Overcoming today’s changing network challenges

Mobility continues to change the way organizations—and the world—conduct business. New devices and platforms are making it easier than ever to communicate with employees and customers. As a result, businesses are presented with more opportunities to provide innovative productivity enhancements, products, and services. But that’s putting an enormous strain on their networks. Some of them might not have even developed a wireless infrastructure at all. As midmarket firms strive to thrive in a global economy, they need to be able to accommodate the bandwidth demands of wireless and wired devices that will enable their employees to conduct business anywhere, anytime.

What all this means is that they need to be able to handle personal devices and disparate services—like Wi-Fi, text messages, smartphones, apps, tablets, and cloud computing—that make it easy for customers to do business with them, and that enable employees and vendors to stay connected away from the workplace. The problem is that midmarket organizations generally don’t have the IT resources of a large enterprise, but they do have the same security challenges. That makes them an attractive target for cyber criminals—and it further inhibits their ability to deploy technologies such as wireless and video that enable innovation and collaboration.

Simply put, mobility has introduced a complex set of challenges. One of the biggest operational challenges is the lack of a unified network in which hardware, applications, and management tools are integrated to deliver a seamless user experience. The goal is to manage network access and security for a wide range of devices as well as to manage currently disjointed wired and wireless networks.

HP Networking Mobility Solutions

HP offers intelligent wired and wireless networking solutions and services that provide access, management, and security for businesses of any size. HP Mobility Solutions can be deployed as part of an integrated wired/wireless infrastructure for low cost of operation and strong, consistent security. All mobility solutions are based on industry standards, making them easy to deploy and manage with a single, integrated management platform.

HP Networking Mobility Solutions are built on the foundation of HP FlexNetwork, the industry’s only unified architecture for the data center, campus, and branch. HP FlexNetwork enables enterprises to fully harness the power of media-rich content, virtualization, mobility, and cloud computing. A core component of the HP Converged Infrastructure, the HP FlexNetwork architecture converges network silos by ensuring that protocols are implemented consistently across all networks throughout the organization. As a result,
clients are able to simplify and speed service delivery across the data center, campus, and branch, driving increased agility and innovation.

HP Mobility Solutions for midsize businesses:

• Reduce complexity
• Improve productivity
• Secure the business

An HP solution also eases network expansion—no forklift upgrades are required. It lets organizations cope with the emerging challenge of managing an increasing number of mobile devices while mitigating growing security threats from inside and outside the network.

HP Mobility Solutions benefits

Midmarket companies need to focus on business growth, not on their networks. After all, they probably have a limited IT staff, requiring a simple and reliable network that helps to enhance business agility. This is exactly what HP networks for today’s mobile workforce provide because they reduce complexity, improve productivity, and secure the business.

Reduce complexity

Because they are standards-based, HP networking solutions can be integrated with other vendors’ products and can be deployed as an overlay to existing non-HP wired networks. All access points are Wi-Fi certified, which assures interoperability and easy integration with Wi-Fi–based solutions such as IP surveillance and point-of-sale technologies. These solutions also offer a choice of networking models and a scalable migration path to a unified network. Plus, HP solutions provide simplified, unified, wired and wireless management from a single pane of glass, supporting up to 2,500 mobile devices and providing centralized configuration of multiple access points across an organization. In short, HP networking solutions are designed to be easy to use and expand as needs evolve, freeing staff to focus on innovation and strategic efforts.

Improve productivity

Growing a business means increasing worker productivity—and a mobile workforce is a more productive workforce because mobility enables employees to work more effectively inside and outside the office. HP Networking Mobility Solutions can deliver wire-like performance for bandwidth-intensive applications such as multimedia, software as a service (SaaS), and cloud services, accommodating a 50% increase in user density/performance via three-spatial-stream dual IEEE 802.11n connectivity. Plus, companies can protect current investments because new technologies such as the new HP E-MSM46x access points—which provide 450 Mbps per radio, delivering near-GbE speed (connect rate)—are backwards compatible with legacy IEEE 802.11a, b, and g wireless technologies.

Secure the business

Internal and external security threats are on the rise, ranging from rogue access points to hackers with criminal intent. With fewer resources than an enterprise, midmarket businesses need a solid, easy-to-deploy, manageable solution to address this issue. HP’s wired/wireless solutions provide an integrated, single-security approach for client authentication, regardless of the access method. Policies need to be established only once to provide consistent enforcement and continuous radio-frequency (RF) security across the wired and wireless infrastructure. All hardware, software, and security measures can be easily managed through a single pane of glass via the HP PCM+/Mobility Manager management application without impacting performance. The result: data, information, and reputation remain protected.
HP networks for today’s mobile workforce: components at a glance

HP Networking Mobility Solutions for medium-size businesses consist of the following components:

Network core
Both the HP 54xxzl and HP 82xxzl modular switches provide rich enterprise-class features and integrated security, scalable connectivity (10 Mb to 10 GbE), and hosted applications on the HP AllianceONE Services zl Module.

