

CASE STUDY



Calgary Parking Authority

The Calgary Parking Authority is responsible for all parking policies, and manages the public parking facilities for the City of Calgary. The Calgary Parking Authority required a city wide parking guidance solution to make parking easier and more efficient, while also monitoring and managing the quantity of monthly and daily parkers.

TCS provided a customized Parking Guidance System utilizing ultrasonic directional sensors to monitor vehicle traffic at the entrance and exits of each facility as well as in between parking levels. To monitor each individual parking space ultrasonic single space sensors were used. Roadway signs at the entrance to each facility display parking space availability. The TCS Visual Control Center software package is used to manage the system providing a user interface, statistic information, as well as interface to customized LCD information screens throughout the system.

Installation Highlights:

- 8 facilities and over 5,000 parking spaces monitored
- Ultrasonic Directional Sensors provide accurate counts
- Single Space Sensors used to monitor the monthly and daily parkers
- LED occupancy indication on single space sensors
- Wireless mesh network uses less cable than traditional parking guidance systems
- Server with communication through city's existing network



Ultrasonic single space sensors with LED occupancy indication



Parking space availability signs at each facility



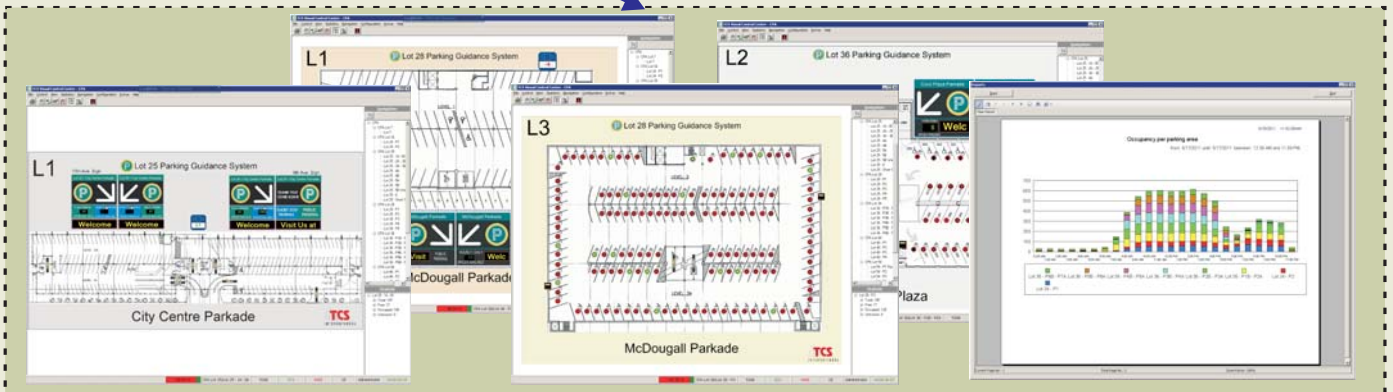
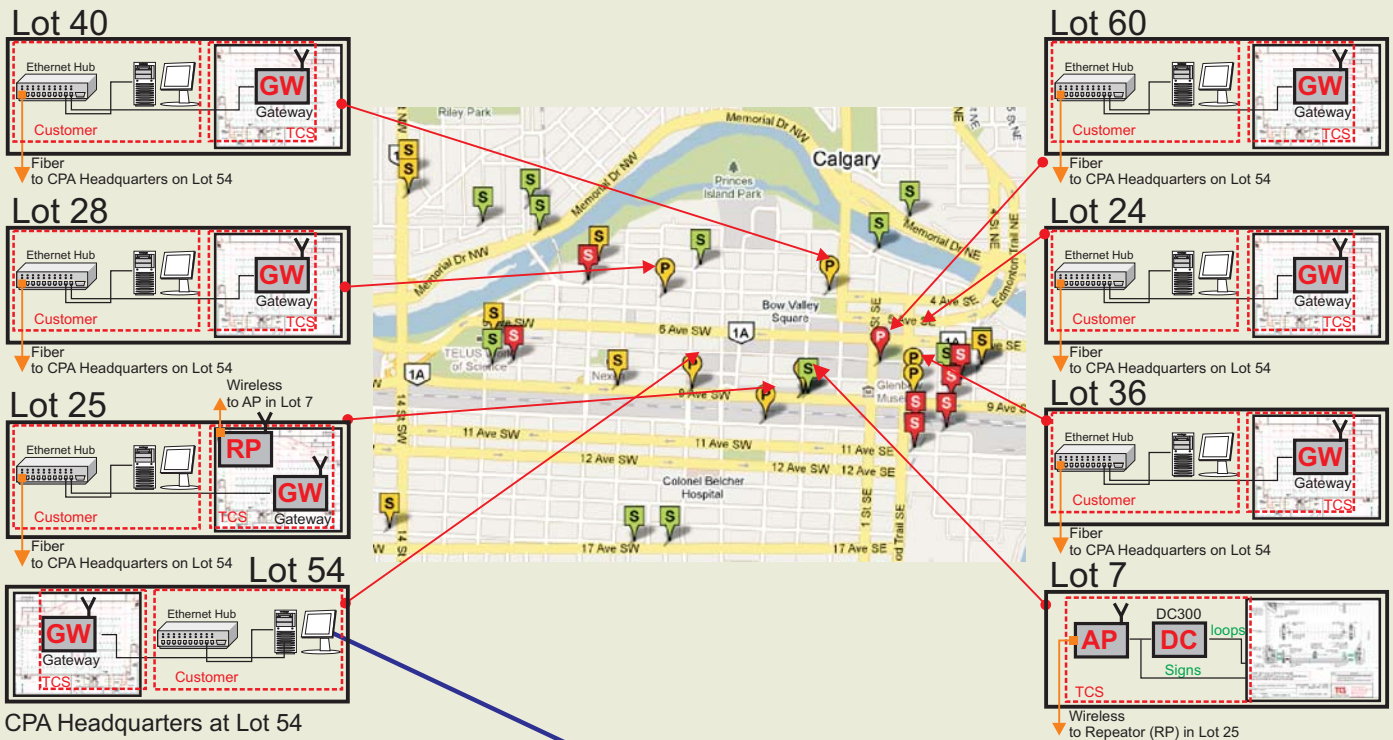
Interface to customized LCD information screens



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The parking guidance system for the Calgary Parking Authority takes advantage of TCS International's wireless mesh technology eliminating the communication wiring required throughout the garage. This reduces cost, and improves performance by removing a single point of failure as in typical wired systems. A server with parking guidance software is located at CPA headquarters, and communicates to all facilities through the city's existing network. The software provides a graphical user interface displaying real time parking availability, counting device status, and sign information. The software allows a user to view, analyze, as well as export numeric and graphic parking information statistics.



TCS Visual Control Center features graphical user interface, real time parking availability, and statistics.

