

IRMAO™ (Integrated Resource Management for Airline Operations) is an integrated resource planning, management and tracking system for airline operations. IRMAO™ address the needs of Flight Operations division to manage Cockpit Crew and Cabin crew for management of Licensing and Training records, generation of Rosters, handling of Rosters on day to day operations and the payment activities. IRMAO™ is highly configurable and modular product. Various kinds of business rules and parameters can be configured by end users. IRMAO™ is powered by Sankhya's resource optimization engine DRAE© (Dynamic Resource Allocation Engine). DRAE© is built on Operations Research scheduling algorithms for maximization of resource utilization. IRMAO™ has web interface and mobile interface for increased accessibility and usability of the system.

Features

- Manages Crew Personnel, Training and License records
- Generates Rosters that minimize cost while optimally utilizing Crew
- Even and fair distribution of work loads to Crew
- Provides Real-time Crew position information
- Comprehensive What-if analysis
- Decision Support System integrated with Artificial Intelligence (AI) capabilities
- Numerous ways for two way notification between Roster section and Flying Crew
- Consolidated payment processing for the crew allowances
- 3-tier architecture based
- Internet/Intranet Enabled
- Has Web and Mobile module for accessing roster and other information
- Separate access levels for changing hard rules and soft rules

Benefits

- Increases overall Crew morale and employee satisfaction
- Planners can get Crew shortfall reports based on fleet, Rank or base
- Managers can track the system for various versions of roster
- With single time data capture methods, operators can save time to performing various activities
- Operators can quickly retrieve crew information and flight details
- With email, and SMS notifications, crew can be notified automatically by the system
- Managers and Crew can access the roster in real-time
- Variety of MIS reports provide what-if scenarios and decision support to Roster managers



IRMAO™



Innovations for a SMART future

IRMAO™

Technical Description

IRMAO™ 3.0 functions include:

- **Training System** has complete tracking of cockpit crew and cabin crew training records keeping and training assignment. It manages crew licenses and the validity. This module notifies all the dues for each crew to the other modules and operator.
- **Roster System** generates roster for a given period of time for both cockpit crew and cabin crew. It is powered by Sankhya's resource optimization engine DRAE® (Dynamic Resource Allocation Engine). The roster generation process is fully automated and is rule-based.
- **Payment System** caters to all the requirements of crew payments and allowances. It interacts with training system and roster system to generate consolidated payment slips for the crew.
- **Day-to-Day Roster Management system** is the operational control system where the operator can manage, track and edit the roster on actual implementation. It has comprehensive what-if scenario builders and powerful decision support system to assist managers and operators
- **Web & Mobile Roster** provides seamless access to the real-time roster records for the crew and operations people from anywhere - anytime.

Requirements

- **Windows Server 2000 or above**
- **IIS 5.0 or above**
- **Oracle 8 or above // OR // SQL Server 2000**
- **IE 6.0+, Netscape**

References

Aviation industry references on request.

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