easy 3D form creation. The result is a program that offers easy-to-use tools for students interested in architecture, construction, engineering, commercial interiors, light construction, landscape architecture, kitchen & bath design, urban planning, game design, film & stage, woodworking, and more.