



Broadband Stimulus Partnership Opportunities

As the new Administration's initiative to bring broadband technology to rural America begins to take shape, many of the businesses that have applied for funds will be looking to partner with companies that have proven operational experience. ERF Wireless, one of the nation's leading providers of enterprise-class wireless and broadband products and services, is now actively seeking partnerships with stimulus applicants. The company has a number of developmental and operational capabilities that make it an attractive alternative for those applicants that do not have a long history of operational performance.

For the past several years, ERF Wireless has designed, engineered, constructed, monitored and maintained high-capacity private communications networks for regional community financial institutions in the south central and southwestern United States. To date, individual banking locations in three states are utilizing ERF Wireless' high-speed wireless broadband networks that employ our proprietary CryptoVue® Network Security Appliance technology, an innovative security solution that successfully meets the rigorous security requirements of both the banking industry and federal regulators.

ERF Wireless is also one of the largest Wireless Internet Service Providers (WISPs) in the U.S. and continues to rapidly expand its network through strategic acquisitions as well as internal growth.

Currently, ERF Wireless serves some 10,000 residential and commercial business customers in rural America with an infrastructure that encompasses approximately 160,000 square miles across Texas, Louisiana and parts of Oklahoma and New Mexico.

Most recently, the company introduced a nomadic broadband system, as well as a number of wireless broadband products and services, specifically designed to enhance productivity and reduce costs for companies operating in remote oil and gas fields throughout North America. Now oil and gas companies are able to avoid the bandwidth limitations imposed by traditional VSAT satellite technology and can effectively transmit data in a real-time environment, while having the option of adding Voice-over-IP systems, state-of-the-art video conferencing and security surveillance systems.

Finally, those companies that partner with ERF Wireless will be guided by the company's principals who have been in the wireless broadband, network integration, triple-play FTTH, IPTV and content delivery business for more than 40 years. Partners will also have access to services that include civil engineering, RF engineering, spectrum analysis, construction, equipment, testing and integration by an experienced team of engineers, technical specialists and capable project managers.

Professional Services Capabilities

Network Design

Strategic Planning and Feasibility Studies

As with any major project, strategy is critical. ERF Wireless begins their relationship with each customer by assisting in the development of a communications strategy, as well as helping define what capabilities are needed to determine the feasibility of their overall technology plan.

Assessments/Evaluations of Legacy Systems, Infrastructures and Services

ERF Wireless is staffed with seasoned RF engineers, whose experience enables them to analyze current wireless networks and provide recommendations concerning performance optimization, including tower design, radio selection and services integration.

System Architectures and Designs

Having built high-capacity networks for financial institutions throughout several states, ERF Wireless is a “subject matter expert” concerning system architecture and design. Whether a customer requires only a few locations or an expansive network for 1000 locations, ERF Wireless can scale a network to fit any need.

Disaster Recovery Planning

With bank networks in Lake Charles and Baton Rouge, Louisiana, and operations in Southeast Texas, ERF Wireless has been involved in recovery efforts as a result of some of the most significant natural disasters to hit the U.S. Gulf Coast in recent history. When the devastation generated by Hurricanes Katrina, Rita, Gustav and Ike shut down banking and communications capabilities in these areas, ERF Wireless teams were deployed within hours and began the critical task of recovering those networks. As a result, ERF Wireless customer banks and their networks were operational within 24 hours.

Point-to-Point and Point-to-Multi-Point Design

Network configurations may incorporate both point-to-point and point-to-multi-point scenarios. ERF Wireless understands that each network must be custom-built to fulfill the customer’s vision and network needs and designs networks that provide the exact footprint envisioned by the customer.

Network Engineering

Radio Wave Propagation Analysis

ERF Wireless employs an experienced RF engineering staff with the skills to provide strategies that optimize wireless networks. A critical component of this strategy is radio wave propagation analysis. ERF Wireless utilizes the best tools available to provide an analysis with pinpoint accuracy, providing optimal efficiencies with substantial cost savings.

