

Logistic Decision Support

An integrated toolset for Military Logistics Staff

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 has more than 10 year's experience providing logistics capability to British and international forces. The comprehensive range of Logistic Decision Support tools lets Logistic staff plan with confidence, giving Operational Commanders the information to make decisions and monitor the resulting situation.

Benefits

- Simplifies Task Force structure
- Automates sustainment calculation - based on forces structure, days of supply, available consumables and combat factors
- Provides comprehensive movement plan construction – covering multiple modes of transport, automatic road network analysis, convoy planning and transport regulations
- Provides schedule analysis – with transport assets available and reaction to changes
- Provides increased visibility of equipment holdings, status and location
- Provides a view of personnel location and availability
- Enables planning of logistics requirements based on current and future needs.



Optimal logistic solutions

The toolset lets Logistics staff find optimal solutions by developing and comparing multiple plans. They are based on a wide variety of force structures, transportation needs and available assets.

Operation monitoring

After the operation is fully planned and authorised it is monitored, providing enterprise tracking of the unit's equipment, commodities and personnel. The tools support personnel tracking whilst in barracks and operational, and monitor re supply requests.

Integrated toolset capability

Integrated applications cover Task Force, sustainment & movement planning, asset & personnel availability and supplies monitoring, including:

- rapid construction of Task Forces
- automatic sustainment calculations - based on planned holdings and operational tasks

- automatically plans depot re-supply based on sustainment calculations and re-supply capabilities
- supports multimodal transportation planning, including commercial, taking into account on and off road routes, vehicle capability and terrain
- supports convoy planning including fuel stop calculations, total fuel requirements and end-to-end schedule validation
- supports transport capacity planning including mixed load validation.

Support Services

BAE Systems' comprehensive support services include:

- Business modelling
- Product tailoring
- Product configuration
- Interfacing to legacy systems
- Translation
- Installation
- Training
- Maintenance
- Software upgrades.

INTEGRATED TOOLSET APPLICATIONS

1. Task Force planner simplifies Task Force construction, based on capability proven with the British Army, NATO and international customers.

Operational Task Forces are created and collaboratively refined online, within and between headquarters. The information can be retrieved by other applications. It consists of:

- Orders of Battle (ORBAT) Editor - ORBAT are created and maintained for friendly, enemy and neutral forces
- TaskOrg - Force elements are assigned to new command structures for specific missions or tasks from ORBAT Editor.

2. Sustainment planner automatically calculates sustainment estimates using the equipment holdings defined in the ORBAT and consumption rates and task based factors that are fully configurable by the user community.

3. Movement Planner application is based on Quintiq's world class commercial logistics solution and developed by BAE Systems to support military requirements.

It supports concurrent deployment and re-supply planning, enabling the planner to determine the total transportation demand.

Based on sustainment planner's calculations, re-supply planning automates the allocation of depots to deployed Unit locations and validates the required re-supply rates.

Deployment planning allows the user to geographically position Units on a task-by-task basis.

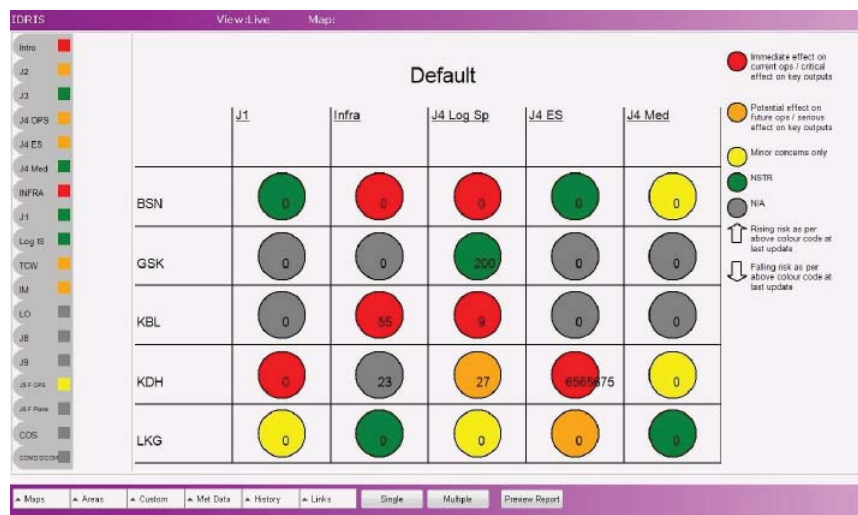
From this, the Task Force's total transport needs are automatically determined using the combined equipment holdings defined in the ORBAT and the re-supply demands.

4. Logistics monitoring application has evolved over the last 10 years and is in-service with the British Army, Royal Air Force and Royal Navy. It allows forces to monitor the status of supplies, equipment and personnel associated with an operation. The application:

- draws logistic information from underlying Transactional Logistics Systems, Reports & Returns (R2) from forward units and manual data entry
- stores information in a logistics database
- provides automated and user configurable Stateboards
- presents useful and useable information, in context
- delivers logistics situation awareness – particularly of Mission Critical Resources - allowing Operational Commanders to make informed decisions.

5. Logistics Reporting & briefing tool produces a Commander's view of the logistics status in-theatre. It was developed by logistics users participating in a live operation and is in-service with British forces. The application:

- is user-configurable and suitable for all roles, in addition to logistics
- enhances logistic situation awareness - top level 'dashboard' overview
- can drill down to increasing levels of detail (hierarchy)
- each hierarchy level has military judgement applied, based on a composite view of the preceding level and the compiling officers' broader understanding
- minimises traffic across local/wide area networks (LAN/WAN)
- allows lower levels to link to other systems for detailed data
- is portable - based on a services offering.



Top level 'dashboard' enhances logistics situation awareness

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