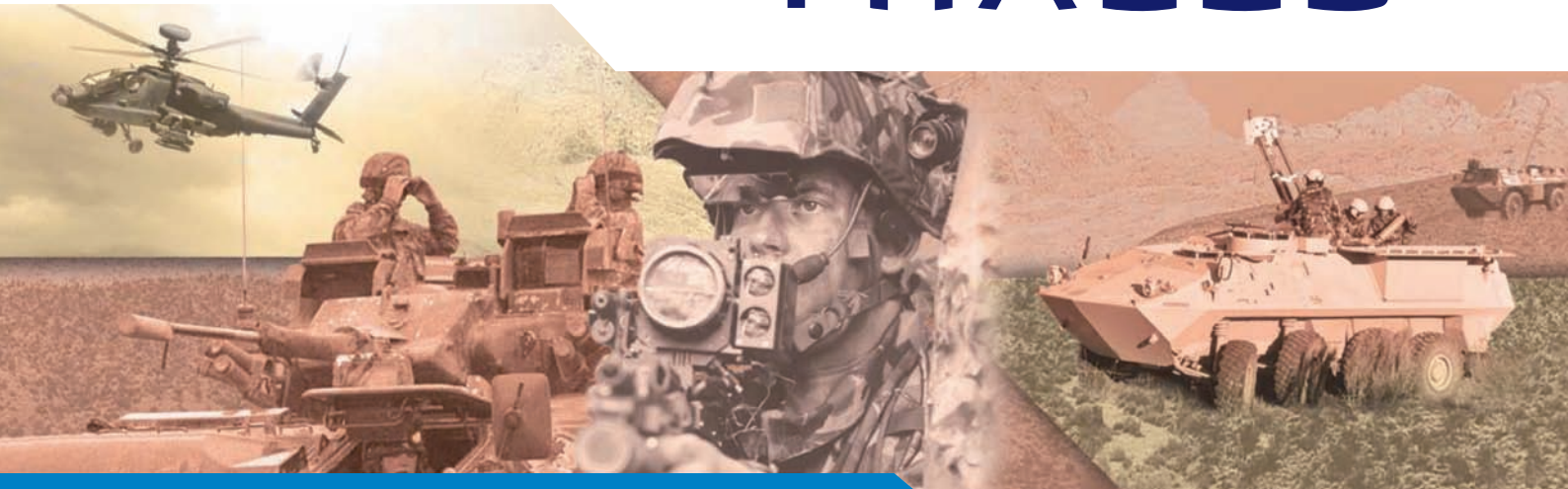


# THALES



## SOTAS<sub>IP</sub>

The New Standard in Vehicle Communications



### SOTAS<sub>IP</sub> — The only Vehicle Communications System that has it all

Highly Scalable – cost-effective solutions for all types of vehicles and requirements

- From small voice intercom to complete multimedia command post network

Voice, data and video on one integrated system

- More services with less boxes and less cables

Embedded IP services

- Perfect blend of COTS standards and rugged MIL-Spec construction

Integrated Multi-platform Networking

- Ad-hoc (S-)WLAN, optical and electrical
- All services available over the multi-platform network
- Integrates soldier systems for all data/voice services and power distribution

Ease of operation

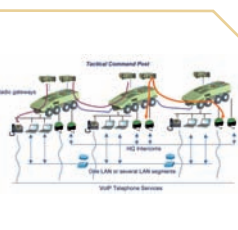
- Easier than a traditional intercom

**SOTAS systems: fielded in over 25 countries**



# SOTAS<sub>IP</sub>

## The New Standard in Vehicle Communications



WLAN

### Integrated Vehicle Communications System

SOTAS<sub>IP</sub> offers all required vehicle communications services on a single system. SOTAS<sub>IP</sub> integrates the vehicle intercom, the Ethernet LAN, the IP router, the VoIP phones, the serial data links, the radio gateways, the command post network, etc. etc. in one rugged, reliable system. Offering more services than other systems, with less boxes and less cables, using less space. SOTAS<sub>IP</sub> offers full connectivity for soldiers, extending the command and control chain also to dismounted troops.

### SOTAS<sub>IP</sub> – One system for the whole fleet

SOTAS<sub>IP</sub> is designed to be flexible and scalable. With a range of system modules SOTAS<sub>IP</sub> can be configured for all types of vehicles and requirements. From small voice intercoms to multi-media command post networks. Installed SOTAS<sub>IP</sub> systems can easily be upgraded to higher service levels when new requirements emerge. This makes SOTAS<sub>IP</sub> an excellent choice, also when current requirements are intercom-only.

### Crystal Clear Communications

Thanks to unique Dynamic Noise Reduction (DNR) and human voice recognition algorithms SOTAS<sub>IP</sub> offers clear voice communications in all types of vehicles including those with high noise levels. The DNR improves the communication over the intercom and over the radios and enables hearing protection of the vehicle crew.

### Multi-Vehicle Networks

SOTAS<sub>IP</sub> services are not limited to individual vehicles. SOTAS<sub>IP</sub> offers multi-media inter-vehicle networking: voice, data, video communications, sharing of radios, sensors and computer resources, etc. Vehicles can be connected in any order and in any topology. On connection, SOTAS<sub>IP</sub> automatically adapts to the new topology; no management action is required.

### WLAN

In addition to wired (fibre and electrical) networks SOTAS<sub>IP</sub> provides ad-hoc WLAN networking with multi-hop routing, enabling random network topologies.

### Mobile Tactical Internet

SOTAS<sub>IP</sub> integrates the BMS, the radios, telephone services and IP services. SOTAS<sub>IP</sub> provides interoperability between radio networks (UHF, VHF, HF) and with the Wide Area Networks.

## FEATURES

### SOTAS<sub>IP</sub> features include:

- Very high audio quality (DNR)
- Multiple intercom channels
- Emergency override
- Mono and Split-ear (stereo) headset support
- Telephony (VoIP, PTSN; ISDN) on crew stations
- Field telephone service, including radio access
- Comprehensive radio services, including gateways, radio silence, radio rebroadcast and radio status indication
- Telephone (VoIP, PTSN; ISDN) gateways for Combat Net Radios (CNR).
- BMS support – communications server for optimised data networking over CNR
- Crew briefing system for APC passengers
- Wireless voice/data intercom for dismounted soldiers using duplex or half-duplex Personal Role Radios
- Async and Sync serial data
- Soldier system connectivity (data, voice and power)
- 100 Mbps optical Ethernet interfaces
- 10/100 Mbps electrical Ethernet interfaces
- Ethernet / MAC switch (incl. VLAN support)
- IP routing (multiple protocols)
- Interoperable with tactical and commercial IP networks
- Integrated multi-vehicle networking
- All services available on multi-vehicle network
- Ad-hoc WLAN networking with multi-hop routing
- Compatible with all relevant in-service CNR
- Interworking with Vehicle Management System (CAN).
- And more...

Contact Thales for a briefing on the full potential of SOTAS<sub>IP</sub>

SOTAS<sub>IP</sub> is a hermetically sealed, robust MIL-SPEC system that requires no special protection measures when installed. Designed to be used in harsh environments the system has a very high availability.

- MIL-STD-810/F
- MIL-STD-461E
- MIL-STD-1275B
- CE-compliant

