



CORTEX RMS

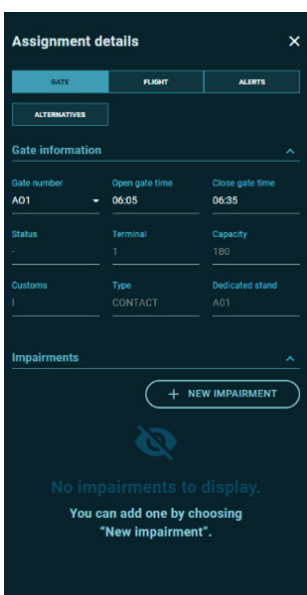
AI-Driven Resource Management for Sustainable Growth

Careful management of resources is required to balance capacity with demand in a fast-moving airport environment to meet the challenging dynamics of industry standards and customer preferences.

The consumption of extra resources resulting from inefficiencies or disruptions can impose significant operational and environmental costs while stifling opportunities for new revenue streams for airports and airlines. This calls for an innovative approach to resource management which contributes to smart, informed decision making and execution.

Developed in collaboration with experts from some of the world's busiest airports, ADB SAFEGATE's Cortex RMS allows airports and airlines to plan, control and optimize the use of expensive and in-demand assets such as aircraft parking stands and gates, as well apron vehicles, towing and ground support equipment.

HOW DOES CORTEX RMS WORK?



1

Provides seamless integration of data across technologies to meet operational changes in real time

AI assess situations in real time, takes appropriate actions and/or offers alternatives for an operator to acknowledge and accept as the plan

2

3

Offers capacity forecasting based on 'what if' scenarios for best practice to reduce costs and optimize revenue streams

Multifaceted situational awareness approach uses autonomous alerts and conflict management to improve safety and productivity

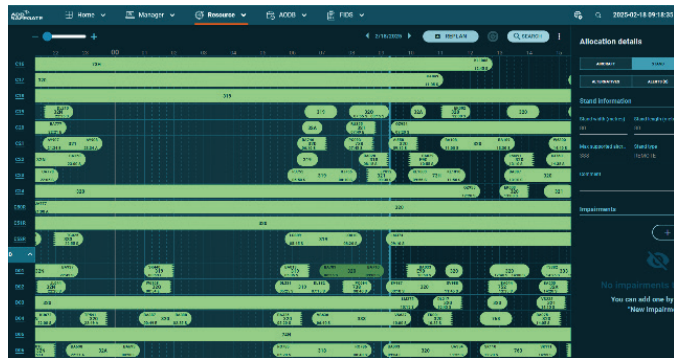
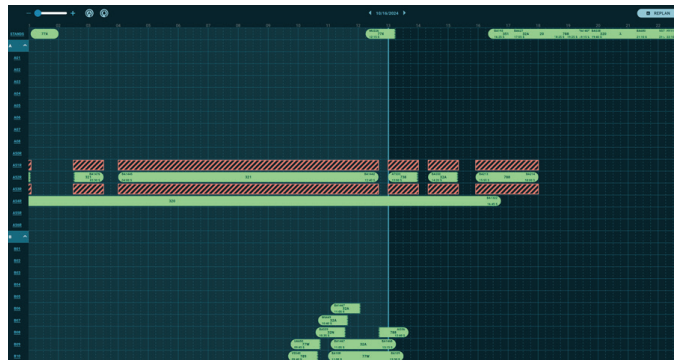
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Enables KPI-focused resource planning and allocation for sustainable capacity management and growth

KEY FEATURES AND BENEFITS:

- Optimization of available resources
- Extensive automation of day to day and normal operational work frees up resources to focus on more complex scenarios
- Visual representation of allocated resources across a period
- Ability to see the impact of changes
- Warnings of allocations that causes clashes/impact based on defined rules
- Rapid reallocation of resources in the event of issues
- Advanced planning of special events
- Ability to create what-if scenarios



RMS is made up of multiple, independently deployable modules to support airport operations

Stand Planner

Supported by a comprehensive rule engine, algorithms automatically plan the allocation of aircraft to suitable parking positions the day before operation and are actively monitored for any changes in the schedule which may cause problems. An aircraft (and its resources) will be automatically reallocated to a different parking position if the problem can be resolved. There is support for MARS stand, towing between stands as well as planned and unplanned impairments.

Gate Planner

Working alongside the stand planner the Gate Planner planning algorithm uses a combination of aircraft parking allocation, hard rules and preferences to plan the allocation of passengers to suitable boarding gates at an airport. Passenger boarding gates are automatically allocated in response to aircraft parking positions as well as updated if any changes happen to the original plan.

Baggage Reclaim Planner

The Hard rules and a penalty points system supports the automated allocation of flights to reclaim belts factoring in passenger numbers and the capacity of each belt as well as usage duration. Multiple flights are supported against a single belt.

Check-In Planner

The check-in planner, powered by a rules engine capable of handling a broad range of use cases, optimises the allocation of flights to desks. It accommodates various scenarios including passenger class, single or multiple flights and other combinations, as well as supporting other resources such as bag-drops and self-service kiosks.

CORTEX RMS is part of ADB SAFEGATE's Airside 4.0® strategy and suite of software solutions bringing digitalization and intelligence to airport operations.

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