



# Daegu Metropolitan Subway Corporation Korea

A Korean subway operator with a focus on providing high quality service



February 17, 2006 marks the success of a pilot test for interoperable communications between subway operator Daegu Metropolitan Corporation and the Daegu Police emergency service network over a TETRA-based radio communications network.

## BACKGROUND

Based in Daegu, Korea, the Daegu Metropolitan Corporation employs more than 2,000 staff members, who in turn serve approximately 139,000 commuters – each travelling over an average distance span of an estimated 53.9 kilometers daily.

To improve its overall communications and safety of its transit system, Daegu replaced its previous analogue system with Motorola's TETRA radio system in 2005.

Since then, Daegu has constantly prided itself on being the most comfortable and safest subway line in the nation. Today, the Daegu Metropolitan Corporation operates two subway lines.

## CUSTOMER NEEDS:

- Interoperable communications between subway operator (Daegu Metropolitan Subway Corporation) and Daegu Police's 112 emergency service networks over a TETRA-based radio communications network.
- To build a more secure and efficient communications network that ensures the safety of crew and commuters in daily subway operations and during emergencies
- To restore commuter confidence in the public transportation communications system.

"The TETRA system's proven ability to interoperate with the Police network is a clear indication that we are on the right track in building a more secure and efficient communications network that ensures the safety of our crew and commuters in daily subway operations and during emergencies."

- Lee, Jung Ho, radio communication network manager of Daegu Metropolitan Subway Corporation



## MOTOROLA SOLUTIONS

Motorola provided a TETRA-based digital network – the preferred radio network for advanced communication system among transit agencies to replace the previous analog system.

The successful pilot test took place at the Daegu Hyunchungro subway station where Motorola's TETRA (TErrestrial Trunked RAdio) system was installed to control and monitor underground radio communications. The interoperability test confirmed the effective and seamless communication between the Police TETRA radio network and the subway's TETRA-based communications system.

In this way, a city-wide domestic public transportation "safety" network is formed.

## BENEFITS

- Seamless and effective integrated communication between the Police TETRA radio network and the subway's TETRA-based communications system provides a critical communication function that was never possible on the analog platform
- Interoperability of TETRA system enables the Subway crew to communicate train-to-train, train-to-station, and train-to-Command Centre, and also allows users to communicate with public safety organisations such as the Police and other emergency response agencies
- TETRA-based digital network removes communication barriers and offers users peace of mind
- System takes the Daegu Metropolitan Corporation a step closer towards forming a domestic public transportation 'safety' network city-wide



Motorola Electronics Pte Ltd, Motorola Innovation Centre 12 Ang Mo Kio Street 64, Ang Mo Kio Industrial Park 3, Singapore, 569088, Singapore +(65) 6481 2000 <http://www.motorola.com/governmentandenterprise>

MOTOROLA and the Stylized M Logo are registered in the US Patent & Trademark Office. All other product or service names are the property of their respective owners. © Motorola, Inc. 2007 All rights reserved.