indra

In**BASE**

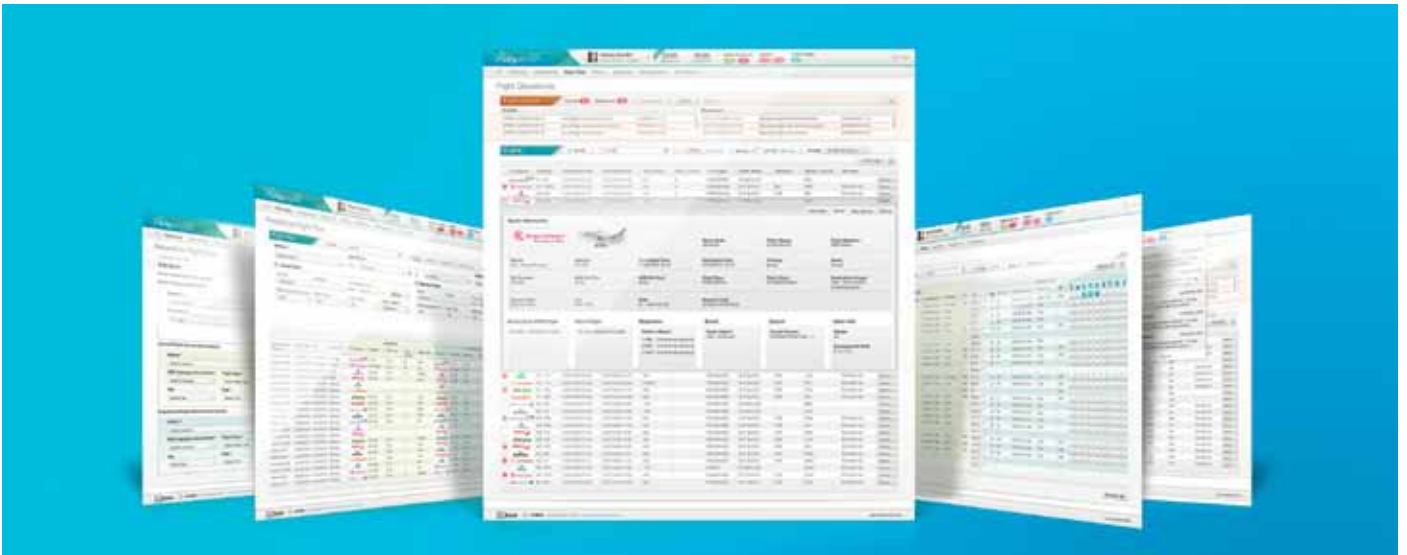## CENTRALIZED MANAGEMENT FOR SINGLE OR MULTIPLE AIRPORT

Airports

Indra is the leading IT Spanish company and one of the top five ATM systems suppliers all over the world. Indra knowledge and its products portfolio reach all different areas at both air and land processes supporting all stages at the air traffic management business.

This knowledge, consolidated with the experience acquired along the last 30 years, has enabled Indra to create a new paradigm, called INairport, about how IT supports the airport information needs.

Airport is a suite of products that compiles all the know-how in both operational and technical environments accumulated with the references in ATM and airports.

Aircraft management and the information related to the operations is required by basically every system or stakeholder, and it is important to ensure coherence on such information management across the entire airport.

As part of the responsibilities within the airport paradigm, In**BASE** serves as the operational processes governor, information manager and repository maintenance, facilitating the data exchange with external systems and centralizing the applicability of operational improvements. In**BASE** is destination of all operational information generated manually or automatically by external parties, as well as the source for any valid information for every stakeholder at the airport.

In**BASE** Main Features and benefits

In**BASE** integrates the most advanced concepts conceived at international standardization forums, powering scheduling and real-time operation phases to ensure a robust and smooth performance of operations taking place at the airport. Indra In**BASE** product supports any deployment, local, centralized or cloud, catering the operational requirements of all sizes of airport.

• Fully customizable system to your specific airport management requirements.

• Automatic support of operational procedures for A-CDM implementation.

• Application loosely coupled with the supporting technology, capable to be deployed in a variety of HW (Intel, IBM, Oracle...), Operating System (Linux, MS-Windows, Solaris, HP-UX...) and leading databases including Oracle, MySQL and Postgres

• Global integrated management of all the operational environment and its relationships with other areas in the airport.

• Customized integration with all external systems at the airport trough Integration Broker infrastructure, which increases the level of automation of the aircraft process. Implementation of a variety of formats (IATA, AIDX, XML, etc) and information exchange technologies from legacy protocols until SESAR and ACI best practices

01 Resource Management System (RMS)
02 ATC Systems
03 Aeronautical Billing
04 Flight Information Display System (FIDS)
05 Collaborative decision making (CDM)
06 Infraestructure Systems
07 Airports Systems
08 Airlines

Functional characteristics

Flights Scheduling
• Seasonal operations scheduling management
• Import airlines schedules from SSIM files

Planning of operations
• Automatic rolling out of schedules into operational flights
• Manage flights to prepare information before real time operation

Reporting
• Allow the user to generate reports, configuring an initial filter for the presented information
• Possibility to export reports to PDF, XLS, CSV, ...

Management of operations in Real time
• Performance of all operations management functions both manually or automatically through integration with external systems
• High configurability about the functions and information to be accessed (or updated) by every user
• Alarms detection according to the aircraft process execution and performance

Historical information
• Access to all flights historical information Possibility to check all modifications over flights

Airport operational entities management
• Management of all global (airlines, aircrafts...) and local (resources, handling agents...) entities, enabling its integration with external systems

Billing
• Compilation of all billable information from the use of airport resources, services provided and operation characteristics (passengers, cargo, airbridge, 4400hz, fuel, bus... etc)
• Continuous data synchronization with ERP system for invoices generation

Experiences

Indra developed Aena's centralized AODB its In**BASE** as the corporate airport management system for Aena, which is the world's largest airport operator with a network of 62 airports distributed around Spain and Latin America. In**BASE** is in operation in 47 of Aena's airports and functions in both remote and local operation.

Outside Aena, Indra In**BASE** has been successfully deployed in important airports like Murcia and Castellón in Spain, and foreign countries like Kenya covering operational needs at Jomo Keniatta and Mombasa international airports.
Looking to the future, Indra participates on main international standardization and evolution forums about Air Transportation market, leading all the works related to the systems evolution within airports at SESAR program.

Associated services

• Design and consulting services at both operational and technical contexts
• Product adaptation, so it can be customized and adapted to fulfill any specific airport requirements Integration with external systems.
• Deployment
• Training, Testing & Commissioning
• On-site, Off-site Support and Maintenance
• Product new versions updating service, with no additional cost if Indra is maintenance provider

AIRPORT

CLOUD

MULTI-AIRPORT