



KONGSBERG

TacLAN

Robust communication for the networked warrior



www.kongsberg.com

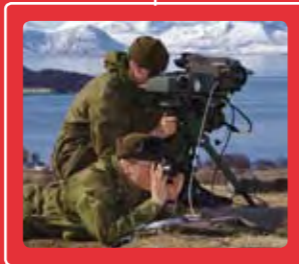
The increasing demand for networked services spans from the Theatre Commander down to the single dismounted soldier. Never has the requirement for high tempo and mobility in operations been higher – and never was the need for accurate and timely information to the decision makers more important to the outcome of the battle.

The combination of these operational challenges put new extreme requirements to the communications systems. Data must be securely transported within the full network infrastructure with the right priority and quality of service to meet the needs of the modern warrior.

KONGSBERG has been a major supplier of leading communication technology for more than 40 years. Our commitment is to ensure continued excellence in support of our most demanding customers – TacLAN is our answer to the requirements of the mobile warrior.

Delivering outstanding system performance through technology and experience

COMMUNICATION



The Operational Requirement

Data tools supporting C2 and C4ISR capabilities, Blue Force Tracking, map display systems, military messaging and image/video transfer enhance the efficiency of tactical units at the battlefield.

Increased mobility and a high tempo of operations in the forward Combat Zone requires wireless communication between sensors, vehicles, command posts and even the single dismounted soldier or effector.

The increased exchange requirement for data services in the Combat Zone requires new enhanced, secure solutions for communications.

The complex information space requires the network to bring data to the right user in the Theatre Information Grid with no or limited intervention from the user.

The Solution

The TacLAN family of wired and wireless broadband Local Area Network equipment provides an integrated and well suited solution for the tactical users.

The combination of wired and encrypted wireless transmission capabilities creates a communication scenario supporting the wide range of user applications in the Combat Zone.

The TacLAN high data rate wireless infrastructure is complementary to the long range and EPM protected Multi Role Radio family. Operating the systems side by side ensures optimum performance for your battlefield communication under all conditions.

TacLAN provides access to the IP-based Information Grid for legacy systems

What is TacLAN?

TacLAN is a high capacity network solution for a range of tactical applications :

- Autonomous networks
- Vehicle and Command Post infrastructure
- Wireless LAN for Command Posts
- Long Range Tactical Wireless LAN
- Broadband Area Coverage Network
- Logistic and Fleet Control Network
- Tactical Surveillance/sensor systems
- High data rate point-to-point links
- Soldier inter- and intra team broadband wireless communication

TacLAN provides wired and wireless broadband communications infrastructure to the tactical military units in the Combat Zone.

TacLAN comprise a core C4ISR system capability in a Network Centric Warfare environment – all IP based.



TacLAN is built to fit in armoured and light field vehicles of all kinds as well as other mobile platforms.

TacLAN is a modular family of equipment scalable to meet different requirements.

TacLAN equipment is easily combined to meet new applications and integration challenges.

TacLAN module commonality minimises Life Cycle Cost and Integrated Logistics Cost.

TacLAN equipment is continuously adopted to meet new challenges with enhanced performance.

TacLAN provides interfaces to KONGSBERG EriTac^{IP} Tactical Area Communications systems.

TacLAN interfaces the Multi Role Radio family to provide complementary and sustainable CIS services at the lowest tactical levels.

TacLAN

Deployed sensors

Surveillance of wide areas and lines of communications with minimum use of personnel.

Command Posts

Fast establishment and redeployment of resilient high capacity networks.

UAV C2 and sensor downlink

Secure reliable Command and Control and broadband data link for distribution of sensor data to troops on the ground.

ISTAR

Broadband wireless network to support wide range of sensors over long distances.

Broadband Access to EriTac^{IP}

Fleet control of logistic vehicles and installations. Surveillance by autonomous sensors to maintain control of theatre rear areas.

Coastal defence

Collaboration between OP's, deployed weapons and patrol boats for agile surveillance and precise counterstrikes to intruders.

