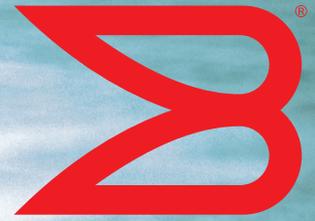# BROCADE 802.11n WLAN SOLUTIONS

CAMPUS NETWORK

Providing End-to-End Secure Wireless Connectivity for the Public Sector

HIGHLIGHTS

- Provides the foundation for pervasive public sector 802.11n wireless network deployments

- Unifies wired and wireless communications, helping to improve productivity and reduce operational costs

- Optimizes 802.11n WLAN performance while minimizing power and deployment costs

- Helps maximize network security with industry-leading intrusion detection capabilities across both wireless and wired networks

The public sector spans a multitude of organizations—from federal, state, and local governments to K-12 and higher education institutions, healthcare, and the military. These organizations are tasked with stimulating the economy while maximizing taxpayer dollars to deliver critical services to businesses, citizens, students, and other government agencies.

Today, the public sector is facing growing demand for wireless services. Staff at schools, hospitals, and government offices, as well as citizens, are seeking anywhere, anytime access to information. To meet these demands, public sector organizations must have a robust networking infrastructure in place that can support bandwidth-intensive applications and provide the security required to protect personal and confidential data across wireless environments. Moreover, they must be able to meet these requirements on highly restricted budgets.

Brocade® can provide the wired/wireless networking infrastructure that public sector organizations need while helping to reduce IT costs. Brocade provides comprehensive campus networking solutions for 802.11n Wireless LAN (WLAN) infrastructure, enabling seamless and secure real-time voice and data access for the entire public sector. Brocade offers the only WLAN product set capable of providing the real indoor and outdoor coverage needed to extend the campus network between buildings and among outdoor areas. These proven, interoperable campus networking solutions enable robust wireless network connectivity and a flexible edge networking infrastructure that can provide integrated wired/wireless connectivity and unified communications for state and local government departments and agencies.

BROCADE

EXCEPTIONAL SCALABILITY

Brocade campus networking solutions include:

- Brocade Mobility wireless controllers
- Brocade Mobility access points
- Motorola AirDefense Enterprise Appliances for Brocade Mobility
- Brocade FCX Series
- Brocade FastIron® GS Series
- Brocade FastIron WS Series

GAP-FREE SECURITY

Brocade Mobility offers comprehensive best-in-class wireless security that rivals that of the wired network. A tiered approach protects and secures every point in the network—wired and wireless. This complete suite of tools includes a role-based wired/wireless firewall that provides protection against attacks and unauthorized access at the wireless edge—including Layer 2 and Layer 3—using advanced encryption and authentication technologies. In addition, the best-in-class Motorola AirDefense® for Brocade Mobility wireless Intrusion Prevention System (IPS) can instantly detect network attacks, as well as locate and eliminate rogue devices.

UNMATCHED WLAN RELIABILITY

Because wireless networks provide critical communications, resilience is vital to organizations within the public sector. Brocade WLANs deliver unmatched reliability, providing a wireless connection that is as dependable as a wired connection. Adaptive AP technology intelligently adapts to the ever-changing RF environment without intensive IT monitoring, automatically routing traffic around failures to ensure uninterrupted application access. SMART RF automatically adjusts power and channels as needed to maintain a high-quality and consistent connection. And with a unique clustering architecture, Brocade wireless controllers can be deployed with 1:N redundancy, providing network-wide virtual support for all access points throughout the campus.

IMPROVED ROI AND REDUCED TCO

Brocade best-in-class wireless networks offer a high-quality yet cost-effective networking solution for a maximum Return on Investment (ROI). The Brocade standard feature set includes advanced functionality, such as mesh, high-availability, and clustering. In addition, public sector organizations can access all of the integrated functionality within Brocade WLAN solutions without investing in additional access point or feature licenses.

Brocade WLAN solutions provide unparalleled ease of implementation and operation. Advanced troubleshooting further reduces support costs by eliminating onsite repair-related visits. Moreover, dual-purpose access points provide wireless traffic and dedicated dual-band sensing, eliminating the need to manage a separate dedicated sensing infrastructure while enabling a greener and more cost-effective approach to 24×7 security.

