



THE 4th UTILITY

WIRELESS BROADBAND

OMNICITY CORP (OMCY) - was originally created to make it feasible for rural communities across the United States to gain access to the financial and the technical means to implement an IP (Internet Protocol) based interoperable communications system for public safety.

The original concept was to bring a wireless broadband network to even the smallest of cities. Providing a true carrier-class wireless broadband communications network allows a city to gain many benefits ranging from wireless internet services for the entire community to providing the latest technological tools for first responders. All in a way that is practical and financially feasible.

"THE 4TH UTILITY - BROADBAND"

Towns and cities of all sizes typically own at least one of the 3 main utilities: water, electric, and gas. In talking with cities about their needs, Omnicity quickly realized that municipalities could gain many benefits from owning an additional utility.

The so-called "4th Utility": **BROADBAND**

By creating and owning a broadband utility the municipality can now gain numerous benefits:

- Ø Technology which ties a city together in ways previously impossible;
- Ø Improved emergency response from all emergency services;
- Ø Provide high-speed internet connectivity for both residential and business needs;
- Ø A new revenue stream for the city through the sale of internet services;
- Ø Retain dollars that are currently leaving the city (i.e. 85% of telecommunication and cable dollars leave the city);
- Ø Reduce or eliminate city expenses associated with current telecommunication needs. (Telephone, Internet, TV, Cellular/Mobile radios);
- Ø The recapture of lost revenue and reduction of expenses by using the latest technology to replace degrading metering systems with a fixed-based network creates an Advanced Metering Infrastructure (AMI);
- Ø Omnicity may provide funding to replace all city owned utility meters and build the utility infrastructure. Omnicity obtains the lowest rates available with fixed rates up to 20-year terms;

- Ø Omnicity provides the design, build, and operational functions necessary to run the 4th utility;
- Ø A city-owned broadband utility system coupled with the replacement of meters and addition of AMI technology can pay for itself and generate added revenue for the city.

WIRELESS BROADBAND HAS EVOLVED

The following is an overview of the many services available through wireless broadband technology. Omnicity is dedicated to improving the quality of life in cities that were previously considered too small or too remote to receive all the benefits of today's telecommunication advances.

- Ø **Overview:**
- Ø Omnicity works with municipal governments and their leaders to define the needs of an entire municipality. These needs include:
 - Ø Government needs in the form of emergency services, improved efficiency and effectiveness in utility services, and day-to-day operations of the city offices; increased revenues to the city and reduction of tax dollars leaving the city;
 - Ø Corporate needs in the business sector. Identifying ways in which a city may attract new businesses and jobs to the area, as well as retain existing businesses. Wireless communication fulfills a variety of needs depending on specific businesses. In general the evolution of broadband has brought about higher quality, faster services, broader bandwidth, and lower costs to practically all aspects of a business which are touched by the broad term "telecommunications". Be it simple internet needs, security needs, or communication needs, wireless is proving a versatile solution.
 - Ø Private needs in the residential sector. Through wireless, even the smallest community can enjoy: broadband internet at high speeds, mobility to use a wireless internet connection anywhere within the city, television services equal to those provided by cable or satellite, telephone services for both in-home systems and the new "dual-band" WiFi/Cell phones that operate on two frequencies. All at a cost competitive to any "wired" services.

Municipalities:

- Ø **First Responder Services.** The broadband utility provides police, fire, emergency services, and city personnel with an integrated wireless service. These responders can receive information instantly via laptops in their cars for a wide range of needs. Police can check tag numbers against stolen car databases, receive DMV information, and find outstanding warrants instantly. Fire departments will have the ability to pull up the blue prints of a commercial building before entering a burning building. Locations of hazardous chemical storage can be pinpointed via these layouts. Emergency personnel can obtain specific directions for rural addresses. These first responder services should not be confused with systems that utilize cellular services which are more restricted and more costly to operate;

