

UNIVERSAL DESIGN PRINCIPLES ADOPTED BY THALES FOR THE ICS

- Generic Vehicle Architecture (GVA) compliant
- Integration of current in-service combat and communication systems
- Virtualisation of hardware, minimising space, weight and power claims
- Take account of previous investment
- Applicable to current and future systems
- Use open (published & controlled), modular and scalable architectures and systems
- Facilitate technology insertion (upgrade, update, replace, repair, remove and addition)
- Not needlessly implement in hardware any functionality that can be implemented in software
- Take a 'whole of platform' systems view, through Life of Type (including cost)
- Be done in conjunction with industry and all relevant stakeholders
- Be military owned and maintained
- Hardware agnostic.

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INTEGRAL COMPUTING SYSTEM

**A crew centric approach for all vehicle
operations for all vehicle types**



INTEGRAL COMPUTING SYSTEM (ICS)

A crew centric approach for all vehicle operations for all vehicle types

The ICS will optimise and centralise the flow of information, enabling rapid decision making and multitasking at levels currently not achievable on land based platforms. Leveraging off existing hardware, the ICS will also minimise the complexity of vehicle integration and configurations by sharing information across systems using a network based architecture.

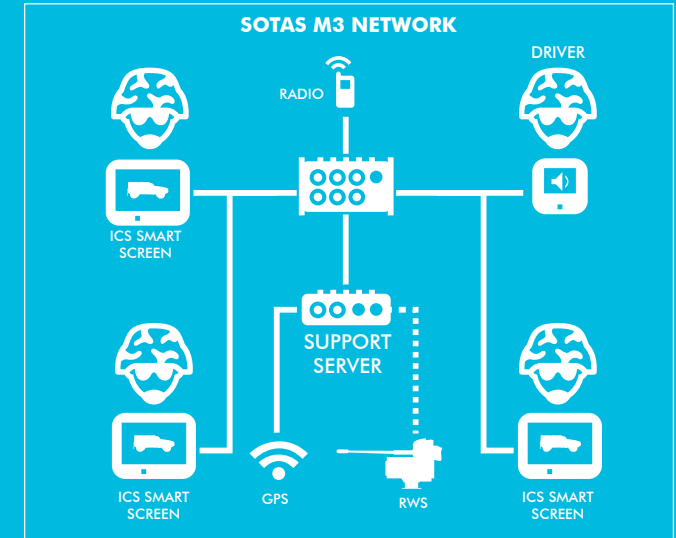
VEHICLE CREW BENEFITS

- Improved decision making and information flow
- Operator redundancy through shared applications and screens
- Improved Coalition interoperability (A UK Foxhound Crew Commander could jump into an Australian Hawkei and immediately use all functions)
- Reduced training burden through common screens and HMI across all vehicles types
- Reduced C4I space, weight and power claims within the platform
- Improved functionality as C4ISREW applications are centrally hosted in an integral computing solution – stove pipe applications are no longer bolted in.

ICS - Setting the standard for land based C4I systems



DESIGNED FOR THE CREW
INDEPENDENT OF VEHICLE.



The ICS hosts the following*

- On-board vehicle diagnostics and Health and Usage Monitoring Systems
- Communication bearer control via SOTAS or BMS
- Battle Management System
- Fires BMS
- Integrates Remote Weapon Station & Unmanned Aerial Vehicle feeds into hosted applications
- Distributes GPS data to all applications
- Counter IED Jammers
- Sensor data.

* this is just one particular configuration