

# Hub Aware

A cutting edge interactive  
environment for visualizing real-time  
situational data



Available on the  
**App Store**

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## A Collaborative Awareness Solution

Hub Aware is a valuable addition to the AirPAC suite specifically designed for hub staff. It leverages off our existing secure, scalable, hosted airline-tracking server. This enables consolidated fleet tracking and reservation data to be accessible via a range of mobile devices. Hub Aware can also utilize in-house servers to consolidate additional desirable data. Hub Aware empowers hub staff to be in touch at all times and locations when carrying out their duties. Our consultants can work with you to integrate AirPAC into your systems using Hub Aware's open standard interface.

## FIDS

The FIDS (Flight Information Display System) View presents real-time schedule data in a classic tabular format. This view may be configured to display varying amounts of data such as gate, status and passenger load. The user may also enter search information to quickly filter and find a flight.

Hub Aware's large format flight information card is designed to display flight information for a single flight in clear easy to read text that can be shown to passengers that may be poor of sight.

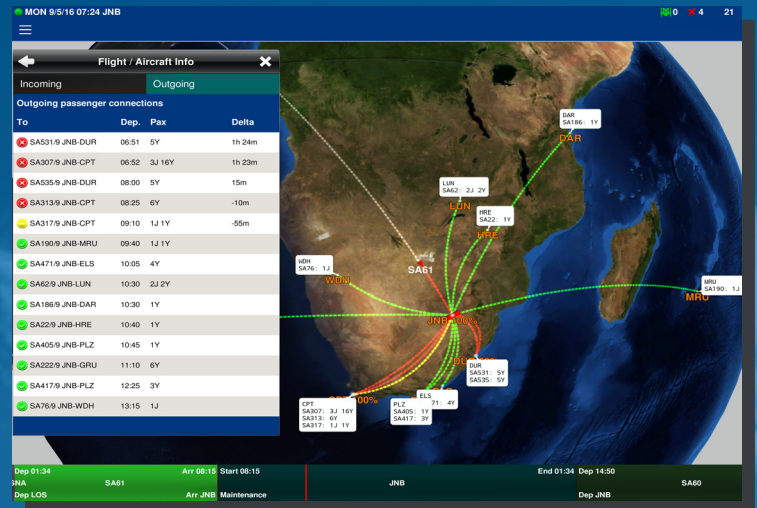


Fig.1 Global visualization of flight tracks and connections

A screenshot of the FIDS (Flight Information Display System) View showing a table of departing flights. The table includes columns for Flight, Date, DEST, City, STD, ETD, ETA, Term, and Gate. The data is filtered for flights departing on 9 May.

Flight	Date	DEST	City	STD	ETD	ETA	Term	Gate
SA303	9 May	CPT	Capetown	06:00	06:00	08:10	N/A	N/A
SA527	9 May	DUR	Durban	06:00	06:00	07:05	N/A	N/A
SA459	9 May	ELS	East London	06:10	06:10	07:35	N/A	N/A
SA401	9 May	PLZ	Port Elizabeth	06:25	06:25	08:00	N/A	N/A
SA1501	9 May	GRJ	George	06:50	06:50	08:45	N/A	N/A
SA531	9 May	DUR	Durban	06:55	06:55	08:00	N/A	N/A
SA307	9 May	CPT	Capetown	07:00	07:00	09:10	N/A	N/A
SA535	9 May	DUR	Durban	08:00	08:00	09:05	N/A	N/A
SA313	9 May	CPT	Capetown	08:25	08:25	10:35	N/A	N/A
SA539	9 May	DUR	Durban	08:45	08:45	09:50	N/A	N/A
SA317	9 May	CPT	Capetown	09:10	09:10	11:20	N/A	N/A
SA74	9 May	WDH	Windhoek	09:30	09:30	10:25	N/A	N/A
SA190	9 May	MRU	Mauritius	09:40	09:40	15:30	N/A	N/A
SA142	9 May	MPM	Maputo	09:45	09:45	10:45	N/A	N/A
SA50	9 May	FIH	Kinshasa	09:45	09:45	12:35	N/A	N/A
SA54	9 May	LAD	Luanda	09:45	09:45	12:25	N/A	N/A

Fig 2. Flight Information Display System View

A screenshot of the FIDS (Flight Information Display System) View showing a detailed view of a single flight, South African SA307. The flight is scheduled to depart 27 minutes ago. The table shows the origin (JNB, Johannesburg) and destination (CPT, Capetown) with their respective departure times and terminal/gate information.

