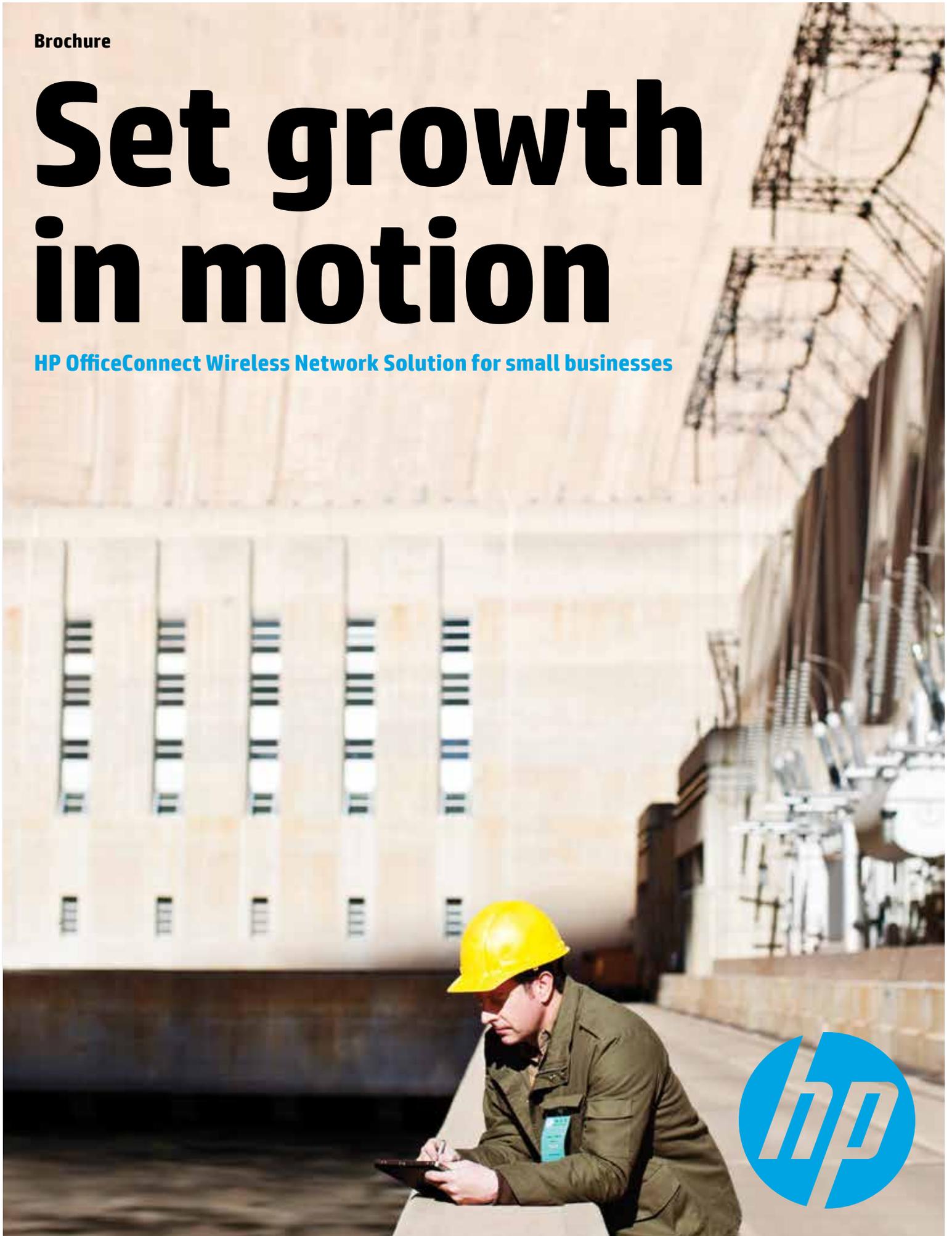


Brochure

# Set growth in motion

HP OfficeConnect Wireless Network Solution for small businesses



## Small business challenges

Wireless mobility continues to change the way organizations—and the world—conduct business. New devices and platforms can make it easier than ever to communicate with employees and customers. In the U.S. alone, SMBs are saving more than \$67 billion USD a year using mobile apps, tables, and smart phones in day-to-day activities.<sup>1</sup> Additional research shows SMBs that employ technology achieve approximately 11 points higher revenue growth than SMBs that use less technology.<sup>2</sup> As a result, businesses are presented with more opportunities to provide innovative productivity enhancements, products, and services.

