



Motorola Powers Singapore Grand Prix with TETRA



Singapore Grand Prix Command Center



SGP F1 Crew seen using Motorola TETRA Radios

The prestigious F1 race calls for nothing less than an efficient and secure communication system to ensure the success of the event. As the first night motor race in Singapore, the organizers could afford no mistakes. Motorola was contracted by Valerio Maioli S.p.a to provide the TETRA (TERrestrial Trunked RADIO) system to support the communications needs of the maiden event.

Gearing for success

Race coordinators, pit stop crew, safety professionals and even the drivers all needed to be able to communicate promptly and effortlessly with each other. A scalable network that could be tailored to the needs of the event was essential.

“The dynamism and speed of a Formula One race calls for an equally dynamic and robust communications solution. As the inaugural night race for F1 that is taking place in the heart of Singapore, a seamless wireless communications is crucial for the efficient running and safety of the race,” said Phey Teck Moh, vice president and general manager, Government & Public Safety, Motorola Asia Pacific.

Track record in supporting large scale events

Motorola’s TETRA system was selected by the organizers as the most appropriate technology for all communication needs due to its history in providing highly scalable and fail-safe solutions, such as the 2002 World Football Championship in Japan and Korea.

The TETRA system was also approved by the FIA Safety Commission for communications during the races – in fact, the TETRA system was allowed by the Commission instead of a wired intercom connection between the marshals’ posts. It is also the first 410MHz band TETRA system approved by Singapore IDA to be used for the F1 Grand Prix.

“Communications form the backbone of many motor racing events, not only for efficient race coordination and management, but also to ensure the safety and security of the entire event. Therefore, a resilient communications network with fast and reliable call set-up is important, as well as the availability of full service support and back up. We are glad to partner with Motorola to support the communication needs of this first night race because of their track record in providing highly scalable and fail-safe solutions,” said Mr. Valerio Maioli, CEO of Valerio Maioli S.p.a who contracted Motorola on behalf of the organizers.

Customer Profile

Company
Singapore Grand Prix

Industry Name
Event – Motoracing

Technology Partners
Valerio Maioli S.p.a &
Saitel Telecomunicazioni

Partners’ role
Italian-based Valerio Maioli SpA specialises in the engineering of lighting and telecommunication systems and brings 40 years of experience to the Formula One project. Valerio Maioli SpA were to design and construct the necessary lighting system to illuminate the event and to provide telecommunication solutions. Saitel Telecomunicazioni specializes in re-guarding private mobile radio networks and has a solid sales and distribution capacity, making it a partner and a Motorola Authorized Distributor for Italian telecommunication market.

Product Name
• Motorola Dimetra IP system
• MTP850 TETRA portable

Benefits
• Secure communication
• Compact, portable and easy to setup
• Scalable to support complex event needs

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Valerio Maioli, CEO of Valerio Maioli S.p.a

Summary

The prestigious F1 race calls for nothing less than an efficient and secure communication system to ensure the success of the event. As the first night motor race in Singapore, Motorola was contracted to provide the TETRA (TErrestrial Trunked RAdio) system to support the communications needs of the inaugural event.



Antenna installation on a light tower

Partnership in the works

The contract between Valerio Maioli and the Singapore GP was awarded in February 2008, for 3 years of service plus 3 years as an option.

In a complex distributor-supplier network, Motorola's customer, Saitel, bought the TETRA system and subscribers from Motorola which was sold to Valerio Maioli, in turn contracting with the GP organizers.

Saitel and Valerio Maioli technicians installed the system together in Singapore, which has been operational since August 2008 to support the preparation the event. One of the biggest hurdles in set-up is to install the light towers to illuminate the track which are removed at the end of the event annually.

Examining what's under the bonnet

TETRA's one-to-many robust network, based on the Scalable Dimetra IP solution, provided always-on mobile voice and data channels allowing race crew, coordinators and drivers to communicate seamlessly from the Pit Building to the street circuit.

This set up required two base stations, several MTM800E mobile stations, portable units and 450 TETRA MTP850 radios rented from Motorola.

Motorola's Scalable Dimetra IP base station is an enhanced IP-based TETRA solution that integrates voice, messages, mobile applications and image transmission on a single network.

In addition, as long as internet connection is available, service personnel are able to access the backup components in the system via a Virtual Private Network connection anywhere. This gives assurance of instantaneously available and secure backup support.

As it can be housed in a single rack, it is not only portable and compact, but also scalable and highly deployable; hence meeting the flexible and robust communication demands of the race.

The MTP850 is a rugged TETRA radio that comes complete with an enhanced user interface, cellular style navigation, end-to-end encryption, integrated GPS and multi-Asian languages support, such as Chinese and Korean. In addition, it also allows users to take advantage of applications such as WAP and Multi Slot Packet Data, and locate resources using GPS location services.

The MTM800E is a TETRA mobile terminal that has been designed to operate in environments where communication and timing are vital. It has been fitted with special audio filters that allow for clear quality even in noisy environments. It is also certified with extremely rigorous Accelerated Life Testing which guarantees reliability, durability and extreme robustness.



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