



MOTOTRBO™ CAPACITY PLUS WITH DISTRIBUTED ANTENNA SYSTEM AND VESSELWATCH: FLAGSHIP SOLUTION FOR LATEST SANLORENZO SUPERYACHT

FOR RELIABLE CRYSTAL-CLEAR COMMUNICATIONS ON BOARD AND BEYOND, OPTIMISED GUEST SERVICE, INTELLIGENT ASSET TRACKING AND ADVANCED ALARM MONITORING



SUPERYACHT ATTLA

The 64-metre Attila steel motor yacht was built in 2019 by Sanlorenzo in Italy at its La Spezia shipyard. Attila is Sanlorenzo's biggest yacht to date, weighing in at 1,600 gross tonnes and offering a top speed of 17.0 knots. Attila features an exterior design by Mauro Micheli and her interior has been designed by Francesco Paszkowski to comfortably accommodate up to twelve guests overnight in six cabins, including a master suite and a VIP stateroom. She offers facilities such as a beach club, gym, hydraulic swim platform, massage room, sauna, helipad, jacuzzi and wine cellar. She can carry up to 17 crew members on board to ensure a relaxed luxury yacht experience.

NavCom Team was selected as the owner's representative and build surveyors, to create the project specification and to supply part of the navigation, communication and entertainment technology on board Attila. Headquartered in MB92 Shipyard in Barcelona, NavCom Team is a well-established Spanish company in the international maritime sector and was founded by a team of electronics and maritime communication systems engineers with more than 20 years' experience in the industry.

CUSTOMER PROFILE

Organisation:
Attila Superyacht

Partners:

- NavCom Team S.L.
- GlobalView Systems Ltd
- RadioTrade Ltd

Industry:
Maritime



The owner of the first Sanlorenzo 64-metre Attila Superyacht comments on his relationship with NavCom Team: "I value long-term friendships and trust, in both my private life and business. I've known Jaime Sánchez for many years now and, as he was involved in the build of my previous yacht, I knew NavCom Team would help me to build a beautiful boat with the desired technology, to be one of the most advanced, modern superyachts on the market."

NavCom Team, in turn, worked together with GlobalView Systems to supply the customer-focused, capability enhancing radio software and hardware supplied by Motorola Solutions Distributor RadioTrade. GlobalView has been a partner to NavCom Team for three years and is a Motorola Solutions Application Developer, with over 20 years' experience working with Motorola Solutions.

NavCom Team has deployed a MOTOTRBO™ Capacity Plus trunked radio system with a distributed antenna system on board for high performance, efficient, crystal-clear communications for the crew across the vessel. The system is supported by a set of powerful management tools for easy control. Moreover, the VesselWatch intelligent software, which has been designed specifically for the luxury marine market, delivers features such as asset tracking, alarm monitoring and guest services to the radios; this keeps guests and crews safe, helps crews to work efficiently, and enables them to respond quickly and effectively to guests' requests, for an excellent on-board experience.

Motorola Solutions Products:

- MOTOTRBO™ Capacity Plus with Distributed Antenna System (DAS) comprising:
- 1 x MOTOTRBO SLR 5500 Repeater
- Motorola Solutions NAI (Network Application Interface) for data licence key
- 17 x MOTOTRBO SL4000e Smart Two-Way Radios
- 2 x MOTOTRBO DP4801e Digital Two-Way Radios
- MOTOTRBO Over the Air Programming Software Application (OTAP)

“With over 20 years’ experience in the maritime industry, the last 15 as a GMDSS and Technology Certified Surveyor for superyachts, I started working with Attila’s owner 15 years ago on his previous yachts, including the 46-metre Achilles, which had been equipped with a Motorola Solutions system. When I was commissioned to supply the project specification and systems for his new yacht, quality standards and on-board safety were, once again, key requirements and Motorola Solutions was, the obvious choice. I have personally used the MOTOTRBO and VesselWatch solution in earlier projects and I know that the combination ensures an optimal guest service and safety. The system is simple to install and operate and has become an integral part of the technology on the superyachts we equip. We have had excellent feedback and now always recommend MOTOTRBO and VesselWatch to new owners.”

Jaime Sánchez, Director, NavCom Team



CHALLENGE

The owners of Attila wanted the latest, customised, optimum radio technology and uninterrupted, strong coverage throughout the superyacht. NavCom Team set about the task, also looking to fully harness the capabilities of the MOTOTRBO radio system beyond communications, by deploying a range of easy-to-manage, superyacht-specific applications.