Infantry platoon

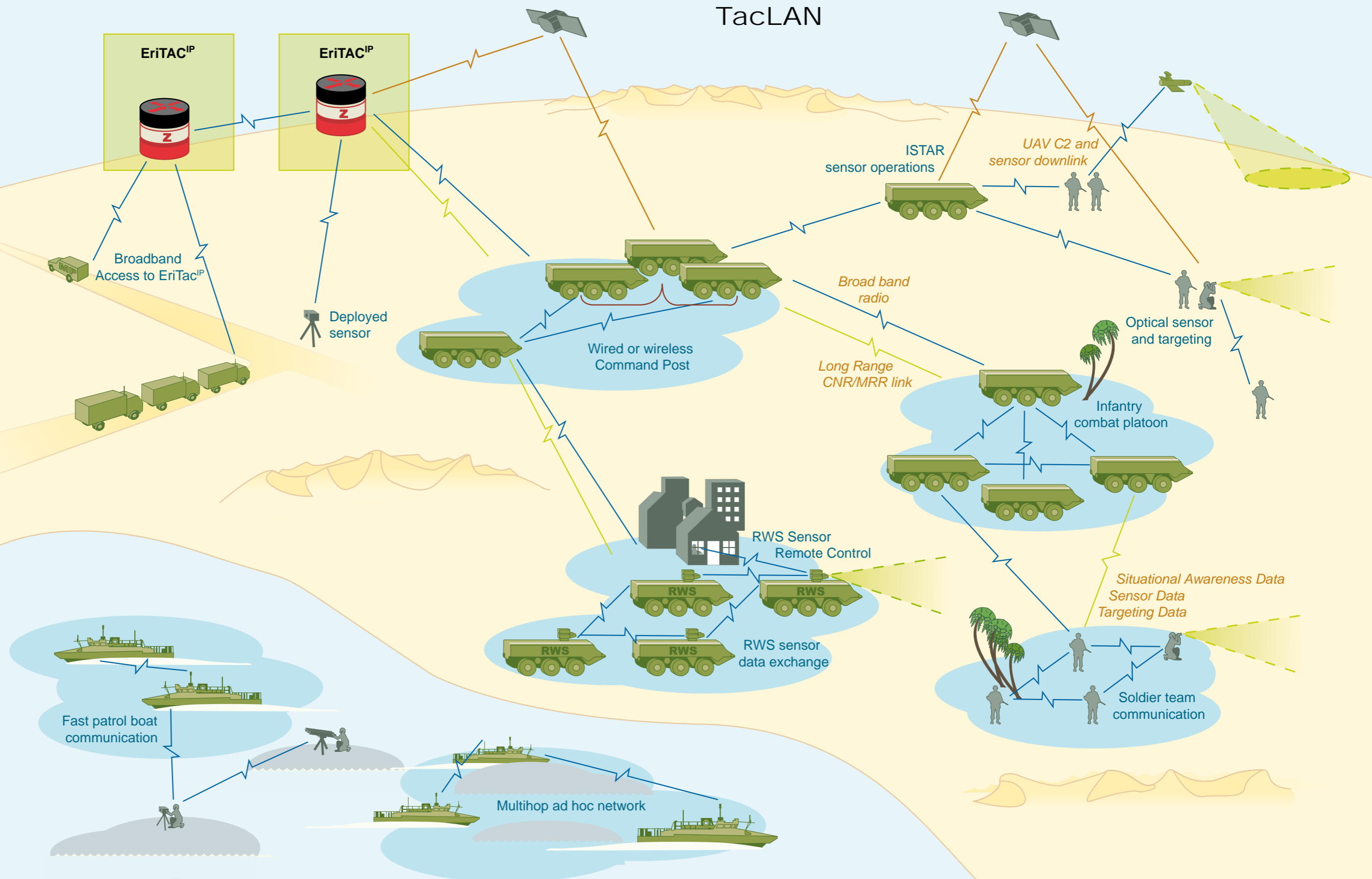
Broadband communication of data between vehicles and to dismounted teams. Teams being used as sensors. Broadband communications improves situation assessment by video and imagery transfer from troops to Command Posts.

Remote Weapon Station collaboration

Improve operations in urban areas by distributing video from each vehicle to the commander. Offer remote control of RWS sensors from buildings during sustained surveillance.

Multi-hop networking

Overcomes radio range limitations and terrain by using other platforms as relay. Self configuring networking that needs no user intervention to operate.





