



MRMS by AirIT
Mobile Resource Management System

Managing Mobile Resources

Optimizing the Quality of Handling Services

Accompanying the expansion of the air traffic market is a marked increase in expectations for quality airport services in the apron area. As the density of air traffic volume intensifies, so too do the demands made on resource allocation managers. Subject to intense time pressure, they are required to coordinate the deployment of vehicles and heavy equipment, such as boarding walkways for aircraft handling and clearance, and they need to react quickly to alterations to schedules.

Erroneous decisions can result in costly delays. To help scheduling managers maintain an overview of current and expected resource allocations, AirIT has developed the *Mobile Resource Management System (MRMS)* that makes a significant contribution to enhancing the quality and efficiency of airport handling services.

Stress Free Decision-Making Process

MRMS is a turnkey solution that will provide scheduling managers the essential support needed for the efficient deployment of vehicles and heavy equipment within the range of flight-related services. In contrast to the conventional and still widespread stand-alone solutions, **MRMS** is characterized by its open architecture. Easy to learn and use, **MRMS** facilitates the link-up to databases within the central database system and existing operational subsystems.

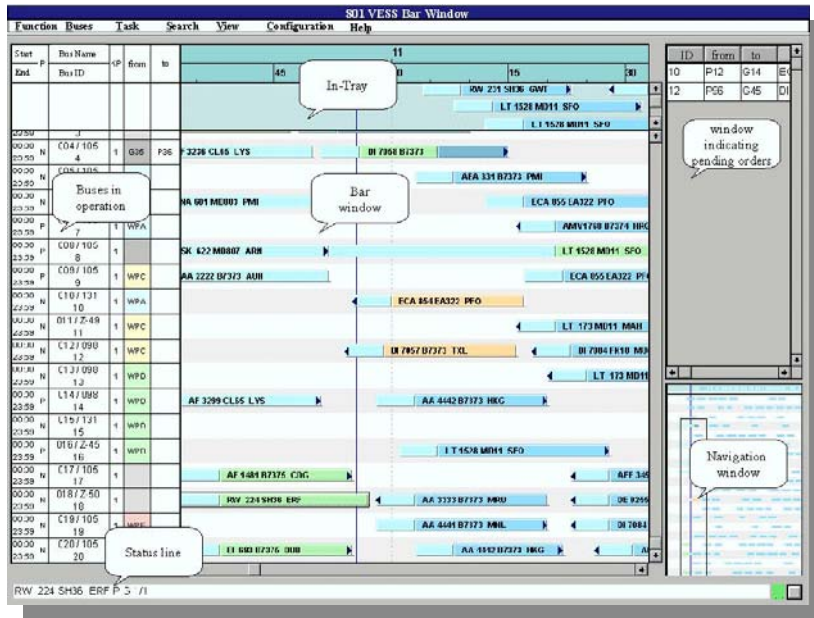
The efficiently designed graphical user-interface provides scheduling managers with an overview of the heavy equipment deployed by displaying all resource allocations in clear and systematic Gantt style bar charts. Any changes can be entered by simply dragging and dropping the "resource" on the chart.

A bar chart is also used to facilitate the processing of orders. A chart displays the status of each order using a color code, helping to ensure that orders are executed on time.

To address the specific conditions faced by the scheduling manager at an airport, AirIT has incorporated functionality to streamline the decision making process. **MRMS** automatically proposes potential order allocations that can be accepted with or without minor modifications. In choosing one or more scheduling proposals, the scheduling manager is assisted by the display of capacity utilization curves that illustrate the current and proposed resource allocation situations.



Because it is linked to relevant databases in the airport's system architecture, **MRMS** automatically registers information updates from the central database, as well as scheduling changes entered by other **MRMS** operators, updating the information displayed at each workstation. The multiple manual inputs usually associated with standalone solutions become unnecessary, leaving the operator more time to focus on the key decisions and tasks.



MRMS at a Glance

→ With **MRMS**, AirIT has developed a vehicle scheduling system that, by virtue of its open architecture, can easily be integrated into diverse environments and modified to suit future changes. This design minimizes upfront development costs and serves to ensure long-term protection of investments. **MRMS** is the ideal solution for all aircraft handling service providers required to efficiently schedule the deployment of vehicles and heavy equipment and maximize existing capacity.

MRMS is equipped with the following features:

- Modern Client/Server architecture and multiple scheduling-manager concept
- Familiar and user-friendly graphical user-interface
- Systematic displays (e.g. flight schedule display, utilization capacity charts)
- Advanced planning of resource allocation and expansion of the scheduling horizon over the entire day

- Conflict identification
- Supports scheduling managers by proposing feasible solutions
- Online connection to the central database and automatic update of all connected clients
- Interface to other AirIT solutions (e.g., PROPworks® Property & Revenue Management System)
- Processing of the performed handling services/special services in the billing system
- Can be integrated into existing and legacy system environment
- Connection to data radio or paging systems for transmitting work-orders.

References

The **AirIT MRMS** is deployed in Düsseldorf as a system for scheduling the deployment of buses.