



I.C.E.

INTERNATIONAL COMMUNICATIONS & ENGINEERING LLC

BUSINESS OPPORTUNITY

Using its patented protocols and its unique and extensive experience, International Communications & Engineering LLC (ICE) designs, develops, and deploys wireless WiMax and satellite communications networks in the USA and other countries. The ICE solution provides the latest wireless and satellite technologies providing economical broadband wireless communications access to all geographic points without the delay and expense of burying cables and wiring buildings. In the US, customers save 70% over traditional communications deployments and even greater savings are realized overseas.

THE MISSION OF ICE

ICET&CCS – *{International Communications & Engineering's Town and Country Communications System}* is a solution to introduce the newest technology to all second and third world countries in order to reduce the digital divide and to transfer the knowledge required to maintain and operate the equipment. To introduce jobs that pays a living wage to the people so they can thrive.

ICEcom-Box - *{In Case of Emergency Communications Box}* during any disaster there is an immediate and critical need for a common communication system for the numerous agencies and personnel that have converged to participate in search, rescue, and recovery efforts. The inability to coordinate personnel and resources profoundly undermines the efficiency and timeliness of a response, which translates directly into further loss of life and an accelerating collapse of social and economic stability.

Deliver a communication solution that can be implemented immediately that accomplishes the following:

- Provide communications between the first responders, regardless of their location within the affected area
- Provide for real-time situational awareness
- Provide mobile communications capability
- Provide Fast deployment on short notice, with availability in a wide variety of weather conditions
- Portable (size and weight)
- Easy-to-deploy antenna systems
- High bandwidth reliability
- Built-in encryption ensures data security
- Central management
- Service that supports all IP applications and lower layers
- Toll quality voice and video
- Low power requirement



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APPLICATIONS

Emergency Response Network: Addressing disasters like hurricanes, fires, earthquakes, tsunamis, and floods requires communications among the response teams. But frequently in disasters, traditional communications networks are destroyed or compromised. Further, traditional communications networks don't offer voice, data, video, and conferencing as required by the diverse response teams. Response teams communications systems don't communicate network to network.

Quickly replacing damaged or destroyed networks after a disaster strikes may be impossible and consumes scarce resources when attention needs to be on relief efforts.

Emergency Response Network provides:

- voice, data, video, and conferencing to all emergency response team members
- wireless communications to and from mobile field crews
- interoperability among various responder communications systems
- full access to public communications networks
- deployment within a few hours



Internet Access: Smaller communities often have only limited or no Internet access via dial-up or cable modems. These communities lack the stable, affordable, high-speed Internet services required for competitive business performance, educating their children and citizenry, and maximizing social advantages. ICE partners with local communities to use its technologies to bridge this "digital divide."

Local and Long Distance Telephone Service:

Communities are challenged as they try to provide comprehensive communications services equally to all urban and rural residents residing within their geography. ICE partners with businesses and communities to quickly provide quality universal service. The expense and time required to string or bury communications wire and cable can be avoided with ICE's solution, which supports universal, affordable local and long distance telephone





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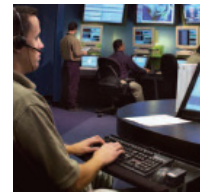
service throughout the community.



Wireless Services for Hotels, Convention Centers, Warehouses, Stadiums, and Campus Environments: Structure wiring such as traditional telephone wire and cable networks are expensive and difficult to install. The ICE system reduces infrastructure cost for campus environments, either as a discrete platform, or by augmenting traditional phone service (as in an over-build situation). Its broadband mesh

network system allows standard voice, video, and data applications to operate both indoors and outdoors over a high capacity broadband wireless mesh backbone.

Distant Learning: ICE provides high-speed, affordable Internet access for the education of children in public and private schools and even residences, and enhances adult education as the vehicle for distance learning.



Tele-health and Tele-medicine: ICE networks provide voice, data, video, and conferencing communications services for health clinics and other community services and support for local and remote medical and situational monitoring for the elderly and infirmed.

