

Aerios

Airport Management System (AMS)

A modern Airport Management System that connects every operational function into a single intelligent platform. From flight management and resource allocation to real-time information display, Aerios enables airports to operate with greater efficiency, visibility and control.



From schedules to screens. One platform.

Built with a cloud-native architecture and designed for airports of all sizes, AERIOS replaces fragmented systems with one integrated operational ecosystem — a single source of truth from schedule publication to the display screen.

01

Airport Operational Database (AODB)

The single authoritative database for flight schedules, operational updates and airport events — every stakeholder works from the same real-time information.

02

Resource Management System (RMS)

Automated planning and allocation of gates, stands, counters and belts — preventing conflicts and maximising utilisation.

03

Flight Information Display System (FIDS)

Accurate, real-time passenger information across the airport through a centralized and intelligent display management platform — extended beyond the terminal by APIs for web and mobile FIDS and an embeddable widget for the airport website.

Airport Operational Database (AODB)

Aerios AODB consolidates flight schedules, operational updates and airport events into a single authoritative database, ensuring every stakeholder works from the same real-time information.

FEATURES

- Flight Schedule Management
- Seasonal & Daily Schedules
- Real-Time Flight Tracking
- Operational Status Management
- Aircraft Movement History
- Delay & Diversion Management
- Multi-Airline Support
- Audit Logs & Change Tracking
- Role-Based Access Control
- API Integration Framework

Seasonal Schedule Management

Plan and manage IATA summer and winter schedules with complete version control and validation.

FEATURES

- SSIM Import & Validation
- Seasonal Schedule Management
- Schedule Version Control
- Bulk Schedule Import & Export
- Schedule Conflict Detection
- Daily Schedule Generation
- Historical Schedule Archive

Active Flight Management

Monitor arrivals and departures from schedule publication through aircraft turnaround and departure, providing airport operators with complete situational awareness.

FEATURES

- Arrival & Departure Monitoring
- Aircraft Turnaround Management
- Flight Timeline
- Rule-based Flight Status Control
- Manual Overrides
- Milestone Tracking
- Delay Reason Management
- Operational Alerts
- Historical Performance Analysis

Airport Profile & Resource Registry

Maintain a comprehensive digital profile of the airport and all operational resources.

FEATURES

- Airport Configuration
- Terminal Registry
- Runway & Taxiway Registry
- Aircraft Stand Registry
- Boarding Gate Registry
- Check-in Counter Registry
- Baggage Belt Registry
- Custom Resource Types
- Resource Attributes & Metadata
- Resource Lifecycle Management

Stakeholder Registry

Maintain centralized information for all operational stakeholders.

FEATURES

- Airline Registry
- Ground Handling Agency (GHA) Registry
- Operational Contacts
- User & Organisation Mapping

NSOP Registry & Billing Support

Maintain localized No Schedule Operating Permit (NSOP) records to support operational validation and billing reconciliation.

FEATURES

- NSOP Registry
- Flight-to-NSOP Mapping
- Permit Validity Tracking
- Airline-wise Permit Records
- Audit History

Reference Data Management

Standardized aviation master data maintained in a single repository.

