Vol. GE220E

PCM-G®

Education Edition

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Data Center | Networking | Endpoint & Mobility

Optimizing Classroom Technology

Learning tools for the leaders of the future. **PAGE 38**

Is your network protected?

Prevent catastrophic breaches and viruses to your systems. Let our team of experts give you the best security options for your organization. **PAGE 20**

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SOLUTION TECHNOLOGY PRACTICES

Best in Class IT for Your Peace of Mind

DATA CENTER

Whether physical, virtual, converged or software defined, your Data Center is the brain of your organization and PCMG Data Center solutions will keep it agile enough to tackle the most complex challenges.

NETWORKING

PCMG can improve the security and performance of your network wired or wireless, LAN or WAN keeping critical applications like voice and video active so your workforce can stay productive.

ENDPOINT & MOBILITY

Mobility solutions turn end point devices into valuable assets, enabling your team to securely access the organization's networks, data and applications extending the workplace to any place.

SOFTWARE Migrate, deploy and manage your vital software with confidence as our experts provide the most cost-effective software solutions tailored to your specific educational needs.

SECURITY PCMG enables comprehensive end-to-end security solutions from industry leading security hardware, software and service providers. Security is at the core of everything we do.

SERVICE FIRST PCMG offers a full portfolio of services that are built on industry standards, ITIL processes, and over 1000 engineers, technicians, and project managers focused on identifying, designing, and configuring. With decades of real world experience architecting, integrating and managing complex solutions and services, adherence to ITIL processes and a methodology that's focused on your institutions results.

HYBRID CLOUD + CLOUD + ON-PREMISE Deciding the model of IT Solutions and Services for your institution can be challenging. PCMG provides insight and expertise to help you weigh the important flexibility, security, and control factors.

PCMG holds a number of public sector procurement contracts.

Call 1.800.625.5468 or visit pcmg.com

PCMG can help with an **Intel vPro Management Solution**

SCAN CODE to watch video

Inside this issue:

HARDWARE

Systems

Desktop Computers	30-33
Laptops & Notebooks	31, 34-35
Tablet Computers	36

Peripherals & Add-ons

Conference Phones	27
Printers & Scanners	28-29

Data Center Solutions

Servers	7-9, 16-19
Network Storage	10-11, 16-17
Security	22-23, 25
Backup	26

ARTICLES

Windows Server 2003	5
Security Assessment	20
Cisco Security Readiness	21
Chromebooks in the Classroom	38

SOFTWARE

Virtualization Software	13-14
Backup Software	19
Mobility Software	24

TERMS OF USE & SALE **37**

Intel

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PCMG Offers:

Smart IT Solutions for Education

For over twenty-five years, PCMG has been serving the needs of educational institutions, from K–12 to Higher Education. PCMG's education team is ready to serve any need, whether it's a single item purchase or a complex procurement.

Our goal is to always offer the leading solutions and services that are required by our education customers at competitive prices, with fast delivery, and with outstanding service. From notebooks to the data center — and everything in between — PCMG offers what you need to meet your school's IT mission.

Technical Capabilities

Business Direct Sites	Networking & Communications
Academic Licensing	Server Consolidation
Imaging & Replication	Data Management & Storage
Asset Management & Tracking	Security & Access Management

Contracts & Procurement Options

California Multiple Award Schedule	TAPS (Texas Arkansas Purchasing System)
California Department of General Services (Microsoft)	Clark County Nevada School District
Commonwealth of Virginia Accessories, Peripherals and Software	Organization for Educational Technology and Curriculum (OETC)
TIPS (Texas Interlocal Purchasing System)	And more…

We specialize in Blanket Purchase agreements for Educational Institutions. Many individual schools, school districts, and educational cooperative organizations rely on us for the IT products and services required for their institution's specific needs. Contact your PCMG Education Account Executive to learn more about how we can tailor a procurement program designed especially for your requirements.

No Credit Card Surcharges

We accept MasterCard, Visa, Discover, American Express, and Diners Club

PCMG Sales 1.800.625.5468

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Email: sales@pcmg.com

PCMG goes green!

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SFI-00993

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What does End of Support mean for Windows Server 2003 users?

On July 14, 2015 Windows 2003 server support is coming to an end. According to Microsoft, 39% of all systems are currently running on Windows 2003 server, that's 24 million servers worldwide, and 9.4 million of those servers are in the United States. With an estimated 200-day timetable for a full migration, the time to prepare is now, and PCMG is here to help with all your organization's migration needs.

NO NEW UPDATES

Microsoft will no longer develop or release any updates after ending support. That includes any critical updates to patch security holes and feature gaps, leaving your systems vulnerable to security threats.

OUT OF COMPLIANCE

Windows Server 2003 will fail to meet compliance standards. Organizations operating under HIPAA or FERPA laws must upgrade from unsupported infrastructure and migrate from Windows Server 2003 for compliance.

LOST SAVINGS

The average cost of running an outdated system could cost you anywhere from $60,000- $200,000 annually. Aging hardware costs and external security measures to accommodate it will cost more.

HOW PCMG CAN HELP

PCMG is here to give you the proper tools to successfully migrate to a powerful new system. By thoroughly planning out your migration, you'll be given the ability to completely strengthen your technological infrastructure and modernize your systems. Leverage PCMG's expertise and partnership with Microsoft to implement the most effective strategy for migrating off Windows Server 2003.

Prevent a burden on your organization's resources by relying on PCMG's depth of professional engineers and tools. We will provide you an appropriate migration strategy so your organization doesn't run the risk of missing critical dependencies on Windows Server 2003 infrastructure, which could cause degradation of critical applications — or a complete outage.

The PCMG Windows Server 2003 Migration Assessment produces a documented Migration Strategy for your organization, summarizing the environment discovery, assessment, and recommendations for migrating to Microsoft Windows Server 2012. The assessment also provides you a summary of current Microsoft licensing.

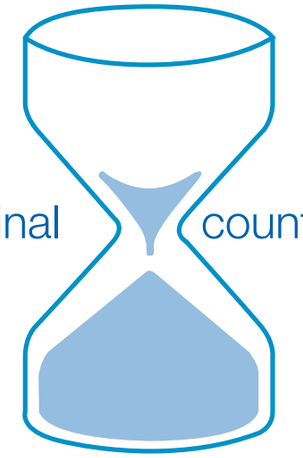
Trust PCMG to plan, implement, and manage, your migration before its too late.

Contact your Account Executive today to learn more about the Windows Server 2003 migration options that best fit your organization's needs.

July 2015 marks the end of support for

Windows Server 2003.

Upgrade your IT environment now using the Intel® Xeon® processor E5 v3 product family with Windows Server 2012 R2—with the option to burst into Microsoft Azure public cloud—to gain breakthrough performance, speed, and flexibility.



When time runs out...

... your agency could be facing risks.

Compliance
Compliance failure can bring workflows to a halt.

Security
Without security updates, sensitive data is at risk.

Inefficiency
Maintenance for custom support agreements will cost more.

And an aging infrastructure can hold you back from virtualization and cloud.

The countdown has already begun

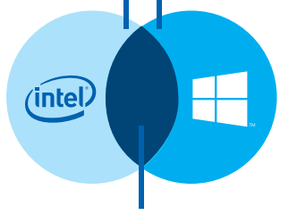
Act now by upgrading. Maximize performance, security, and compliance with the Intel® Xeon® processor E5 v3 product family running Windows Server 2012 R2.