Many small businesses need to develop a wireless infrastructure, while others need to upgrade existing wireless networks to keep pace with growth and change. As they strive to thrive in a global economy, these businesses need to be able to accommodate the bandwidth demands of wireless and wired devices that can enable their employees to conduct business anywhere, anytime. They need to be able to handle personal devices and disparate services—such as 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 even while they are away from the workplace. Simply put, mobility has introduced both opportunities and challenges that a small business needs to plan for to reap its benefits.

### HP OfficeConnect Networking solutions designed for small businesses

HP Networking offers a full suite of networking solutions to meet the needs and budgets of every small business. Our OfficeConnect solutions are quick to install and easy to use—so your employees can share resources, communicate, and collaborate without complexity.

HP OfficeConnect Networking products for small businesses are specifically designed with your needs in mind, and they are:

- **Quick and easy to use:** Ready-to-use, plug-and-play simplicity that makes setup, operation, and management happen in a snap.
- **Efficient:** Intuitive, Web-based, and zero-management network operation saves you time and the eco-friendly design of our products gives you peace of mind.
- **Reliable:** The products are tested for worry-free operation to help keep the business online and productive.
- **Open:** We make our solutions standards based, so you can easily add them to your network and manage them.
- **Comprehensive:** HP Networking offers an end-to-end suite of networking, server and storage solutions, services, and financing options to meet the needs of every small business.
- **Equipped with enhanced security features:** HP Networking helps incorporate advanced secure technology, such as Wi-Fi Protected Access 2 (WPA2), in wireless products and 802.1X in switches.
- **Future ready:** To meet your needs in the future, HP Networking provides a clear upgrade path for your growing business.
- **Intelligent:** Our products feature the functionality and performance designed to meet the employee and customer demands of a small business.
- **Cost-effective:** Our products offer low cost of ownership with HP Lifetime Warranty 2.0. It includes hardware warranty replacement for as long as you own the product, with next-business-day advance replacement available in most countries and 24x7 phone support for three years.<sup>3</sup>

HP OfficeConnect Networking solutions deliver reliable solutions that are backed by advanced security features and are designed to support the demands of mobility, high-definition video, rich-media collaboration tools, and cloud computing. You can operate your business with more agility and greater productivity to provide superior customer service and maintain a competitive edge in the market.

<sup>1</sup> "Mobile Tech saves small businesses more than \$65 billion USD a year," eWeek, May 15, 2014

<sup>2</sup> "For small business, technology is creating, not costing, jobs," Huffington Post, April 16, 2014

<sup>3</sup> Available on most small business products.



## A seamless wireless network

### Scenario #1: Supporting a growing organization

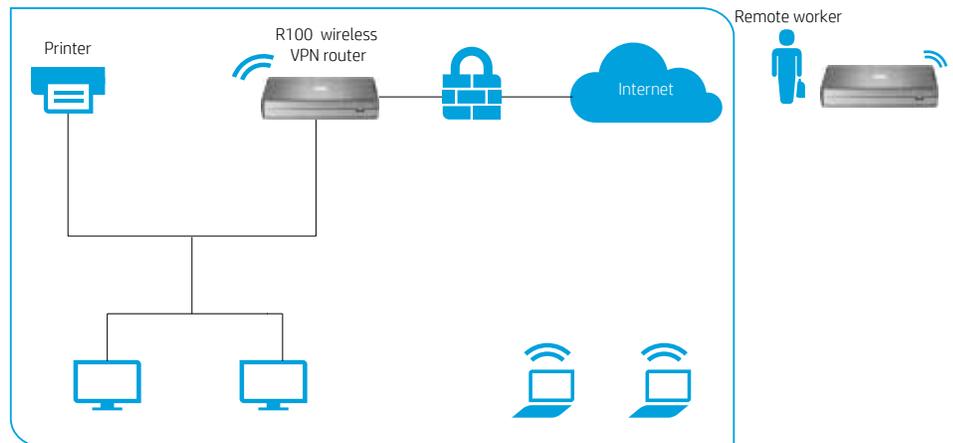
This configuration is ideal for a “first network” for a small business. Imagine an organization with five employees that wants to share resources, access to the Internet from laptops, smartphones, and tablets and provide safe access for remote employees.