ABOUT BROCADE

Brocade networking solutions help the world's leading organizations transition smoothly to a virtualized world where applications and information reside anywhere. These Ethernet, storage, and converged networking offerings are designed for unmatched simplicity, non-stop networking, optimized applications, and investment protection. Learn more at www.brocade.com.
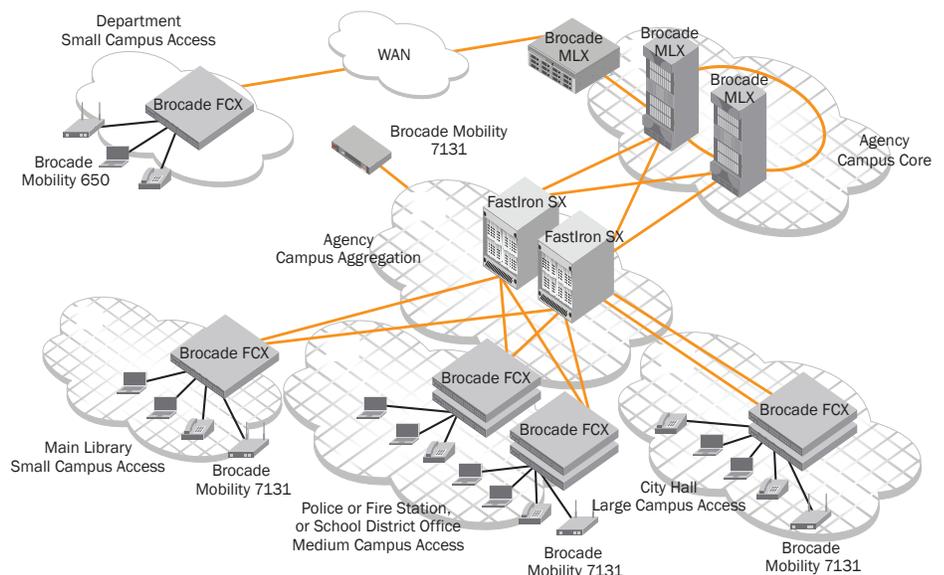
Figure 1.
Brocade campus networking architecture for state and local government.

BROCADE WIRELESS NETWORKING SOLUTIONS FOR THE PUBLIC SECTOR

Brocade provides the public sector with a comprehensive enterprise WLAN solution to meet the widest range of mobility requirements.

Seamless Mobility for Government

Whether mobile employees are attending a meeting down the hall or are out in the field, they need anywhere, anytime voice and data access to maximize efficiency and support better decision-making. Today's federal, state, and local government agencies are turning to Brocade to unify their wired/wireless communications by using a seamless edge networking infrastructure to support next-generation applications. By leveraging converged access technology to simplify wireless and wired deployment, government organizations can unify communications, increase productivity, and reduce costs.

Wireless Solutions for Critical Healthcare Environments

Wireless broadband connectivity and mobility are revolutionizing healthcare at county and university facilities. With a wireless connection, medical staff have the seamless "right-now" access to the people and information required to make the best decisions. For instance, they can access up-to-the-minute patient records on demand or quickly scan the bar code on a patient's wristband and medication to ensure patients receive the right medicine. In addition, nurses can monitor patient vital signs while on the move. The result of leveraging wireless networking is increased productivity, a reduction in errors, and the superior efficiency required to deliver extraordinary patient care.

The Pervasive Wireless Campus

Wireless networks are a critical component for today's colleges and universities, as well as K-12 schools. Students expect high-speed wireless connectivity, and faculty rely on faster, more comprehensive access to educational research, online repositories, and course management systems. At the same time, campus administrators and security personnel need to meet increased personal and public security requirements. Brocade wireless infrastructure solutions can address these needs by providing a high-performance 802.11n wireless connection that enables the delivery of real-time voice, video, and data inside the walls of lecture halls, libraries, and dormitories; outside in parking lots, sports arenas, and between buildings; and even in remote locations such as off-campus housing— all seamlessly integrated with a wired campus networking infrastructure.

Wireless Supply Chains in the Military

Today's military logistics systems are transforming into fully integrated supply chains that enable complete asset visibility of critical supplies and equipment in order to efficiently meet the needs of troops worldwide. Brocade Mobility solutions are designed to provide the robust networking infrastructure required to support the military supply chain. This highly modular product family can be implemented rapidly to provide a critical wireless connection throughout all echelons of command. As part of its end-to-end networking solutions, Brocade also offers a broad range of wired campus networking solutions and an ecosystem of best-in-class partner applications, ensuring the seamless integration and rapid deployment that are critical in military installations.

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