The Intel® Xeon® processor E5 v3 product family provides:

- Optimization for large-scale data centers
- Up to 3x more memory bandwidth
- Up to 18 cores for increased parallelism
- Faster compression
- Up to 2x encryption acceleration

Windows Server 2012 R2 is designed for:

- Enterprise-class scalability
- Enterprise-grade security
- Virtualization of compute, storage, and networking
- Enhanced power management interface



Together, these industry leading solutions:

Provide a scalable IT foundation.

Deliver up to 3.1x higher performance.

Increase energy efficiency across all load levels.

Boost agility.

Initiate Migration Sequence

Step 1: Discover and assess
Discover and assess your apps and workloads running on Windows Server 2003.
- Download and run the Microsoft Assessment and Planning (MAP) Toolkit to assess your server infrastructure.
- Use the Azure VM Assessment Toolkit to get a checklist for moving to the cloud.

Step 2: Target destination
Target a migration destination—in the data center or in the cloud—for each app and workload.
- Create a profile of the costs for moving your infrastructure to the Azure cloud.

Step 3: Upgrade hardware and software
Upgrade hardware to the latest Intel architecture running Windows Server 2012 R2
- Optimize your data center.
- Plan a cloud strategy.

Step 4: Migrate and launch!
Launch a plan by moving apps to the platform of your choice.
- Migrate with Windows Server tools.
- Use the Microsoft SQL Server Migration Assistant.
- Discover IIS Web Deploy.

PCMG holds a number of public sector procurement contracts.

High performance infrastructure

Enjoy top-class server serviceability

HP ProLiant DL380 Gen9

Reliability, serviceability, and near continuous availability, backed by a comprehensive warranty, makes it ideal for any server environment. Deploy the data center standard. Designed to reduce costs and complexity, leveraging Intel's latest E5-2600 v3 processors.

- Intel® Xeon® processor (20MB cache, 2.60GHz)
- 16GB DDR4 SDRAM
- 2U rack-mountable servers
- 2-way server scalability

only $3949.99 #13269606

HP Smart Buy ProLiant DL360 Gen9

Combined with HP DDR4 SmartMemory support up to 768GB while delivering up to a 14% performance improvements over previous generations. Manage your DL360 Gen9 Server in any IT environment by automating the most essential server lifecycle management tasks: deploy, update, monitor and maintain with ease.

- 2 Intel® Xeon® processors (20MB cache, 2.60GHz)
- 16GB DDR4 SDRAM
- 1U rack-mountable servers
- 2-way server scalability

only $3884.94 #13269423

HP takes your systems even further

HP Enterprise Hard Drive

Robust SAS interface Ideal for transaction processing, database applications, and analytics.

- 900GB hard drive
- 2.5" hot-swappable SFF
- 10000 rpm
- SAS 6Gb/s

only $581.99 #9418512

8GB HP DDR4 DIMM

Enables HP ProLiant Gen9 Server series to reliably identify and confirm that installed memory has passed HP tests.

- 8GB capacity
- DDR4 SDRAM
- 1DIMM 288-pin

only $146.99 #13272399

HP Foundation Care 24x7 Service

Comprehensive hardware and software services for HP ProLiant DL360 Gen9. Care Pack aims to increase the availability of your IT infrastructure.

only $859.99 #13287556

Call 1.800.625.5468 or visit pcmg.com

All Flash and No Compromise

Respond to any demand - effortlessly and without exception or compromise

HP 3PAR StoreServ Flash Storage

Deliver all-flash array performance for the cost of spinning disk, and provide mission-critical resiliency and Quality of Service (QoS). HP 3PAR StoreServ Storage has you covered.

INCLUDES

- 1x 3PAR 7200 Flash Array (QR482A)
- 8X HP M6710 480GB 6G SAS 2.5" SSD (E7Y55A)
- 3-year 24x7 proactive care support
- Startup & Installation included

PCM Exclusive price **$41,999.99** #13345699

Make the switch to high speed performance

HP 1820-24G Switch

Offers more choice and flexibility for smaller organizations that require ease of use and lower TCO, while delivering better network performance with an enhanced user experience. Devices are smart-managed, fixed-configuration Gigabit Ethernet Layer 2 switches with basic features in an easy-to-administer solution.

- Smart-managed Layer 2 switch with 24 10/100/1000 and 2 SFP 100/1000 ports
- ARM Cortex-A9 @ 400MHz
- 128MB SDRAM

only **$269.99** #13483642

HP 5400R-44G-PoE+/4SFP v2 zl2 Switch

Mobile campus access solution with HP Smart Rate multi-gigabit ports for high speed connectivity and bandwidth for next wave 802.11ac devices. Enterprise-class resiliency and innovative flexibility and scalability to converged campus networks.

- High performance campus switching and leading edge security
- Multi gigabit bandwidth and PoE+
- 6-bay and 12-bay models

only **$4819.99** #13380701

HP FlexFabric 5900CP-48XG-4QSFP+ Switch

Provides a converged, top-of-rack, data center switch architecture that offers wire once for FCoE converged environments. With 48 converged ports that support 1/10GbE and 4/8 FC, the FlexFabric 5900CP delivers versatile convergence for connecting FC, iSCSI and FC SANs. All 48 ports support LAN, iSCSI, NAS, FC and FC SANs. Delivers 1.28Tbps switching capacity for demanding applications.

Call for price! #9965661

PCMG holds a number of public sector procurement contracts.

Optimized and easy-to-deploy

Simplifying implementation, maintenance, and support of database and application workloads.

ORACLE Gold Partner

The Oracle Exadata Smart Combo delivers Exadata power and impressive performance along with high bandwidth ZS3 storage for backup plus data protection options for your database. It's a complete, ready-to-go solution that saves you power, floor space, and integration costs while providing low TCO and ultra-fast performance for all of your users and backup processes.

- Fastest possible backup and recovery for Exadata with ZS3 storage
- Highly Available Database and Disaster Recovery
- No more Database to Storage tuning
- Run Database queries FASTER
- Analyze Data warehouses FASTER
- Lower TCO with pay as you grow (from 1/8th rack)
- Faster ROI

Oracle's Database Appliance is a fully redundant integrated system designed to save you money

JD Edwards EnterpriseOne software, optimized for the powerful Oracle engineered system, gives you the complete IT solution for your agency.

The Oracle Database Appliance

An integrated solution of database and system software, server, storage, and networking, the Oracle Database Appliance is engineered to work together, in a single package that is simple to install and manage.

Oracle's JD Edwards EnterpriseOne

This software suite of 80 enterprise resource planning applications combines value, standards-based technology, and deep industry experience to offer comprehensive solutions with low total cost of ownership.

Oracle Real Application Clusters

Ensures database availability by removing the database server as a single point of failure. Real Application Clusters reduce downtime and maintain continuity.

The Smart Combo's cost-effective to run with integrated one-click patching and maintenance, plus savings on floor space and power consumption which frees up budgets.

The Flexibility Model
With the capacity-on-demand database software licensing model, you only pay for what you need.

Call 1.800.625.5468 or visit pcmg.com

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Rack Servers equipped for the heaviest workloads

Cisco UCS C220 M3 Entry 1 Rack Server

The Cisco UCS C220 M3 Rack Server is designed for performance and density over a wide range of business workloads, from web serving to distributed database.