The R100 Wireless VPN Router Series is an all-in-one solution that provides high-speed networking with a built-in 4-port Gigabit Ethernet switch, a choice of IEEE 802.11n or 802.11ac wireless access point, a Stateful Packet Inspection Firewall, and Virtual Private Network for protected access. It also allows the organization to share resources such as printers.

The benefits of the HP all-in-one router are:

- Fast access to data and files to help users get their jobs done
- High-performance connectivity to the Internet, remote workers, and locations
- Easy-to-use and manage with the next-generation HP Networking Web Interface design

**Figure 1.** Entry-level small business network



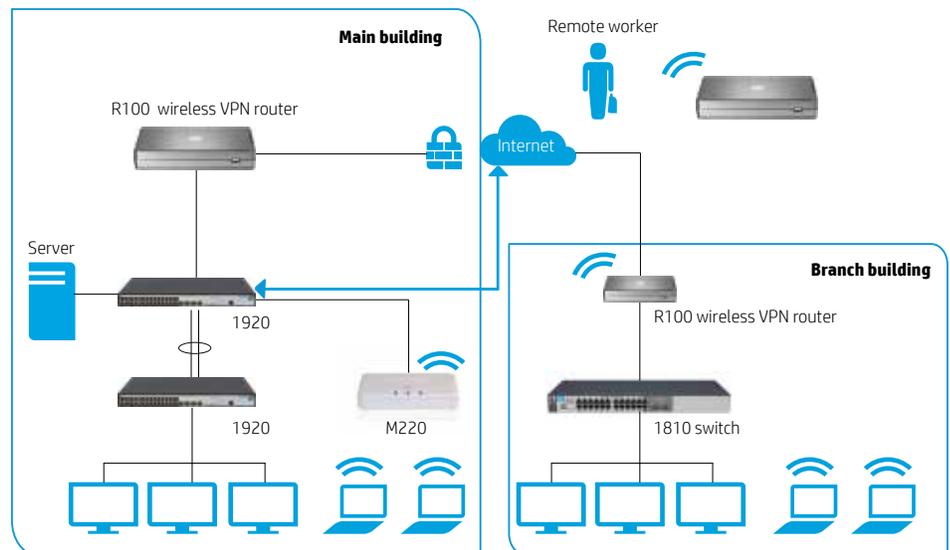
### Scenario #2: Upgrading for performance and expansion

This is a small business with 65 employees and an IT infrastructure deployed at a single location. The organization added 20 employees over the last year, expanded the office space, and deployed bandwidth-intensive applications that required an upgrade to the wireless network. The organization now has high-performance wireless and wired LAN connections for servers, storage, printers, client PCs, notebooks, tablets, and smartphones. The wireless access points provide flexible connectivity for mobile workers. Protected guest access can be implemented on a separate VLAN. The M220 802.11n Access Point provides near wire-speed connectivity for IEEE 802.11n devices—legacy IEEE 802.11a/b/g wireless clients are supported as well. The access points are centrally managed through a Web interface. The switches are also managed through a Web interface from any PC within the network. Both management technologies can also be used by IT partners for remote diagnosis and troubleshooting.

In addition to the benefits of the entry-level mobility solution, this solution provides:

- Comprehensive wireless LAN coverage for larger businesses or office spaces
- Quick Start Wizard for fast deployment of a wireless network
- Centralized management for up to 10 access points to streamline ongoing administration
- Business-class wireless security to safeguard the transmission of data across the business network
- Sleek, unobtrusive design for office settings

**Figure 2.** Small business network for a growing organization



### HP 1920 Switch Series

The HP 1920 Switch Series are advanced smart-managed fixed configuration Gigabit switches that build on the market-leading price/performance of the HP 1910 Switch Series. The 1920 is designed to help smaller organizations keep pace with today's bandwidth-demanding applications, while offering simplicity of configuration, deployment, and management. This series is ideal for environments that require key advanced features for more granular control of the network in an easy-to-manage solution.