- Ø Emergency vehicles are equipped with special systems that allow the responder to operate a distance from their vehicle and still be connected to the network. Whether via voice, data, or video, the responder is not limited to the confines of his vehicle;
- Ø Remote video is possible at a crisp clear 30 frames per second. Video can be mounted in emergency vehicles and can be remotely viewed by headquarters or other emergency personnel if desired. Police officers safety is enhanced when they make traffic stops because their in-car video camera can now be monitored in real time as opposed to the outdated VCR methods currently employed in the trunk of the emergency vehicles;
- Ø Remote video can be mobile and transmitted while traveling at any speed anywhere within the covered area, or video can be mounted in fixed locations to monitor specific areas;
- Ø Homeland Security. New uses are being developed daily. Video surveillance of a city's water supply is just one example of how the wireless video is being used. Contact Omnicity for other uses for Homeland Security and how to obtain government funds to offset the cost of these uses;
- Ø Automatic Meter Reading. Omnicity has resources devoted solely to providing services connected with the remote reading of any type of utility meter. OMNICITY offers turnkey solutions for customer specific solutions to a city's needs for replacing or upgrading their present system (whether it is water, electric, or gas) with a completely wireless system providing real time data. There would be no need for walk-by or drive-by technology. This should not be underestimated. Our research has found that the average "rural" municipality loses, on average, 20% of potential water revenue mainly from water meters that are deteriorating and losing accuracy. A typical electric company may be losing 2%-3%, for the same reason. Omnicity provides new meters with AMI technology or, when practical, can retrofit many of the newer meters;
- Ø The role of the advances in metering and meter reading cannot be overemphasized. It is not uncommon to find that the cost savings and increased revenues generated by improving the efficiencies of the local utilities can pay for most, if not all, of the infrastructure needed to provide the services mentioned above.
- Ø **Business and Schools:**
- Ø Access to high-speed "always on" broadband enables both business and schools to stay connected with all the information and communications technologies the world has to offer;
- Ø Easily and quickly scalable speeds to match a business' needs;
- Ø Wireless can be installed within 72 hours as compared to 30 to 60 days or longer with a typical, slower T-1 (land line) technology;
- Ø Ability to integrate into and expand existing security needs of a company;

- Ø Remote video technology can be used by management in a variety of ways. Monitor sensitive areas or remote locations. You will have access to affordable high quality video conferencing. Motion detection alone or combined with video. Schools and businesses now have a wide variety of options to increase security without expensive rewiring;
- Ø Daycare facilities can provide secured remote viewing to parents, too;
- Ø Business and individuals can take advantage of the Wi-Fi ability of many of the latest PDA/Cell phones available;
- Ø In short, the uses of wireless in a business are as varied as the businesses themselves.
- Ø **Residential:**
- Ø Historically, the economics of bringing high-end "wired" technology (i.e. DSL, cable television, cable internet) to smaller communities has been cost prohibitive. This has left a lot of places with the only choice being slow dial-up services for Internet or expensive satellite systems for television. Omnicity's resources, business partners, and overall approach of utilizing wireless technology allow a solution that overcomes this barrier. It is now possible for the smallest of communities to enjoy advanced services that are equal or superior to those in large cities.
- Ø A wireless connection to the internet that is always on. A computer equipped with an inexpensive Wi-Fi card can be moved to any location within the city without having to make any changes. A laptop can be used both at home and at work and stay connected even in route;
- Ø Wireless TV is available without cable, wires, or satellite dishes. Channel availability is on par with other services;
- Ø Wireless telephone using VoIP (Voice over Internet Protocol) technology eliminates the need for a land line;
- Ø Dual band telephones that operate over the Wi-Fi frequencies and over cellular frequencies. This will allow increased data flow which in turn allows the phone to be used with the internet and television, freeing the customer from being tied to just cell "minutes" anymore;
- Ø Several security solutions are available including video monitoring of your home while away.

Summary

Omicity believes strongly in what has been termed the Wireless Revolution. We believe that history will record this new Revolution as far more reaching as even the Industrial Revolution.