



Command from the center—
with control to the edge

HP ProCurve Networking Solutions



Command from the center— with control to the edge

Controlling and managing access to data and applications is critical for the security and efficiency of today's enterprise. Network traffic along with the need for faster access to more data and applications is skyrocketing, and you need the right infrastructure to simplify network management and quickly connect users to the services they need. Not only are more users flooding the network; more types of users are connecting, requiring varying levels of access and service.

This increase in demand and complexity means that the traditional strategy of handling authentication and enforcing access policies at the network core must evolve, as the burden of handling every request becomes unmanageable. Today's architectures must utilize the network edge to provide security, mobility, and simple, manageable access to multiple services on a single network—all while maintaining complete control from the network center. Implementing such a unified, holistic infrastructure enables enterprises to continually update their networks in a cost-effective and manageable way—without continual redesign and expensive hardware and software upgrades.

HP ProCurve Networking has responded to this challenge with its HP ProCurve Networking Adaptive EDGE Architecture™. Developed to support industry standards for networking technology, the Adaptive EDGE Architecture is a solution design strategy built on two key principles: maintain complete command of the network at the center, and bring control—and intelligence—to the network edge where users connect. This approach to distributing network intelligence is a key component of the three cornerstones of the Adaptive EDGE Architecture: security, mobility, and convergence. HP ProCurve Networking solutions deliver on these principles by making it possible to shift the network infrastructure from being device-centric to user-centric. Now, access decisions can be made automatically. Known users attempting to access the network, regardless of where they are connecting from, are identified and given access to the same VLANs and network services they have always had. Unknown users are denied all but the most basic access.

This new approach to network architecture, called command from the center with control to the edge, is supported by HP ProCurve Networking's portfolio of products and services. These intelligent switches, access control devices, and sophisticated management tools improve productivity while securing resources and simplifying network management.

Manage communications from the center to protect assets and increase productivity.



One of the basic principles of command from the center is to provide controlled access to critical network components based on an individual user's business needs, thereby protecting secure data and applications not critical to that user. The HP ProCurve Networking strategy enables enterprises to protect their digital assets with robust access control based on user, group, time, and location. As a result, your organization is able to preserve its network integrity while increasing productivity and efficiency. With potential threats to security coming from any number of directions, it is essential that network access be easily controlled from the center but located at the edge, where it can most effectively protect your assets.

Strategically deploying intelligence this way makes the network better prepared to handle new traffic with limited impact to performance or cost. In addition, user productivity is enhanced by offering immediate, high-speed access to the applications the individual needs without overloading the network core. To achieve the best possible network performance, HP ProCurve solutions offer a range of premium capabilities that provide network managers with extensive, detailed, real-time network information and expanded network administrative control via a simple and intuitive interface.

