Navantia

INTEGRATED INTERNAL AND EXTERNAL COMMUNICATIONS SYSTEM (NAVCOMS)

EXPERIENCE

1ST GENERATION

AIRCRAFT CARRIER

AIRCRAFT CARRIER

MINEHUNTER

LPD

LPD

2ND GENERATION

FRIGATE

AOR

SUBMARINE

DESTROYER

LHD

AOR

CORVETTE

3RD GENERATION

SAIL TRAINING SHIP

OPV

OPV

OPV

CORVETTE

Since 1992, NAVANTIA is the Communications System Integrator of all of the warships built by NAVANTIA for the Spanish Navy and for other navies.

NAVCOMS has evolved adapting to new state-of-the-art technologies, starting with analogue, then TDM, and now digital IP-based systems.

There are more than 30 NAVCOMS installed throughout the world in a wide variety of warships with different roles.

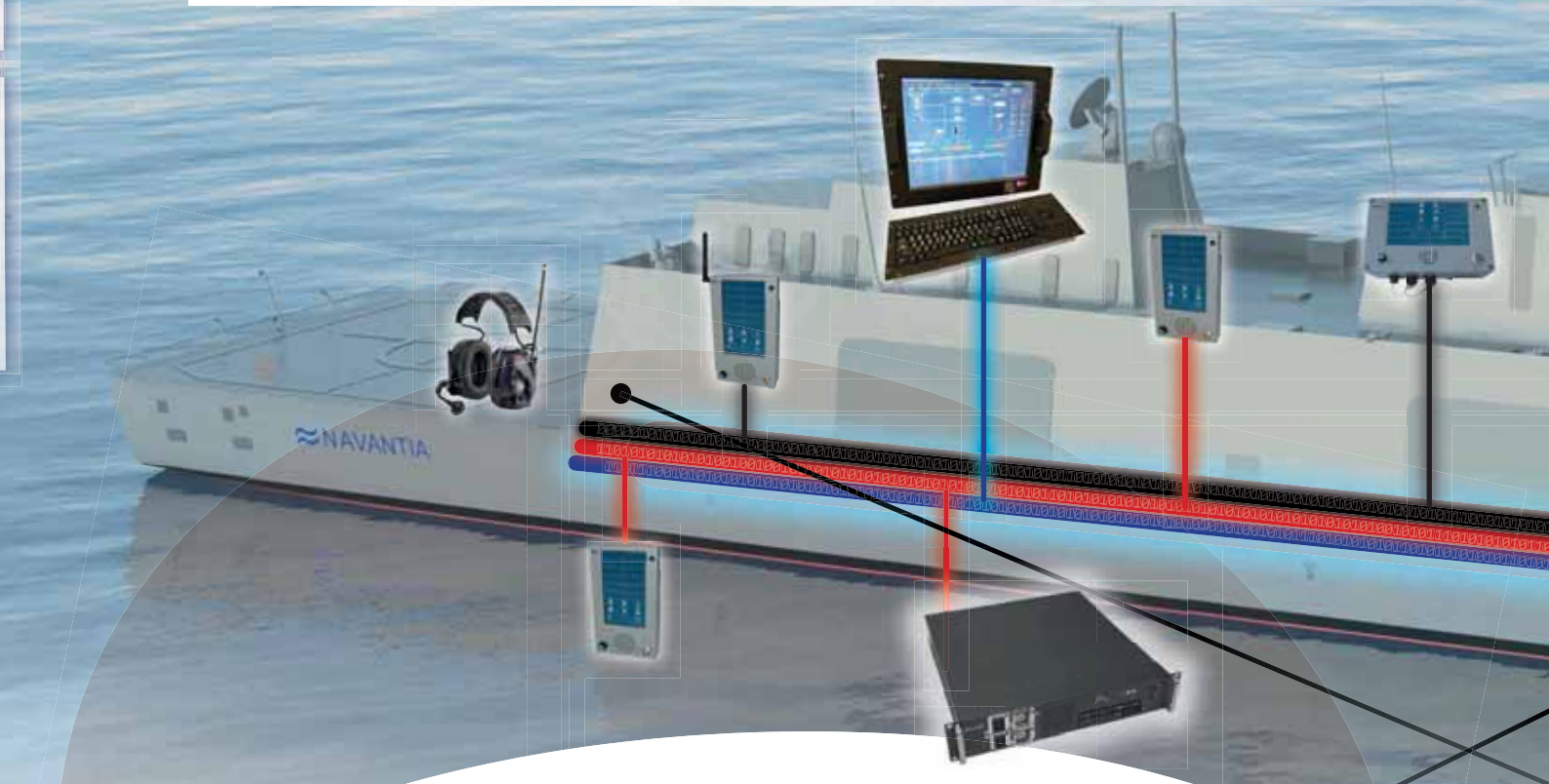
NAVANTIA provides NAVCOMS as a turn-key solution, designed and tested specifically for each client, covering all the product development stages.

