

Intelligence Solutions

Working to become a dependable partner of choice

BAE Systems Insyte's joint command & information systems solutions give decision makers the information to make mission critical decisions before opponents can react, minimising risk to our forces and creating greater operational effect.

BAE Systems intelligence solutions deliver timely actionable intelligence, a key component of command decision making. Based on the proven LYCHGATE architecture our solutions provide an intelligence processing and dissemination capability enabling data from a wide variety of sources to be received, analysed, collated and disseminated delivering multi-media intelligence products to the operational user.

In-service since 1997, LYCHGATE provides intelligence staff in the United Kingdom and overseas with the capability to prepare intelligence products for use across UK MOD at the highest security classifications. BAE Systems subsequently delivered the Operational Intelligence Support Group (OISG) capability, based on the LYCHGATE system, providing intelligence services to deployed users.



A Lychgate user prepares intelligence products

Intelligence functions

To meet today's intelligence challenges our intelligence solutions support a rich range of functions including:

- Applied intelligence
- Request for information (RFI) management
- Analyst tasking and scheduling
- Imagery analysis
- All source analysis and visualisation
- Current intelligence assessment
- Battle damage assessment
- Intelligence production.

This rich functionality gives intelligence users access to a comprehensive capability to deliver timely actionable intelligence.

Intelligence analysis

The ability to analyse people, place, time and event is a key feature of our intelligence solutions capability based on the i2 Analyst tools, associated database and geo tools. They enable the analysis of data emerging over time to identify relationships, patterns of events etc to inform the wider intelligence assessment taken by the intelligence staffs.

A rich range of intelligence collection capability sources are now available. The system capability includes a full electronic light table (ELT) tool (Socet GXP) enabling imagery analysis and the production of IMagery INTelligence (IMINT) products.

Intelligence Solution Scaling

Our intelligence solutions serve a wide community including:

Joint Permanent Joint Headquarters, Overseas HQ's

Land – HQLF, 16 Air Assault Brigade, Bulford and Intelligence Corps

Air – Headquarters Air Command, Air Warfare centre, Joint Force Air Component Headquarters and numerous RAF elements.

MOD – Defence Intelligence Staff - Intelligence Collection Group

The system is scalable and capable of deployment in either permanent locations or at temporary in theatre locations, configuration options include:

- Single stand alone user access device (UAD) (fixed and deployed)
- Small UAD clusters (4-20 users) with local server capability (fixed and deployed)
- Large server hubs supporting bigger user communities and external interoperability (fixed only).

Interconnecting systems

LYCHGATE interconnects with a number of other major intelligence systems providing the analyst with the ability to:

- Access information from a wide range of sources to deliver all source intelligence products
- Publish the products to a secure web server, for other analysts in the UK intelligence community to browse
- Access products, in particular the latest imagery, from secure intelligence web servers in the UK and the rest of the world.

Message handling/profiling

The system automatically interfaces with several military messaging networks. Users can exchange X.400 email messages with the wider intelligence community based on the latest messaging configurations. The system also provides users with the ability to send and receive ACP127 formatted messages. Applications allow users to profile, process, separate and distribute a variety of message types.

COTS applications

Proven commercial technologies are used to maximise interoperability. A comprehensive suite of office automation tools is supplied, based on the MS Office standard, Paintshop Pro, Adobe Acrobat, ELT/Net and many other applications.

Email is provided by Outlook/Exchange (SMTP and X.400/X.500) with Boldon James providing military messaging support. Full chat facilities are also provided.

The geographic information system (GIS) is provided by ESRI ArcView and the US DoD's Falcon View geospatial tools supports all required map formats.

System architecture

The systems architecture is based on standard open architectures compatible with Defence Information Infrastructure (DII). The architecture is based on distributed servers supporting clients over encrypted WAN links or local LAN connections. Interoperability and information sharing with other systems is via tailored security gateways and demilitarised zones (DMZ).

Remote deployed sites are configured to provide high resilience with local servers and UPS to maintain local processing capability in the event of communications and power failures.

The architecture provides a stable and resilient high quality of service to the operational user.

Security

The system has a sound Accreditation track record since entering service enabling the system to handle the highest security classifications. This is achieved by security evaluation and testing to EAL 3 with specific components and interfaces assured to EAL 4. Security is mainly provided by certified commercial-off-the-shelf (COTS) or CAPS approved products including:

- Windows 2003/XP
- Cisco firewalls
- HP Protect Tools
- BeCrypt
- Trusted Solaris CMW servers messaging gateway.

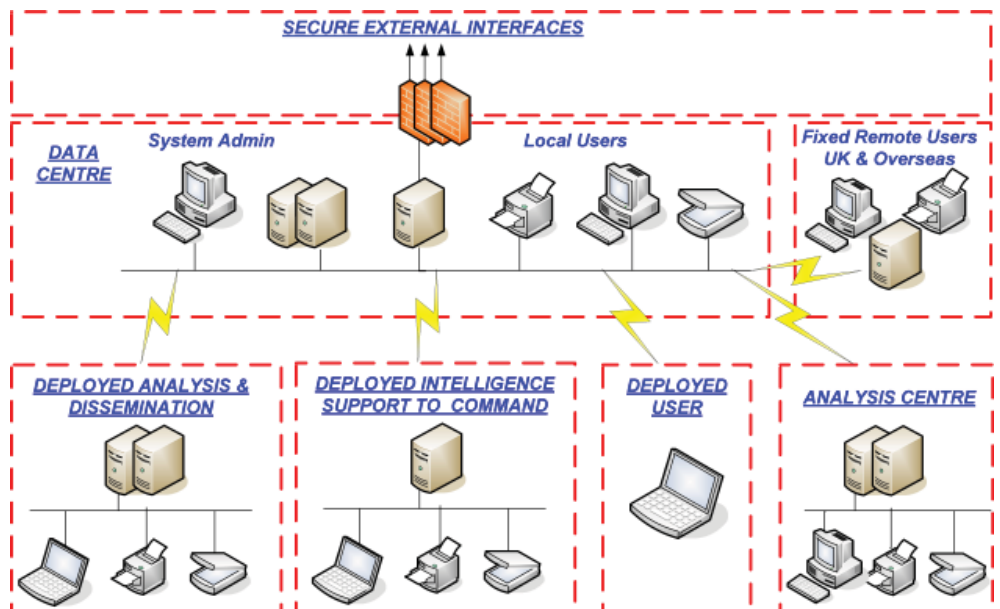
Secure labelling ensures the correct protective markings are maintained on files and printer products. The system also supports a security

controlled Import/Export (IMPEX) feature that enables secure information exchange with other non-networked systems.

In-service support

BAE Systems Insyte's comprehensive in-service support services include post design services (PDS) to provide additional systems capability or functionality to meet evolving operational requirements. At appropriate intervals periodic technology refresh is completed to ensure state-of-the-art software, hardware and communications infrastructure is provided to meet operational demands.

A comprehensive 24/7 support service including on-site support is provided by trained and cleared engineers providing essential operational backup to operational military users and maintainers.



FOR MORE INFORMATION CONTACT:

BAE Systems Integrated System Technologies Limited
Victory Point
Lyon Way, Frimley, Camberley
Surrey, GU16 7EX, United Kingdom
Telephone +44 (0) 1276 603000
Fax +44 (0) 1276 603001
email insyte@baesystems.com
www.baesystems.com/insyte

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