Perfect for a variety of environments

Building on the success of the Cisco UCS C200 M2 Rack Servers, the enterprise-class Cisco UCS C220 M3 server further extends the capabilities of the Cisco Unified Computing System portfolio in a 1-rack-unit form factor. And with the addition of the Intel® Xeon® processor E5-2600 and E5-2600 v2 processor product families, it delivers significant performance and efficiency gains.

The Cisco UCS C220 M3 offers great performance and density over a wide range of business workloads, from web serving to distributed database.

- Two Intel® Xeon® E5-2600 or E5-2600 v2 processors
- Up to 512GB of RAM with 16 DIMM slots
- Four or eight SAS/SATA/SSD drives
- 2 PCI Express Gen 3 slots and two 1GE LAN interfaces
- Trusted Platform Module (TPM) for authentication access

only **$2429.99** #9837487

#9837475 Cisco UCS C220 M3 Perform 2 Rack Server **$5739.99**

Cisco UCS C240 M3 Perform 1 Rack Server

The Cisco UCS C240 M3 Rack Server is optimized for performance and scalability over a wide range of applications from storage-intensive infrastructure workloads ranging from big data and ERP, to collaboration, to virtualization and consolidation.

Power-packed and ready to deliver

This server can deliver 768GB of memory (24 DIMM slots), up to 24 hard drives and has five PCIe slots for expanded I/O capability including 10GbE FCoE capable cards. Great processor performance is delivered using the Intel® Xeon® E5-2600 v2 Series Ivy Bridge Processors.

- Intel® Xeon® processor (50MB cache, 2.20GHz)
- 32GB DDR3 SDRAM
- 2U rack-mountable server
- 2-way server scalability
- SATA 6Gb/s

only **$5229.99** #9837495

#9072675 Cisco UCS C240 M3 Rack-Mount Server **$17,949.99**

Route your office to a new level of efficiency

Cisco 892 ISDN Desktop Router

Designed to deliver secure broadband, Metro Ethernet, wireless LAN connectivity, and business continuity for enterprise small branch offices. These fixed-configuration routers also come with powerful management tools, such as the web-based Cisco Configuration Professional, which simplifies setup and deployment. The Cisco 892 model includes an integrated ISDN BRI S/T interface.

only **$836.99** #7827320

Cisco Cisco 7301 Desktop router

Optimized for flexible, feature rich IP/MPLS services at the customer network edge, where service providers and enterprises link together. The Cisco 7300 Series can be used for enterprise campus or Internet gateway applications or be deployed by service providers.

only **$13,229.99** #9347063

Cisco 3945 Desktop Router

The new Integrated Services Routers Generation 2 are future-enabled with support for new high capacity DSPs (Digital Signal Processors) for future enhanced video capabilities, high powered service modules with improved availability, multi-core CPUs, Gigabit Ethernet switching with enhanced POE, and new energy visibility and control capabilities while enhancing overall system performance.

- 3U rack-mountable Integrated Services Router
- 3 x RJ-45 10/100/1000Base-T Network WAN
- 1GB standard memory
- 2GB DRAM
- Power supply redundant

Delivers highly secure data, voice, video, and application services to the small office.

only **$12,169.99** #7956315

#13214435 Cisco 3945 Voice Bundle - router **$13,379.99**

Evolution and Trends of Virtualization Technology

Welcome to a faster more efficient IT infrastructure

Virtualization software has rapidly transformed the IT landscape and has changed the way people compute. Our servers, storage devices and networks have been transformed and 'virtualized' from physical and tangible artifacts to mere 'files' sitting atop a thin layer of software called a hypervisor. Decoupled from the physical world, these compute resources and virtual machines can be dynamically allocated with just a few clicks and keyboard strokes.

Virtual Machine means no hardware

The operating system can't tell the difference between a virtual machine (vm) and a physical machine, nor can applications or other computers on a network. Virtual machines think and act like a "real" computer, but since VMs are composed entirely of software and contain no hardware components they offer a number of distinct advantages over physical hardware. VMs can be copied, replicated, migrated and even scripted; they are after all merely files sitting on a layer of software.

A variety of advantages

Virtualization began in 1960 with mainframe computers, to methodically and logically divide the system's resources provided by mainframes between different applications. IBM began this work in 1964, but the full adaptation of server virtualization wasn't until 1999 when VMware introduced their VMware Virtual Platform to the market. VMware found a way to completely virtualize an IT's hardware infrastructure. The advantages brought on by virtualizing technology are more impactful than ever before. Virtualization has enabled IT to more effectively deal with shrinking IT budgets, scarcity of resources, the need for operational flexibility, energy conservation, and dramatically increased information security. If your organization has already taken the leap into virtualization, what's next on the horizon?

Hybrid offers complete control

For many organizations, developing a hybrid cloud strategy is the next logical step. Bridging your virtualized data center with the public cloud (aka Hybrid Cloud) combines the advantage of scalability and cost-effectiveness that a public cloud computing environment offers, without exposing critical applications and data to third-party vulnerabilities. Adopting hybrid architecture provides you with complete control over your cloud environment, higher security and privacy control, the ability to react and evaluate outages, man-made issues or natural disasters, and will often provide additional budgetary flexibility.

A new wave of VM

We are likely to see the wide spread adoption over the next couple years of both automated and virtualized networks, security and even virtualized operations. Both virtualization and automation have become a necessity, both for driving down costs and enabling us to operationalize our ability to deliver new services at an ever-increasing pace. But the biggest change might just be a completely new approach.

Adopting the new approach

Companies like Docker and CoreOS, with their recently announced Rocket container technology are quickly gaining attention and trying to plant a flag both in your data center and in the cloud. In some ways the approach is almost anti-virtualization. The intent is to provide a self-contained platform for building, shipping and running distributed applications. Essentially providing applications or portions of an application packaged in self-contained lightweight containers that run independent of either a physical or virtual platform. ■

Contact your PCMG Account Executive today
to gain access to the highest quality technology, industry leading partners, and exceptional service.

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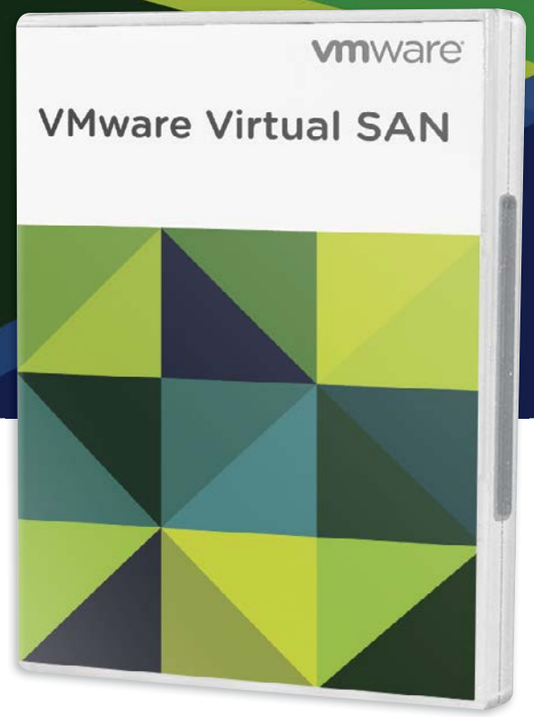
Benefit from simplified storage

VMware® Virtual SAN™ is radically simple, hypervisor converged storage for virtual machines. It delivers enterprise-class, high performance storage for virtualized applications, including critical applications. Its seamless integration with VMware vSphere® and the entire VMware stack makes it the simplest storage platform for virtual machines.



vmware®

VMware® Virtual SAN 6.0 License

- Software-defined storage embedded in vSphere
- Runs on any standard x86 server
- Pools HDD/flash into a shared datastore
- Managed through storage policy-based management framework
- Offers high performance through flash acceleration
- Highly resilient with zero data loss in the event of hardware failure

only $2219.99 #13453543

Virtual SAN 6.0 offers several major enhancements and additional capabilities that broaden the applicability of the proven and reliable Virtual SAN technology to critical environments as well as blade deployments. It delivers:

Simple Storage for VMs

Use virtual machine-centric storage policies to provide finely granular control and automation of storage service levels. Self-tuning capabilities automatically rebuild and rebalance storage resources to align with the service levels assigned to each VM. Full integration with vSphere and the entire VMware stack delivers an efficient and cost-effective operational model.