NAVANTIA's HERMESYS Integrated Communications Control System is the result of years of experience integrating communications systems and continuous development through Research and Development.

NAVCOMS

NAVANTIA's Integrated Communications System

NAVCOMS meets all the needs of a warship's communications. Taking into account that communications equipment comes from various different suppliers, NAVCOMS allows the integration of all types of solutions adapting to the client's specific requirements.
The NAVCOMS architecture ensures a continuous interchange of information between the ship's tactical information positions (Internal Communications) and other naval units, aircraft, command and control centres and land stations (External Communications).
The NAVCOMS design is personalised for each client, ensure the best optimization in accordance with the ship's roles and the client's needs.
NAVANTIA's HERMESYS Integrated Communications Control System integrates all the NAVCOMS elements, which is the neurological centre of NAVCOMS, making system operation, supervision and management easy.



Integrated Communications Control System

Encrypted
Protected
Secure
Red-Black Separation
IP Tecnology
VoIP
Ethernet
VPN
Remote Control
Distributed
Integrated
Real Time
Reliable
Redundancy
24/7

External Communications

VLF HF Wideband EHF
Radio UHF Satellite
WiFi SHF Ka Ku
VHF MF Narrowband
GMDSS Link 4G/LTE Tactical
Telemedicine VTC
BFEM Shore Connection
MHS

Information Protection

Integrates military cryptos and maintains red-black communications separation. An encryption layer can be included to increase the security of the entire network.

CIFRADOR

Internal Communications

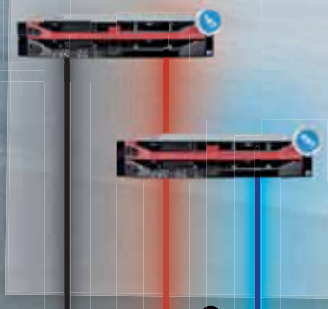
Broadcast & Alarm
Public Address
Automatic Telephony
4G/LTE
Sound Powered Phones
TETRA
Flight Deck
TV
Entertainment
Multiservice
Classified
Network Infrastructure
Radio
Administrative
WiFi

HERMESYS

Integrated Communications Control System

The **Control and Maintenance Terminal** permit authorised users configure, manage and supervise the entire Communications System from their user station.

The **Gateways** permit the connection with digital channels, serial channels, audio + PTT, remote control, cryptos and modems."



Secure Communications Network

Secure Separation Devices separate the information according to its security classification. **Perimeter Separation Devices** protect the communications network from possible external intrusions and hackers.

Tactical Communication Terminal

- Access to the External Communications, in clear or encrypted communications.
- Access to the Internal Communications.
- Centralized permissions and access management.
- Touch screen adjustable to day/night light conditions.
- Two sizes available, with vertical/horizontal display.
- Adaptable for internal or external use, and noisy and saturated conditions.

ABOUT NAVANTIA

Navantia is a Spanish Government Owned Company and is an Industrial Group with the following Business Lines:

- Naval shipbuilding and design.
- Systems.
- Ship repairs and conversions.
- Diesel engines, gearboxes and power generation.
- Through Life Support.
- Transfer of Technology solutions
- Offshore merchants and wind energy

Command and Control systems
Integrated Platform Management Systems
Surveillance systems
Gun Fire Control Systems
Naval guns
Communications systems
Navigation systems
Simulators and training

More than 20 countries...

...with offices worldwide

Navantia

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