FEATURES

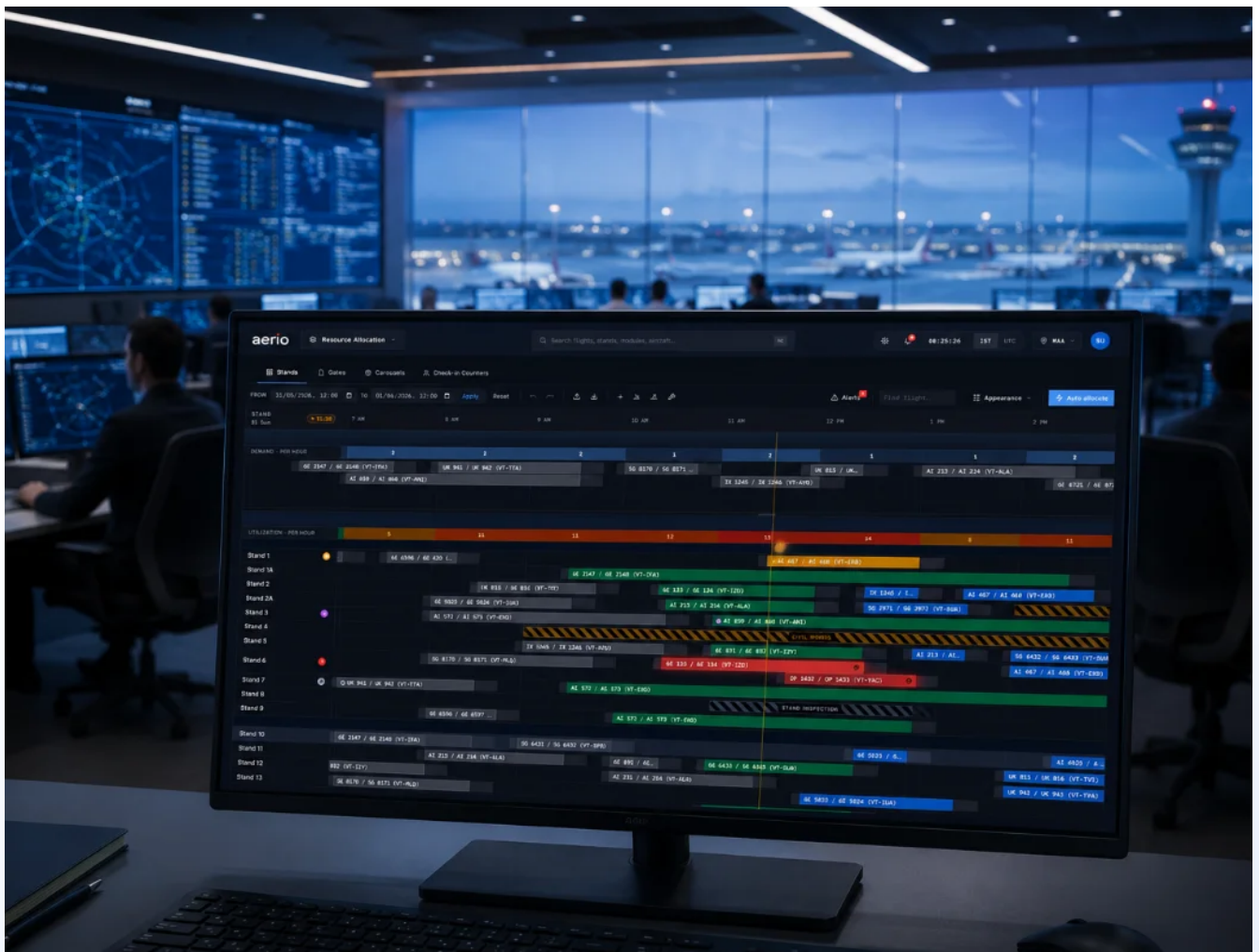
- ICAO & IATA codes for Airports, Airlines, Aircraft types
- Aircraft Registration Database
- Flight Status Codes
- Delay & Diversion Codes
- Time Zones Management
- Configurable Reference Tables
- Bulk Import & Export
- Complete Audit Trail

Resource Management System (*RMS*)

Automate planning and allocation of airport resources while preventing operational conflicts and maximising utilisation.

FEATURES

- Rolling Gantt-view per resource
- Intelligent Resource Allocation
- Gates, Stands, Check-in Counters & Baggage Belts
- Rich Airport Resource Registry
- Custom Resource Types & Attributes
- Rule-based Allocation Engine
- Automatic Conflict Detection
- Manual & Assisted Allocation
- Resource Downtime & Maintenance Management
- Planned & Unplanned Resource Blocking
- Allocation Permissions & Approval Levels
- Resource Availability Calendar
- Resource Utilization Analytics
- What-if Planning
- Role-based Access Control
- Complete Audit Trail



Flight Information Display System (FIDS)

Deliver accurate, real-time flight information across the airport through a centralized and intelligent display management platform. Aerios FIDS combines flight information, digital signage, advertising and content management to create engaging passenger experiences and ensuring operational consistency.

FEATURES

- Flight, Check-in, Gate & Baggage Display Management
- Screen Registry & Health Monitoring
- Uptime Monitoring & Failure Alerts
- Advertisement Campaign Management
- Digital Content & Media Library
- Playlist & Content Scheduling
- Airline Brand Management
- Dedicated Check-in Display Templates
- Rich Drag-and-Drop Template Editor
- Custom Ticker Messages & Announcements
- Flight-based Display Filtering
- Multi-language Support
- Zone-based Display Management
- Real-time Flight Synchronization
- Centralized Display Administration
- APIs for Web FIDS & Mobile Applications
- Embeddable Web Widget for Airport Websites



Operate with greater efficiency, visibility and control.

Part of the Aerios Airport Operating System — one integrated operational ecosystem.



GET IN TOUCH

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