Lower TCO by up to 50%

Enable flexible, predictable "grow-as-you-go" scaling and eliminate large up-front investments. Inexpensive industry-standard server components reduce Lower OpEx by simplifying storage management with vSphere tools and automating management of storage service levels through VM-centric policies.

High Performance

Enable read/write caching using server-side flash. Virtual SAN is built into the VMware hypervisor, optimizing the I/O data path to deliver much better performance than a virtual appliance or an external device. Virtual SAN All-flash architecture provides data persistence on SSDs to deliver extremely high performance with consistent, fast response time.

Elastic Scalability

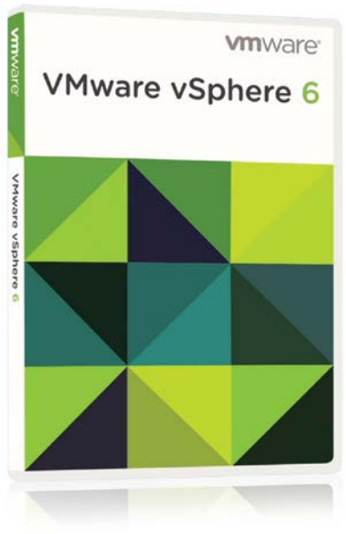
Scale capacity and performance independently by merely adding new HDDs and SSDs to existing hosts (scale-up). Virtual SAN 6.0 can scale up to 64 nodes per cluster for both hybrid and all flash architectures and up to 200 virtual machines per host (total of 6400 virtual machines per cluster).

Software-Defined Storage for vSphere

Hypervisor-converged architecture enables storage and compute to run on the same physical host with minimal overhead. Seamless integration with the vSphere Web Client and the entire VMware stack simplifies management.

vmware® 6.0

VIRTUALIZE APPLICATIONS WITH CONFIDENCE



VMware vSphere Enterprise Plus 6.0 License

Server virtualization is the remedy for costly infrastructure sprawl, allowing you to run multiple operating systems and applications on a single computer and improve productivity by reducing physical servers (with each operating at full computing capacity).

only $3429.99 #13453654

VMware vSphere®, the industry-leading server virtualization platform, is purpose-built for both scale-up and scale-out applications. It redefines availability, and simplifies the virtual data center.

All editions of vCloud Suite 6.0 include vSphere 6.0 Enterprise Plus as a component. vCloud Suite Enterprise is a comprehensive offering for resilient, secure, and compliant private clouds that delivers policy-based workload automation, reduces downtime, and accelerates an agency solution's time-to-market.

What vSphere does

Powerful Server Virtualization
Virtualize your x86 server resources and aggregate them into logical pools for allocation of multiple workloads.

Consistent Automation
Lower operating expenditures and minimize errors by streamlining routine tasks with vSphere's accurate and repeatable solutions.

Network Service
Get network services optimized for the virtual environment, along with simplified administration and management.

Robust Security
Protect your data and application with the industry's most secure "bare-metal" server virtualization platform.

Efficient Storage
Reduce the complexity of back-end storage systems and enable the most efficient storage utilization in cloud infrastructures.

High Availability
Maximize uptime across your cloud infrastructure, reducing unplanned downtime and eliminating planned downtime for server and storage maintenance.

Cloud API Integration
Provide choice on how to consume your cloud environment.

Support
VMware's support team is standing by to help with any virtualization issues you may face.

PCMG holds a number of public sector procurement contracts.

IT'S NOT A GAME. **IT'S THE FUTURE OF IT.**

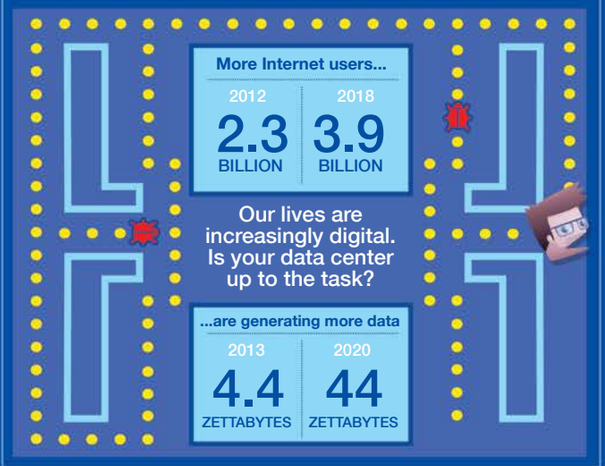
DATA CENTER 2.0

YOUR MISSION Optimize and rack up huge innovation scores for your enterprise. Get Started Now!

1. Avoid the pitfalls of an aging infrastructure.

- Inefficient Server Performance
- Shrinking Storage Capacity
- Increasing Network Latency

2. Prepare to gobble up immense amounts of data.



3. Level up to strengthen your data center.

LEVEL 4 Master cloud computing.
Build your cloud on a highly virtualized environment for substantial efficiency gains and cost savings.

90 Days to 3 hours reduced provisioning time achieved by Intel IT

$9M Intel IT's net savings during five years, with $20 million anticipated total program net present value (NVP)

LEVEL 3
Earn 10x, 40x, and 100x network speed bonuses.

400% Increased network bandwidth when Intel IT upgraded to 10 gigabit Ethernet (GbE)(over three years)

Upgrade 100Mbps and 1GbE connections with 10, 40, and 100GbE connections.

LEVEL 2
Capture more valuable data.
Optimize storage systems. Start with advanced capabilities: data deduplication, thin provisioning, and compression. Add solid-state drives.

$33M Intel IT's cost avoidance from new capabilities, accelerated refresh and increased utilization

27% Intel IT's increase in server capacity when Intel Solid-State Drives deployed as "fast swap" drives

LEVEL 1
Get more compute and virtualization power.
Consolidate servers and boost efficiency performance, and security.

60% Server virtualization across Intel's Office and Enterprise environments

35:1 Virtualization ratios achieved by Intel IT using the latest Intel® Xeon® processor-based servers

4. Explore what your enterprise can do.

Move into the cloud with the latest infrastructure technologies in place.

SEIZE NEW OPPORTUNITIES

- Tackle advanced analytics.
- Adopt social and collaborative computing.
- Take on enterprise mobility initiatives.

5. Get in the optimization game.

Source: http://www.intel.com/content/dam/www/public/us/en/images/illustrations/data-center-best-practices-infographic.png

Scale smarter
Manage easier
Innovate faster

Dell PowerEdge: the latest generation

Versatile local storage, zero-touch deployment, embedded intelligence and more – all in the new PowerEdge servers.