The HP 1920 Series is a series of leading advanced Web-managed Gigabit switches ideal for organizations looking for cost effective and reliable switches capable of advanced network functionality. There are eight rack-mountable models with internal power supplies and additional true SFP ports in the 1920 series. These include four non-PoE models: 8G-, 16G-, 24G-, and 48G- port; four PoE+ models: 2x8G-, 2x24G-.

These smart Web-managed switches deliver key features for environments not requiring centralized administration—Layer 3 static routing, Access Control Lists (ACLs), auto-voice VLAN, QoS traffic prioritization, LLDP, Spanning Tree Protocols, and IPv6. Available power over Ethernet models are ideal for converged voice and wired/wireless networking. HP 1920 switches come with industry leading lifetime warranty offering that includes 3 years of 24x7 phone support.

Key features	Benefits
Supports basic routing—up to 32 static routers and 8 VLAN interfaces	Use local routing to tie multiple workgroups together, whether on different physical segments or on different VLANs; local routing on a switch can boost workgroup performance and offload central router tasks.
Supports access control lists (ACLs) and 802.1X	Enhanced security, using 802.1X to enforce network access controls; ACL rules can define who has access to what areas of your network at a granular level.
Extra ports for SFP fiber connectivity	Greater port capacity and switch performance. Fiber connectivity helps bridge long distance upstream connections.
Smart Web-based management with advanced features	Simple-to-use Web interface allows you to customize your network operations.
Choose from among 4 PoE models Two 24-port gig models, one 180 Watts of PoE+ and the other 370 Watts of PoE+ Two 8-port gig models, one 65W of PoE+ and the other 180 Watts of PoE+	It is cost-effective to buy the model that most matches the PoE power level you require; PoE enables powering of client devices, such as IP phones, thin clients, wireless access points, and others—without additional wiring.
Lifetime warranty; covers power supply and fans Next-business-day advanced hardware replacement and 24x7 phone support for three years	High-quality products that offer peace of mind about the network installation.



## Wireless for your small business

The all-in-one HP R100 Wireless VPN Router Series helps deliver secure high-performance Internet access and wired/wireless connectivity for offices and remote/mobile employees. Part of the HP OfficeConnect portfolio, the routers feature the next generation HP Networking user interface and Easy Setup Wizard that are designed for simplicity and reliability to get your business connected quickly.

The router includes a Stateful Packet Inspection Firewall, and enterprise grade VPN technology, combined with wireless encryption features like WPA/WP2 encryption for protected data transfer. Advanced security features like 802.1X, URL filters, content filters, MAC filters, and Trusted Users Management keep your network safe from outside threats and unwanted access. Time based rules that enable scheduling rules for radios and security features combined with email alerts simply management tasks for users. With a compact executive design featuring internal antennas, the routers are ideal for unobtrusive use in office environments.

Key features include:

- High-speed connectivity with 4-port Gigabit switch and 11n single radio/11ac dual radio access point
- Advanced security features like SPI firewall, URL/MAC/IP/Content filters, and DoS attack protection
- VPN initiation and termination (IPSec, L2TP, PPTP) for protected data transfers
- USB port for storage applications
- Intuitive graphical interface with easy setup wizard for simple management



Ensure your wireless network can handle new technology demands that help you differentiate your business. The enhanced HP M2xx portfolio offers more choice, flexibility, and a better price/performance for small organizations that require simplicity and lower TCO for small organizations, while delivering an enhanced user experience. The new HP M210 802.11n Access Point supports up to four APs in a cluster. The enhanced HP M220 802.11n Access Point supports up to sixteen APs in a cluster. Its advantages include:

- **Simplicity:** Your organization can get online faster with controller-free centralized management. The HP clustering technology includes a Quick Setup Wizard with five deployment scenarios and an intuitive GUI allows you to configure once and propagate to all APs. You can significantly reduce the risk of downtime from human error and make ongoing network changes and maintenance a simple task.
- **Flexibility:** The HP M220 allows you to cluster up to 16 APs to support a growing organization and future-proof today's investment.
- **Enhanced user experience:** The high-speed data transfer enables rapid access to applications, internet, and data over the wireless network to take advantage of today's demanding technologies like voice and video.
- **Better TCO:** The HP M2xx series delivers better price/performance with a Lifetime Warranty that includes three year, 24x7 phone support to keep your business online.

