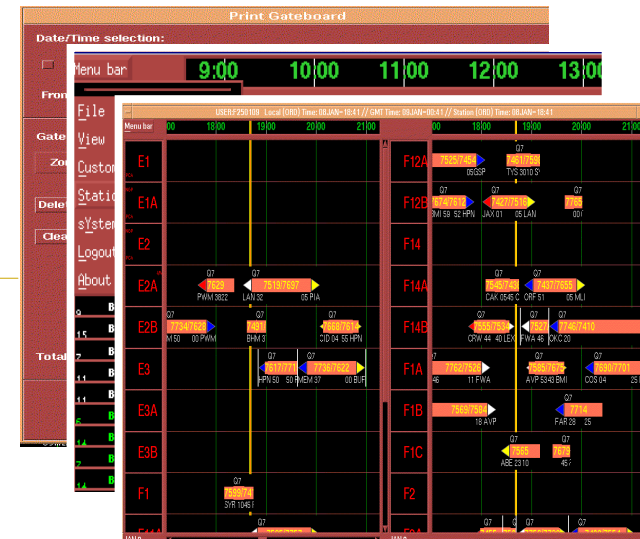
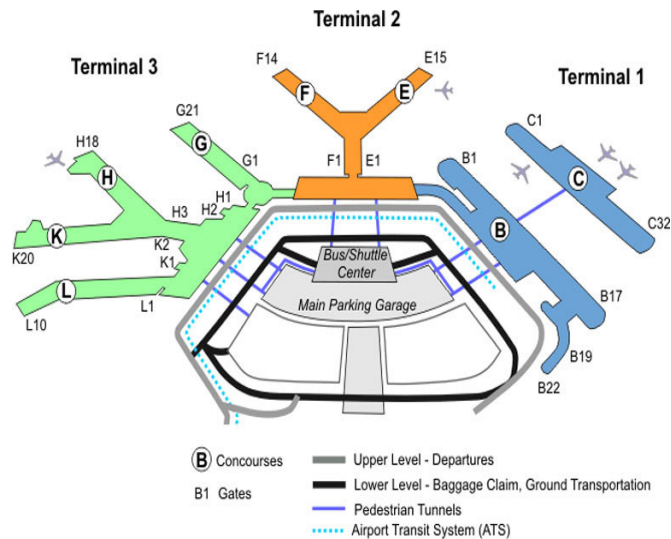


Case Study



Gates Assignment and Planning

The Business



Gates Planning

- Airlines, which own the airport terminals at their hubs, as well as the airports face the challenge of planning their gates according to the schedule.

Gate Assignment

- In case of real time data on the day of operations, it becomes imperative to use a tool which facilitates automated gate assignment within the constraints of equipment type, turnaround time and activities

Gates Planning

- Support Station Control Centers with their long term gate planning
- Optimization algorithm runs in the backend to automate the allocation of gates for flights

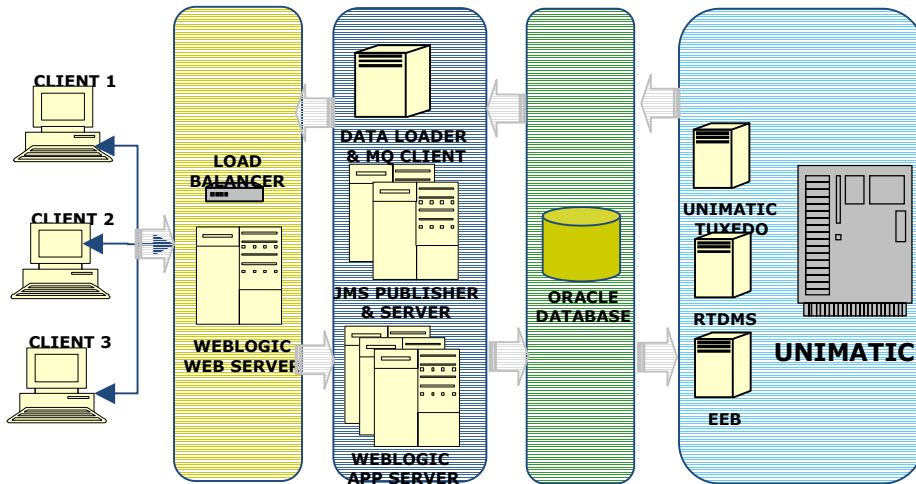
Gates Assignment

- Supports Station Control Centers for their daily operations
- Displays real time information and status of flights at various gates of an airport
- Helps supervisors coordinate allocation of available station resources with the flight activity

Challenges...

- Downward trend in ground handling productivity due to inefficient gate planning
- Potential loss of revenue for airports due to unplanned gate allocation
- Optimization of block time not possible
- Handling of IROPS becomes challenging
- Higher fuel burn

Application Highlights



Technology

OS : HP-UX 11.x & 10.2, Window NT 4.0
 Language : C, Unix, Java XML
 Database : Oracle 8i
 App Server : Web Logic 6.1
 Web Server : iPlanet 6.0
 Tool : Visual Café v3.0, JDK1.2-1.4, JDBC and ODBC driver, EJB, Servlet, RTDMS API set and library

Financials...

- Improved airport efficiency through optimal use of both the work force and valuable gate space
- Web based technology makes the tool available to additional user groups like Customer Service, Cabin cleaning, Catering and Line Stations
- Boosts the corporate bottom line of through **yearly** savings of \$1.4 million in key stroke reduction efforts and \$1.5 million through optimization
- Cost of development of the solution – approximately \$0.6 million

Business Benefits...

- Displays real time info in user friendly manner
- Automates repetitive tasks in gate management
- Reduces gate holding time lowering fuel burn
- Alerts controllers in case of irregular operations
- Availability of flight related crew information, routing and maintenance
- Helps user arrive at a quick and optimal solution, especially irregular operations
- Improved productivity and ground operations planning



More details?

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