TACTICALLY INTEGRATED COMMUNICATION

All systems - One Interface
WHAT IS **TACTICALL ICS**?

TactiCall ICS interconnects all your communication technologies regardless of radioband, frequency and hardware, reduce effort, reduce risk and increase tempo. The system is scalable from one to several operator positions or communication interfaces and makes up the centrepiece in remote controlled setups from single radio to complete operations.

Being completely modular, TactiCall ICS will allow you to put together the functionality needed to support your operational requirements spot on. Integrating seamlessly with third party equipment, legacy or new, it will protect prior investments and prolong the lifespan of your existing systems as well. The intuitive and modern user interface will guarantee secure and reliable operations within every operational setup, be it within international or joint coalitions, own force squadrons or single ship operations.

In every way TactiCall constitutes a robust and highly survivable system with no single point of failure, which will let you handle voice- and data communication, red as well as black, in a fast and efficient manner.

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**INTEGRATED OPERATIONS**

- One central user interface across system
- Cross connect voice communication systems
- Scalability & modularity
- Remote control on all levels
- Legacy integration
- Intuitive HMI interconnecting old and new systems across platforms and technological borders
- Multi level secure lines

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**DATA LINK/SENSORS**

- **Role**: Intelligence officer
- **Net**: Interforce UHF / Link Coordination HF / UHF

**HELO TEAM**

- **Role**: Flight Deck officer
- **Net**: Helo telebrief / Helo UHF / Intercom net: Command

**COMBAT INFORMATION CENTRE**

- **Role**: Operational officer
- **Net**: All

**WEAPON TEAMS**

- **Role**: Gunnery officer
- **Net**: Intercom Weapons / Intercom magazine

**BRIDGE**

- **Role**: Commanding officer (CO) / Officer of the watch (OOW)
- **Net**: Command Net / Maritime VHF / Aeronautic UHF

**SICK BAY**

- **Role**: Doctor / medic
- **Net**: Intercom fighting net / Intercom damage control (DCHQ)

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**MISSION RECORDER**

- Legal recording
- Instant recording

**CCTV**

- Surveillance
- Recording
- Playback
- Remote control

**PAGA**

- Sector specific
- Predefined or live
- General alarms
- Muster alarms

**TELEPHONY**

- Underwater
- Sound powered
- IP/Analogue
TactiCall gives you complete control of, and fast access to, all communication networks on board your vessel. Be it Functional Nets including telephony, public address systems, entertainment systems and the like or Fighting Nets handling alarms, broadcasts and orders, weapon teams or mission control, TactiCall puts you in charge!

TactiCall is highly flexible and scalable and can easily be integrated into your multi-function consoles. Further, the system is platform independent and will integrate seamlessly into your combat management system of choice. In other words, TactiCall lets you control all internal communication on board your vessel and with features such as record and playback, helps you log and later analyze your communication flows.

In today’s world navy operations often consist of joint setups. Task or coalition force operations, including other military arms. SOF teams, air force, marine detachments and even civil and NGO agencies can be important players in the operation. More often than not, this setup includes a multitude of different frequency bands, networks and radio equipment. TactiCall will integrate all these into one simple and easy to use solution that permits everybody to reach each other, regardless of equipment used. TactiCall will allow key features for modern day operations like secure voice separation with multiple levels of security and radio remote control. Utilizing this functionality Government or task force commanders will be able to communicate directly with whoever needs to be addressed - facilitating a much smoother and more rapid “Statement of No Objections” chain for example.
**USER EXPERIENCE**

**WORK PAGE**

- Dynamic list provides access to specific communication channels when needed
- Replay functionality using local recorder
- Easy access to volume controls (all nets and separate net)
- Easy access to crypto/radio remote control
- Easy access to real time status and event log

**NETS MENU**

- Divide communication nets in up to 6 sub tab pages
- Access to all communication nets needed - no limits
- Radio replay
- Phone patching to internal or external nets
- Patch radios on-the-fly
- Use DSC for selective radio calls to supporting ships

**Communicate, flexibly and effectively**

Define the nets needed and assign operator access to each of these – that simple! Operators can concurrently monitor or communicate via any combination of the accessible nets – if permitted by your communication policies, including security restrictions. TactiCall gets the message through, even when having to adapt the specific nets’ operational parameters using remote control.

**Connect whoever is needed**

TactiCall provides you with tools to let all involved parties communicate effectively, regardless of frequency bands, standards and equipment suppliers. This can be achieved by either preconfigured connections through the management system or on the fly patches created and maintained by the operator.
Announcements and alarms
TactiCall supports your public address functionality. Both general announcements and emergency alarms can be triggered by the operator with no more than three touches on the OCP. Alarms and Public Address can be configured to either address individual sectors and zones or be broadcast on the entire vessel - and of course be triggered either generally or individually. In addition to this, the PA can be setup to broadcast either predefined messages or live speech.

An effective telephony solution
TactiCall includes a full feature telephony element, which can replace the traditional stand-alone telephone system. Dial from operator defined phone books, using either the number pad, direct call keys or respond to last calls. Each physical unit has a phone number, as does all operators and roles.
TactiCall ICS is built to facilitate the chain of command. Naval and military communication requires RED and BLACK separation as well as security accreditation of the overall solution.

The core element to enable accreditation is a transfer cross domain solution (CDS) that is a combination of firewall, content filtering and encryption, as well as an access CDS within the user terminals. The access CDS will handle switching the user microphone to each specific circuit at a time as well as adding warning tones to the users’ speakers where appropriate.

Further, TactiCall allows operators to monitor a mix of secure (RED) and non-secure (BLACK) voice communication, and simultaneously be able to speak either secure or non-secure as the situation requires. This set-up can be expanded to include several security domains e.g. UNCLASSIFIED, National SECRET and Coalition SECRET in a simple but fully secure system as the user terminals do not need to be directly hardwired with the individual networks.
HARDWARE & PLATFORMS

Adapted to the naval environment, Saab offers different subscriber stations from where the operator can access the system.

RVD 10-06
Client: Touch communicator extended
Resolution: 1024x768
Environment: Mobile & rugged environments

VSS 3400
Client: Non-touch communicator
Environment: Bulkhead mounted for indoor and outdoor use

MOBILE CLIENTS
Client: Touch communicator mobile
Environment: Smart phones and tablets

TSS 3000
Client: Touch communicator advanced
Resolution: 840x480
Environment: Console and bulkhead mounted

OCP 3000
Client: Touch communicator extended
Resolution: 1024x768
Environment: Desktop

APP 3000
Environment: Desktop and console
Hardware: Audio Plug Panel

Hardware and platform independent, facilitating seamless legacy integration.