



Powerwave Coverage Solutions

Casino Windsor

Powerwave Provides Security Personnel and First Responders the Ability to Communicate Wirelessly

The Customer

When legitimate gambling was first established in North America in the lower Mississippi Valley around 1800, Samuel Morse hadn't even begun to figure out how to send the first electrical telegraph. Without the benefit of wired (let alone wireless!) communications, security in such establishments was pretty much confined to the holster belt. Today patrons are strictly forbidden to carry firearms in gambling casinos like Casino Windsor, which is monitored around the clock by highly sophisticated video surveillance equipment and roving on-site security personnel. As well, the area surrounding the casino is heavily patrolled by officers from the Windsor, Ontario police force and various other public emergency service agencies are always on stand-by alert.

The Challenge

Overlooking the Detroit River and the Detroit skyline, this 100,000 square foot Vegas-style operation - which employs more than 5,000 local area residents - features two expansive floors of gaming excitement, a four-diamond hotel, a live entertainment venue plus five restaurants. In order to respond to potential criminal activities, emergency situations and other inflammatory incidents efficiently, security personnel at Casino Windsor needed to be able to rely on two-way wireless radio devices to communicate with each other as well as with local police, fire, ambulance and other public emergency service agencies. Unfortunately, the 90,000 cubic yards of concrete, 3,500 tons of structural steel, 6,000 tons of reinforcing steel and 330,000 square feet of exterior glass and metal panels used in the construction of this world-class complex were all extremely hostile to RF signals and presented formidable barriers to the successful transmission of clear, strong, reliable wireless signals inside. As a result, Casino Windsor was faced with some serious security and safety issues that needed to be addressed.

The Solution

Based upon the success of a recent wireless coverage extension solution provided to the Windsor Police Department by Powerwave Technologies, Casino Windsor was confident that the company would be able to deliver a simple, affordable and dependable solution. In order for Powerwave to deliver such a solution, their team of highly experienced engineers performed a thorough on-site survey to assess the

needs and conditions of the casino's facility. With the results in hand, Powerwave's engineering team set about designing the optimum solution for extending wireless coverage to those "impeded" spaces where signals typically failed.

Powerwave ultimately recommended the installation of a series of on frequency repeaters placed at strategic points within the casino that would serve to amplify the 800 MHz bandwidth used by their Motorola SmartNet™ trunked radio system for public safety. In addition, a complementary distributed antenna system was recommended in order to extend the signal into the problem areas. This included 20,000 feet of coaxial cable, Powerwave's patented Tap-In signal taps and numerous ceiling antennas. Upon approval, the rapid implementation of the recommended solution was completed with minimal disruption to casino activities.

The Results

Powerwave provided a complete turn-key solution for extending coverage of Casino Windsor's two-way radio communications. All aspects of the solution - including the design, manufacturing and installation - was completed efficiently and cost effectively. More importantly, now that more than 98% of the casino has reliable wireless coverage, the responsiveness of security and emergency services personnel has greatly increased, providing greater peace of mind - and peace - all around.

About Powerwave Technologies

A global leader in end-to-end wireless coverage and capacity solutions, Powerwave Technologies, Inc. offers cutting edge wireless infrastructure to address the demands of enterprise and commercial customers. Powerwave offers a comprehensive suite of solutions, including Antennas, Base Station Solutions and Coverage Solutions. Powerwave's product line supports all wireless network protocols and frequencies including Next Generation Networks in 4G technology such as WiMAX™ and LTE®. Powerwave solutions, products and services also help wireless operators and OEMs reduce capital and operating expenses, speed rollout of services, improve coverage and capacity, and reduce environmental impact. For more information, visit us at www.powerwave.com.



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