M630

A 2-socket blade server, the M630 delivers the same processing power and memory scalability as other form factors. It can be utilized within the Dell M1000e and VRTX infrastructure chassis, allowing optimized deployment anywhere from remote offices to the largest data center.

PowerEdge R730xd

A performance 2-socket server designed for maximum storage flexibility and scale out efficiency in just 2U of rack space.

PowerEdge R730

A 2-socket, 2U rack server with support for multiple GPUs or accelerator cards, the R730 offers tremendous performance and flexibility for demanding data centers.

PowerEdge R630

Packing all of the performance of a 2-socket server in just 1U of rack space, the R630 delivers incredible resource density for your data center while still offering highly flexible scalability.

PowerEdge T630

A 2-socket tower server which can also be utilized as a 5U rack-mounted server, the T630 delivers extensive internal storage, performance and scalability.

Combining industry advances in processing and memory with customer-inspired Dell innovations, next generation PowerEdge servers, help IT organizations to:

Accelerate application performance. *In-server Flash configurations, Dell PowerEdge servers accelerates data intensive applications such as real-time data analytics, databases or ERP.*

Improve data center efficiency. *In-server tiered storage and hybrid Flash/ rotational storage are ideal for deploying software defined storage solutions.*

Grow data centers and cloud easily. *The agile scale out server solutions can be easily deployed, letting IT react quickly to operational demands.*

Optimize your enterprise with Dell Server solutions.
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Dell Storage SC4020 Affordable all-flash

Regardless of industry or size, infrastructures like yours are running enterprise storage workloads– U&C, OLTP, database, ERP – in both remote offices and data center locations. To stay efficient, your critical applications need to be able to access data quickly and efficiently to turn information into insights.

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- Up to 72% lower cost versus competing pure flash arrays
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More Users in a Compact Form Factor

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Ultimate security and threat management

Dell SonicWALL TZ Series is one of the most secure Unified Threat Management (UTM) firewall for remote sites, branch offices and distributed enterprises. Unlike consumer-grade products, the TZ Series delivers effective anti-malware, intrusion prevention, content/URL filtering and application control capabilities along with the broadest secure mobile platform support for laptops, smartphones and tablets.

Dell SonicWALL TZ 205 TotalSecure 1 Year

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Dell SonicWALL TZ 215 TotalSecure 1 Year

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Dell SonicWALL Network Security Appliance 2600 TotalSecure

Delivers gateway anti-virus, gateway anti-spyware, and application intelligence for organizations of all sizes.

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Dell SonicWALL Network Security Appliance 250M TotalSecure

Acts as the first line of defense against viruses, Trojans, key-loggers and attacks.

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Dell SonicWALL Network Security Appliance 3600 TotalSecure

Provides comprehensive next-generation firewall protection without compromising performance.

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Get up to a 50% boost in performance and up to a 50% increase in power savings.

More power. Less hassle.

Lenovo ThinkServer RD450 70DC

The Lenovo ThinkServer RD450 boasts powerful processors. With plenty of memory via multiple slots, there is a tremendous increase in capacity over the previous generation. Because the RD450 uses advanced memory, you get up to a 50-percent boost in performance and up to a 50-percent increase in power savings — enabling your applications to run faster and more efficiently. These improvements, coupled with the RD450's highly flexible design, make it perfect for your infrastructure

- 2U, 2-way rack-mountable server
- 1 x Xeon® E5-2630V3 (20MB cache, 2.40GHz)
- 8GB DDR4 SDRAM RAM
- 3.5" hot-swappable bays
- Lenovo AnyRAID Design on 2.5" Chassis
- DVD-Writer AST2400

only **$1679.89** #13367159

Lenovo ThinkServer TS140 70A4

When setting up your network, it's always best to have a server. And a reliable server for your agency is the Lenovo Thinkserver TS140.

The TS140 Lenovo Thinkserver is an enterprise-class tower server that is easy to set up and is very affordable. This means even small agencies can start a small network for office computers.

- 4U tower server
- Intel® Xeon® E3-1225V3 (8MB cache, 3.20GHz)
- 4GB DDR3 SDRAM
- ThinkServer RAID 100
- 1600MHz memory speed
- Intel® HD Graphics P4600

only **$537.99** #9783594

Lenovo ThinkServer TS440 70AQ

The ThinkServer TS440 is a true enterprise-class server. Thanks to the increased performance of the powerful processors, the TS440 has the power and speed to handle your workload with ease. You can also choose between enterprise SAS or SATA hot-swap drives. Plus, the TS440 is designed for 24/7 operation and is certified for MSP support with many ecosystem vendors.

- 5U tower server
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- 4GB DDR3 SDRAM
- ThinkServer RAID 100
- 1600MHz memory speed
- Intel® HD Graphics P4600

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The fast, cost-effective system backup solution

Veeam Backup & Replication Enterprise Plus for VMware

Veeam Backup and Replication is best way to back up and protect your virtual machines. It does not just support your virtual environment - rather, it leverages that environment to provide a whole level of protection for all your virtualized applications, services and data.

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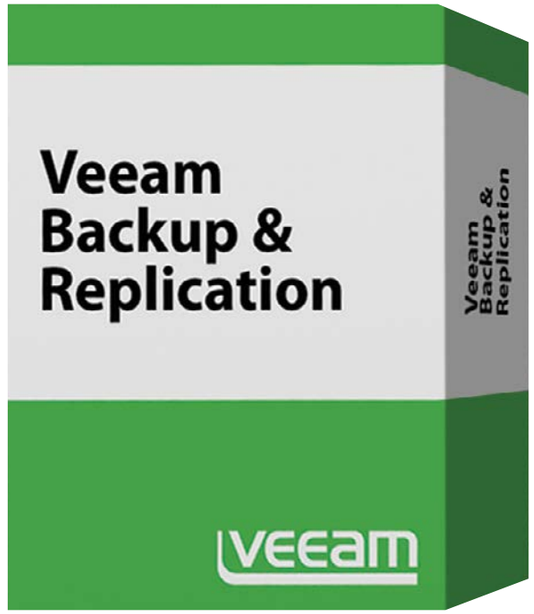
Veeam Backup and Replication provides exceptional value. It is licensed per CPU socket on the ESX host and includes backup, replication, deduplication and centralized management. There are no per-agent, per-VM or per-application license fees.

- 1 CPU socket license
- Data protection and streamlined disaster recovery
- Low-risk deployment, production-like test environment
- Proactive monitoring and alerting of issues



only **$4189.99** #13430240

Next generation firewall capabilities

Meraki Cloud Managed Switch MS220-48

The Meraki MX is a complete next gen firewall and branch gateway solution, designed to make distributed networks fast, secure, and easy to manage. The world's first cloud-managed security appliance, the Meraki MX provides complete visibility and control in different environments.

- Application-aware traffic control
- Prioritize critical applications and throttle recreational traffic.
- Content filtering: CIPA compliant category-based content
- Stateful firewall: set firewall policies through interface.

only **$21089.99** #8986391

Meraki Cloud Managed Ethernet Aggregation

Cisco Meraki aggregation switches extend Meraki's cloud management to campus deployments. Just like access switches, these 10 Gigabit Ethernet aggregation switches are built from the ground up to be easy to manage.

