



Safe communication on board for large vessels

An integrated solution by Bosch and Commend

Challenges

Safety is always a top priority onboard of any ship, and clear, reliable communication systems are an essential element of that equation. Especially on larger vessels, face-to-face communication is either not possible or ineffective. Older analog paging systems are often standalone solutions that are unable to offer the advantages of state-of-the-art IP-based systems. For example, announcements cannot be made to all zones of the ship, they cannot integrate with other communication systems, or they simply do not fit the aesthetics of modern vessels.

Market requirements

Modern announcement systems on large ships must ensure failsafe communications with the highest intelligibility. All announcements must be heard loud and clear in every part of the ship. The system should also be future-proof and offer the IP flexibility to integrate with other technologies, including intercoms or access control. For most mission-critical applications on large vessels, the highest reliability, easy handling, a high degree of automation and a DNV certification are indispensable.

In partnership with



Our solution: integration of PRAESENSA and Ognios by Commend

The PRAESENSA Public Address and Voice Alarm system from Bosch can integrate with Ognios by Commend intercoms. The result of this collaboration is the most powerful and flexible mission-critical communication solution for the maritime market, featuring the highest standards across every detail. It guarantees unparalleled reliability, speech intelligibility and efficiency onboard any vessel.

- ▶ PRAESENSA is an advanced, fully IP-based public address and voice alarm system. Designed with ease-of-use in mind, PRAESENSA offers straightforward installation and integration, delivering great audio quality with an easy-to-use interface. No single point of failure with built-in redundancy is core to the system concept. The combination of IP connectivity, peerless flexibility and a smart power concept all combine to offer an extremely cost-efficient, scalable solution which is equally suited to centralized and decentralized topologies.
- ▶ Commend develops and produces communication systems for maritime applications and is member of the TKH Group. Ognios by Commend is an IP-based intercom system designed and developed for the maritime market. Offering great flexibility, it can connect intercoms to and/or integrate other systems such as access control, public address and voice alarm systems. The flexibility in fitting several designs offers customers the option to fully integrate the intercom station (e.g., bridge integration) or have it designed to perfectly match with the interior (e.g., front plates in wood, steel, polycarbonate, carbon, etc.).

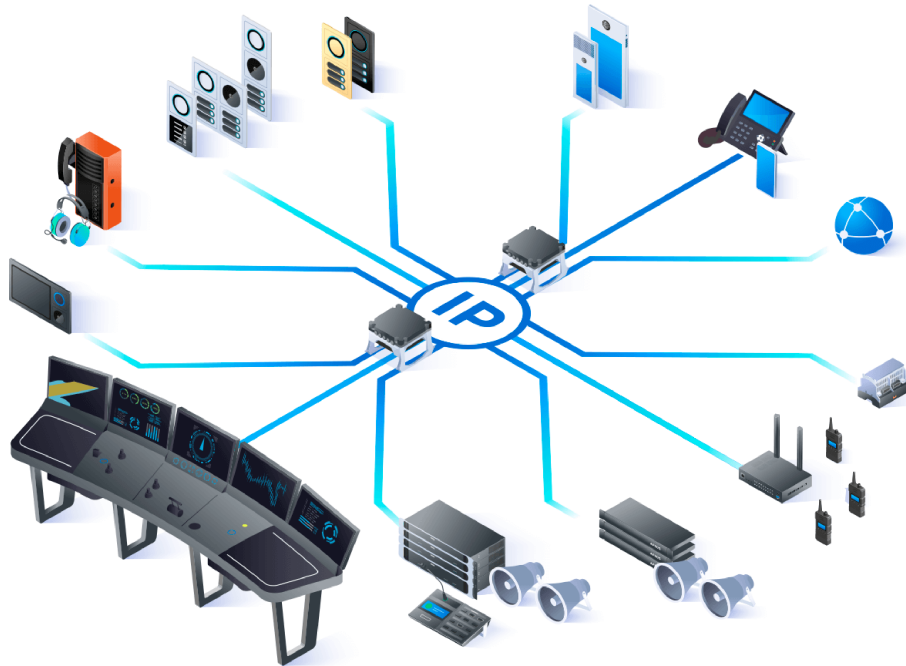
Benefits for the owner:

- ▶ Cost-efficient, energy-saving public address solution due to smart power concept
- ▶ Space- and weight-saving with PRAESENSA's compact amplifiers and system controller
- ▶ Fail-safe public address and voice evacuation solution with integrated redundancies
- ▶ Highest speech intelligibility based on interfacing with IP-based DANTE audio standard
- ▶ Seamless integration of Ognios modules into the bridge as intercom and PA Station



System Example: comprehensive maritime communication solution

PRAESENSA Public Address and Voice Alarm system from Bosch and Ognios by Commend are interfaced via AES 67 / DANTE audio streaming and control contacts.



Benefits for the system integrator/installer:

- ▶ Ognios and PRAESENSA are both incorporating IP technology which often allows using the existing network infrastructure, leading to time- and cost-efficient installations
- ▶ Both systems have the required DNV certifications
- ▶ Seamless integration of Ognios and PRAESENSA based on full compatibility with Dante audio
- ▶ Web-based controls and customizable user interfaces
- ▶ Unobtrusive integration of Ognios modules in the vessel architecture including bridge integration
- ▶ Ognios uses standard SIP features for easy, but secure audio connections and integration with other on-board systems

Benefits for the user/operator:

- ▶ Intuitive, user-friendly operation and comprehensive control options
- ▶ Loud and clear announcements in every part of the ship
- ▶ Possibility to make calls and announcements in parallel
- ▶ Flexible choice of communication points as Ognios works with SIP-clients like smartphones and telephones

Bosch Security and Safety Systems

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