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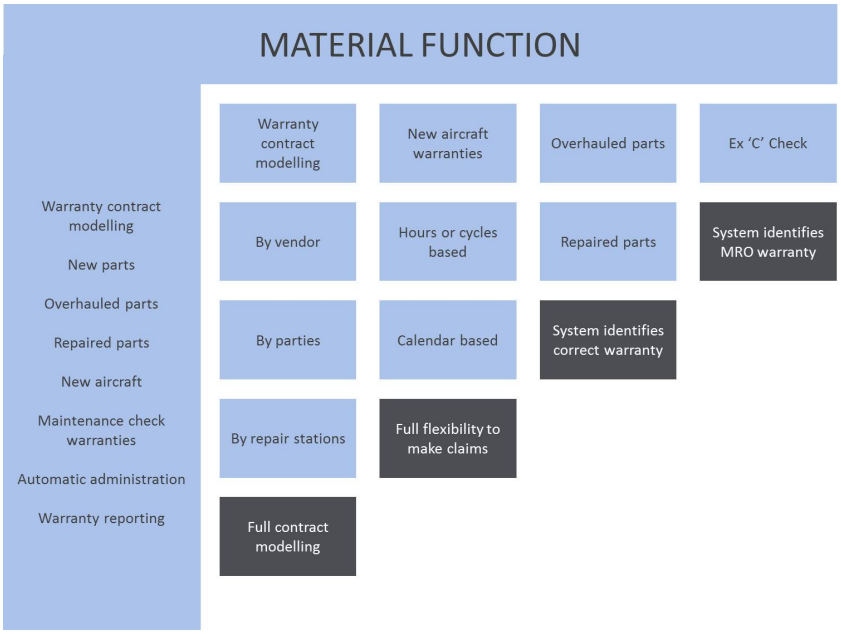
OPEN AVIATION STRATEGIC ENGINEERING SYSTEMS

MATERIAL



The **MATERIAL MANAGEMENT MODULE** is a comprehensive inventory and materials control system that is fully integrated with other OASES modules ensuring data consistency throughout all departments and facilitates and automation of key processes to produce cost and efficiency savings across the organisation. This module ensures cost effective availability of the materials required for the safe operation of the fleet whilst minimising the investment needed to achieve this.

ORDER CONTROL

The system provides facilities for the management of purchase, repair, loan and service exchange orders for aircraft parts and services (and commercial orders for non-aircraft goods and services). All the required forms including orders, serviceable tags and release documentation is produced by the system and may be automatically emailed, printed to PDF or to thermal transfer printers as required. Orders, stock and replenishment levels, batch and serial number histories are automatically updated through normal use of the system and invoice-passing routines provide flexibility, but ensure that payments are only authorised where they comply with the business rules defined by the user.

STOCK CONTROL

Stock levels are continuously monitored by the system and all costs, component locations and histories are maintained to support effective business decision making. The system can report on all stock and material values against specific works orders, stock groups, warehouses etc. The system supports use of multiple currencies and automatically applies conversions (against a customer controlled currency database) to seamlessly manage inventory bought or sold in a foreign currency.

All movements are monitored by the system and may trigger the production of re-ordering or stock transfer alert reports. Management reports are produced

Cont.

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MATERIAL

Warehouse Distribution

Whse	Available	Alternate Available	Total Available	On Pick	Alternate On Pick	Total On Pick
BBU	795	0	795	0	0	
LAX	0	0	0	0	0	
LHR	750	0	750	0	0	
MIA	0	91	91	0	0	

with respect to shelf-life control, stocktaking, stock valuation and the financial analysis of material usage.

SHORTAGE CONTROL

The system provides a fully integrated approach to the management of inventory demands and material requirements are tracked from initial creation by the end user or system function (i.e. automatically from works order creation) through each stage to completion and reconciliation with the financial accounting system.

Automatic shortage management ensures that all outstanding requirements are visible at all times. Any items that may have been pre-allocated to a planned maintenance input are still visible in the system. If a higher priority event occurs (AOG) they can be released to satisfy this demand and a new shortage will be automatically generated. This re-shortage is intelligently routed to the appropriate section giving full details of the current status of the new shortage to allow maximum time possible to satisfy this new demand.

The system automatically tracks material requirements associated with planned maintenance, modifications and defects and provides ‘traffic light’ status reports for each item in a works order.

BATCH/SERIAL TRACEABILITY

The system maintains full batch and serial number traceability and automatically updates these records as transactions occur. This provides a full audit trail enabling a user with appropriate system permissions to trace the origin, usage, repair history and current stock location of all items known to the system.

LOAN CONTROL

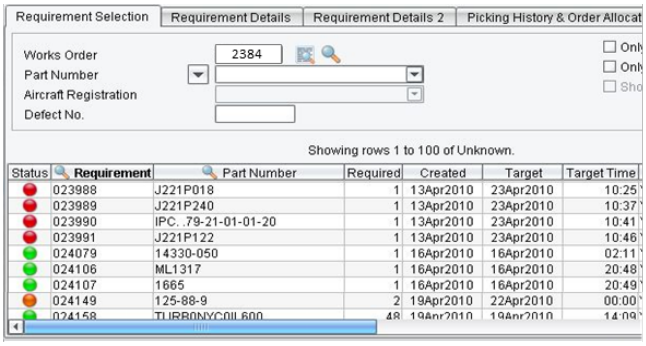
The system automatically maintains a log of all parts (loaned in or out) through the parts issued and received facilities. This mechanism allows improved control over this easily neglected and costly aspect of stores control. The system also understands multiple ownership of parts, and can automatically exchange ownership when required

STOCK VALUATION

The system can report on stock values against a large number of variables to provide accurate and timely reporting

TOOL CONTROL

The Material module also allows full control of the tooling required to carry out maintenance tasks and can issue and receipt tools to and from individual staff members. The system can also use RFID tagging to automatically issue and receipt tools into the tooling stores .and allow tools to be located in the hangar.



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