



Shared Situational Awareness

Delivering consistent information to support decision making

Common operational picture
Highly effective cooperation
Reduced cost and complexity

Defence

FREQUENTIS
FOR A SAFER WORLD

Delivering the right information to the right people

As budgets and functional requirements change over time, both civilian and military command and control (C2) organisations tend to build up an array of isolated information systems. Interaction between these systems is typically limited or non-existent, so manual workflows within and between organisations are required to bridge the gaps. To enable more efficient operations and better-informed decision making, the Shared Situational Awareness framework marshals disparate data feeds into a single common operational picture (COP).

Bridging the information gap

Isolated procurement Different budget cycles within organisations mean that systems are procured independently of each other, creating disparity.	Changing requirements As organisational needs evolve over time, different departments invest in new best-of-breed solutions independently, reinforcing the silos between systems.	Changing times Civilian and military organisations are increasingly expected to be able to cooperate effectively and efficiently.
Operational inefficiencies The need to switch between multiple independent systems wastes time and distracts operators from their core mission.	Limited inter-service cooperation Internally, disparate systems increase costs and impede decision making. When working with external partners, the lack of integration makes it hard to maintain a COP.	Cost pressures With most civilian and military organisations under intense budgetary scrutiny, the pressure is on to do more with less, putting a premium on enabling faster and more efficient workflows.

Organisations that use command and control centres – including civilian emergency services, police services, military forces, local and national governments, public transport organisations, and maritime organisations – are increasingly expected to work together in a seamless manner. However, multiple disparate systems and fragmented workflows within the typical organisation make it a major challenge to achieve a common operational picture (COP) internally, let alone with external partners.

Given limited budgets, there is zero appetite to replace all existing C2 systems, yet the lack of integration between them is a major factor limiting operational efficiency.

The Shared Situational Awareness framework addresses this challenge by marshalling the data feeds from the existing disparate systems into one, coherent, easy-to-use COP. Without requiring the rip-and-replace of legacy systems, this solution brings together vital information and workflows in a user-friendly interface that promotes rapid understanding and fast, efficient decision making, supported by rich integrated mapping and communication.

Shared Situational Awareness

For Joint Forces Command, National Air Policing, Search & Rescue and Drone Detection requirements, the Shared Situational Awareness framework is designed to bridge the gaps between siloed systems, smoothing internal workflows and enabling better cooperation externally. By providing an accurate COP, the solution helps civilian and military organisations work together to deploy the right resources in the right locations at the right times to keep making optimal decisions as situations evolve.

Shared Situational Awareness offers

Full visibility

Identify, process and comprehend the critical elements of mission information, integrating information from multiple internal and external sources. The solution enables everyone to see everything, tailored to their individual needs.

Comprehensive functionality

Bring together key functions in a flexible, user-friendly interface that promotes collaboration and efficiency. Unite state-of-the-art voice communication and click-to-call with a COP, workflow-driven and context-sensitive decision-support tools, and legal voice and data recording.

Operational workflow

It is recognised that customers employ workflows that have been developed from CONOPS and through best practices. The system allows for great flexibility by offering standard workflows or customer-designed processes.

Flexible operations

Save resources and potentially lives through faster awareness and decisions backed by a timely appreciation of the full picture. In complex, dynamic real-world scenarios the solution helps organisations manage operations.

Open, flexible architecture

Shared Situational Awareness unites information from disparate feeds, including sensor and geographic information systems (GIS) data, bringing it into a single view and enabling operators to interact with it in a consistent way. Pre-evaluation and weighted scores based on business rules assist decision making, and integrated voice communication with click-to-dial make it easier to reach key contacts fast.

Using predominantly common off-the-shelf hardware and software, Shared Situational Awareness is also

fully open to integration with technologies past, present and future. The solution is highly scalable and supports the highest standards in availability and redundancy. Organisations can flexibly add or remove components and integrate any number of databases for site-specific data.

Built on common requirements and offering standard workflows or customer-defined processes, it is flexible to reflect changing needs.

See the full picture

Backed by seven decades of experience in building and supporting control-centre solutions, Frequentis understands the importance of supporting users through intuitive interfaces in which key functions are immediately accessible. By fusing disparate data flows into a single view, Shared Situational Awareness enables operators to avoid having to patch together their own workflows across disconnected systems. This helps ensure that accurate information goes to the right decision makers at the right time, whether through an easy-to-use HMI in the command centre, via voice communication, or through a mobile client.

Flexible workflows

Building on industry standards, Frequentis can customise workflows and integrate to meet the specific needs of each organisation. Layered on top of existing systems, the open and flexible framework simplifies and accelerates operations.

Legal reporting

Full recording of voice and data flows to legal standards making it easier to review incident responses for training or audit purposes. The solution automatically provides legally accredited voice and data recording to aid post-mission analysis and operator training.

Force multiplier

The solution enables individual organisations to get more out of their existing resources and to extend the useful life of the underlying legacy systems. It also enables organisations to work together with their peers more effectively and efficiently.

Shared Situational Awareness example usage

- Army, Navy, Air Force
- Fire, ambulance, police services
- Local and central government
- Maritime agencies
- Other national agencies and NGOs
- Public transport organisations

The logo for Frequentis, featuring the word "FREQUENTIS" in a bold, blue, sans-serif font. The letters are closely spaced and have a slight shadow effect.

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