



SAFE SAILING WITH MOTOTRBO™

MOTOTRBO™ KEEPS COMPETITORS SAFE AT THE ISAF WORLD SAILING CHAMPIONSHIP



SANTANDER 2014 ISAF SAILING WORLD CHAMPIONSHIPS

The Sailing World Championships are the most important regatta organised by the International Sailing Federation (ISAF). Held every four years, the 2014 event was hosted in Santander, Spain, and brought together all Olympic sailing classes in a single competition. The lure of Olympic qualification for Rio 2016 attracted over 1,400 crew, more than 1,000 boats from 80 nations and thousands of spectators.

The ISAF team required a two-way radio system to efficiently coordinate races and safely manage the event. Working with Radiotrans and Gateco, ISAF looked for a radio system that could provide voice and data services and cope with the demanding meteorological conditions, including knocks and drops, high temperatures and sea spray. After reviewing available technologies it decided to install Motorola Solutions' MOTOTRBO digital two-way radio system. The robust radios – with built-in noise cancellation technology – provided crystal clear voice calls across 15 talkgroups with voice services also available to officials' boats across an area of 90km². In addition, the system provided reliable data communications to support race-specific applications including voice recording and GPS location. The instant and reliable communications helped the organising team respond immediately to any issues and ensure the safe running of this prestigious international event.

CUSTOMER PROFILE

Organisation:
Santander 2014 ISAF Sailing
World Championships

Location:
Spain

Industry:
Professional sport

Partners:

- Distribution: Radiotrans, S.A.
- Reseller: Gabinete de Telecomunicaciones (Gateco)

Partner solutions:
SmartPTT with GPS positioning,
dispatcher communications
and recording

Motorola Solutions Products:

- 120 DP4400 portable two-way radios
- 20 DP4401 portable two-way radios
- 6 DM4400 portable two-way radios
- 3 DR 3000 repeaters
- Submersible remote speaker microphones

Applications:
Reliable voice communications
with 15 talkgroups

'The 2014 Santander ISAF World Sailing Championships attracted hundreds of yachts and thousands of competitors, team members, organisers and spectators. Instant two-way radio communications were essential to help us efficiently coordinate the event, but conditions were demanding: coverage had to extend across 90km² of sea, we needed to support a large number of talkgroups and the system had to cope with all weathers. Working with our two-way radio partner Radiotrans and its reseller Gateco in the Cantabria region, we found what we needed in the MOTOTRBO digital two-way radio system. We were delighted with the quality of voice calls, the versatility of the system and its rock-solid reliability.'

José Ángel Rodríguez Santos, president of the Organising Committee, Director of Santander 2014 ISAF Sailing World Championships and President of RFEV, the national governing body for sailing in Spain



THE CHALLENGE

ISAF wanted to deploy two-way radio to provide its team at the Sailing World Championships with instant voice and data communications. However, the environment was challenging: radio coverage was required to support officials' boats out at sea; there was a high level of background noise; and high temperatures and sea spray were ever present. In addition, ISAF wanted to record voice traffic and locate boats using GPS.

THE SOLUTION

Working closely with Radiotrans and Gateco, the ISAF team selected a MOTOTRBO digital two-way radio system. There were several reasons for this.

One of the most important was the availability of the MOTOTRBO Capacity Plus system. The single-site digital trunking solution expands the capacity of MOTOTRBO. Up to 1,200 radio users can quickly and efficiently share business-critical voice and data communication on the same system without adding new frequencies. Furthermore, the ISAF team was impressed with the SmartPTT enhanced control room solution. This software application provided a range of features to help dispatchers manage races at sea and support teams on the ground. The features included GPS to track boats, text messaging and voice recording to monitor race communications between officials' boats.

Another key consideration for ISAF was guaranteeing radio service across the race area. This was assured by the installation of three DR 3000 repeaters to provide increased capacity and spectrum efficiency. The system enabled ISAF to create 15 talkgroups. Seven were set aside for competition areas and the remainder for support functions.

In addition the availability of a range of radios designed to cope with the demanding port environment appealed to ISAF. It selected 120 MOTOTRBO DP4400 digital two-way radios for regatta organisers and 20 MOTOTRBO DP4401 – with GPS – for officials' boats. Both radios offer a rugged and waterproof construction with an IP57 rating. The radios also include noise reduction technology to provide exceptional quality audio against the often windy and noisy backdrop.

THE BENEFITS

The system comfortably met the coverage and capacity requirements with voice and data calls instantly connected across the 90km². And the enhanced control services enabled the dispatch team to easily coordinate support teams including security, logistics and maintenance personnel.

By using SmartPTT, the race organisers could enhance the management and safety of boat crews. A combination of text messaging, voice recording and GPS tracking – using the DP4401s to track the position of the officials' boats in real-time across eight sailing zones – helped the race organisers communicate effectively and protect their personnel as well as competing yachts.

Throughout the event voice calls were connected instantly and with exceptional clarity ensuring that the organising team and support staff could hear one another against the raucous background. Indeed, the availability of immediate voice and data services to the ISAF teams helped ensure the efficient management of the event, which passed off smoothly and without incident.

Key Benefits:

- **Immediate communications:** With reliable voice and data communications on one system
- **Exceptional audio:** Loud, clear audio in noisy, challenging environment
- **Extended coverage:** Across 90km² of sea
- **Enhanced control:** Dispatch services include GPS, text messaging and voice recording



For more information on how MOTOTRBO can improve the efficiency, security and safety of your event please visit us on the web at www.motorolasolutions.com/mototrbo or find your closest Motorola representative or authorised Partner at www.motorolasolutions.com/contactus

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