

## WEIGHT & BALANCE

### INCREASES PRODUCTIVITY AND FUEL SAVINGS THROUGH OPTIMIZED AIRCRAFT LOADING

Airlines and ground handlers can improve agent productivity with a load planning tool that provides a graphical user interface (GUI) that safely loads and dispatches aircraft, shows the optimum trim to save fuel, and incorporates all legally required documentation.

#### ISSUES

- Airlines and ground handlers need to replace legacy load planning which uses green screen technology
- Airlines and ground handlers want GUI functionality for load controllers
- Lengthy staff training needs to be reduced
- Airlines and ground handlers want to keep historical records of load control plans
- Load controllers need to manage more than one flight at a time
- Airlines want to reduce fuel costs
- Airlines and ground handlers want to manage load control both locally and centrally

#### SOLUTION

- Sophisticated GUI functionality, including 'drag and drop' load or unloading, screen tabs and 'slider' options, which reduce training time
- A new product which replaces the SITA legacy load planning (LDP) product
- Graphical view of ideal trim line and center of gravity
- Manages automated flight events, including alarms
- Airlines and ground handlers define their own business rules
- Offers expanded reporting capabilities and historical data
- Allows one agent to process multiple flights and multiple airlines locally or remotely

#### BENEFITS

- Uses airline business settings and rules to prepare flights
- Increases agent productivity via the rapid dispatch of flights, minimizes flight delays
- Uses historical data, as required, in order to set up and/or control flights
- Increases fuel cost savings by utilizing optimal fuel efficiency and load balance
- Improves reporting capabilities backed by business intelligence
- Increases safety – issues warning messages and does not print a loadsheet if an aircraft is out of trim

**Fuel costs are more than 30% of an airline's operating expenses**

*Source ATIT Review Issue 2, 2014*



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## HOW DOES IT WORK?



Weight & Balance is a component of the Horizon Passenger Services System illustrated above.

Weight & Balance provides full load planning capabilities including a GUI-based framework for all the functionalities required in to load and dispatch an aircraft, and all legally required documentation for both airlines and ground handlers.

## SOLUTION COMPONENTS

### Key service features:

- Full GUI functionality
- Enhanced safety features
- Business rule automation
- Online help screens
- Service-oriented architecture (SOA) on open systems platform.
- Cost Manager Application (CMAP) is an option within the Weight & Balance system. CMAP interfaces with Weight & Balance and shows load control agents the optimum ideal trim required in order to save fuel.
- CMAP is unique in the industry. No other system provider has similar functionality that is capable of giving load control agents indicators to show the ideal trim zone, or the capability to display US dollar amounts if a load plan is not in the ideal trim zone.

## CASE STUDY

### Problem

It is mid-day at a typical airport. There are several flights departing between 12:00 and 13:00, and therefore the load control agent needs to access passenger, baggage, fuel and cargo information quickly in order to correctly manage the loading of the aircraft.

### Solution

- With Weight & Balance, agents can work and dispatch several flights simultaneously, thus achieving optimal operational efficiency.
- In addition, as airlines and ground handlers expand their operations, they need to have new load control agents ready as quickly as possible.
- Weight & Balance has been designed to accommodate this requirement by greatly reducing training time.

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