Banking Interaction Center: The ICE Banking Interaction Center spells efficiency and superior service with an open, server-driven communications platform and bundled application suite for offices and branches as well as contact center operations and remote and mobile employees. From a central server at headquarters and network connections to dispersed branches and offices—or using a SIP-based network and voice over IP (VoIP)—your entire banking organization gets IP PBX call processing along with e-mail, voicemail, fax and Web functionality. An automatic call distributor (ACD), multimedia queuing, automated attendant, and priority and skills-based routing get interactions where they need to go quickly and accurately, no matter the location. Productivity and customer





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service gains also come from unified messaging, conferencing, CTI screen pop, digital recording, real-time supervisory/ quality monitoring, and easy integration to data processors and CRM and workforce management applications. No separate systems required for branches, call centers, remote users or individual departments and workgroups. Banking Interaction Center lets you take advantage of Internet-based VoIP and SIP to globally deploy communications applications to every corner of your financial operation. All you need for a virtual queue, group messaging and collaboration across locations is a single Banking Interaction Center server or IP network connection at each site and the system's single, central administration interface at your main office. If any location's server or network connection is ever interrupted, calls and interactions are still alternately routed throughout the system—and your entire organization—without missing a beat



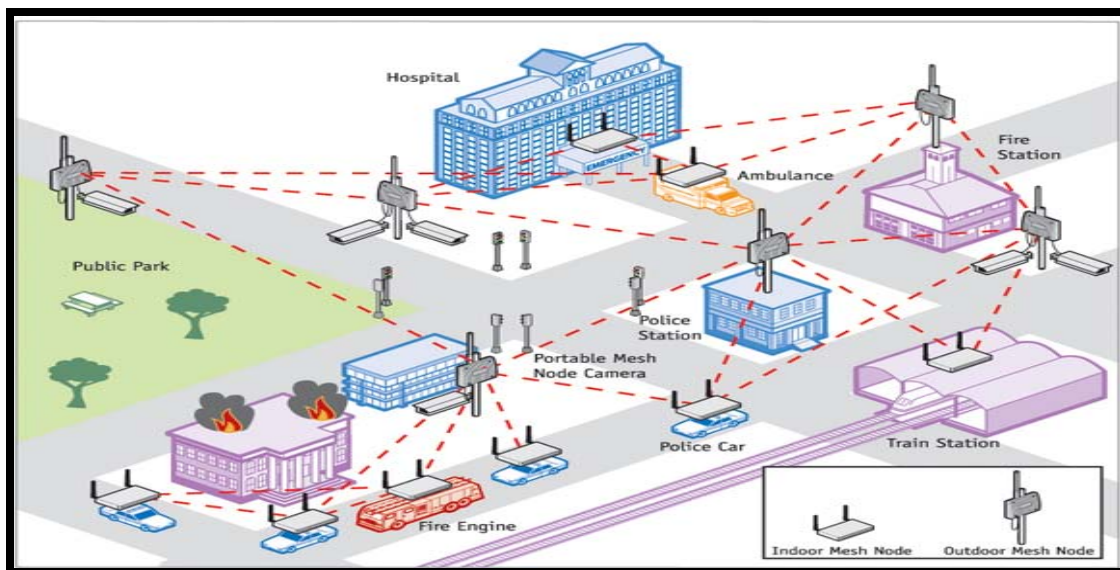
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PRODUCT DESCRIPTION

The ICE system is a standardized equipment platform that is common to all of the applications previously discussed.

The ICE system can be deployed in rack-mount configurations for fixed equipment locations. The ICE system can also be configured for ease of transportability for customers supporting emergency response services or for customers requiring temporary services until fixed equipment is installed.



Each ICE system is generally comprised of fixed and mobile wireless broadband transceivers, satellite transceivers, antennas, power supplies, interfaces with other available networks, and network management software. Customer options include the number of transceivers and antennas, portable antenna masts and mounts, solar and generator options, traffic switching/routing, and voice/data/video I/O devices. The actual configuration will depend upon customer requirements as determined by the types of services and the number of customers to be supported.