RF Specification Development, Site Surveys, Spectrum Analysis and Coverage Analysis

Providing a solid overall RF plan is the cornerstone of wireless networks and ERF Wireless takes pride in developing plans that are efficient, maximize resources and enhance performance. Using state-of-the-art spectrum analysis tools, ERF Wireless develops a set of RF specifications that provides the customer with the best wireless communications design available.

RF Path and Coverage Topography Analysis

The performance of wireless technology is greatly impacted by terrain issues. ERF Wireless starts any network design process by researching not only the RF landscape of the proposed area, but also the terrain details as well. This enables the design of a network that is specifically tailored to any given area.

System Load Utilization and Dimensioning

ERF Wireless provides monitoring services to assess the deployment of applications and their resulting bandwidth utilization. ERF Wireless manages the addition of any load to ensure the wireless network continues to work at an optimum level.

Capacity Analysis

ERF Wireless analyzes the capabilities of a network to provide feedback and guidance regarding its use. After thorough consideration, recommendations may be made concerning the need to upgrade a network or its components to accommodate any new or value-added services desired by the customer.



Frequency Planning

ERF Wireless understands the demand for wireless technology in today's environment and knows that planning is critical to the ongoing viability of a network. Extensive research and analysis takes place initially to assure that the Radio Frequencies used in any given network will support the customer's vision for many years to come.

Systems Integration and Deployment

The integration of any system into an existing network can have a significant impact on the network's performance. ERF Wireless analyzes any additional services considered to determine the impact they will have on the existing network.

Network Construction

Implementation and Deployment Management

Design and architecture of a network are critical, but without a sound implementation and deployment strategy, together with a comprehensive follow-through, even the best design is doomed to fail. ERF Wireless has the expertise at every level to guide the deployment of any network to a successful conclusion.

Project Management

ERF Wireless has built multiple networks and knows first-hand the keys to a successful project include vendor relationships, budget oversight, and community and city connections. Whether a project is nearby or clear across the country, ERF Wireless is committed to bringing it in on-time and within budget.

Site Identification and Acquisition

Having built a number of wireless networks, ERF Wireless has the expertise to pinpoint suitable sites as well as develop plans for obtaining access to those sites. Working with tower owners, soil engineers, city and municipal organizations, state agencies and the FCC, ERF Wireless has developed a process that makes acquiring the appropriate sites efficient and cost-effective.

Site Construction

Whether starting from scratch with the erection of towers or building upon what already exists, ERF Wireless has construction experience at all levels. Our crew of construction experts provides our customers with a well-built, quality network.

Network Monitoring

24/7 NOC Monitoring

ERF Wireless monitors critical-mission wireless networks throughout Texas, Louisiana, New Mexico and parts of Oklahoma. With a world-class NOC (Network Operations Center) located in League City, Texas and back-up capabilities in Pampa, Texas, precision monitoring takes place 24/7, with technical staff just a phone call away to attend to any network needs. From our internal repair capabilities to our list of seasoned contractors, the ERF Wireless NOC serves as a dispatch center to make certain the network stays up and operates above industry standard.

Network Maintenance

Operational Support/Management

ERF Wireless can enter a project seamlessly, at any point specified by the customer. We manage multiple networks and stand ready to provide operational guidance, input and management of the network 24/7. Our NOC has the tools to support and manage any network operation around the world and around the clock.

Disaster Recovery Support

After a disaster, network recovery from a technical perspective is only a part of what must take place to return to full operational status. ERF Wireless works to be an integral part of a customer's formalized disaster recovery plan and continues to provide the guidance and support needed to realize a full operational recovery for the customer.

Operations and Maintenance

ERF Wireless is one of the leading wireless communications technology companies in the nation. Managing numerous Wireless Internet Service Providers (WISPs) with thousands of wireless customers throughout the country, ERF Wireless specializes in the operations and maintenance of wireless networks.



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