



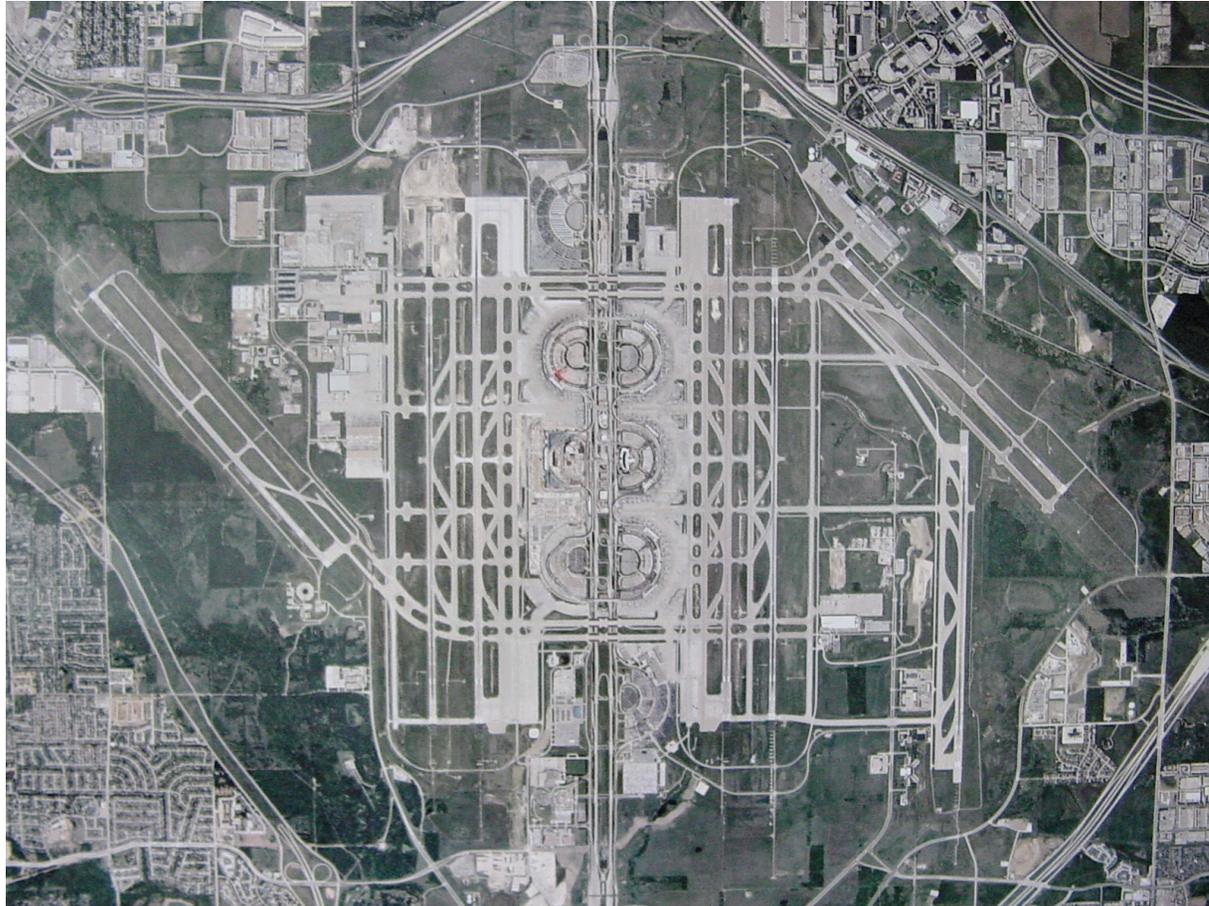
TODAY'S AIRPORT PLANNING ISSUES, NEEDS AND SOLUTIONS - LANDSIDE

Allen D. Parra, A.A.E.
Vice President of Operations
Dallas/Fort Worth International Airport

September 12, 2006



DFW AERIAL VIEW





AIRPORT OPERATIONS CENTER





AIRPORT OPERATIONS CENTER





AIRPORT OPERATIONS CENTER





EMERGENCY OPERATIONS CENTER





DFW STATUS BOARD

Home Metrics Next refresh in 296 seconds Sign Out Help

For Service and Maintenance

Road Alerts

Non AOA Roads

E AIRFIELD DR (restricted)
12-17-2005 09:11 AM

Commencing 2300 12-17-05 until further notice the right lane of southbound E Airfield Dr at E 28th St (DPS #1) and the left turn lane of northbound E Airfield to E 28th St will be closed. This is for the AOC/EOC building construction project (water/waste water) tie-ins.

