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BOSCH

Reliable and effective communications on energy platforms

An integrated solution by Bosch and Commend

Challenges

Safety is always a top priority onboard and around any platform at sea, and clear, reliable communication systems are an essential element of that equation. For example, fishing boats often need to be addressed from the platform to ensure they keep a clear distance, reducing the risk of accidents. Onboard the platform, face-to-face communication is either ineffective or impossible due to wind and/or distance. The integration of different systems can provide a total communications solution for this challenging environment.

Market requirements

Modern announcement systems on platforms must ensure fail-safe communications with the highest intelligibility. All announcements and attention tones must be heard loudly and clearly across every part of the platform. The system should also be future-proof and offer the IP flexibility to integrate with other technologies, including intercoms, access control, radar systems, personal security information management and video systems. For most mission-critical applications on platforms, the highest reliability, easy handling, a high degree of automation and a DNV certification are indispensable. In addition, these systems should be sturdy, compact and lightweight.

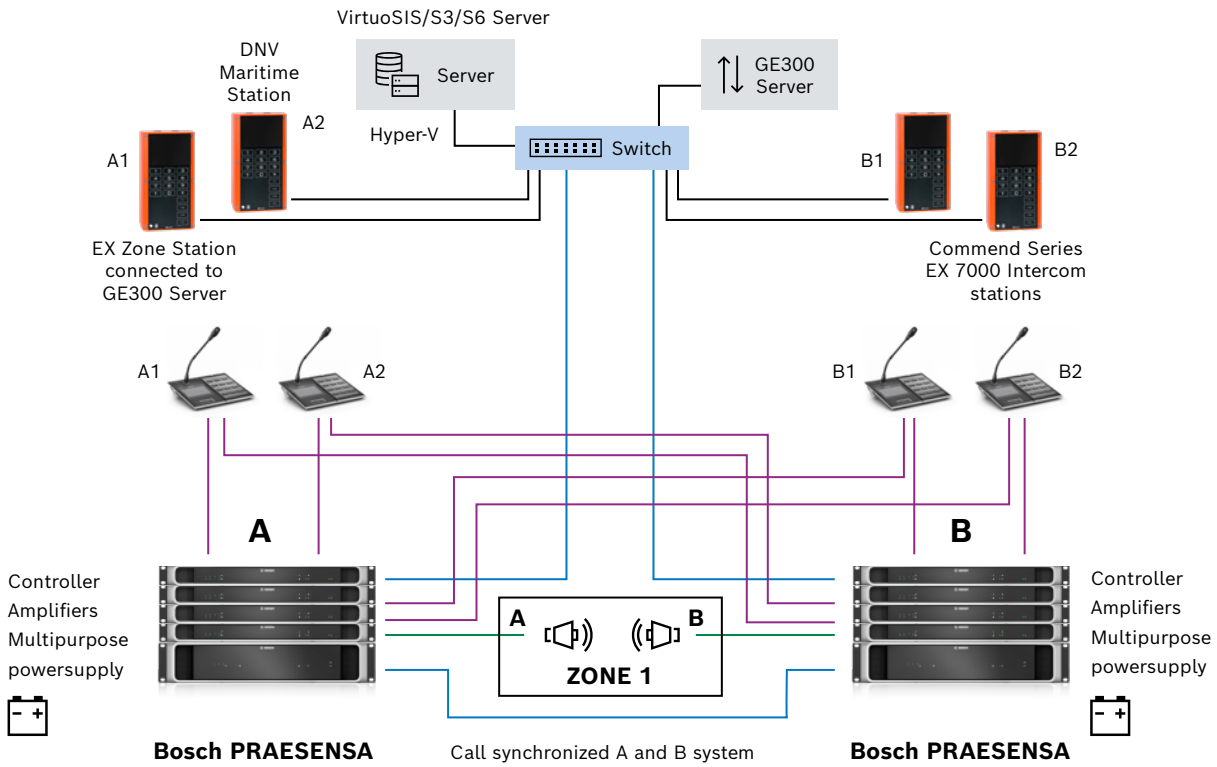
In partnership with commend

Our solution: Seamless integration of PAVA and Intercom systems for perfect platform communications

The PRAESENSA public address and voice alarm (PAVA) system from Bosch can be integrated with the explosion-proof Series EX 7000 Intercom stations by Commend. The result of this collaboration is the most powerful and flexible mission-critical communication solution for the energy market, featuring the highest standards across every detail. It guarantees unparalleled reliability, speech intelligibility and efficiency.

