

flexible

asset management and logistics solutions



Helping the defence and maritime industries manage their assets

The Asset Management and Planning System (AMPS™) from Atos is a proven way for complex industries to keep track of their assets. By allocating resources appropriately, AMPS enhances productivity at all levels, while minimizing operational costs.

AMPS leads the field in the provision of asset management and logistics software deployed within the naval forces and operators of similar vessels, including coast guards, marine services and police fleets.

Our flexible AMPS solution delivers comprehensive logistics support via a web-based application that can be readily integrated into legacy systems. The solution can be scaled to match the requirements of any organization, enabling a tailored approach to project implementation. As requirements evolve, additional AMPS functions can be activated and interfaces to legacy systems created to ensure that the full spectrum of an asset's lifecycle details are available for cost analysis.

The modular format of AMPS enables Atos to match our approach to your specific requirements: understanding these needs allows Atos to tailor AMPS to exceed your expectations. The Atos asset management and logistics industry experts, who specialize in facilitating the best practice use of AMPS, work closely with our clients to identify and understand how AMPS will integrate into their processes.



AMPS integrated modules: tailored to your specific requirements

AMPS Maintenance

Computerized Logistics Maintenance Management Systems (CLMMS) are an important part in the lifecycle management of assets across the world: the systems allow operators to make informed decisions regarding effective maintenance practices and efficient resource allocation. The inherent auditing capability of AMPS provides evidence for the maintenance required for critical and safety related items.

AMPS Maintenance is a robust module already successful in a many sectors, including defence, government, education, aerospace, utilities and mining. It is fully integrated within the AMPS suite of products and is designed to pass operational information between various CLMMS applications.

Maritime Deployment

AMPS Maintenance can be employed by units and their associated support agencies for the purpose of maintenance planning and defect reporting.

Information such as defect notifications, job history details and stores requests can be transferred using the internal AMPS data exchange functionality: the transfer of maintenance data is automatic and requires no user intervention to ensure database synchronization between the ship and the shore.

The major functions of AMPS Maintenance include:

- ▶ Facility hierarchy for asset registry
- ▶ Standard activity templates for routine project management
- ▶ Application 'Parts Lists' for stores and maintenance enquiries
- ▶ Certified items for management of critical maintenance tasks
- ▶ Workflow to notify users of database activity
- ▶ Job requests for defect reporting
- ▶ Work package for maintenance availability planning
- ▶ Data exchange to transfer information between databases.

AMPS Supply

Inherent in any business plan concerned with inventory are the strategic goals of reducing stock, maximizing buying power, and most importantly, providing value-added customer service. The right equipment must be in the right place, on time, whether requirements are urgent or planned.

AMPS Supply delivers logistics management and forward planning capabilities to users on their desktop. It allows personnel to accurately determine the type and quantities of inventory required for better control of stock by forecasting when parts will be needed and where they need to be delivered.

AMPS Supply aids procurement by removing repetitive manual tasks, thereby freeing skilled staff to be more pro-active with monitoring the performance of suppliers.

The major functions of AMPS Supply include:

Catalogue automation

- ▶ Central catalogue
- ▶ AUSLANG/NATO compliant
- ▶ Supplier agreement and contracts
- ▶ Item/supplier classifications
- ▶ Serial number tracking
- ▶ Re-references
- ▶ Stock calibration
- ▶ Shelf-life management.

Purchasing automation

- ▶ Full EDI capability
- ▶ Supplier hit rate assessment
- ▶ Central or distributed purchasing
- ▶ Comprehensive order tracking.

Inventory automation

- ▶ Stock movements
- ▶ Auto replenishment
- ▶ Physical inventory
- ▶ Loan item tracking
- ▶ Multiple stores and bins
- ▶ Password security
- ▶ Disposal options.

AMPS Change Management

AMPS Change Management acts as a transfer mechanism between AMPS Maintenance, the AMPS documentation system and the team's central Configuration Management Tool (CMT). Its utilization allows users to raise change management requests on board, to deploy assets and transfer them to the CMT via the AMPS automatic data exchange. For simple implementations, AMPS can be configured to provide basic configuration management functionality, but a dedicated interface to CMT is the preferred solution for more complex situations.

