



Deployable Logistics Solutions

AMPS™ Integrated Modules

AMPS™ Maintenance

Computerised Logistics Maintenance Management Systems (CLMMS) are an important part in the life cycle management of assets across the world. It allows operators to make informed decisions regarding effective maintenance practises and efficient resource allocation. The inherent auditing capabilities provide evidence of correct maintenance upon critical and safety related items. AMPS™ Maintenance is a robust module that is successful in a variety of sectors including; defence, government, education, aerospace, utilities and mining. It is fully integrated within the AMPS™ suite of products and is designed to pass transactional information between a variety of applications.

Maritime Deployment

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

tion 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 synchronisation between the ship and the shore.

Major Functions include

- Facility hierarchy for asset registry
- Standard activity templates for PM routines
- 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

Overview

AMPS™ Integrated Modules



AMPS™ Supply

Inherent in any business plan concerned with inventory are the strategic goals of reducing stock, maximising buying power, and most importantly, providing value-added customer service. The right equipment is needed to 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.

The Supply module is a key component of Siemens' Asset Management and Planning System, AMPS™. AMPS™ Supply allows personnel to accurately determine the type and quantities of inventory required for better control of on-hand stock. Its planning functionality forecasts when parts are required and where they are needed. AMPS™ Supply aids purchasing staff by removing repetitive manual tasks, thereby freeing skilled staff to be more pro-active with monitoring the performance of suppliers.

Major Functions include

Catalogue Automation

- Central catalogue
- AUSLANG/NATO compliant
- Supplier agreement / contracts
- Item/ supplier classifications
- Serial number tracking
- Re-references/ supersession
- 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™ is an essential component of the Change Management process within the Royal Australian Navy (RAN) where it is interfaced with the Team Centre Configuration Management Tool (CMT). AMPS™ change management acts as a transfer mechanism between AMPS™ maintenance and AMPS™ documentation system and the CMT. Its utilisation in the RAN allows users to raise Change Management requests on board deployed assets and transfer them to CMT via the AMPS™ Automatic Data Exchange. For low-end implementations AMPS™ can be configured to provide basic configuration management functionality, while in complex situations a dedicated interface to CMT the preferred solution.

AMPS™ ADE seamlessly interacts with the CMT forming a dual-carriage data flow between the two systems. The near real time interaction between AMPS™ and the CMT ensures that the configuration baseline is updated automatically once the internal workflow processes are complete. Once the shore AMPS™ baseline is updated by CMT, AMPS™ ADE transfers the modification back to the originating unit automatically, without the need of any administrative or human input.

Change Management reports

- 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.

Interaction with other Business units

The Mission Management module has been designed to be used interactively between the operational headquarters, the vessels shore support organisation and the vessel itself. Mission Management information can seamlessly transfer between users to allow each to 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, or, alternately why a vessel is not available for mission assignment. 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.

Mission Management process

- Defines missions performed by an asset
- Assigns core elements of the mission
- Proportions primary elements of the mission
- Geographical area or zone where the mission may be performed
- Selects equipment, personnel assigned to core and primary elements
- Coordinates mission profile by start/stop date, mission type, zone, and the equipment and personnel necessary to achieve the mission profile.
- Reviews necessary stock holdings are sufficient to achieve the mission without external support.
- Analyses the ability to perform the mission, using standard AMPS™ Reporting methodologies.



AMPS™ Personnel

Personnel and Training allows Personnel Managers to record the status of all personnel, generate reports and manning charts for specific use within the vessel. Integrated with the Mission Management module, Personnel and Training facilitates Mission Availability Analysis based on the status of the vessel's personnel.

Interaction with other Users

The Personnel and Training module has been designed to work interactively between the shore support organisation and the vessel itself. Using existing AMPS™ data exchange modules, Personnel and Training information can seamlessly transfer between users. Providing necessary information to maintain an accurate and up to date personnel status of the vessel.

Management Reporting

The Personnel and Training module is fully integrated into the AMPS™ suite and allows users to create reports to determine the status of personnel on each vessel. 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.