SOLUTION

NavCom Team first designed and implemented a UHF DAS, comprising 14 indoor antennas, a combiner, filters and dual external UHF antennas to secure full coverage throughout the yacht and 5 nautical mile coverage outside the yacht, for use during tender operations, for example.

Working in close collaboration, NavCom Team and GlobalView then spent a few days on board Attila, installing, surveying, programming and testing the MOTOTRBO radios and Capacity Plus system; this system was chosen as it gave the crew the most flexibility and ensured that a crew member received

any alarms and calls, even if they were not on their standard operation channel. The partners ensured a strong signal is received in all areas of the vessel and tested all possible emergency scenarios. They also installed an NAI data licence key, which ensures that data being sent to the radios from VesselWatch is sent across all timeslots in the system, without the need for additional control radios. Indeed, although a software developer, GlobalView’s engineers have in-depth knowledge of Motorola Solutions radios and infrastructure. GlobalView also installed the latest version of the Motorola Solutions programming and OTAP software, which allows NavCom Team and GlobalView to remotely manage, support, update and secure Attila’s radio fleet. NavCom Team and GlobalView trained the crew on radio usage and the VesselWatch software, as well as providing infrastructure training to the on-board engineers, who will be responsible for the ongoing operation of the system.

All crew members have a Motorola Solutions radio. The radios are IP54 rated, so they are protected from

Further Applications / Services:

- GlobalView VesselWatch Software (Hospitality, Tracking and Alarm modules integrated into the radios)
- Dedicated Service PC for remote diagnostics and support
- Full maintenance contract with NavCom Team for all on-board communication, navigation and entertainment systems

Usage:

- Voice and data communications, including group calls, private calls and messaging on board and beyond
- Emergency Panic Button
- Guest service requests
- Intelligent tracking of assets, crew and guests
- Advanced alarm monitoring



CASE STUDY
ATTILA SUPERYACHT



water spray from any direction, with a few IP67 waterproof radios installed on the yacht tenders. Four talk groups were set up: a deck group, an interior group, an engineering group and an all-users group. Relevant individuals or groups receive calls or messages, with a three-stage escalation plan with the option of emails and SMS in the case of alarms not being acknowledged. VesselWatch integrates with Attila's fire alarm systems, engine alarms, IT alarms and security intrusion alarms, and sends notifications to the correct individual by picking keywords out of an alarm string. Service requests, meanwhile, integrate with the yacht's tablets and smart devices running Crestron Virtual Control and Crew Call systems, which allow guests to remotely change the lighting, start a movie or close their curtains, for example; guests can push a crew call button on these devices, which sends a request directly to the radio of the most suitable crew member for the swiftest reply. The VesselWatch Hospitality module also generates a notification when a request has been handled, improving efficiency and ending duplicate service response. The VesselWatch Tracking module is used for discrete tracking of individuals and assets, as well as geofencing, to ensure safety and security. Intelligent alerts inform crew radios when people, assets, vehicles or tenders go beyond the individual designated perimeters or safe zones.

RESULTS

Chris Davies, Technical Solutions Manager at GlobalView, summarises why he likes working with Motorola Solutions: "Over the past 20 years in the radio industry, I have found Motorola radios to be the most durable radios in all environments. Within this particular vertical, end-users are looking for the most feature-rich radios available; this is why the Motorola Solutions DP4801e and SL4000e Series were chosen by this vessel. And with the addition of VesselWatch, this allows the crew to deliver both a safe environment and an excellent service to their guests. Radios are beyond PTT nowadays, and adding a software solution like VesselWatch allows the crew to achieve the most from their investment in a radio system." Indeed, the solution is the differentiator that delivers the 7-star experience which superyacht owners and guests have come to expect.



Benefits:

- The solution is quick to install and easy to operate and maintain
- Full coverage in every compartment across the yacht and up to 5 nautical miles from the yacht, tested to fire or emergency situation standards, when doors are locked down and communications are critical
- Reliable, secure communications are crucial for optimal operational performance; crews can communicate on secure, private channels whilst at sea and in port or during tender operations
- Robust IP54 and IP67 rated radios suitable for the marine environment
- Bespoke yacht software VesselWatch integrates with Crestron Crew Call expanding the capabilities of the radio system to include enhanced guest service and experience and alarm integration for increased on-board safety