- 1U rack-mountable switch
- 48 x 10 Gigabit SFP+ managed switch
- 960Gbps switching capacity
- 4095 tagged VLANs

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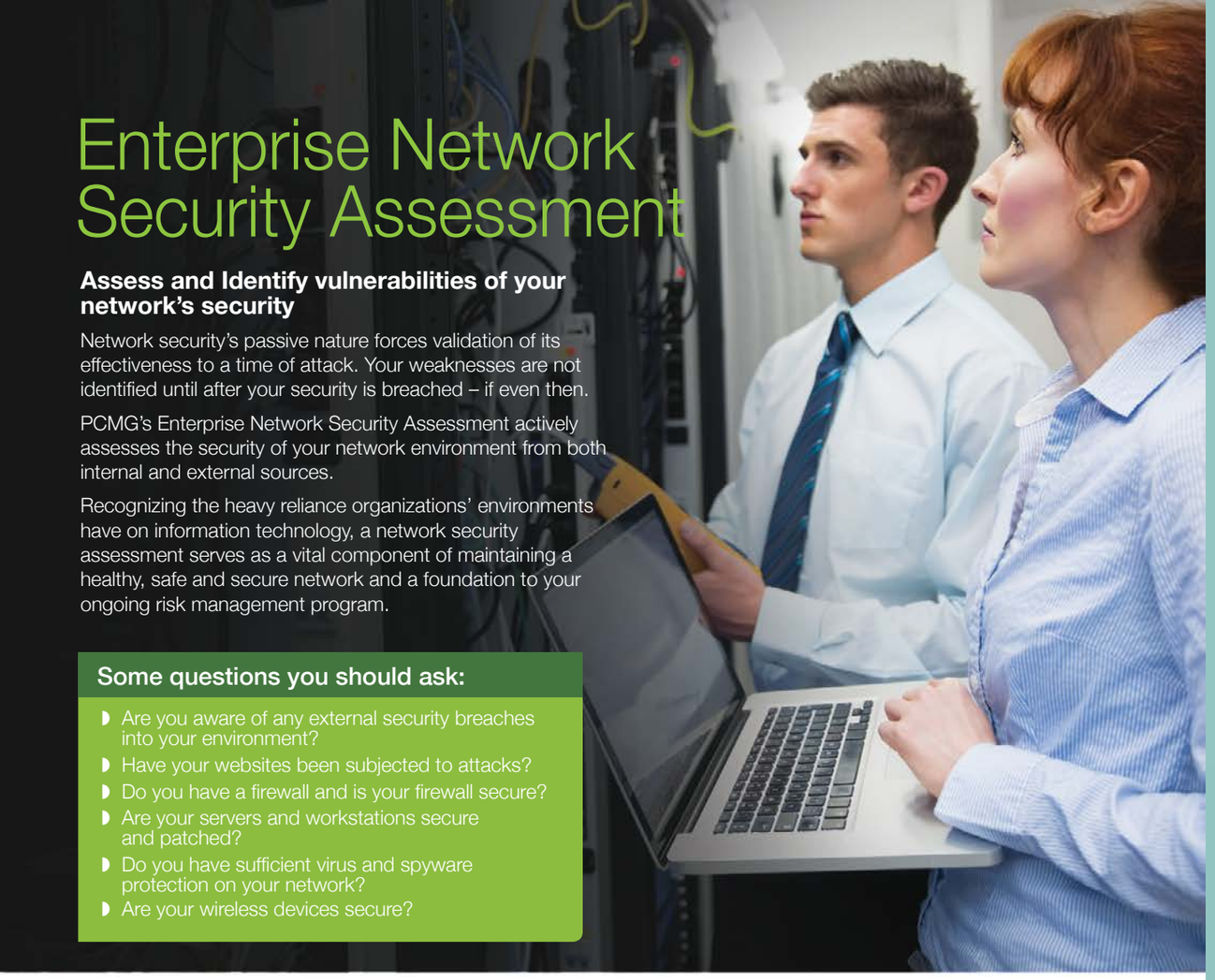
Enterprise Network Security Assessment



Assess and Identify vulnerabilities of your network's security

Network security's passive nature forces validation of its effectiveness to a time of attack. Your weaknesses are not identified until after your security is breached – if even then.

PCMG's Enterprise Network Security Assessment actively assesses the security of your network environment from both internal and external sources.

Recognizing the heavy reliance organizations' environments have on information technology, a network security assessment serves as a vital component of maintaining a healthy, safe and secure network and a foundation to your ongoing risk management program.

Some questions you should ask:

- Are you aware of any external security breaches into your environment?
- Have your websites been subjected to attacks?
- Do you have a firewall and is your firewall secure?
- Are your servers and workstations secure and patched?
- Do you have sufficient virus and spyware protection on your network?
- Are your wireless devices secure?

Through PCMG's Enterprise Network Security Assessment vulnerabilities are identified and measurably exploited to provide you with

Network Assessment
Real-world assessments of your network and website protection from external sources-leveraging the same strategies and tools that hackers employ today.

Environment Assessment
Professional assessments of your internal security, permissions, and network protection-leveraging the same tools that provide access throughout your environment.

Expert Advisement
Professional recommendations on securing your environment. PCMG's engagement is fast, built by network security experts, and delivered by our experienced engineers.

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How secure is your organization?

The Cisco Security Capabilities Benchmark Study reveals disconnects in perceptions of security readiness.

59% of chief information security officers (CISOs) view their security processes as optimized, compared to 46 percent of security operations (SecOps) managers.

75% of CISOs see their security tools as very or extremely effective, with about one quarter perceiving security tools as only somewhat effective.

91% of respondents from organizations with sophisticated security strongly agree that company executives consider security a high priority.

LESS THAN 51% of respondents use standard tools such as patching and configuration to help prevent security breaches.

Large and midsize organizations are more likely to have highly sophisticated security postures, compared to organizations of other sizes included in the study.

Changing the View Toward Cyber security

Cisco security experts suggest that it is time for organizations to start viewing their approach to cybersecurity differently if they want to achieve real world security. Strategies include adopting more sophisticated security controls to help defend against threats before, during, and after an attack; making security a topic at all levels; and implementing the Cisco Security Manifesto, a set of security principles that can help organizations become more dynamic in their approach to security—and more adaptive and innovative than adversaries. Attackers have become more proficient at taking advantage of gaps in security to hide and conceal their malicious activity.

Users—and security teams—are both part of the security problem. While many defenders believe their security processes are optimized—and their security tools are effective—in truth, their security readiness likely needs improvement. What happens in the geopolitical landscape, from legislation to security threats, can have a direct impact on operations and how an organization addresses security. And taking into consideration all these factors, it has never been more critical for organizations of all sizes to understand that security is a people problem, that compromise is inevitable, and that the time to take a new approach to security is now.

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New Dell SonicWall TZ 400 Security Appliance

The Dell SonicWALL TZ Series of next-generation firewalls (NGFW) is ideally suited for any organization that requires enterprise-grade network protection. SonicWALL TZ Series firewalls provide broad protection from compromise by combining advanced security services consisting of on-box and cloud-based anti-malware, anti-spyware, intrusion prevention system (IPS), and content/URL filtering. To counter the trend of encrypted attacks, the new SonicWALL TZ Series has the ability and processing power to inspect SSL connections against the latest threats, providing an even higher level of security.

Advanced technology for better protection

Backed by the Dell SonicWALL Global Response Intelligent Defense (GRID) network, the SonicWALL TZ Series delivers continuous updates to maintain a strong network defense from cyber-criminals. The SonicWALL TZ Series is able to scan every byte of every packet on all ports and protocols with almost zero latency eliminating bottlenecks and allowing organizations to use security as an enabler, not an inhibitor. It also features an integrated wireless access controller for fast, secure mobile access.

