

# 10<sup>th</sup> All China Games – Nanjing Olympic Centre

First digital trunking systems in a Sports Centre in China



Motorola's Compact TETRA system provides a cost effective, technologically advanced, reliable communications solution that is easy to use and maintain.

## BACKGROUND

The coordination of large-scale sporting events is a complex effort that requires seamless coordination of various departments and personnel involved in the entire operations. One of the most critical components in achieving effective operational coordination is a communications system that is reliable yet flexible.

Whilst preparation is underway to prepare China for the Olympic Games in Beijing, the city of Nanjing has built a Nanjing Olympic Centre in Nanjing New-City District, to host the 10<sup>th</sup> All China Games in October 2004. The new Olympic Centre houses a main facility with 80,000 seats, a gymnasium, swimming pools and tennis courts.

Valued at approximately US\$300,000, this project is China's first TETRA-based communication system deployed for a national sporting event.

## CUSTOMER NEEDS

The ability to have control and be in constant communication was of paramount importance in coordinating such large scale national events. Nanjing Olympics required a communications system that would ensure faultless voice transmissions in individual, group or emergency call for its network of more than 10,000 users,

including officers and personnel from local public safety organisations such as the police, fire brigade, ambulance services.

More critically, the Centre needed a reliable system to be fully operational giving the users secure communications over wide area coverage before the 10<sup>th</sup> All China Game commence in October 2004

Among the stringent requirements for the system were:

- High voice quality
- Ease of operation
- Efficient, instant and reliable communication across the network
- Reliable and robust portable terminals

# BENEFITS

Motorola's Compact TETRA system provides a cost effective, technologically advanced, reliable communications solution that is easy to use and maintain.

It will offer users at the Nanjing Olympic Centre benefits in performance, ease of operation, reliability and safety for efficient operational communications.

- Clear voice quality ensures that the message gets through even in noisy environments of sporting events
- High operational efficiency with seamless communication among staff
- Reliability of system means reduced maintenance and repair costs
- Scalable infrastructure design to meet future new requirements



## MOTOROLA SOLUTION

Contracted through prime contractor, Tsinghua Unisplendor Corporation Limited, Motorola was responsible for the system design, planning, programming, implementation, and maintenance of the entire system. This included the installation of three fixed base stations, more than 200 units of MTH500 portable radios and corresponding control and switching centres.

One of the challenging was keeping to the tight timeline. Both the Centre's wireless operations team and the project team from Motorola had to ensure that the Centre's existing wireless communication system is seamlessly integrated with Motorola's Compact TETRA digital communication system on a single platform.

Once completion, this system would also be China's first digital trunked radio communications solution and the Complex wanted to ensure that their investment was future-proofed – making room for future national games.

"The deployment of Motorola's TETRA systems for the Nanjing Olympic Centre sets another new benchmark in China to address and deliver highly secure, safe and reliable wireless communications not only for mission-critical users but also for operation-critical environments," said Chew Guan

Sing, general manager for North Asia, Motorola's Government & Enterprise Mobility Solutions business.



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