THALES COMMUNICATIONS

# ARMY ON LINE

## Plug in the digital battlefield

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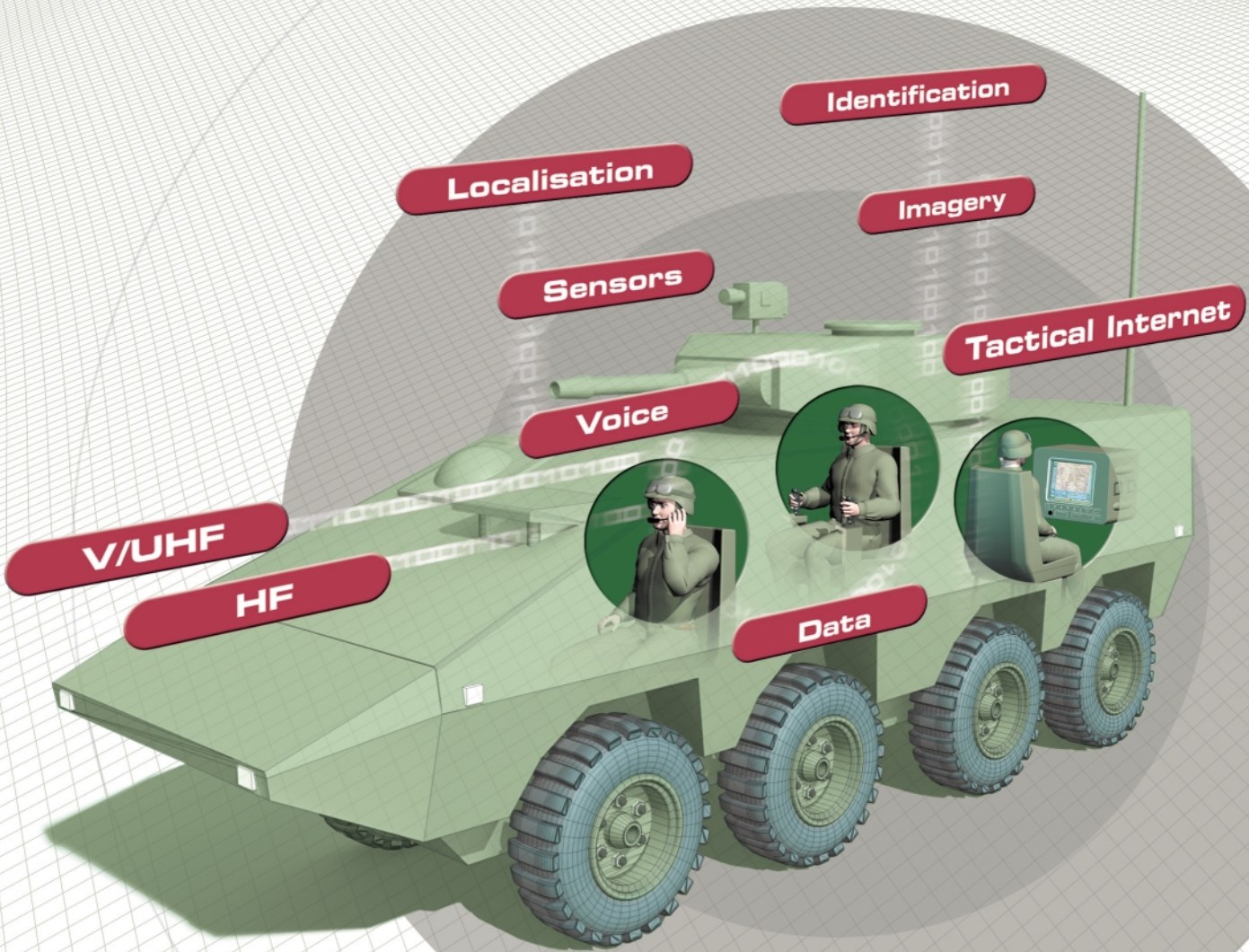
# ARMY ON LINE

## From Push-To-Talk to Situational Awareness

Army on line answers to:

> **Where am I?**
> **Where are my friends?**
> **Where are the foes?**




### Information dominance

**When facing main battlefield trends, such as fast changes of conflict, urban operations, joint deployments, procurement cost reduction, information is the key. This requires more of both platform and soldier systems.**

**Army on line allows crews and soldiers to be continuously aware of battlefield situations, and to be able to execute movement and fire orders with unprecedented speed.**

**Army on line makes sure that the right information will be at the right place at the right time.**

### Cutting-edge services starting with legacy

**Army on line is a complete offer - a battlefield digitization kit - including everything needed for voice and data communications within a vehicle and between vehicles, along with the corresponding sensors and application sensors.**

## In-vehicle Networks

### Vehicle Multimedia Networks

> Voice, data, video integrated communications
> Embedded IP networking
> Total configuration flexibility

### Communication Servers

> Tactical IP routers and servers for seamless digital battlespace interoperability

### Dismounted Soldier

## Common Situation Understanding

## Avoid Fratricide

## Increase Mission Tempo

## Execute Precision Strikes

## Tactical Radios

### Secure, Reconfigurable and Open Radios

> HF, V/UHF multimode multimission ECCM radios
> Satcom terminals
> Multimedia high-speed radios

### Wireless Local Network

> Boost multivehicle communication systems
> High data rate multiservice
> Ultra fast deployment

### Frequency and Operation Management

> Cosite filters for multichannel operation
> Frequency planning tool
> Local management for HF, VHF, UHF radios

## Battlefield Management System

### Tactical Command and Control Information System

Combine all information and control the vehicle mission on the battlefield

Unique environment optimised for low bandwidth Combat Net Radios

> Message handling system for e-mail, fax, file transfer
> Formatted messaging
> Database accesses
> Battlefield phone book
> Videoconferencing
> Automatic reports

### Situational Awareness

Sharing common pictures of the battlefield

> Dynamic positioning of mission players
> Route planning
> Hostile target designating
> Alarm and sensor fusion
- Battlefield Combat Identification
- Equipment diagnostic
- Positioning and navigation
- Laser range finder

## Battlefield Combat Identification

### Battlefield Identification Friend or Foe (BIFF)

Ground-to-Ground, Ground-to-Air and Air-to-Ground combat identification system

> STANAG 4579
> Enhances Situational Awareness
> Minimises fratricide
> Operates through dust, smoke, rain, foliage

### Comprehensive Range

BIFF, designed to equip all friendly platforms on the battlefield, comprises three products

> Interrogator, for attacking platforms
> Combined Interrogator / Transponder (CIT) for attacking platforms
> Transponder for non attacking platforms

# Battlefield Digitisation Kits

- **In-vehicle Networks**
- **Tactical Radios**

- **Battlefield Management System**
- **Battlefield Combat Identification**

Integrated Communication and Identification Kit to Improve Efficiency of Engaged Means

## Vehicle integration expertise

> **In-house integration and manufacturing facility**
> **Production and turnkey retrofit**
> **Application and engineering laboratory**
> **EMI/EMC anechoid chamber**

> **Overhaul program**
> **e-Services**
- Documentation, Training, Repair shop

## Installed in more than 150 military vehicles

- **Over 500,000 tactical radios sold to more than 85 countries to date**
- **SOTAS - digital vehicle intercoms system - 10,000 sold**
- **Battlefield Management System operational in Europe**
- **Communication Server and Router for SIR, GeFüSys, SAMANTHA and MARTHA**
- **Tactical Messaging System in operation in more than 10 countries**
- **Future IFV (Infantry Fighting Vehicle) electromagnetic hardening**
- **Battlefield IFF field tested within NATO trials**

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