Personnel summary

- Determine the billet's skill requirements, 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.
- Record a range of personnel details i.e. Contact details, next of kin, mess allocation, etc.
- Assign personnel to duty watches
- Conduct leave planning for each billet and manage 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 and 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

Given Mobile technology is enabling organisations to reduce multiple handling of paper based information through the immediate acquisition of data onto handheld devices. AMPS™ Mobile provides accurate on the spot transactions that are securely transferred to an AMPS™ database. This is achieved through either a wireless or cradle synchronisation that can be complemented with the assurance of a bar coded asset identification system.

Mobile Benefits:

- Simplified data entry process
- Improved productivity
- 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

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

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 synchronisation profiles established under existing AMPS™ admin functions
- Full security and audit capability
- Transaction management is contained within AMPS™
- Bar Code printing

Mobile Functionality

- Job Request
- Job Build
- Job Feedback
- Goods Receipt
- Goods Issues
- Stock Taking
- Store Ordering



“a highly advanced
deployable
logistics
management
system enables
Fleet Headquarters
to better utilise
assets, and to
optimise the
resources required
to provide fleet
support.”

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

AMPS™ Reporting

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

AMPS™ Reporting is used for the interrogation of the AMPS™ database and can be utilised to produce customised reports, graphs and cross-tabs. The product is separated into discrete administration and user layers which allows user customisation without affecting the core data model.

The AMPS™ Reporting tool is 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 Database Management Systems (DBMS) including Microsoft Access, CA Ingres and Oracle.

Interaction with other Business units

AMPS™ reporting forms an integral addition to the AMPS™ suite of products by its ability to produce user customisable 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.

AMPS™' integral database reporting capability allows users to create customisable reports, format data into graphs or cross-tabs and sort and filter results. It also facilitates the automatic exchange of data between shore organisations and their deployed maritime assets, ensuring that ILS planners at all levels and locations have access to current information.

The Reporting process

- Query requirements are determined and the database tables and attributes involved are selected
- Sort or filter results
- Add an executive button to a user layer
- Format data into reports, graphs or cross-tabs

Typical Queries

- Consolidated Lists of Outstanding Maintenance (CLOM)
- Estimated vs. Actual cost details of completed tasks
- Defect notifications recently added to system
- A list of all completed stock issues for a calendar year

Asset Management & Planning System (AMPS™)

AMPS™ leads the Defence and Maritime Industries in deployable asset management and logistics software within Naval forces and operators of similar vessels such as coast guards, marine services and police fleets. We deliver comprehensive logistics support for deployed units via an inherent web-based application, allowing for flexible access to AMPS™ many features.

AMPS™ enhances productivity at all levels, while minimizing operational costs, by allocating skilled resources appropriately. Our solution can be scaled to best-fit the requirements of any business and its assets, allowing for a tailorable approach to project implementation. As a business' requirements evolve additional functions can be activated and interfaces to legacy systems created to ensure that the full spectrum of an asset's full life cycle details are available for cost analysis.

AMPS™ is used by a range of clients including; 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.

With an unrivalled reputation for excellence, we focus on providing our clients with real solutions through superior support, integrated services and progressive software technologies. Our industry leading software applications can be readily integrated into legacy systems, enabling cost-effective operational efficiencies to our clients. Siemens offers a range of strategic services delivered by industry experts with a sound knowledge for facilitating the best practice use of AMPS™ for the asset management and logistics industry.

Siemens works closely with all clients to identify and understand how AMPS™ will integrate into their business process. Understanding our clients' needs allows Siemens to tailor AMPS™ to exceed your expectations.

Markets

- Australia / New Zealand
- Asia
- Europe
- Middle East

Accreditation / Endorsements

- AS NZS 9001:2008
- Defence Recognised Supplier
- Australian Industry & Defence Network
- Member (AIDN)
- Defence Materiel Organisation Support
- Services (DMOSS)
- Member of Australian Information
- Industry Association (AIIA)
- PRINCE2 Certified Practitioners

About Siemens

Our world is rapidly changing due to four global megatrends – climate change, urbanisation, globalisation and demographic change. The pressures brought on by these four global megatrends can affect businesses and individuals significantly. Siemens has a portfolio of technology-based solutions to help tackle such challenges.

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The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.