



## Air Maintenance & Administration

Airmad is a certified add-on granule for Microsoft Dynamics NAV.

Airmad® is an integrated company solution, specifically to deal with Aircraft Maintenance Administration. Being developed within the Navision environment, it is integrated with all other Navision modules. Even by partial implementation, it can fit any size of organisation as the application range is very wide and versatile. It will fit to a small operator, requiring only maintenance report status information as well as to an airline, operating with a larger fleet of mixed aircrafts from different country bases abroad, as Airmad® centralizes all the maintenance performance whatever the location is.

### Integrated Company Software

GMI group is a certified partner of Microsoft Dynamics.

We provide integrated company software which can streamline your daily processes and increase the productivity. If your company is looking for a generic company application or a specific ICT solution (construction or services), GMI group has the appropriate solution.

### Maintenance administration

The system covers the aircraft maintenance specific requirements, starting from the functional description of the aircraft, the serialized items and the function they perform. It traces these serialized items with respect to their location as well as to the maintenance they are subject to. The built in concept of a maintenance program is based on the current standards used by aircraft manufacturers.

### Administrative performance

Airmad® keeps track of the life of aircrafts as serialized items, using 3 counter criteria: flight hours (FH), flight cycles (FC) and calendar days (days). This information is on line available per individual serialized item, per individual aircraft, per aircraft model, per type, or per fleet. By application of a user defined utilization plan, it will calculate the on coming maintenance and produce the required documents to record the performance and resources on the floor. Input of these data will constitute the maintenance record as well as to produce the final invoice for each maintenance project, based upon the man-hours, consumables, tooling and spare parts per work-pack.

It can also generate the maintenance reports required from the authority.

### Maintenance tasks

The scheduled maintenance program concept in Airmad® is MSG 3 based (Maintenance Program Developer Logic) and as a consequence consists of a list of tasks. Amongst other features the task definition will comprise a reference to the aircraft function it bears upon and differentiate between tasks, applicable to serialized items and tasks, applicable to systems proper to the aircraft. The application range is specified per aircraft type, model and position on the aircraft. To assist the organization of maintenance planning, Airmad® allows tasks with related intervals to be grouped or combined more efficiently into inspections or group tasks.



**GMI group**

Zaventem +32 2 757 91 09

Herentals + 32 14 28 30 10

Gent +32 9 232 34 13

[www.gmigroup.be](http://www.gmigroup.be)

### **Outstanding Maintenance**

The system keeps track of the daily production on each individual aircraft as well as on the maintenance performance. As the periodicity of the scheduled maintenance is defined in the task definition, Airmad® computes for you the forecast of the outstanding scheduled maintenance work volume, taking into account a number of user-specified parameters.

This forecast is to be processed in the planning department into appropriate work-packages, supplemented with a selection of additional tasks from the outstanding non-scheduled maintenance.

### **Part tracing and tracking**

At any time Airmad® keeps track, not only of the internal part movements (from the shelf onto the aircraft and vice versa) but also of the external movements from the shelf to the several specified workshops or certified third parties. Parts availability is based on shelf inventory.

Returning from those shops, all shop findings are recorded and analysis reports are made available.

Airmad® allows you to track all parts that are mounted to or combined into assemblies, reducing drastically the workload recording their removal and/or installation.

### **Reporting facility**

Besides being able to generate reports and documents required by the regularly authority, Airmad® provides you with a range of management reports, including reliability monitoring.

The Problem Reporting Facility allows you to troubleshoot efficiently through the integration of PIREPS, MAREPS, and Aircraft Technical log entries.

### **Resources**

The amount of time, the tooling, the usage of parts and the consumables, specified by execution of each maintenance work pack is recorded on the material-list. Price settings are required on hour rates or on individual cost. Several categories of manpower can be considered .

Each of the items is calculated in the defined currency and project billed per aircraft.

### **Database detail**

By application of data filters and reports, Airmad® provides you with all kinds of information, analysis and forecasts on very detailed level. Any overview on line or on hard copy is available.

Due to the various possibilities to manage all aspects of the control system of the maintenance program Airmad® is giving you all the support you need to meet national and international regulation requirements (such as ISO 9002.) for tracking and tracing purposes. On top, Airmad® aims to meet client requirements on information, cost, quality and justification of your maintenance performance.

### **Integration to Navision**

Several functions of Airmad® are integrated with Microsoft Business Solutions-Navision. The Purchasing & Payables functionality is seamless integrated and therefore it is also possible to manage the inventory and the warehouse with Navision. Of course, the integration with the Navision accounting is performed.



### Granule Description

Modules	Description
<b>Basic AirMAD</b>	In this module the user can set-up all basic elements such as: Management of basic data Set-up and Activation of the different modules Set-up to map locations for export- and import ... Prerequisites: Navision Foundation Layer en General Ledger Basic
<b>Unscheduled Maintenance</b>	In this module the day-to-day defect reports of an aircraft are registered en managed. The registration and management of flyinghours, aircraft cycles and so on are also functions of this granule.  Prerequisites: Basic AirMAD, Planning
<b>Planning</b>	This module generates work-packages based on the specifications of the unscheduled and scheduled maintenance functions.  Prerequisites: Basic AirMAD
<b>Scheduled Aircraft Maintenance</b>	The mandatory maintenance of the aircraft can be managed with this granule. An aircraft is defined with all its logical parts and for each logical part, maintenance tasks can be defined. These tasks will be activated depending on the type of aircraft.  Prerequisites: Basic AirMAD, Planning
<b>Scheduled Component Maintenance</b>	In this module all the aircraft components with the mandatory maintenance are defined and managed. For each component, which has a unique serialnumber, the full lifecycle logging is done and all movements are managed. Examples of movements are: From and to an aircraft From and to a (repair) shop Introduction on an aircraft Assembly ... Prerequisites: Basic AirMAD, Scheduled Aircraft Maintenance
<b>Inventory &amp; Purchasing Link</b>	In this module (will be general available in January 2005) the link between AirMAD and the standard Navision Inventory and Purchasing modules is realized. All AirMAD movements result in registration in the inventory system of Navision. Components can be purchased, loaned, repaired, returned, send, aso  Prerequisites: Scheduled Component Maintenance, Unscheduled Maintenance, Appropriate Navision granules
<b>Job Link</b>	With this module all maintenance activities on an aircraft can be planned. Each task is a kind of small project with a pre- and after calculation. Based on this information the user can make better time- and cost estimations for future maintenance tasks.  Prerequisites: AirMAD full (except Inventory & Purchasing Link)



GMI group

Zaventem +32 2 757 91 09

Herentals + 32 14 28 30 10

Gent +32 9 232 34 13

[www.gmigroup.be](http://www.gmigroup.be)

Voor inlichtingen over ons volledig aanbod: surf naar [www.gmigroup.be](http://www.gmigroup.be)