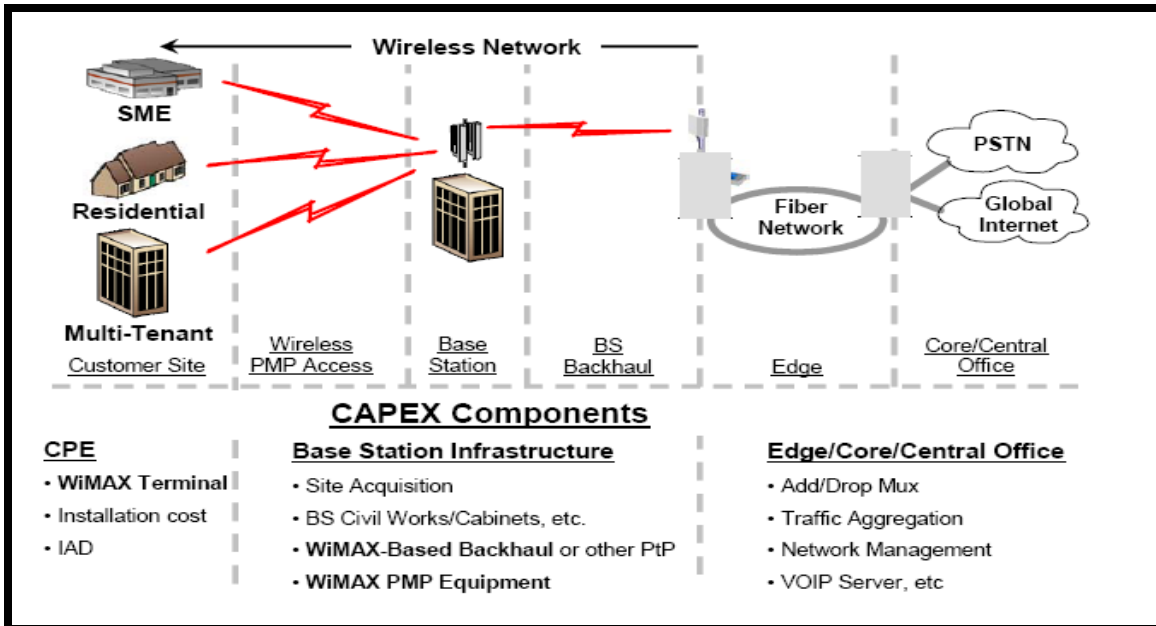
The ICE system is easily deployed, requiring nominal training of customers. Wireless systems to serve a given geographic area are inherently less expensive than wired systems, both in equipment and installation costs. Upon completion of any permit requirements, a process common to both technologies, the transportable ICE system can be operational within hours; fixed systems depend upon the availability of suitable equipment shelters.



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The ICE system is fully scalable. As users are added to the network, transparent addition of equipment provides expanded network capability and enhanced customer satisfaction.



PRICING

Budgetary Cost

QTY of equipment	Cost Estimation
252 Communities	\$ 50,391,111
6 phases each – 42 communities each phase	\$ 8,398,519.

BUILD STRATEGY

A single network supporting multiple services and applications may be less expensive and establish nationwide universal communications capabilities more quickly than multiple, overlapping, and incomplete, quasi-independent networks.

National government guidance and funding is essential to establishing a nationwide universal network. Network development can be managed through a Government Agency and incorporated with the established network facilities. In the interest of short term, private financial gain, networks developed by competing profit-oriented private enterprises typically focus on denser population and usage centers where the revenue opportunity is concentrated and reachable with least cost.

Universal service to urban and rural citizens is a basic objective for countries interested in citizen development equality.



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Planning for the national network should include the known compliment of communications applications – telephone service, Internet access, education, medical, and security.

Profits from denser population centers in the network subsidize rural coverage.

Developing countries may choose to use development and deployment of communications to enhance employment and training opportunities for citizens.

A Government Agency may implement the Governments communications plan of network, applications, and utilization. The Agency assures plan compliance. The Agency manages inter-country network access. In accordance with Government directives, the Agency provides for the allocation and licensing of wireless frequencies. Agency standards provide for private access to the national network.

- Using established leading edge technologies can shorten development time and significantly reduce build out costs.
- Buried fiber optic cable along high volume routes offers volume communications at relatively low cost.
- Wireless broadband service deploys quickly to provide wide area coverage with full mobility.
- Satellite is the inexpensive, convenient backhaul for immediate remote access interim to fiber availability.

The Government may Partner with established telephone companies to provide an organization to contribute to network development, to be trained in new technologies, and to manage network operations.

The ICE stratigy is to keep the money earned by customer subscriptions to remain in the country. In the past companies such as MTN remove the major amount of revenue from the country it operates in and sends the money to its parent company in South Africa. This amounts to forced “Technological Colonialism” by MTN because, it was required to invest in a country and not the country investing in itself.

ICE attempts to find investors around the world as a “Venture Capital Investor” or bank that will invest in a growing concern.



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FINANCIAL REQUIREMENTS

The build out of the country can be broken down into phases which can be financed more easily by banks and is a much more attractive investment to Venture Capital investors.

ICE has arranged in the past for the Export - Import (ExIm) Bank in the USA to guaranty the loan and the loan is to be given by a bank in the USA as long as the African Development bank will do a certificate of Guaranty also. The World Bank is also an investor as grant presenters or loan givers.

Grants from the Millennium Fund can be obtained as well as funds from the World Bank. The entity owing the equipment in the country will have to raise 20% of each phase at the time of loan.