HNLMS Zeeland

HNLMS Groningen

HNLMS Holland

HNLMS Friesland

HNLMS Karel Doorman

Specialist in wireless communication and track & trace onboard of Naval ships

For more than 20 years, The IP Company has been a leading software development company focused on developing secure wireless communication and messaging software (WCMS) for naval vessels, military compounds and military airports. Our innovative WCMS software ensures reliable communication via voice, video and messages between crew members and soldiers. We install our software within the integrated military network as a service on a vm server, to which regular IP telephones and wireless handhelds that work with WiFi, Tetra or Private LTE are connected. Our latest development is that we can now also track the person with an accuracy of 50 centimeters.

WCMS

All major ship components are equipped with a sensor that sends autonomous status information to the platform management and combat and other systems on board. The WCMS ensures that messages and calls are automatically routed to the correct crew members mobile phone who is on duty using our workflow management software.

Learn more on www.theipcompany.nl

THEIPCOMPANY
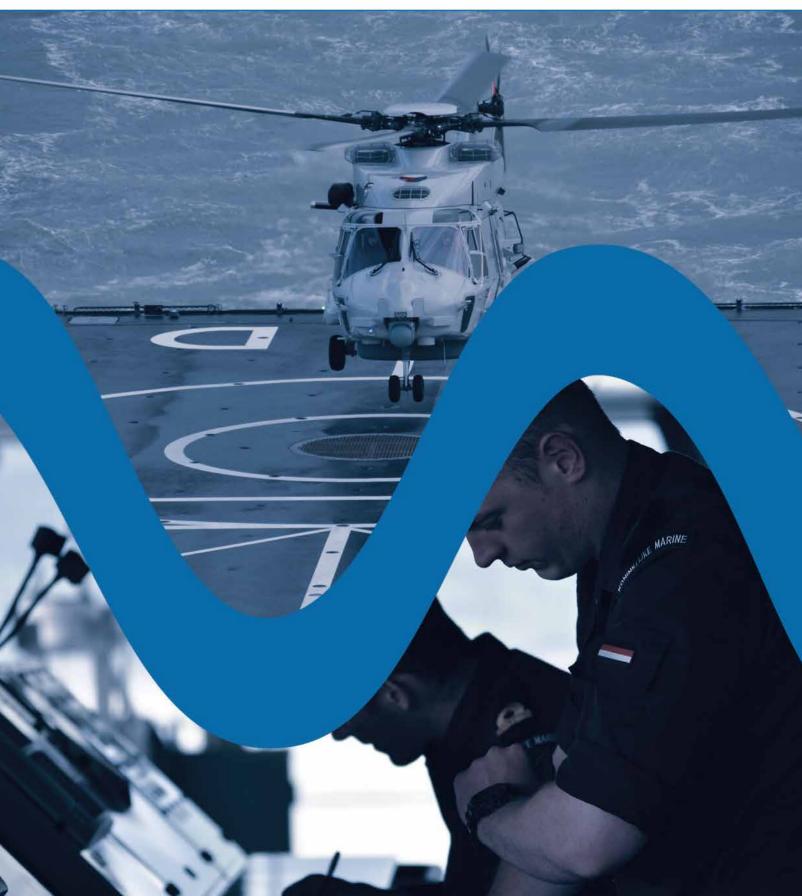WIRELESS SITUATIONAL AWARENESS

THEIPCOMPANY
WIRELESS SITUATIONAL AWARENESS

Trusted partner for onboard messeging, communication and localisation

Wireless; Secure; Efficient

The IP Company
The Netherlands
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Imagine...

there is a fire on board. Wouldn't it be efficient to have the correct crew members notified in an instant and automatically place them in a group call to effectively respond to the situation?

WCMS is communication software specially developed for the Naval sector. The core of WCMS is Wireless Situation Awareness. Sensors in machines and equipment generate messages, warnings or alarms. WCMS collects these messages, warnings and alarms and fully automatically hands out tasks, warnings and alarms to the correct crew member(s) on duty.

Why WCMS?

