

Case Studies

CN Tower, Toronto (supplied by Mobile Business Communications Ltd.)

Toronto's CN Tower is the tallest freestanding structure in North America, and since 1976, it has played a key role in the city's telecommunications infrastructure while offering visitors a superb view from two observation decks. CN Tower is a long-term client and partner of Mobile Business Communications (MBC), a Toronto dealer. MBC has installed NEXEDGE® equipment to provide digital trunked communications within the tower itself and also to serve as MBC's core operating site for its entire southern Ontario network.

● Challenge

This unique structure poses special challenges for a radio system. According to Kerry Adams, President of MBC, **ensuring that a solid signal propagated throughout the facility, providing excellent voice clarity and a static-free communications environment, was an important factor in the selection of NEXEDGE®** to replace the previous analog LTR® trunked system.

● Capacity

The CN Tower's **new FDMA-based digital trunked system with 6.25 kHz capability ensures clean, clear and defined signal propagation, as well as, increased capacity, allowing for**

multiple talk groups, which was not previously possible with the LTR® system. Now employees in as many as a dozen different departments – like Engineering, Maintenance, and Special Events – can all be **talking simultaneously yet independently, enjoying excellent voice quality as well as enhanced protection from scanning and eavesdropping.**

● Solution

The new NEXEDGE® system utilized the same 450 MHz band as their former LTR® system which allowed for a smooth migration. NEXEDGE® has proved to be an ideal solution for this famous Canadian landmark and for MBC, which has been serving the commercial SMR industry in southern Ontario for over three decades. MBC adopted NEXEDGE® as its primary digital platform because **it provides customers with seamless group communications fleet-wide and over an expanded footprint. Like many other companies using cellular, they were strongly attracted by the cost-efficient wide-area coverage made possible by NEXEDGE® technologies as well as economical IP networking and the added potential to deploy GPS and messaging capabilities.**

