Defence Communications Systems

TACTICAL VOICE TERMINAL (TVT)

The revolution of communications capabilities within the maritime battlespace continues with the introduction of the new naval tactical Voice Distribution System (VDS), the SETV1. Based on the company's proven Sentinel Soft Switch, it manages voice distribution over an IP network. The solution also includes the purpose built low-cost naval Tactical Voice Terminal (TVT).

Overview
The Soft IP Switch is a platform-agnostic application capable of switching multiple voice and data calls. It facilitates a range of complex functions including interphone, intercom, radio circuit and open line calls. TVTs are rugged, low power and high capability operator terminals.

They include built-in speakers, microphone, and line out for headsets, and have a wealth of role-specific features. They have also been designed to meet military standards for immersion, shock and EMC.

VDS KEY FEATURES AND BENEFITS

Platform agnostic
Due to its open, non-proprietary design, the VDS can be hosted on the user's own server system. This gives the user the ability to upgrade a communications capability within an existing architecture without significant additional costs.

The SETV1 can also be procured as part of a fully integrated internal and external naval communications solution using COTS or MOTS hardware or a best-of-breed equipment supplier approach.

Modular, scalable and flexible
The SETV1 is a flexible and scalable solution, allowing the comms system to grow and adapt, either by extending the number of voice terminals or increasing radio quantities and types. This ensures that changes in ship missions during its life are not inhibited by communications system upgrade requirements.

SENTINEL TVT

TVT KEY FEATURES AND BENEFITS

Power over Ethernet and battle damage resilience
Due to their low power requirement, TVTs are “line powered” (PoE) and require no power sources beyond their Ethernet connection. This reduces installation and material costs. A network of TVTs can remain operational despite battle damage loss of one, several or many units.

Configurable binaural multi-circuit working
When using the TVT with a headset, the operator can configure and listen to multiple circuits in each ear and adjust the volume of each circuit based on their priority.

Key arrangement
The TVTs are designed so keys can be configured to suit a specific role and location. This allows the most used circuits to be “hot keyed”. Configurations are easily changed, keeping the system flexible and allowing it to evolve over time.

TEMPEST and security
The TVTs also have built-in TEMPEST and other security features.

Services
The SETV1 allows a user to operate the following services concurrently:

- Interphone
  - Person-to-person interphone calls are full duplex and operate identically to a normal domestic telephone call requiring no PTT
- Radio circuit
  - Person-to-person calls allow the operator to use external communications bearers to contact external telephony systems
- Intercom
  - Person-to-group calls with the facility for an operator to continuously monitor a group circuit while using other circuits. For intercom calls (which are halfduplex), only one person can speak at a time
- Open line
  - Person-to-group call for two-way group communications, with all operators having simultaneous access. Can be configured to include from 3 to 20 operators. For open line calls (which are full duplex), voice traffic produced by a single speaker is broadcast to all other parties. If more than one person speaks at the same time, individual contributions are digitally ‘summed’ and distributed to all other parties.

SPECIFICATION	
Size (w x d x h)	210mm x 60mm x 250mm
Weight Under	5Kg
Power	PoE – approx. 5Watts
Screen Size	5.7”

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