- 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 superior audio quality with an intuitive interface. The system is designed with built-in redundancy for no single point of failure. 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 industrial applications and is member of the TKH Group. Their explosion-proof Series EX 7000 Intercom stations are designed and developed for this market. Offering great flexibility, they can be easily integrated with other systems such as access control, public address and voice alarm. The EX 7000 Series stand out with exceptional audio quality and ease of operation. It comes with hands-free operation and loudspeaker/microphone monitoring. It is the ultimate choice for safety and communication in the most challenging environments.

System example of an energy platform communications solution offers no single point of failure



The PRAESENSA public address and voice alarm system and Series EX 7000 Intercom stations by Commend are interfaced via Session Initiation Protocol (SIP) which is related to Voice over IP (VoIP).

- Redundant system ring TCP-IP
- PRAESENSA system components, TCP-IP
- Commend system communication
- Loudspeaker lines 100V

Benefits for the owner:

- Smart power concept ensures cost effectiveness and energy efficiency
- Compact amplifiers and system controllers save space and weight
- Fail-safe solution with integrated redundancies
- Interfacing via VoIP
- Seamless integration of PAVA system and ruggedized outdoor explosion-proof Intercom stations
- Compliant to DNV
- Possible to integrate with other technologies like access control, radar systems, personal security information management and video systems

Benefits for the system integrator/installer:

- Bosch and Commend both utilize IP technology which often allows the use of standard network infrastructure, leading to time- and cost-efficient installations
- Both systems have the required DNV certifications
- Seamless integration of Series EX 7000 Intercom station and PRAESENSA based on SIP
- Web-based controls and customizable user interfaces
- Series EX 7000 Intercom stations are certified for hazardous environments (ATEX, IECEx, CCCEx) and offer top-tier explosion protection and durability
- Encased in IP66-rated, shockproof enclosures, the Series EX 7000 Intercom systems will defy extreme conditions

Benefits for the user/operator:

- Intuitive, user-friendly operation and comprehensive control options
- Loud and clear announcements across every part of the platform
- Capability to support calls, announcements and attention tones in parallel
- Flexible choice of communication points – Commend Intercom stations work with SIP clients such as smartphones and telephones
- With the Commend Communication Server you can connect and interact with many systems. Announcements can be triggered via the embedded interfaces to Radio (Tetra, DMR), SCADA and VMS systems

Bosch Security and Safety Systems

Visit **boschsecurity.com** for more information

For specifications and design tools visit
boschsecurity.com/consultants/pava/

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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 don’t 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

commend

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.

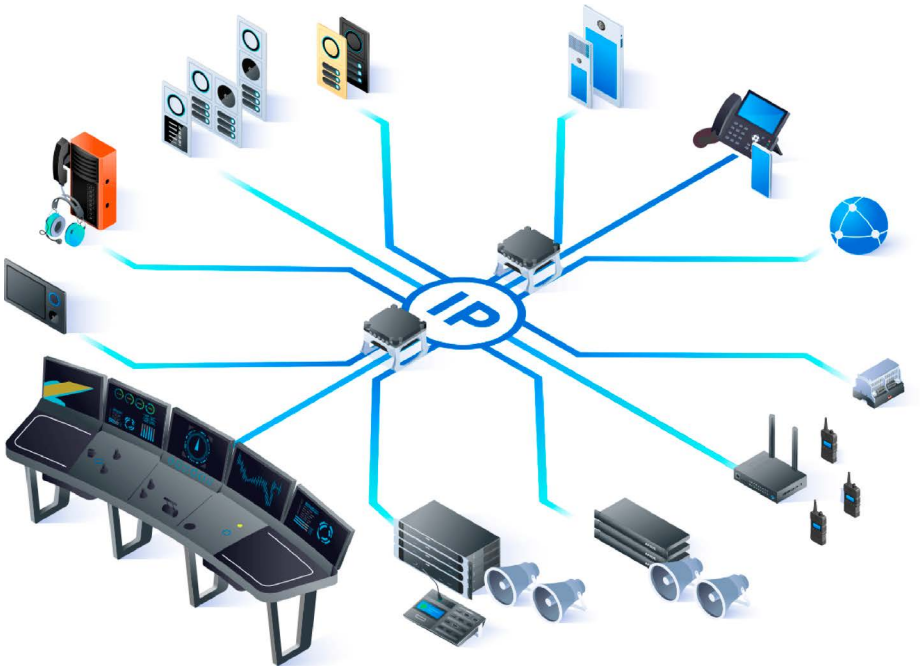
- Commend develops and produces communication systems for maritime applications and is member of the TKH Group. Ognios by Commend is an IP-based intercom system designed and developed for the maritime market. Offering great flexibility, it can connect intercoms to and/or integrate other systems such 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
- High speech intelligibility based on interfacing by SIP
- 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 SIP.



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 SIP
- 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

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Visit **boschsecurity.com** for more information.

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