The graphical user interface in the TZ Series eliminates the choice between ease-of-use and power.

- New Dell SonicWALL TZ Series is the fastest, small form-factor, advanced deep packet inspection firewall
- New firewalls designed to inspect SSL traffic and eliminate encrypted threats
- With integrated 802.11ac wireless controller, the new SonicWALL TZ provides a complete wireless network security solution

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The perfect integrated security solution for any size environment

FORTINET

Fortinet FortiGate 140D Security Appliance

The FortiGate-100D series of network security platforms deliver fully integrated Next-Generation Firewall (NGFW) and Unified Threat Management (UTM) capabilities for midsize businesses, branch offices, and small distributed enterprises. High performance throughput, security defenses, advanced threat protection, integrated wireless and switching enable you to deploy enterprise-class services across your organization. The FortiGate-140D features high port density and integrated switching, enabling enterprises to combine switching and security functions into a single platform.

- Extremely high port density supports your growing network, with up to 42 1-gigabit Ethernet interfaces
- Connects Wireless Access Point, 3G4G Extenders, VoIP Handsets and IP Cameras to your network security platform and away from power supplies
- Hardened security for environments with high levels of electrical and radio-frequency interference

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Support your developing network with Cisco's highest availability, secure router

CISCO

Cisco 2921 Security Bundle Router

The Cisco 2921 Integrated Services Router (ISR) delivers highly secure data, voice, video, and application service. The modular design of the router provides maximum flexibility, allowing you to configure your router to meet evolving needs. The routers offer features such as hardware-based virtual private network (VPN) encryption acceleration, intrusion- protection and firewall functions, and optional integrated call processing and voice mail.

- 1-2 RU modular form factor with Circuit-speed WAN performance up to 75Mbps with services
- 3 onboard digital signal processor (DSP) slots
- 1 internal service module slot for application services
- Fully integrated power distribution supporting 802.3af Power over Ethernet (PoE) and Cisco Enhanced PoE

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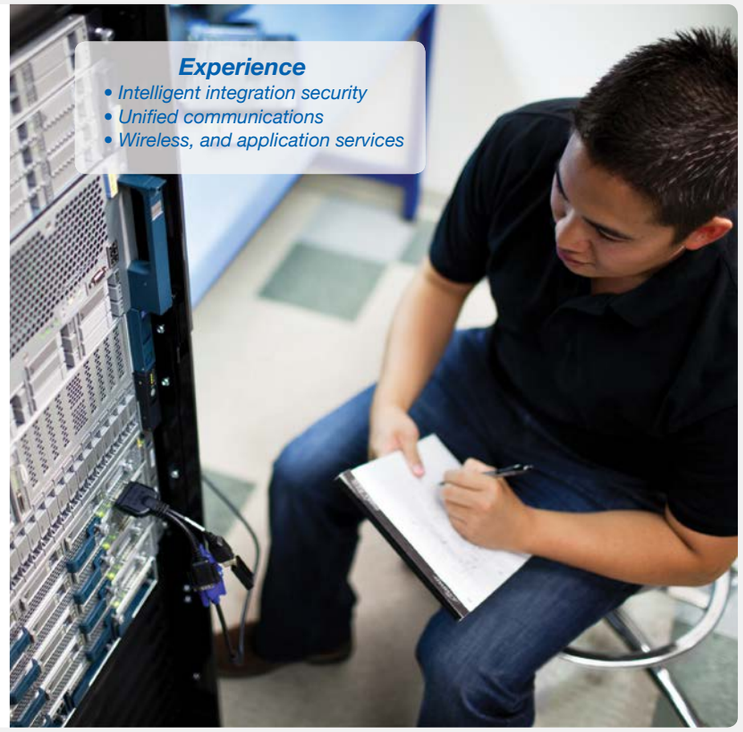

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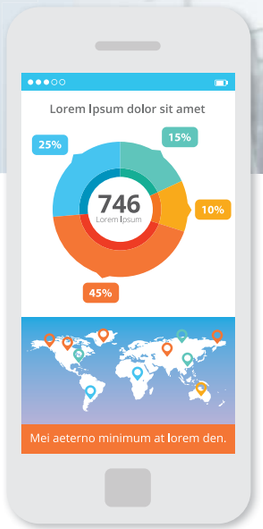
Essential tools for managing a work-on-the-go lifestyle



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MobileIron Enterprise Mobility Management Platform

The MobileIron platform enables IT to secure and manage a diverse set of mobile devices, automatically provision enterprise settings such as Wi-Fi and VPN and provide end-users with secure access to email.

- Multi-OS management at scale
- Enhanced productivity with app management and content integration
- Effective data security and compliance
- Cost-effective and easy integration
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MobileIron

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Full integration streamlines update processes and provides a single point of service for the complete solution.

Thanks to interoperability with more than 400 of the industry's leading solutions, the RSA SecurID Appliance fits easily into any environment.

RSA SecurID Appliance 130 Security Appliance

The RSA SecurID Appliance solution can be configured to meet the varying needs and preferences of small and large organizations. The solution is capable of handling from as few as 10 users to millions of users per server. The RSA SecurID Appliance 130 is designed to satisfy the requirements for simple, cost-effective deployments in companies of any size. The RSA SecurID Appliance solution supports all RSA authentication manager license types and can meet a variety of deployment models. For lower cost solutions, the RSA SecurID Appliance 130 can be deployed as a primary and replica servers.

- Rack Mountable security appliance
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- 250GB HDD
- SATA 1.5Gb/s
- 1U GigE

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This powerful 6-line entry-level media phone is for workers that handle a low to moderate volume of calls and need crystal clear communications. Give your employees the best experience with this high quality UC media phone. It is designed for a broad range of environments for small and medium organizations.

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The Polycom CX5500 Unified Conference Station

Delivers a unique HD voice and video collaboration experience in Microsoft® Lync™ environments. The CX5500 provides remote participants with 1080p HD active-speaker video that automatically tracks the flow of conversation. It also adds a unique 360-degree panoramic view of the conference room. Meetings are more productive and participants are clearly heard with Polycom's legendary HD Voice technology, now featuring a dynamic audio range of 160Hz to 22,000Hz.

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Polycom CX8000 for Microsoft Lync

Polycom CX8000 for Microsoft Lync extends the rich collaboration features of Microsoft Lync that you are familiar with in a conference room environment and offers optimized group meeting experience for near and remote sites. Polycom CX8000 for Microsoft Lync is purpose-built for Lync 2013 and designed to extend the familiar Lync collaboration experience that people love into conference room environment. The Polycom CX8000 combines the powerful Microsoft Lync software and the intuitive touch control system so that anyone can start face-to-face conversation with interactive content sharing in no time.

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- 1200 x 2400dpi
- 30,000-page monthly duty cycle

xerox

The compact Phaser 6022 color LED printer excels in small office environments.

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The solutions-capable Lexmark CS510de network-ready color laser printer with 2-sided printing standard, a 800 MHz dual-core processor and large capacity of standard memory prints at up to 32ppm black and color.

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- 85,000-page monthly duty cycle

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- 80,000-page monthly duty cycle
- 8" pivoting color touchscreen

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- 80,000-page monthly duty cycle
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Life happens in the real world, where your notebook may be exposed to hazards such as accidental drops, vibration, water, dust and extreme temperatures. The Dell Latitude 14 Rugged Extreme was built for the worst with the most durable materials available. Back that up with all the manageability, security and support you'd expect from a Dell and you've got what you need to get the job done when the going gets rough.