AMPS seamlessly interacts with the CMT forming a dual-carriage data flow between the two systems: the near real time interaction ensures that the configuration baseline is updated automatically once the internal workflow processes are complete. As soon as the shoreside AMPS baseline is updated by CMT, the modification is transferred back to the originating unit automatically, without the need of any administrative or human input.

The major contents of AMPS Change Management reports include:

- ▶ Inventory management
- ▶ Technical documentation
- ▶ Equipment modifications
- ▶ Trials
- ▶ Exceptions and waivers.

D FLIS has reviewed the capabilities provided by AMPS and considers that it provides some interesting solutions to requirements needs by the UK MOD.

**Brigadier Alan Clache
UK MOD**

AMPS Mission Management

AMPS Mission Management allows operational planners to instantly view the status of their assets (vessels or similar platforms) and make informed decisions about asset assignment to specific mission types.

The AMPS Mission Management module has been designed to be used interactively between the operational headquarters, the vessels' shore support organization and the vessel itself. Mission information can seamlessly transfer between users to allow them to each contribute to the overall mission assignment function required by the operational headquarters.

Management reporting

Reporting can be used to establish which vessel is available for assignment to a mission, and identify why a vessel is not available. Reporting tools can also be used to conduct a trade-off analysis to determine which assets can be brought to an operational state, using either cost or time-based considerations.

The AMPS Mission Management process:

- ▶ Defines missions performed by an asset
- ▶ Assigns core elements of the mission
- ▶ Proportions primary elements of the mission

- ▶ Identifies the geographical area or zone where the mission may be performed
- ▶ Selects the equipment and personnel assigned to core and primary elements
- ▶ Coordinates the mission profile by start/stop date, mission type, zone, and the equipment and personnel necessary to achieve the mission profile
- ▶ Checks that the necessary stock holdings are sufficient to achieve the mission without external support
- ▶ Analyses the ability to perform the mission, using standard AMPS reporting methodologies.

A highly advanced deployable logistics management system; it enables Fleet Headquarters to better utilize assets and to optimize the resources required to provide fleet support.

**G.I. Ferguson, Commodore, RAN
Director General Maritime Support**

AMPS Personnel and Training

The AMPS Personnel and Training module enables personnel managers to record the status of all personnel, and generate reports and manning charts for specific use within the vessel. Integrated with the AMPS Mission Management module, it facilitates mission 'availability' analyses based on the status of the vessel's personnel. This facilitates the effective management of both crew members and on board visitors: special manning requirements such as replenishment, special Sea Dutymen and helicopter operations can also be determined.

Interaction with other users

The AMPS Personnel and Training module has been designed to work interactively between the shore support organization and the vessel itself. Using existing AMPS data exchange modules, personnel and training information can be seamlessly transferred between users; providing the necessary information to accurately maintain the current personnel status of the vessel.

The AMPS Personnel and Training module can:

- ▶ Determine the billet's skill requirements; including on board duties, training course requirements, loan items entitlements and leave entitlements
- ▶ Create the Scheme of Complement for an asset and assign personnel to approved billets
- ▶ Develop the Watch and Station bill requirements for each of the asset's watch requirements
- ▶ Assign personnel to duty watches
- ▶ Record a range of personnel details i.e. contact details, next of kin, mess allocation, etc.
- ▶ Conduct leave planning for each billet and manage this in conjunction with leave entitlements
- ▶ Generate management reports to determine billet qualification shortcomings
- ▶ Produce a ship's manifest that shows which personnel are on board, along with a list of visitors
- ▶ Facilitate Mission Management analysis to determine mission readiness based on the required personnel on board to perform mission functions.

AMPS Mobile

Mobile technology is enabling organizations to reduce the multiple handling of paper-based information through the immediate acquisition of data on handheld devices. AMPS Mobile enables accurate 'on the spot' transactions that are securely transferred to an AMPS database: this is achieved through either a wireless or cradle synchronization; it can also be complemented with the assurance of a bar-code asset identification system.

AMPS Mobile can assist a number of operational issues, while actively synchronizing your input to reduce the risk of data loss. It enables real-time data capture that can help to prevent the loss of information regarding defect identification and machinery readings; it also offers a structured feedback process for ongoing task updates, as well as flexible stock-taking in warehouse or loading environments.

