Vessel Traffic Management System

In the naval and maritime domain SELEX Sistemi Integrati has developed an integrated network of the Vessel Traffic Management System (VTMS) to provide advanced solutions for the control and management of safe vessel traffic, maritime environment monitoring, sea Search & Rescue (SAR) operations support.

The system architecture is based on multiple control layers, identified as: Local, Area and Central, interacting at different operational levels. Each level supports the operational coordination and decision, according to its mission. In this kind of architecture the local stations directly collect data from the sensor sites and interact with maritime traffic.

The VTMS by SELEX Sistemi Integrati are available in fixed, transportable and mobile versions and are able to guarantee the coverage and management of wide geographical areas such as the Mediterranean basin, which represents the widest application of this system.

In fact, in Italy, with the Cost Guard contribution, SELEX Sistemi Integrati has realised the Italian Nation-wide VTMS system. The network is a significant example in the application of integrated computing, telecommunication and networking technologies, resulting into one among the largest Vessel Traffic Management Systems in the world. It is also an example of Network-Centric Integration of maritime, operational, safety and security services, guaranteeing a full, real time coverage of 7,500 kilometres along the Italian coast, thanks to a National Centre which is operational within the General Command of the Coast Guard in Rome, 14 Area Centres allocated within the same number of Maritime Directions which receive information from 82 local sites, 100 sensors sites and three mobile units.

The previous years’ supplies include VTS sold to China, to Saint Petersburg, to Poland and to Yemen. The system was recently acquired also by Turkey.

The commercial success, together with a wide commercial expansion witness SELEX Sistemi Integrati’s excellence for the design and realisation of systems for security management and control.