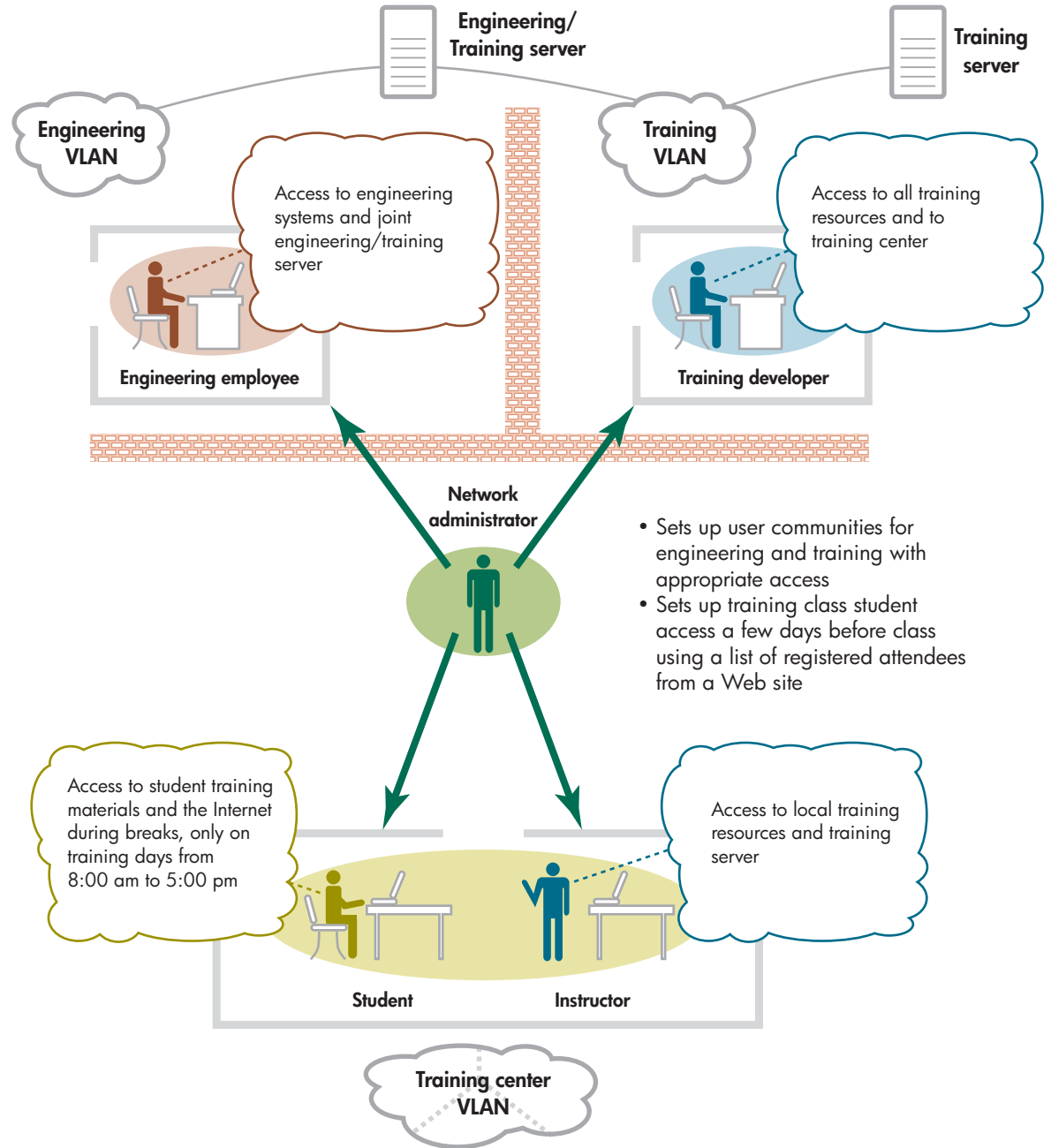
To further simplify the network, HP ProCurve Networking delivers data, voice, and video connectivity over one of the industry's most affordable and easy-to-manage infrastructures. A single network, controlled from the center, offers more efficient communication services; extended access to corporate resources for mobile workers; a solid foundation for deploying more sophisticated, integrated, and potentially revenue-generating applications; and increased productivity levels overall.

Centralized, simplified network management

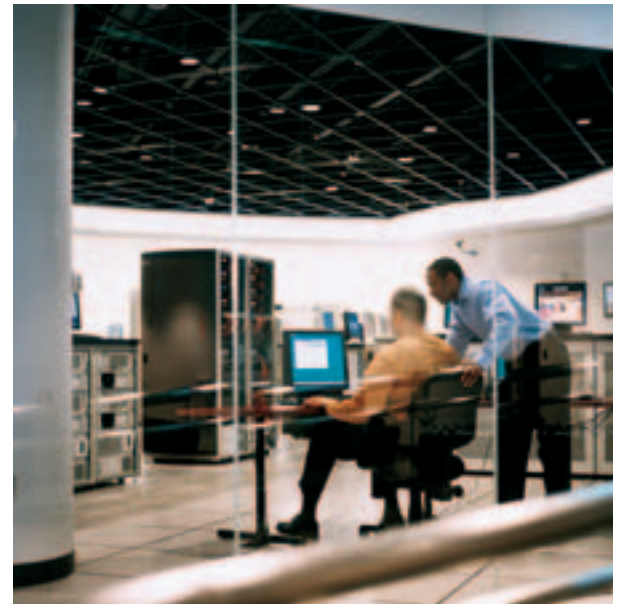
Effective network management from the center of the network becomes ever more critical as the edge takes over processing access requests and the network begins to accommodate increasing traffic. Command from the center makes this easy by enabling the network to adapt itself to each user's unique needs. At the network center, security and other user-specific parameters can be set, stored in a database, and then pushed out to the edge, where users connect. These parameters are triggered by user authentication at the network edge, giving you more control without added complexity.

