

FLIGHT SLOTS MANAGER



With decades of expertise in conceptualizing, planning, building, operating and maintaining mission-critical systems and solutions, CMC Limited has come out with another state-of-the-art solution, this time for Airport Management Companies/Authorities, viz. Flight Slots Manager.

This software is ideally suited for Airport Infrastructure Companies or Government bodies who are involved in allocation of slots at airports for scheduled/unscheduled aircraft movement. This software, being web-based achieves best-of-the-breed functionality with simple, easy-to-implement architecture and still provides tremendous value to the end-user. It also assists the users in managing multiple airports from one location, providing multi-location view on parking slots allotment and management.

The software, which strongly augments one of the most important revenue functions of an airport operator, in fact helps the management to realize higher revenues with optimum capacity utilization of airport infrastructure.

With little customization involving airport data, usage patterns and business model, this software is designed to provide immense utility to the Airport Authorities world over.

Detailed Functionality

The Flight Slots Manager (FSM) application is designed to facilitate the Operations and Air Traffic Management functions to allocate flight slots according to flight operator's requests. The software works on a simple premise of availability of Airport Infrastructure for the slot request in terms of Runway, Airspace, Apron, Terminal, Aircraft Requirement etc. Based on various constraints and operating principles, the system allocates requested slots to airlines. It dynamically checks the availability of resources for every flight request and raises alerts if the violation occurs for any resource. It also consolidates information centrally for MIS purposes.

The FSM has provision for collection of data from various flight operators for requirements related to flight slots directly as well as through email and online request form. These operators can also see the status of the filed requests and reasons in case of rejection of the filed requests.

It also includes configuration of master information for Airport, Airport Watch hours, Apron, Apron Closure, Terminal, Passenger Models, Air routes, Exit points, Runway, Runway closure, Aircraft and Airline Operator. The allocation of flight requests is done by monitoring the resource utilization through graphs and Alternative Offers generation in case of violation caused. The system also provides for reports like final scheduled data and NAC charts.

Some Important Features

- ✚ A truly web-based application using 3-tier architecture and providing ease-of-access along with data security and integrity.
- ✚ Information capture about Flight Slot requests from flight operators and automatic allocation of slots against requests.
- ✚ Provision for capturing periodic changes in flight slot allocated timings requested by airline operators and enabling feasibility check of each such request.
- ✚ Provision for nearest possible alternate offers to airline operators if the requested slot cannot be accommodated due to unavailability of resources.
- ✚ Adopt business rules (Models) for calculation of passengers that a terminal building can accommodate at a particular time. The estimation is carried out every 5 minutes to see that the passenger infrastructure is used optimally.
- ✚ Software employs the latest security technologies including PKI and digital signatures to authenticate the airline users. Authority users access the system through secured intranet.
- ✚ Provision to capture requests received on e-mail automatically after due validation.
- ✚ Various graphical outputs depicting various flights operating in a particular period.
- ✚ Capability of generating various reports for effective decision-making and MIS purpose.
- ✚ Flexible Graphs to show resource optimal utilization and showing violation of resources in different color combination.

- ✚ Recycle bin features for deletion and restoration of information.
- ✚ Runtime Local time to UTC conversion and vice versa.
- ✚ Generation of Flight NAC Chart.
- ✚ Separate display for scheduled and unscheduled data with proper violation in predefined color.
- ✚ Flexibility to un-schedule data so that each user can simulate its own scheduling process.

Business Benefits

- ✚ Ease of use for all stakeholders including user airlines
- ✚ Integration Readiness with critical systems such as Air Traffic Control and Airport Commercial Management
- ✚ With dynamic allocation and host of other features, possible to optimize infrastructure utilization, leading to higher productivity and more revenues
- ✚ Very low investment points, making break-even quicker
- ✚ Support and upgrades to keep the operations at same level of efficiency through technological innovations

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