

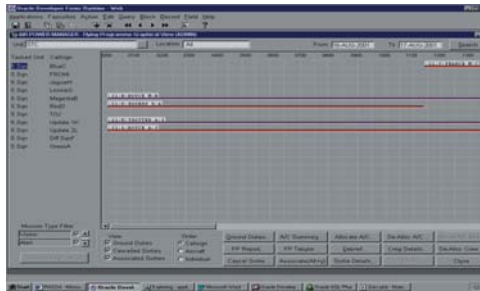
# Air Power Manager

## 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.

Developed for optimum usability Air Power Manager provides an advanced operation management system and incorporates functionality defined by users.

The intranet-enabled application uses the latest commercial-off-the-shelf (COTS) tools and runs on industry-standard hardware and operating systems.



Forms to support the generation of a flying programme

The Intranet based architecture allows future enhancements without disruption to current users. The system supports the following key tasks:

- Management of flying programmes
- Management of aircraft
- Managing personnel training and currency requirements
- Management of bases
- Recording of post-mission debrief reports.

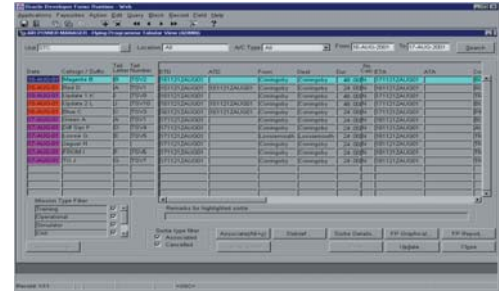
### Operational use

Air Power Manager features a distributed database system, developed with Fujitsu, running on industry-standard COTS PCs and networks. The infrastructure can be deployed to remote locations to provide sophisticated management facilities. Its architecture is both secure and flexible and can be tailored to meet individual customer requirements. These features make it possible to tailor the system for:

- Single sites
- Comprehensive facilities across multiple sites
- Coalition environments
- A specific aircraft fleet.

### Development

Prototypes were rapidly produced, demonstrated and revised incorporating feedback from operations staff and aircrews. Then they were developed into approx. 70 fully tested and deliverable system components (forms), some of which are shown here.



### Managing flying programmes

A flying programme can be constructed with various levels of detail. For example, an outline programme with just enough information for users to understand the main tasks but without the need to allocate aircraft and crew to sorties. As tasks are refined and additional sortie details become available, the flying programme can be updated and issued. The user can then 'drill down' by simply clicking the mouse over the sortie summary. Functionality includes:

- Create and maintain sorties
- Display sorties in graphical and tabular forms
- Assign aircraft to sorties
- Assign personnel to sorties
- Maintain ground duties.

### Managing aircraft

Users can view particular aircraft types in the inventory through a summary. Whether individual aircraft are serviceable is denoted by a green or red highlight and a capability filter identifies individual aircraft with capabilities to support the mission. The functionality provided includes:

- Creation of new aircraft
- Display of aircraft details
- Maintain aircraft serviceability
- View aircraft history
- Record limitations and aircraft faults
- Track aircraft capabilities
- Assign stores to aircraft
- Maintain aircraft diary.

### Managing personnel training and currency requirements

Air Power Manager's personnel area provides the ability to manage individuals involved in flying activities and aids the selection of crew for particular sorties. Sorties in this instance can be operational, training, simulator, civil, visitor or alert.

To select aircrew users can search for an individual with a particular qualification or currency state. For example, pilots proficient in air-to-air refuelling if the sortie requires it. It includes a 'look ahead' facility to warn users when aircrew qualifications or currencies need updating. This is particularly useful when planning future operations as training courses can be tailored to the needs of individuals. The functionality provided by this area includes:

- Assign personnel to command units
- Create qualification and currency requirements
- Assign qualifications to personnel
- Assign currency requirements to personnel
- Create and maintain personnel details
- Track personnel progress on training courses
- Manage currency requirements
- Create and maintain training courses.

### Managing bases

Air Power Manager supports the management of key airfield assets and allows users to make informed decisions regarding diversion airfields. This is an important safety consideration when creating a flying programme or individual sortie. This section also provides many other features that enable the efficient management of an airfield's assets, such as:

- Create command units/chains of command
- Maintain airfield details
- Maintain and display diversions
- Maintain airfield assets such as parking and runways
- Maintain locations
- Maintain airfield duties
- Create checklists and templates.

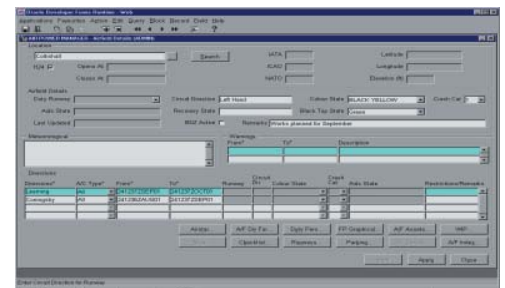
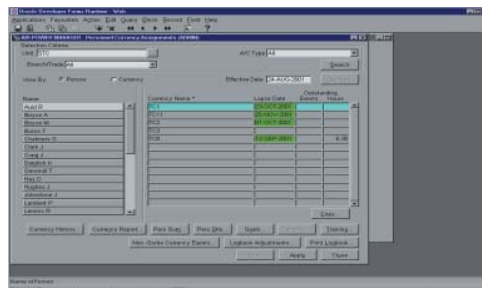
### Recording of post-mission debrief reports

Air Power Manager also supports post-mission debrief reports which also link back to and updates sortie related currency requirements. The main functionality provided includes:

- Record sortie actuals
- Maintain logbook information
- Create aircraft history information
- Allocate flying time to cost centres
- Update non-sortie related currency requirements.

### Other Features

- COTS products are used to rapidly develop functionality that allows customers to generate reports and statistics tailored to their needs
- A full help facility supports each forms in addition to context sensitive help for individual fields.



Forms to manage currency and base requirements

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