The benefits of AMPS Mobile include:

- ▶ Simplified data-entry process
- ▶ Improved accuracy from in-situ data entry
- ▶ Easy equipment identification using bar codes
- ▶ Seamless integration with AMPS database
- ▶ Visibility of device status within AMPS
- ▶ Enhanced data capture for easier recording of minor tasks
- ▶ Improved productivity.

AMPS Mobile technical summary

- ▶ Able to operate on any Windows-based mobile device
- ▶ Can be configured for either screen or key-pad entry
- ▶ Flexible screen configuration
- ▶ User synchronization profiles established under existing AMPS administration functions
- ▶ Full security and audit capability
- ▶ AMPS transaction management
- ▶ Bar code printing.

AMPS Reporting

The spread of specialized asset management software into the maintenance and logistics industries is changing how users collect and analyze data. Dedicated reporting tools that allow users to create customized outputs from live data now form an essential complement to any database management system.

The tool is used for the interrogation of the AMPS database and can be utilized to produce customized reports, graphs and cross-tabs. It is separated into discrete administration and user layers, which allows user customization without affecting the core data model.

AMPS Reporting uses a graphical query tool which does not require any working knowledge of query languages such as Structured Query Language (SQL): all queries produce SQL statements, which are used to extract the required information from the database. It can be used to retrieve data from a variety of file formats and from database management systems, including Microsoft Access, CA Ingres and Oracle.

The AMPS Reporting tool forms an integral addition to the AMPS suite of products; it has the ability to produce user-customizable reports which may not be available within the core applications of AMPS Maintenance or AMPS Supply. All information extracted from the database is dynamically refreshed each time a particular query is launched.

Advanced features

AMPS Reporting can also be employed to perform such advanced functions as concatenations, averages and joins. In the case of multiple AMPS databases residing upon a particular network, queries can be built that sequentially retrieve data from each database to produce master consolidated reports.

The AMPS integral database reporting capability allows users to create customizable reports, format data into graphs or crosstabs, and sort and filter results. It also facilitates the automatic exchange of data between shore organizations and their deployed maritime assets, ensuring that logistics planners at all levels and locations have access to current information.

The AMPS Reporting process

Query requirements are determined, and then the database tables and attributes involved are selected to:

- ▶ Sort or filter results
- ▶ Consolidate 'outstanding' lists
- ▶ Compare estimated vs. actual cost details of completed tasks
- ▶ Add an executive button to a user layer
- ▶ Format data into reports, graphs or cross-tabs
- ▶ Collate typical queries
- ▶ Consolidate the list of materials for maintenance requirements
- ▶ Identify defect notifications recently added to system
- ▶ List of all completed stock issues for a calendar year.

Atos's accreditation and endorsements relating to AMPS

With an unrivalled reputation for excellence, Atos focuses on providing clients with practical solutions through superior support, integrated services and progressive software technologies.

Our Asset Management and Planning System is used successfully across a wide variety of business sectors and deployed in maritime and naval operations worldwide. Our clients include: the Royal Australian Navy (RAN), the Royal New Zealand Navy (RNZN), the Royal Malaysian Navy (RMN), the Royal Navy of Oman (RNO), and the Australian Customs Marine Unit.

Our qualifications include:

- ▶ AS NZS 9001:2008
- ▶ Defence recognized supplier
- ▶ Australian Industry & Defence Network Member (AIDN)
- ▶ Defence Material Organization Support Services (DMOSS)
- ▶ Member of Australian Information Industry Association (AIIA)
- ▶ PRINCE2 certified practitioners.

About Atos

Atos is an international information technology services company with annual revenues of EUR 8.7 billion and 78,500 employees in 42 countries. Serving a global client base, it delivers hi-tech transactional services, consulting, systems integration and managed services. Atos is focused on business technology that powers progress and helps organizations to create their firm of the future. It is the Worldwide Information Technology Partner for the Olympic Games and is quoted on the Paris Eurolist Market. Atos operates under the brands Atos, Atos Consulting, Atos Worldline and Atos Worldgrid.

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