**Ordering information for the 1920 Switch Series:**

PoE models (required to power access points):

- JG921A: HP 1920-8G-PoE+ (65 W) Switch
- JG922A: HP 1920-8G-PoE+ (180 W) Switch
- JG926A: HP 1920-24G-PoE (365 W) Switch
- JG925A: HP 1920-24G-PoE (180 W) Switch

Non-PoE models:

- JG920A: HP 1920-8G Switch
- JG923A: HP 1920-16G Switch
- JG924A: HP 1920-24G Switch
- JG927A: HP 1920-48G Switch

**Ordering information for the M200 802.11n Access Points:**

- L023A: HP M210 802.11n Access Point (U.S.)
- L024: HP M210 802.11n Access Point (WW)
- J9798A: HP M220 802.11n AM Access Point (Americas)
- J9799A: HP M220 802.11n WW Access Point (WW)

**Ordering information for the R100 Wireless VPN Router Series:**

- J9974A HP R110 Wireless 11n VPN Router (AM)
- J9975A HP R110 Wireless 11n VPN Router (WW)
- J9976A HP R120 Wireless 11ac Router (AM)
- J9977A HP R120 Wireless 11ac Router (WW)



## HP Networking warranty at your service

HP Networking products set the standards for quality and reliability and come with warranties you would expect from a technology leader. From comprehensive lifetime warranties (for as long as you own the product) with 24x7 phone support for three years to competitive one-year warranties, HP Networking product warranties have been developed to complement a broad portfolio of HP services to meet your needs effectively. Most of the products featured in this document come with limited lifetime warranty, which includes next-business-day advance replacement (available in most countries) and coverage for fans and power supplies for the entire warranty period.

HP OfficeConnect Networking products offer legendary HP quality, and our warranty is one way of demonstrating it. The HP Hardware Limited Warranty Statement, containing the terms and conditions for the warranty on HP Networking products, can be viewed at [hp.com/networking/warranty](http://hp.com/networking/warranty). The warranty periods for our various products are listed there.

Our warranty, though, is just the beginning of what we include with our products. To help make it easier for you to implement, use, and maintain our products, we also offer many support features, such as self-help tools that are available 24x7 on the Web, telephone support, email support, electronic case submission, and software releases. To access details on support features and HP Networking technical support, visit [hp.com/networking/support](http://hp.com/networking/support).

## HP Network Support Services

We offer a comprehensive portfolio of network support services to help you manage your IT network efficiently, mitigate risks and downtime, and increase the business value of technology. You can extend the lifetime warranty coverage of your HP Networking products and increase the performance and availability of your network infrastructure with our simplified and standardized portfolio of HP Care Pack Services.

Get support levels suited for your environment. We provide reactive hardware support that provides advanced levels of repair and replacement response times as well as 24x7 software support. In addition, we offer integrated and proactive mission-critical service options that address issues before they become a problem. With services such as installation, startup, and assessment services included in the portfolio, we take care of your transactional or per-event service requirements—helping you free your staff to focus on more strategic activities.

With HP Network Support Services, we provide a single point of accountability, reliable expertise, and consistent customer support experience across the globe.

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

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

Customize your IT lifecycle management, from acquisition of new IT, management of existing assets, and removal of unneeded equipment.  
[hp.com/go/hpfinancialservices](http://hp.com/go/hpfinancialservices)

Developing solutions for major social and environmental challenges.  
[hp.com/hpinfo/globalcitizenship](http://hp.com/hpinfo/globalcitizenship)

## Look to HP to support your unique needs

Small businesses are the lifeblood of the world's economy. When it comes to the opportunities and challenges in supporting a mobile workforce or allowing customers protected, 24x7 wireless access to your network, HP understands your unique needs. We can help you grow your business and develop innovative products and services to serve your customers better.

**Learn more at**  
[hp.com/networking/smb](http://hp.com/networking/smb)

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