- Expansive 14" outdoor-readable display with gloved touch
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- Customizable RGB backlit keyboard
- Dual native serial ports and optional PCMCIA reader
- Durable pogo-pin docking interface

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Designed for computing perfection

Dell Chromebook 11 (3120)

Enjoy a hassle-free experience with the affordable new Dell Chromebook 11 with easy connectivity, long battery life and automatic security updates.

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- At under three pounds with compact 11.6" displays, it's easy to pop it in a bag and get going

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Built to withstand any environment, it's subject to military-standard testing for durability, and features rubberized LCD and base trim for superior drop protection. Its exclusive, fully sealed keyboard and touchpad provides the industry's best spill protection on a student laptop.

- Intel® Core i3 processor (3MB cache,1.70GHz)
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Microsoft

Powers the software you need

Surface runs desktop software like any other Windows PC. Connect to your organization's network with Windows Pro, connect to additional monitors and printers easily, and enjoy the best experience with Microsoft Office[3] - including Outlook, Excel, Word, PowerPoint - plus Windows Apps, while you touch, type, write, or draw with Surface Pen.

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Surface 3

Surface Pro 3

Built for productivity

Surface is fast and efficient, inside and out. It runs an Intel® processor with Windows Pro, so you can expect laptop features such as easy remote management, trusted Microsoft support plus security features like Bitlocker, Trusted Boot, and Windows Defender. And Surface stands up to heavy use with durable casing and impact resistant optically-bonded glass.

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Customize your experience

Click-in keyboard

Available in a variety of colors, the keyboard doubles as a cover and provides a full typing and trackpad experience.

Dock and do more

Easily transform to a complete desktop workstation with Docking Station.

Write naturally

Write, draw, and annotate documents with the Surface Pen. It feels like a fountain pen in your hand.

Microsoft Complete

Includes an extended warranty to three years, accidental damage protection, and Advanced Exchange for quicker replacement.

4G LTE[4]

No Wi-Fi? No problem. Stay connected with 4G LTE. Available on Surface 3.

Complementary accessories

Up your productivity with accessories made for Surface. Visit Surface.com.

PCMG holds a number of public sector procurement contracts.

HP Classroom Manager software

Classroom control, management, and collaboration with easy-to-use education software

Looking for a way to enhance learning and elevate student achievement? If you're like most educators, the answer is obvious. HP Classroom Manager offers educational institutions the functionality and tools necessary to help redefine the digital classroom for higher student achievement.

Features of the HP Classroom Manager per Seat E-LTU License:

View multiple student PCs at one time

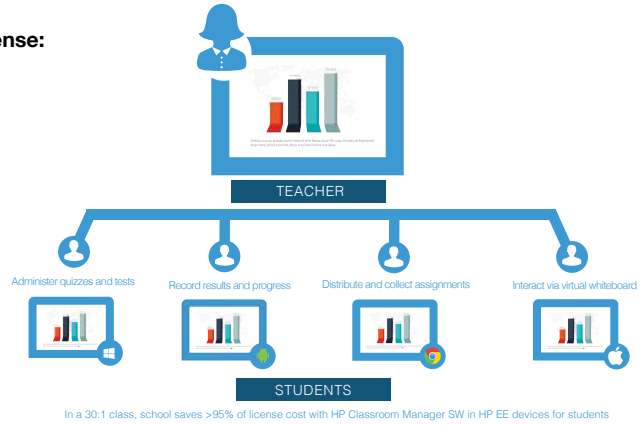
Easily view an entire classroom of PCs at one time; Monitor instant messages; Watch, share, or control the screen of any student PC; Send and receive alerts.

Control PCs in the classroom

Power On or Off all classroom computers from the teacher PC; Lock or black out student PCs with a single click; Specify allowed or restricted websites; Set printer and connected device controls such as keyboards and USB flash drives.

Enrich Learning

Easily share digital content; Administer quizzes and surveys real-time with instant reports and scoring; Create student journals; Distribute and automatically collect files; Open websites and synchronize with student browsers.



In a 30:1 class, school saves >95% of license cost with HP Classroom Manager SW in HP EE devices for students

Teachers use it to:
- *Evaluate comprehension*
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VENDOR	Garmin	HP/COMPAQ	Hitachi	IBM	Lenovo
TECH SUPPORT #	800.800.1020	800.474.6836	800.448.2244	Parts & Warranty 800.388.7080	800.426.7378
WEBSITE	www.garmin.com	www.hp.com	www.hitachi.com	Hardware Service 800.428.7378	www.lenovo.com

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8 Reasons Why Chromebooks are the Future of Computing

Chromebooks are designed exclusively for web browsing, email answering, and working when you're on-the-go.

Organizations are trusting their mobile computing to Chromebooks

- **Cost Effectiveness:** With today's growing expenses, businesses are hard-pressed to cut costs in any way possible. An average Chromebook runs about $180-$300, and at the rapid pace that hardware is replaced these days, that price is a welcome value for businesses. Even after years of wear and tear, your Chromebook is guaranteed to remain just as fast and efficient as the day you bought it.
- **Seamless Integration with Google Apps:** Finally Google Apps and your iPhone will work together in harmony thanks to the Google Chromebook. Enjoy seamless integration with Google Apps that you can view on your iOS device and your Chromebook.
- **Speed:** No other device gives you this much speed for such a low price— it's a single-minded platform. That means it isn't difficult to use like other operating systems. And with a boot time between four and ten seconds, the Chromebook surpasses any other notebook in its category in terms of speed.
- **Efficiency:** When you work on a Chromebook, you'll experience the difference. You can work full-screen and focus on the task at hand rather than be distracted by multiple windows like on another notebook or laptop. There's little learning curve with the Chromebook, allowing you to maneuver naturally—as easy as switching from browser to browser.
- **Reliability:** ChromeOS is based on the Linux operating system, which means it is already running on an incomparable level of reliability. Users won't need to install standard applications, so there's little to no room for malware and virus infections. Imagine a world where you don't have to spend hundreds of dollars on anti-virus and malware removal on a daily basis. Wouldn't that be nice?
- **Browser-based work:** Chromebooks run on applications hosted online, instead of loading all of the software onto the computer itself. Why host it online? It keeps the system running smoothly and efficiently without needing to process a number of applications running in the background.
- **Apps and Add-ons:** The Chromebook is more than just a light, ultra portable, web-browser notebook that you can take almost anywhere. It's an app store that is constantly growing and expanding its business-focused tools like Gmail, Mailchimp, Hootsuite, Podio, and more to help you get down to business wherever you are.
- **Cloud Friendliness:** For IT professionals today working in the Cloud is essential for ultimate business productivity and collaboration. That's why the Chromebook is an optimized tool for the cloud. You can work, share, save and retrieve files from the Cloud faster and easier than any other notebook or laptop.

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- 4GB DDR3L SDRAM
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- 4GB DDR3L SDRAM
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14" HP Chromebook 14 G3

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- 4GB DDR3L SDRAM
- 32GB SSD

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- Rotatable Camera

11.6" Lenovo N21 Chromebook

The Lenovo N21 Chromebook is designed with reliability, ruggedness and ease of use in mind. Reinforced ports and hinges, anti-peel keys and a sealed touchpad make the Lenovo N21 Chromebook durable while the rotatable camera, retractable handle and 9.5 hours of battery life make it excellent for the education environment.

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