Departing Flights			
South African SA307			
Scheduled		departed 27 minutes ago	
Origin	JNB	06:52	Terminal 3
	Johannesburg	9 May	Gate 10
Destination	CPT	08:56	
	Capetown	9 May	

Fig 3. Flight Information Display System - Single Flight

## Devices

- Smart Phones
- Tablets
- Large-screen TV Displays
- Desktop PC
- Video Wall
- Hybrid Laptops

## Communication Protocols

- 3G / 4G
- Wi-fi
- Company Intranet

## Platforms

- Windows
- Apple iOS
- Android

## Airport Maps

Hub Aware can display detailed airport maps that help airport staff to direct passengers to their gates. Technologies such as ADS-B can also provide huge amounts of positional data that can be used to accurately plot the whereabouts of every tail within a fleet at the terminal.

## Reservation Query

Hub Aware can interface with reservation and baggage systems to deliver the latest itinerary status to disrupted passengers. Mobile reservation capabilities provide the opportunity to deliver a superior customer experience. Rather than making passengers queue at transfer desks, Hub Aware allows airport staff to assist passengers at the gate, lounge and even hotel.



Fig.4 Countdown view for inbound feeder flights

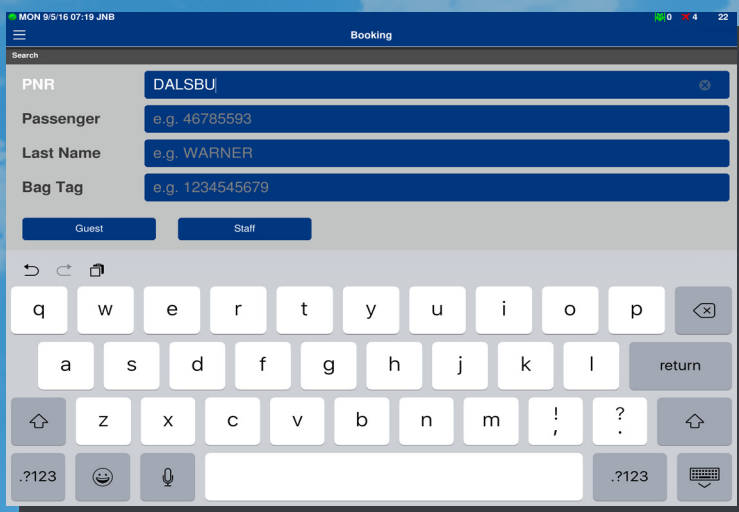


Fig.5 Searching for a Reservation

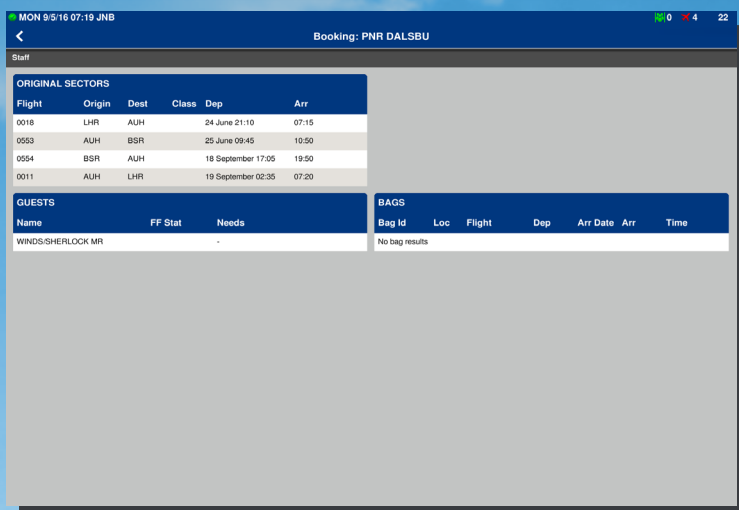


Fig.6 Reservation Search Results