Because it's impossible to set detailed policies manually for every user on the network, command from the center with control to the edge solutions allow you to create communities of users with similar needs and deliver that data to HP ProCurve intelligent switches. In addition, once a user community is created, it can be easily modified and reconfigured, giving your network the flexibility and agility to adjust to business and technology changes real-time, as they occur.

These features, combined with the industry-leading flexibility, availability, security, and simplicity of HP ProCurve's product line, can make effective command from the center with control to the edge a reality for your enterprise.



HP ProCurve solutions— the tools to enable command from the center



Superior return on IT

With highly competitive price/performance, a low cost of ownership, and comprehensive support, HP ProCurve Networking solutions are the proven, affordable path to a secure network that accommodates growing user demands. The HP ProCurve Networking Adaptive EDGE Architecture moves traffic routing and application connection to the edge of the network—protecting investments at the network center—with no compromise in quality, performance, service, or support. HP ProCurve adds value to existing products with software upgrades and a solid roadmap for the future to help you get the best possible return on your investment.

Reduced complexity

HP ProCurve Networking brings together business and technology expertise so that enterprises can provision their networks and improve their ability to meet business challenges with maximum speed and ease. With an emphasis on plug-and-play, hot-swappable designs, HP ProCurve products come online quickly and perform with high reliability.

Trusted security

With the security features HP ProCurve Networking has designed into its product line, HP ProCurve solutions offer network protection that anticipates the needs of the changing enterprise. HP ProCurve Networking solutions overcome the limitations of centralized, host-based security by moving critical access enforcement duties to the network edge. HP ProCurve solutions preserve network integrity while increasing productivity and efficiency throughout the extended enterprise.

Proven reliability

At the network center, HP ProCurve switches provide highly reliable, managed modular routing with top performance. Easily managed, HP ProCurve routing switches offer high-performance remote backup and disaster recovery services, as well as chassis modules that can be hot-swapped without interrupting service to eliminate costly downtime.

At the network edge, HP ProCurve switches offer layer 2, 3, and 4 functionality that controls access and traffic at the point of entry and are easily managed from the network core. This degree of switch intelligence makes sure that applications run correctly and concurrently. With the right HP ProCurve Networking products, networks can also be enabled for Web-based authentication for mobile users, delivering appropriate services to users based on policies set at the network center.

Choice and flexibility

HP ProCurve Networking products support highly available networks that are built on technologies such as 802.11a, 802.11b, 802.11g, and 802.3—the Ethernet wired standard—and will continue to support adopted standards. By building on industry standards, HP ProCurve solutions integrate smoothly into existing wired infrastructures and don't confine you to proprietary systems that restrict your choice and flexibility to use other standards-based technologies. And, HP ProCurve's product roadmap includes simple, affordable upgrades to future hardware and software to make sure that your infrastructure stays a step ahead of new business challenges.

HP ProCurve Networking is an experienced partner whose secure, mobile, multi-service networks are enabled by the Adaptive EDGE Architecture and aligned with your business needs.

Command from the center is based on HP ProCurve hardware and software solutions including the HP ProCurve Routing Switch 9300m series, HP ProCurve 5300xl series, HP ProCurve Secure Access 700wl series, and HP ProCurve Manager and HP ProCurve Manager Plus network management software.

