



**Government and Private Industry  
collaborate to provide backup power  
supporting the most modern,  
integrated Public Safety system ever  
deployed in Mexico City.**

**An Alpha Technologies Case Study**

February 2012

## Summary

Mexico City, one of the world's largest megacities with a population of over 8 million at its core, tackled the ambitious goal of better protecting its citizens from a wide spectrum of risks including crime, terrorism, attacks on strategic sites, natural catastrophes and other emergencies. Compared to similar sized megacities such as New York, Mexico City has a police force of only two-thirds of its US counterpart.

Through a cooperative endeavor involving The Government of Mexico City, Telmex (a leading Latin American telecommunications company) and Thales (an international leader in security solutions), Mexico City authorities decided to implement an integrated urban security system to handle calls and process information from surveillance systems built on the city's most modern, secure and widespread telecommunications network.

The Alpha FXM 650 (650W) Uninterruptible Power Supply Module and Lithium backup power were selected by Telmex to be the backup solution for 8,080 video cameras and sensors located across the city; a network designed to detect or transmit alarms to security operators when any unusual events or behavior occurred.

In a major emergency situation, police have the ability to deploy specially equipped mobile command centers that maintain contact with the central command center (C4I). The system can also locate or identify vehicles in the city's main streets, made possible by its ability to read license plates.

Telmex, with its considerable Latin American market presence, is guaranteeing the implementation of the program such that it is putting its entire existing network, and a new dedicated optical fiber network, at the service of the "Ciudad Segura" project. The cutting-edge technology of Telmex's infrastructure, the security, robustness and coverage of its network, and its experience in operations and integration (including highly trained telecommunications personnel), will all contribute to the success of the project.

## Metrics surrounding the Integrated Security System for Mexico City

- Operational 24/7, addressing 9 million Mexico City inhabitants
- Organization dedicated for public safety forces (80,000 people)
- Video surveillance network (8,080 cameras dedicated to urban surveillance, traffic management and registration/plate recognition) with backup power based on Alpha FXM 650 UPS Module and Lithium Battery
- Integrated and unified command control system including:
  - One C4I: 5 floors, 20,000 M2, 250 positions (90 call-talkers, 132 dispatchers and 20 video surveillance operators)
  - Five C2: from 35 to 60 positions
  - Two C2 mobiles units
- Laboratory / development platform link to Polytechnic Engineer High School
- NOC: Network Operational Center
- SOC: System Operational Center
- Training facility



## Client

Telefonos de Mexico

## End User

Secretary of State for the Public Safety of Mexico City

## Project

Most ambitious public safety project in the world with more than 500 engineers and experts from the Mexico City Police Department.

## Key dates

- Contract awarded in 2009
- Inauguration of the first part of the system scheduled for the Bicentenary of the city in 2010

