

# ANKARA METRO

## TETRA POWERS ANKARA METRO'S CURRENT LINE AND NEW LINES



### TETRA'S DIMETRA IP COMPACT - THE FIT SOLUTION FOR ANKARA METRO RAILWAY INFRASTRUCTURE

To manage current and new railway system, Ankara Metro decided turning to TETRA (TErrestrial Trunked RADio) digital trunking solution for its communication to handle networked train scheduling, operations management and maintenance. Firstly, in 2012, Current Line, M1 is switched to TETRA from analog UHF system for being compatible to all railway communication system. And two new lines, M2 and M3, will be completed until the end of 2013.

Full system will include all IP-MSO (Mobile Switch Office), 35 enhanced Base stations, over 1000 terminals (Mobile Radios, Portable Radios and Train Radios), Control Centre with Redundant Network Management Terminal, Voice Logging Server and Dispatchers, Redundant RF Coverage System. The 410-430Mhz TETRA system extends across all three lines (M1, M2 and M3) covering 33 stations over 48 kilometers.

#### FEATURES OF ANKARA METRO TETRA SYSTEM

- Communication System of Current line-M1 is switched to TETRA
- All communication will be provided by Tetra Base stations instead of Signal Repeaters
- Well planned coverage design guaranteeing complete coverage under or above ground
- New lines-M2 and M3 will communicate over TETRA
- All lines will work under the same zone
- Coverage Redundancy against failures of Equipments

#### SOLUTIONS IMPLEMENTED BY AIR

Dimetra IP Compact Solution composed by:

- 35 enhanced Base stations
- over 1000 terminals (Mobile Radios, Portable Radios and Train Radios)
- Control Centre with Redundant Network Management Terminal
- Voice Logging Server and Dispatchers
- Redundant RF Coverage System

#### INFRASTRUCTURE BACKGROUND

The Ankara Metro M1 Line, running since 1997, is 14.7 km long and with its 12 stations it is the unique suburban railway system of Ankara for 16 years. For meeting the requirement of millions people of Ankara, additional metro lines are currently under construction.

#### ABOUT AIR

AIR is a premier technology company distributing wireless products and solutions for an array of vertical markets. American International Radio is recognized as the Largest Motorola Distributor in EMEA. We are a System Integrator providing Professional Communication Solutions by developing software and hardware, customized Mobility & IT applications and solutions, and enhancing the functionality of standard products.

3601 E. Algonquin Rd., #800, Rolling Meadows, IL 60008 |

P: 847.818.9999 F: 847.818.9150 | [air@airradio.com](mailto:air@airradio.com) | [www.airradio.com](http://www.airradio.com)

#### BENEFICIARY INFO

CITY OF ANKARA

#### INDUSTRY

TRANSPORTATION

#### LOCATION

TURKEY

#### LOCAL PARTNER

AIR TURKEY