HP ProCurve Routing Switch 9300m series

Complete network control from the center relies on the HP ProCurve Routing Switch 9300m series. These robust, easily managed routing switches provide high-performance throughput from the wiring closet into the data center and out to the edge of the WAN. The Routing Switch 9300m series' non-blocking architecture enables network managers to build scalable and highly available networks based on HP ProCurve's intelligent switches. Designed for speeds of up to 10 Gigabit, the 9300m series is the hardware cornerstone of centralized command and is able to handle multiple network management jobs simultaneously, such as processing access control lists (ACLs), performing policy-based routing (PBR), performing network address translation (NAT), and collecting and exporting statistics for NetFlow-based accounting and billing.

HP ProCurve Switch 5300xl series

Designed to accommodate the most demanding network needs, the HP ProCurve Switch 5300xl series is an extremely versatile switch, able to serve both at the network center and at the network edge, offering sophisticated automation and policy enforcement. The HP ProCurve Switch 5300xl series offers scalable layer 2, 3, and 4 switching in compact 4- or 8-slot modular form factors.



These convergence-ready switches provide flexibility, high port density, free software upgrades, and a lifetime warranty. The easy-to-use Switch 5300xl series provides the latest in technology with unparalleled investment protection and superior return on IT.

HP ProCurve Secure Access 700wl series

The HP ProCurve Secure Access 700wl series extends command from the center with control to the edge to wireless LANs of any size, providing users with a secure, reliable, and seamless connection as they roam across an enterprise's physical network. When paired with a switch, these products enable deployment of your wireless infrastructure and the flexibility to locate access points in hard-to-wire locations. Together, these robust access control products enforce authentication policies based on users and groups, time of access, and location, allowing network administrators to quickly and easily lock unused areas of the network as needed, such as auditoriums, conference rooms, and unoccupied office space. Providing the utmost wireless data privacy without the need for proprietary VPN client software, the new HP ProCurve Secure Access 700wl series is ideal for enterprises that want to protect highly sensitive data while providing access to multiple user groups.



HP ProCurve Manager and HP ProCurve Manager Plus

Included in-box with every managed HP ProCurve device, HP ProCurve Manager makes it possible to control today's complex networks of fluctuating traffic levels, variable device groups, ever-changing security policies, and unpredictable bottlenecks. HP ProCurve Manager Plus takes you to the next level of network management, offering advanced features such as

- **VLAN configuration:** Create VLANs and assign ports to VLANs via an easy-to-use drag-and-drop interface. View network topology through a graphical display of device-to-VLAN and VLAN-to-device mappings.
- **More control:** HP ProCurve Manager Plus gives you granular control over the network by allowing you to set Quality of Service policies according to address, Type of Service, and protocol. Enhanced security makes assigning and restricting access easier.
- **Easier inventory management:** Get centralized control over inventory with a whole new set of device management tools that let you create custom groups, set group policies, archive and log configurations, execute CLI commands on one or more devices, and more.

- **In-depth network analysis tools:** HP ProCurve Manager Plus includes an integrated, low-overhead traffic monitor with support for enhanced traffic analysis protocols such as Extended RMON and sFlow sampling technologies, with data on top talkers and traffic levels.

- **Easy network updating:** Don't let your network get away from you. HP ProCurve Manager Plus automatically obtains new device software images from HP and can be configured to update large groups of devices—all at user-specified times.

Together, HP ProCurve routing switches, switches, secure access products, and network management software give you complete, centralized control of your network, with maximum intelligence deployed at the edge.

With more than 25 years of experience in the networking infrastructure business, HP invests in solutions that meet—and anticipate—customers' needs. Further, the breadth of the entire HP product line provides HP ProCurve Networking with insight and understanding into the evolution of enterprise technology. HP ProCurve uses this knowledge to create networking solutions that work today and will continue to empower the enterprise into the future.

HP ProCurve Networking's tradition of leadership in open standards for multi-vendor interoperability makes us an ideal partner for your enterprise. This, along with industry-leading service and support and unbeatable price/performance make HP ProCurve Networking your best choice for networking solutions.



To learn more, visit www.hp.com/go/hpprocurve

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