



In partnership with



Reliable and effective communication on energy platforms

An integrated solution by Bosch and Commend

Challenges

Safety is always a top priority onboard of any platform at sea, and clear, reliable communication systems are an essential element of that equation. For instance fishing boats should be addressed to keep a clear distance to reduce the risk of an accident at rough sea. At platforms face-to-face communication is either not possible or ineffective due to wind and distances. Integration of different systems is key here to bring the right total solution.

Market requirements

Modern announcement systems on platforms must ensure failsafe communications with the highest intelligibility. All announcements and attention tones must be heard loud and clear at 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 and video systems. For most mission-critical applications on platforms, the highest reliability, easy handling, a high degree of automation, redundancy, monitoring facilities and a DNV certification or ATEX certification are indispensable. Besides this these systems should be sturdy, compact and light-weight.

Our solution

Seamless Integration of PAGA and Intercom Systems for the perfect platform communications

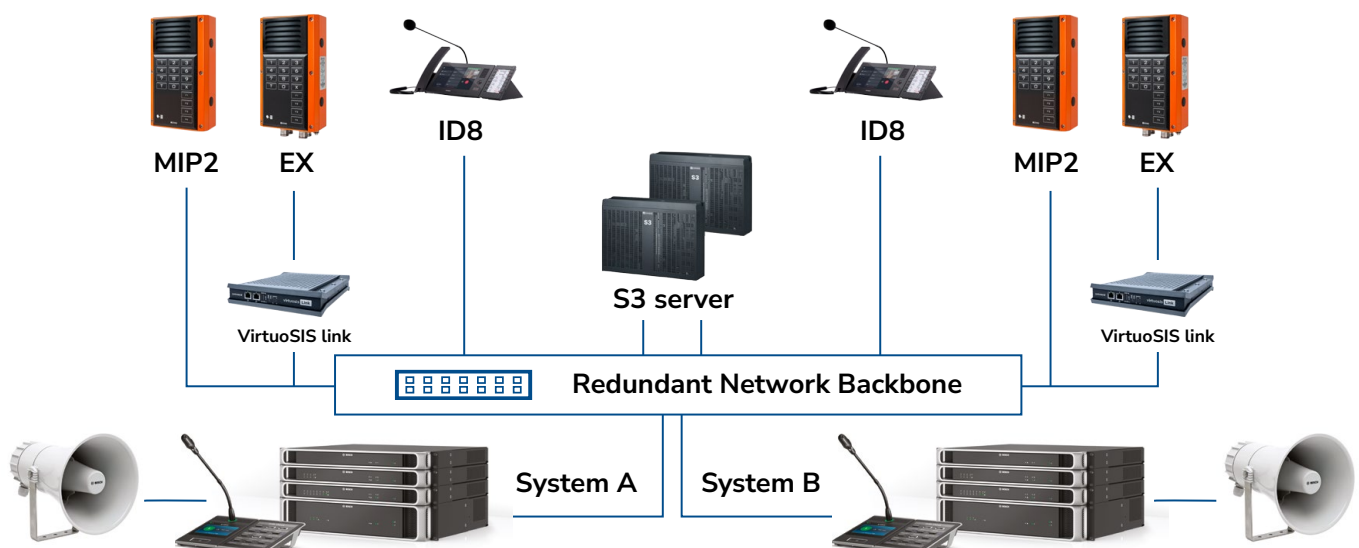
This integration offers a redundant communication system, because the "duty/standby" topology works as an "A-B" system. There will be no single point of failure, due to the set-up. The total system offers fault logging within PRAESENSA and Commend for monitoring purposes. You can choose between an explosion proof (EX) intercom station or a DNV certified intercom station. On request an EX handheld microphone can be added to the EX intercom stations. A system topology can be created out of items which are compliant to: Norsok, EN 54-16, MED, ATEX or do hold a type approval by DNV.

- 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 low energy consumption, limited rack space, low-weight and a scalable solution which is equally suited to centralized and decentralized topologies. All PRAESENSA system components are developed in accordance with Security Engineering Process (SEP). We conduct comprehensive security testing for products prior to release, and regular penetration tests are performed as well. Any findings from these tests are assessed using the Common Vulnerability Scoring System (CVSSv3).

- Commend develops and produces communication systems for industrial applications and is member of the TKH Group. You can choose between the explosion proof (EX) or DNV certified intercom stations 7000 series, which are designed and developed for this market. Offering great flexibility, it can connect intercom, access control, public address and voice alarm systems.

System Example for Comprehensive Maritime Communication Solutions



IP Secure IP infrastructure

All components of the system are IP-networked for the **highest flexibility and scalability**

Efficient Effective power utilization

Innovative amplifier architecture allocates power intelligently for **lower cost of ownership**

24/7 Highest system availability

No single point of failure with **built-in redundancy** is core to the system concept

Optimized Optimized user experience

User-centric design delivers an **intuitive interface** with feedback on progress and status

Fully-featured Fully-featured as standard

Comprehensive system **adapts to changing needs**

Benefits for the owner:

- Seamless integration of explosion proof (EX) or DNV certified intercom stations and public address general alarm system
- Certified according to unified requirements for cyber resilience of on-board systems and equipment (UR E27)
- Fail-safe communication system due to; integrated redundancies, no single point of failure and monitoring facilities
- Energy-saving, limited rack space public address solution due to smart power concept
- Space- and weight-saving with PRAESENSA's compact amplifiers and system controller. Commend call station is low in weight compared to alternatives

Benefits for the System Integrator/ Installer:

- Certain Commend call stations and PRAESENSA do have a type approval certificate by DNV.
- Certain Commend call stations are ATEX/ECEX/CCEX certified.
- Series 7000 Intercom station uses standard SIP to connect to PRAESENSA and control is interfaced via API

Benefits for the user/operator:

- General alarm calls will mute all running business calls
- Intuitive, user-friendly operation and comprehensive control options
- Loud and clear announcements at every part of the platform
- Possibility to make calls, announcements and attention tones in parallel
- Flexible choice of communication points as Series 7000 Intercom station works with SIP-clients like smartphones, telephones, Radios as well as SCADA



Visit [keenfinity-group.com](https://www.keenfinity-group.com) for more information

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