Serving Municipalities in the Philippines

Improving Communications between Buildings

More and more municipalities in different parts of the world are looking to connect their disparate buildings quickly and cost effectively. Finding the right type of high speed connectivity at the right price is the challenge.

The local government in Caloocan City, the third largest city in the Philippines, wanted to connect its local city hall building to the main city hall building located 18 km away. Many of the businesses in the area were conducting their activities at the local branch (tax payments, building permits, business licenses), and in order to improve communications between city hall branches and ensure the efficient and reliable flow through of information between them, the local government needed an affordable, high bandwidth solution.

In 2005 the Caloocan City government turned to local Asian High Technology Corporation, a leading system integrator in the Philippines, for help. Asian High Technology Corporation chose RADWIN's WinLink™ 1000 broadband wireless solution to connect the Caloocan city hall buildings, thus creating one physical network over the airwaves.

Serving Municipalities in the Philippines

Overcoming Line of Sight Constraints

Today, one WinLink 1000 link connects Caloocan's city hall buildings. WinLink 1000 handles traffic for more than 100 computers, provides on-demand Internet access and enables sharing resources such as the software used for all payments and invoicing. Operating under non-line-of-sight conditions, WinLink 1000 overcomes physical obstacles such as buildings, billboard signs and bridges to deliver a non-stop connection.

"After carefully evaluating Caloocan City government's existing network and assessing their future requirements, it was clear that a wireless point-to-point network could offer them the high bandwidth and scalability they needed, at the most cost-effective price," said Edward Soriano, Asian High Technology Corporation's Senior Engineer. "RADWIN's WinLink 1000 solution was an easy choice given the fact that it delivers high bandwidth and a fast connection, all for a lower cost than any other alternative."

WinLink™ 1000 Plug & Play Installation

"The WinLink 1000 installation was unbelievably quick and in just a few hours a high-speed broadband connection was established," continued Soriano. "We only used an integrated antenna for a non line of sight path of 18 kilometers, and still it works magnificently. The small surface of WinLink 1000's integrated antenna enables it to successfully weather typhoons, which is crucial in a typhoon-prone country such as the Philippines."

Before WinLink 1000 was deployed, the local city hall leased slow, low-speed Ethernet bridges and was paying 35,000 Philippine pesos a month. The one time investment in WinLink 1000 eliminated these ongoing monthly charges, enabling the local government to realize full return on investment in mere months.

WinLink™ 1000 Benefits

Cost savings, simple installation, flexibility – these are the key advantages the Caloocon city government realized as a result of installing the WinLink 1000 wireless network. Local government employees now enjoy convenient, high-speed broadband access, and city residents can conduct their business at the Caloocan City hall in their vicinity, without having to travel an hour or more to the main city hall.

Concluded Soriano: "RADWIN's solution emerged as the best alternative to expensive Ethernet bridges as well as to carrier provided land-based circuits. Thanks to the reliability and performance of RADWIN's product, the government has fast and dependable Internet access and can better serve city residents. The results have encouraged the local government to look at expanding the wireless network to other government buildings faster than originally planned."

The WinLink™ 1000 Advantage

- **Unrivaled price**
  More competitive than any other wireline or wireless transport solution of similar performance levels.

- **Carrier grade performance**
  No network downtime, ensuring 24/7 business continuity.

- **Voice and Data solution**
  Delivers up to 4 E1/T1 ports and 2 Ethernet ports. A single link accounts for all telephony and data needs.

- **Compatibility**
  Easily interfaces with all standards-based enterprise communications equipment.

- **Long range**
  Up to 80 Km/ 50 miles.

- **Quick installation**
  Link is established and running in just hours.

- **Simple operation**
  Maintenance free; no learning curve.

- **Maximum reliability**
  Designed for robust performance in the harshest weather conditions and transmits faithfully over the most difficult terrain, even in non-line-of-sight constraints.

- **Security**
  AES 128-bit key encryption scheme guarantees optimal over-the-air security.