



The Santiago, Chile Metro Subway System

"Since the LGCell® system was installed, we have already received traffic statistics that show an increase of more than 4,000 new minutes of use per day in the microcells located in the Santiago Metro. Clearly, ADC wireless solutions pay for themselves."

*~ Gustavo Marambio,
Manager of Network Implementation, Telefónica Móvil.*

CASE STUDY

Where people go, they expect wireless to go with them. More people on the move means more demand for clear, consistent, reliable wireless communication. As transportation hubs and systems step up to meet that challenge, they face challenges of their own. Concrete and steel construction, underground tunnels and parking facilities, crowded terminals and train stations obstruct the path for perfect reception and adequate capacity.

Telefónica Móvil, Chile's premier and innovative provider of wireless service, recognized the market demands and teamed with ADC to deliver wireless capacity and coverage to commuters on the Santiago, Chile Metro subway system. The LGCell product is used to deliver additional capacity and crystal-clear coverage throughout 24 stations and associated tunnels. The resulting jump in airtime minutes reflects the satisfaction of commuters and Metro personnel and has delivered a boost in revenue for Telefónica Móvil.

The 700,000 daily commuters who trust the Metro to get them where they need to go can now depend on ADC to see that each call also reaches its destination.



CHALLENGE

With the dramatic increase in public mobility, transportation facilities are faced with the need to keep people in touch while they are traveling. To achieve this, they must solve the challenges that hinder perfect, clear wireless coverage. Concrete and steel construction and underground stations and tunnels are the most significant barriers. Increased wireless usage puts a strain on capacity, keeping calls from reaching their destination. Interference with the operation of highly sensitive electronic equipment may also be a concern.

STRATEGY

ADC wireless systems deliver seamless, crystal-clear wireless capacity and coverage in all types of structures, during peak hours, and in any location within a transportation facility.

ADC wireless products run at low power levels that will not interfere with sensitive facility management and operational systems.

RESULTS

In transportation hubs, ADC solutions:

- Deliver clear, uninterrupted reception for all incoming and outgoing calls so travelers can conduct business and keep in touch with family from any location within a transportation facility
- Boost wireless capacity so that calls consistently reach their destination any time of the day
- Maximize the use of network resources and radio channels, reducing infrastructure and deployment costs
- Empower facility personnel to quickly respond to emergencies
- Install quickly and quietly for minimal disruption to employees and passengers
- Support multiple wireless operators
- Support voice, data, Internet, and intranet applications that provide passengers, operations personnel, and security personnel convenient and immediate access to information
- Have the flexibility to adapt to industry changes by supporting all protocols and frequencies, including the upcoming third generation (3G) wireless systems
- Use industry-standard cabling for easy installation, expansion, and maintenance, without disrupting operations

SPECIFICATIONS

Area covered: 24 stations and the tunnels of Line 1
Product: LGCell
Protocol: TDMA
Frequency: 800 MHz
Carrier: Telefónica Móvil



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