Extricom

Enabling Access: Wireless LAN and e-Government

e-Government, the use of information and communication technology (ICT) to give citizens more direct access to government services, has the potential to revolutionize government operations in the 21st century. Its success will, in part, be dependent on how easily ICT can be propagated into a wide variety of environments. Wireless LAN (WLAN), with its inherent operational flexibility, will play a major role in enabling e-Government at all levels, from local to national.

For government IT departments, pervasive WLAN offers a clear value proposition. It is cost-effective and scalable in an era of constrained budgets; can extend existing infrastructure and maximize resource use; enables a more citizen-centric approach to government services by making them directly available to the public; and can help streamline or eliminate altogether bureaucratic processes that make the public sector less efficient than private enterprises.

Specific applications of WLAN that governmental agencies are applying in their day-to-day operations include:

- **Direct backend database access:** Using WLAN and PDAs, mobile caseworkers, such as public health nurses or building inspectors, can access and update backend databases.
- **Customer Service Centers:** Officials can directly interact with the public to provide them with services and assistance in public spaces. In the same manner, self-service kiosks enabled by WLAN can vastly improve service delivery and citizen access.
- **Emergency Infrastructure:** WLANs can be quickly put in place to provide network access during natural disasters or other emergencies.

Meeting Multiple Challenges with One Solution

While they can play a major role in supporting e-Government programs, WLAN implementations need to overcome a host of technological and business challenges. Among these are the need to support a wide range of applications and both new and legacy devices; have low implementation and operating costs; and be able to evolve with a changing operating environment. Even the deployment setting can be problematic. RF-unfriendly reinforced concrete buildings or historical facilities where physical alterations are tightly regulated force traditional WLAN system designs to trade off performance traits such as coverage, capacity, and operational flexibility. And of course, security standards must be the highest possible to meet strict privacy regulations.

Extricom's award-winning WLAN system is uniquely designed to meet this new generation of demanding requirements. The Interference-Free™ Architecture enables dramatically easier WLAN deployment and lower total cost of ownership, while achieving a generational leap in capacity, coverage, seamless mobility and security capability. The result is a large-scale WLAN infrastructure delivering campus-wide triple play services, with the dependability of a wired network.

ICT is enabling a steady and dramatic evolution in how local and national governments fulfill their core mission. Pervasive WLAN promises to accelerate the pace of change by quickly and directly bringing government services to where they will be most effective. The challenge now is to identify the right solution that can make this promise a reality.

Wireless On the Move

Extricom

The Extricom Interference-Free™ Architecture

Impressive Performance

Surprising Simplicity

Lowest Cost of Ownership

- Converged Voice, Data, & Video, with Zero-Latency Mobility

- Plug-and-Play Simplicity, with no RF Cell Planning

- Blanket Coverage for Ubiquitous Service without Co-Channel Interference

- Wire-like Connection

- TrueReuse™ Bandwidth

- Multi-Blanket Operation, in One Infrastructure

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Wireless On the Move™

Government Core Requirements	Extricom's Unique Value
Cost-Effectiveness Budgets for government agencies are tied to political trends and can be unpredictable. This makes a cost-effective wireless lifecycle essential – planning, installation, and maintenance. And since change is inevitable, the infrastructure must be capable of handling it transparently.	**The Lowest Cost of Ownership** Extricom's solution eliminates the cost of RF cell planning and RF staff expertise, seamlessly extends your existing wired network, and is deployed and maintained with plug-and-play simplicity. The bottom line is Total Cost of Ownership that is 50% lower than competing solutions.
Security Governmental organizations are subject to stringent privacy rules and other compliance requirements. Any wireless solution must safeguard individual data with the strictest levels of security.	**A Secure Wi-Fi Environment** Extricom embeds the strongest security available, without asking you to trade-off mobility or performance in return. The system permits 16 levels of role-based security for each channel deployed.
Reliable, Comprehensive Communications Government services enabled over WLAN can include emergency responders and other high priority missions. The highest standards of reliability are mandatory.	**Guaranteed Service** Extricom's technology is the only WLAN technology that can deliver a guaranteed and consistent level of connectivity, to all users, everywhere on the campus.
Adaptable to Environment e-Government applications may require providing access to WLAN in non-conventional or high-density environments. The WLAN must be able to support such environments without tradeoffs in coverage or mobility.	**Flexible Infrastructure** The Extricom Channel Blanket topology and TrueReuse technology maximizes capacity and. coverage. Unlike traditional cell-based WLAN, access points can be flexibly deployed in any density to provide both ubiquitous coverage and the highest bandwidth in the industry.
Multi-Tenant and Multi-Application Support Many uses of Wi-Fi; one infrastructure. This is the goal. The return on investment is maximized when a single WLAN system is able to allow for co-existence of many different users (guests and employees), a wide variety of devices, and the full range of voice, data, and video applications.	**Multi-Layer System that Ensures No Performance Trade-offs** Extricom's unique channel blanket infrastructure permits the physical segregation of different users, devices, and applications, providing maximum bandwidth, mobility, security, and performance to all – as if they each had a dedicated system of their own.

The Future of Wi-Fi

Governmental agencies worldwide have a clear vision of the importance of Wi-Fi in fulfilling their mission and meeting their obligations to the public. The question is: how confident are IT staff that today's technologies can meet the demands of their environment?

Ask us how local and national governments, as well as clients in the healthcare, hospitality, and enterprise arenas, have succeeded with Extricom. Extricom's WLAN is specifically designed to answer the challenges posed by pervasive Wi-Fi, providing the high-performance, resilient, and future-proof infrastructure required by the public sector.