## Open GL 3D Graphical Environment

Hub Aware uses a state of the art interactive touch based interface. The user is fully immersed in a 3D global view. There is full support for gesture based devices, such as tablets and large high resolution table top computers.

## Messaging

In the airport terminal environment, staff have to co-ordinate with each other over very large distances. Hub Aware's messaging feature allows for the broadcast of important messages to staff whenever they are needed. Messages can be replied to and acknowledgements can be required so ensuring that the message has been received.

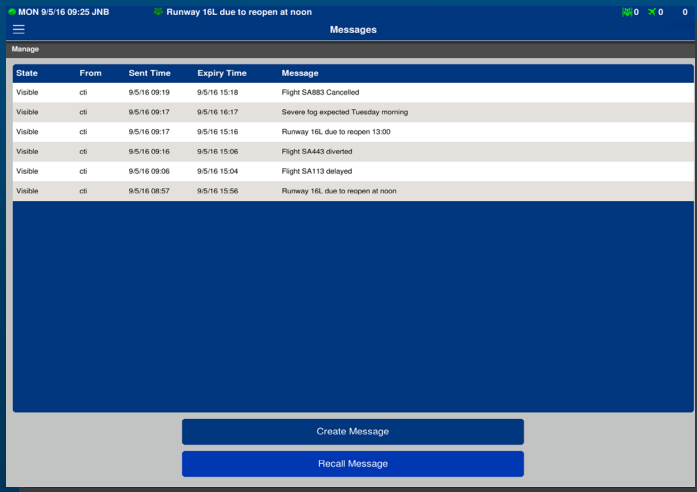


Fig.7 Manage Messages

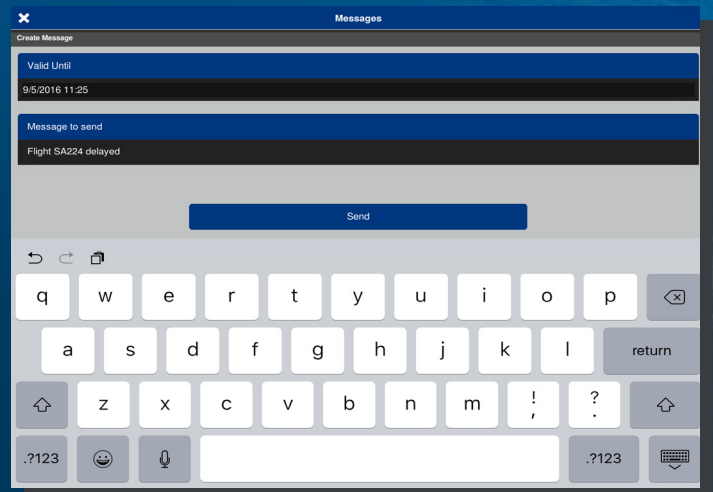


Fig.8 Create a New Message

## Features

- Operational View: presentation of airport assets and associated operational data.
- Executive Management View: Real-time KPI Rendering e.g. Resource Utilisation.
- Traditional Gantt Based Resource Allocation Views: Stand, Gate, Baggage, Check-In, Vehicle.
- Detailed filtering and advanced search capabilities.
- Passenger Connection View
- Landing Sequence View
- General Information View: Display and rotate globe to show arrival flight location and status in a passive non-interactive mode.
- Graphical Airport Layout Views showing operational situation with time scrolling and status reporting.