Typical TacLAN applications

Command Posts

TacLAN components are combined to allow both wired and wireless connection of CP vehicles. Using the WM600 Broadband Radio for internal distribution of Command and Control Data allows wider dispersion of vehicles to protect against enemy fire.

The broadband long range capability of the WM600 allows vehicles to exchange data also when on the move – the Command Post is thus operational at all times. No delay due to deployment of fibre cables at arrival – or delayed departures due to fibre cable retrieval. Fibre may be used to enhance data capacity and avoid RF emissions. With the flexibility of TacLAN your Command Post is ready to go – anywhere, anytime.



Fighting vehicles

The TacLAN communication equipment supports all Command and Control activity in the fighting vehicle. The TR600 Tactical Router and Media Gateway will ensure that data will be distributed and delivered at the best communication link available. Situational Awareness and broadband target information flows seamlessly between the fighting vehicles, fire support teams and dismounted soldiers.

The WM600 Broadband Radio support wireless video and imagery transfer between fighting vehicles as well as to higher echelons. Intechanging real-time video and imagery between vehicles immediately improves situation understanding and increase tempo and quality in the decision making.



TacLAN equipment offers the warriors the robust communication needed to exploit and maintain information superiority at all levels.

Sensor systems

The great benefit of the WM600 Broadband Radio is its support of live video and high resolution imagery in all mainstream formats over long distances. Providing high data rate to the echelons closest to the enemy allows the situation at hand to be presented in real-time to commanders for improved situation assessment.

Dismounted teams and fighting vehicles takes on the combined role of both sensors and effectors at the battlefield. WM600 also supports dedicated sensor systems – both manned and unmanned. The SR600 Broadband Soldier Radio is due to its low weight and high reliable data rate well suited for Command and Control and sensor data traffic to/from mini-UAV's. Data can be sent directly to the troops on the ground.

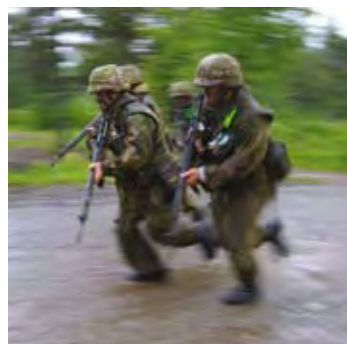


Support of a wide range of sensor applications is a very important quality of the TacLAN family of broadband wireless equipment.

Soldier systems

There is an increasing focus on the support of a C4ISR integrated dismounted soldier. New technology improves survivability, lethality and sustainability of the soldier. Improved Situational Awareness is the key to this improvement. The SR600 Broadband Soldier Radio provides the wireless communication infrastructure needed to carry the combination of voice, Situation Awareness data, Command and Control data as well as video, high resolution images and targeting information.

SR600 can be used both inside the team/squad as well as between squads, support vehicles or fire support teams. SR600 combines long range and broadband IP-based communication to become the preferred radio for the networked warrior.



We're there for you, whenever and wherever you need us

Kongsberg Gruppen (KONGSBERG) primarily targets offshore, merchant marine and defence markets. The bulk of the Group's activities address the international arena, with Europe, the USA, the Middle East and Asia as the most important markets. KONGSBERG has two business areas: Kongsberg Maritime mainly addresses the offshore industry and merchant marine, while Kongsberg Defence & Aerospace's operations are directed at the defence and aerospace markets.

KONGSBERG has facilities world wide and has approx. 3 400 employees, some 500 of whom work outside Norway. The Group is one of Norway's largest industrial engineering communities, and its range of products is characterised by a high technology content. KONGSBERG's products have to function under the most demanding conditions as they are used from ocean depths down to 11 000 metres and up to solar panels on space probes that spend years hurtling through outer space.



Solid competence reduces cost

KONGSBERG has consistently recognised the importance of supporting its products and systems with professional training. We tailor our training courses to our customer's requirements.



Upgrading pays

Product and system upgrades can improve your system/vessel operations and reduce overall maintenance costs. We ensure that existing products and systems can be extended and/or upgraded to meet customers' future requirements.

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WORLD CLASS – through people, technology and dedication

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