Access layer
HP 2910al fixed-port switches offer scalable connectivity through high-speed uplinks (trunked Gigabit), integrated security and PoE/PoE+ for wireless access points, VoIP, and other PoE-powered devices.

Wireless LAN
The HP MSM765zl Mobility Controller is integrated within the HP 54xxzl or HP 82xxzl chassis. It supports HP MSM IEEE 802.11n/a/b/g access points (up to 200 devices) to provide centralized security and access control, advanced Layer 2/3 roaming, and secure guest access.

HP MSM460 and HP MSM466 Dual Radio 802.11n Access Points bring IEEE 802.11n performance to 450 Mb/s per radio and enhance coverage areas with beam-forming technology. Both access points provide backward compatibility for IEEE 802.11a/b/g legacy clients.

Network management
The HP PCM+ Network Management application simplifies maintenance and network monitoring across wired and wireless networks for auto discovery, mapping, polling, network analysis and diagnostics, and automated policy configuration management.

The HP Mobility Manager (MM) software module for PCM+ monitors wireless networks, aids in RF visualization, and leverages HP PCM+ tools in the management of mobility devices.

Network security
The HP RF Manager Controller detects and prevents wireless threats with automated policy-based security and location-tracking capabilities. It eliminates false positive alerts and uses patented automatic classification and mitigation techniques to block unauthorized wireless traffic without disrupting the performance of authorized wireless devices.

The HP Identity Driven Manager (IDM), a plug-in for the HP PCM+ network management application, dynamically provisions network security and performance settings based on user, device, location, time, and endpoint postures. IDM provides network administrators with the ability to centrally define and apply policy-based network access rights that allow the network to automatically adapt to the needs of users and devices as they connect, thereby enforcing network security while providing appropriate access to authorized network users and devices.
The **HP Network Immunity Manager** is a plug-in for HP PCM+ that detects and automatically responds to internal network threats such as virus attacks. Additionally, it provides central management of HP Threat Management Services (TMS) zl Modules. The software leverages security and traffic-monitoring features such as sFlow, Virus Throttle, and remote mirroring technologies that are built into HP networking switches. It also performs network behavior anomaly detection (NBAD) to detect attacks.

The **HP Threat Management Services zl Module** deployed in HP 54xxzl or HP 82xxzl switches provides network zoning for interior protection and perimeter firewall and virtual private networks (VPN) to prevent unauthorized access.

**HP TippingPoint Intrusion Prevention System** (S110 IPS) is a security appliance that protects data and applications from attacks and exploits with in-line deep packet inspection and digital vaccine filters.

The **HP Networking warranty protects legacy investments**

HP Networking products have legendary HP quality, and our warranty is one way of demonstrating it. Many of the products featured in this solution come with a limited lifetime warranty, which includes next-business-day advance replacement (available in most countries) as well as coverage for fans and power supplies for the entire warranty period.

The HP Hardware Limited Warranty statement contains the terms and conditions for the warranty on HP Networking products. It can be viewed at: [www.hp.com/networking/warranty](http://www.hp.com/networking/warranty)

**HP Network Support Services**

HP offers a comprehensive portfolio of Network Support Services to help midmarket organizations manage their networks efficiently, mitigate risks and downtime, and increase the business value of technology. The lifetime warranty coverage of HP Networking products can be extended to increase the performance and availability of a network infrastructure with our simplified and standardized portfolio of HP Care Pack services.

Support levels are available for any environment. Services include reactive hardware support for advanced levels of repair and replacement response times and 24x7 software support, as well as integrated and proactive mission-critical service options that proactively address issues before they become a problem. With services such as installation, startup, and assessment included in the portfolio, HP takes care of transactional and per-event service requirements, freeing up staff to focus on more strategic activities. HP Network Support Services offer a single point of accountability, professional expertise, and proven customer support experience consistently across the globe.

For more information on other network services offered by HP, visit: [www.hp.com/go/networks](http://www.hp.com/go/networks)

For more information on support services, visit: [www.hp.com/networking/care-packs](http://www.hp.com/networking/care-packs)

To look up the support level you require, visit: [www.hp.com/go/cpc](http://www.hp.com/go/cpc)

**Why HP Networking Mobility Solutions**

HP is changing the rules of networking. For years, the IT industry has had to live with one viewpoint on networking; however, HP is providing the market with a better alternative.

Delivering a powerful portfolio of wired, wireless, network management, and security solutions, HP offers a standards-based, secured, end-to-end networking portfolio from the edge to the core. In addition, as the only company to offer servers, storage, networking, and services, HP is uniquely positioned to deliver greater value via its Converged Infrastructure vision to midsize and enterprise customers.

HP’s innovative, unified wired and wireless networking solutions allow businesses to break free from proprietary networking systems while adopting open standards-based solutions, enabling simplicity, agility, and reduced costs.