👤 Workload reduction

Messages are communicated directly with the responsible staff. Tasks and alarms no longer have to be distributed manually.

🛡 Safety

Crew members are instantly aware of important situations. A fire can cause damage to important equipment. Minimize damage by being aware of such situations in a split second.
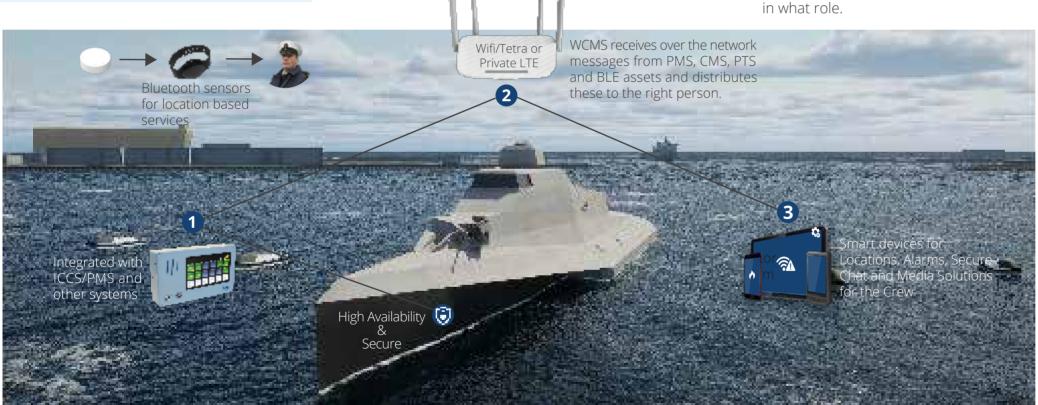
🖥 Interoperability

WCMS software can be integrated with other systems. WCMS is future-proof, as it is flexible and adaptable.

✏ Customisation

We deliver customised equipment such as secure mobile devices, mobile defense apps and customised Android operating software. WCMS is suitable for small and large ships, for all crew members or a sub-group.

📶 Wireless communication

Reach the correct crew members wherever they are. The system knows exactly who is on duty and in what role.

System Security

WCMS is a secure communication and track & trace system developed specifically for the naval sector. The core of WCMS is Wireless Situation Awareness. Messages and alarms from the Platform Management System, Combat Management System and other 3rd party Systems are automatically collected by WCMS and tasks, warnings and alarms are directly and fully automatically routed to the correct crew members on duty.

System integrity is a leading driver in the design of the next generation WCMS Platform. The "Integrity" is achieved by optimizing each layer and using an optimal mix of cost-effective and usable "Proven" technologies. The WCMS next generation is delivered on top of a Virtualized Fault Tolerant environment. This means a complete rack or room can fail without any disruption for the users.

Handheld/Device security
Various measures are in place to protect data. All messages are encrypted, and all devices are protected by a personal username and password. The devices are empty by default. Only when a user logs in, the information is downloaded to the device based on the crew members role & authorisation. When a user logs out all information is erased from the device. Unauthorised use outside the onboard network is impossible. When the device is disconnected from the marine network, it immediately erases all information.

Together with our specially designed Android system we make sure you have complete control over your wireless devices.

Wifi/Tetra or Private LTE

WCMS receives over the network messages from PMS, CMS, PTS and BLE assets and distributes these to the right person.

Bluetooth sensors for location based services

Integrated with ICCS/PMS and other systems

High Availability & Secure

Smart devices for Locations, Alarms, Secure Chat and Media Solutions for the Crew

WCMS products

💬 Voice communication

Facilitates internal and external secure voice, chat and video communication. Crew members can communicate in multiple conversations simultaneously.

⚠ Damage control messaging

Directly notifies crew members in case of emergencies. Alarms and warnings are sent to the correct crew members on duty via secure smartphones or tablets.

⚙ Predictive maintenance messaging

Know exactly when machines need maintenance. The system delivers task messages to the responsible crew members on duty.

📍 Personal tracking system

Locate crew members in case of emergencies. Be certain there are no crew members left behind when closing off a compartment for example.

THE IP COMPANY
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