

# Joint Command System (Maritime)

BAE Systems Integrated System Technologies (Insyte) has produced its latest generation of sophisticated Joint Command Systems. JCS (Maritime) has been designed to provide a comprehensive Maritime Command and Control Capability which provides influence over the battlespace. Our command and control systems provide effective defence in depth by the integration of available surveillance systems with naval platforms.

The JCS (Maritime) Features

- Advanced CCIS functions
- Open systems architecture
- Effective HCI
- Built-in Security Features
- Interoperability

JCS (Maritime) achieves all these objectives and enhances the ability of CINC and other operational staffs through data distribution and the provision of supporting applications, including:

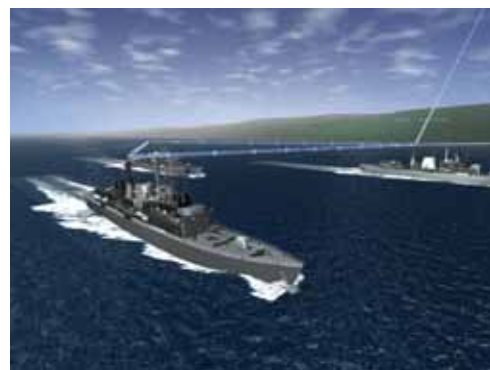
- Dynamic recognised maritime picture (RMP)
- Waterspace and interference management (WSM)
- Message handling
- Automated database updates
- Predefined and user-defined totes
- Comprehensive office automation facilities
- Extensive briefing facilities
- Exercise support facilities
- Information exchange facilities

The JCS (Maritime) Solution

The JCS (Maritime) solution takes into account the current practices of operational staffs in their execution of the command and control function, which is inextricably linked to the generation and receipt of messages. It provides a complete integration of new CCIS facilities together with the existing comprehensive message handling facilities.

Progressive Operational Capability

The operational capability can be phased by the progressive introduction of commercial off-the-shelf (COTS) subsystems. This enables early



benefits to be introduced as an interim operation capability (IOC) and enhanced to full operational capability (FOC). The full functionality includes:

- Display and manipulation of the RMP
- Office automation
- Decision and planning aids
- Briefing facilities, large screen displays and monitors
- Tote facilities
- WAN and remote site installation
- Wide ranging interoperability
- Enhanced integration
- Fully developed and integrated database
- Automated database updating
- Accredited secure system
- Formatted MHS
- Exercise support
- Comprehensive encyclopaedic data

## USER FEATURES

### Common Operating Environment (COE)

The JCS (Maritime) architecture is based on the maximum use of COTS products in an open systems environment. The COE reflects major system procurement requirements, including vendor independence, reliance on standards, flexibility to respond to changing requirements, future proofing against developing technologies and the need to improve interoperability. It provides a very effective and flexible basis for all future CCIS, including the ability to support joint/allied operations.

### Software Configuration

The client server concept provides the optimum balance between performance, data consistency and cost. System data is held centrally, with external communications handling functions at the servers providing a single, consistent view of all information required by the users.

### System Architecture

JCS (Maritime) features a system-wide client server architecture, supporting distributed locations. It can be connected to remote sites via a transparent WAN based on encrypted wide-band links, which will ensure a comparable level of service to all users. The WAN provides redundancy to ensure no single network failure will deprive users of services.

### Human/Computer Interface (HCI)

Insyte is a recognised centre of excellence in tailoring HCIs to meet user need and working practices, and will be applying its unrivalled expertise through out the JCS (Maritime) programme. Most tool kits within JCS (Maritime)

Integrated role cell facilities and functions at a single workstation

Excellent user support at an early stage

Integration of remote sites and full interoperability

User-friendly HCI to optimise user effectiveness

Secure WAN

User-definable totes

Well structured data schema

Integrated facilities

Interoperability with other systems

Single-headed or dual-headed 21" displays, with large screen option.

are configurable for appearance, feel, menu structure and wording. They will be styled within recommended guidelines for HCIs to naval, national and European standards. Users' operational efficiency, access to data, accuracy, timeliness of response and ability to allocate resources will thereby be optimised.

### Security

Whilst all workstations are interchangeable, the underlying security feature manages access to reflect the defined role of each individual user. Similar mechanisms oversee data processing within the environment to prevent unauthorised access.

## TECHNICAL FEATURES

COTS/open systems COE

WSM/RMP

Multi-level security

MHS full functionality based on emulation

User-centred design

Employs published APIs

Links to other national and NATO system.



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