DFW Status Board

DFW Weather

Dallas, TX
Get the 10 day forecast

[Pollen Reports](#)
[Airport Delays](#)
[Special Events](#)

53 °F
Cloudy
Feels Like: 63°F
Humidity: 67%
Wind: SSE at 8 mph
Enter city/zip **GO!**

[Download Desktop Weather](#)

Parking Alerts

All Parking is Available

Latest Alerts/News Admin

Found 4 results for: **Alert**

Please Disregard Previous Alert Message	JAN 03, 2006	9:58
Elapsed Time: 24 days, 2 hrs, 57 mins		
UPDATE: Please disregard previous alert messages	JAN 03, 2006	9:54
Elapsed Time: 26 days, 20 hrs, 47 mins		
Winter Weather Alert declared at 1630L	DEC 05, 2005	17:08
Elapsed Time: 1 mth, 22 days, 19 hrs, 47 mins		
UPDATE: Test only	DEC 05, 2005	14:54
Elapsed Time: 1 mth, 22 days, 23 hrs, 52 mins		

Search Alerts/News: ALL [Subscribe](#)

DFW Links

- [DFW Airport](#) (dfwairport.com)
- [DFW Status Board \(GIS Map\)](#) (Roads & Airfield)
- [Old Status Board](#) (Link to "P" drive)
- [The Weather Channel](#) (Current Weather Conditions)
- [AccuWeather.com](#) (Forecasted Precipitation)
- [National Weather Service](#) (Dallas, TX Forecast)
- [National Weather Service](#) (Fort Worth, TX Forecast)

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Local intranet



UPCOMING ENHANCEMENTS

- ♣ **Phase 2**
 - ♣ Transportation
 - ♣ Customer Service Busses
 - ♣ Current Fleet Information
 - ♣ Ground Transportation
 - ♣ Current SkyLink Status
 - ♣ Fuel Status
 - ♣ Conveyance System Status
 - ♣ Planned Roadway/Runway Closures

- ♣ **Phase 3**
 - ♣ Airline Ops
 - ♣ Forecasted Ops
 - ♣ Reported Delays and Cancellation
 - ♣ National Delays
 - ♣ TSA Check Point Wait Times
 - ♣ Airfield Lighting
 - ♣ Current System's Status



UPCOMING ENHANCEMENTS

- ♣ **Phase 4**
 - ♣ Terminal Support
 - ♣ Weather Related
 - ♣ Current Deicing
 - ♣ Planned Deicing
 - ♣ Fleet Status for Snow and Ice Control
 - ♣ Chemical and Sand Usage
 - ♣ Current Impacts to Airport
 - ♣ Weather Timeline
 - ♣ EOC Activation
 - ♣ Incident Org Chart
 - ♣ Current Action Items
 - ♣ Finance Report
 - ♣ Statistics
 - ♣ Event Map



DFW'S NEW TERMINAL D





CCTV

- ♣ Used to monitor for events/safety/security traffic congestion/accidents
 - ♣ Traffic control at terminal curbs
 - ♣ Dispatching taxis
 - ♣ Monitor SKYLINK (people mover operation)
 - ♣ Security – unattended vehicles on curbside
 - ♣ Security at Taxi Queue
 - ♣ Airport roads
 - ♣ Parking plazas back-ups
- ♣ **Technology**
 - ♣ Smart parking
 - ♣ Toll tags
 - ♣ Commercial vehicle use
 - ♣ Common use with DFW Metroplex toll roads
 - ♣ Wi-fi airport-wide
 - ♣ All terminals; Board facilities
 - ♣ Internet
 - ♣ Kiosks
 - ♣ Automated – taxi dispatch system; parking citation system



SURFACE MANAGEMENT SYSTEM (SMS)

SMS @ DFW KICK-OFF MEETING

**NASA Ames SMS Team
January 26, 2006**



SURFACE MANAGEMENT SYSTEM

- ♣ Provides a decision support tool to assist ATCT controllers, managers and airlines in managing and controlling surface traffic to increase capacity, efficiency and flexibility.
- ♣ The Surface Management System (SMS) provides the abilities to:
 - ♣ predict the movement of aircraft on the airport surface and in the surrounding terminal area,
 - ♣ use this prediction engine to plan surface operations, and
 - ♣ disseminate this information and provide advisories to a variety of users.
- ♣ Being developed jointly by NASA and the FAA through AATT project.



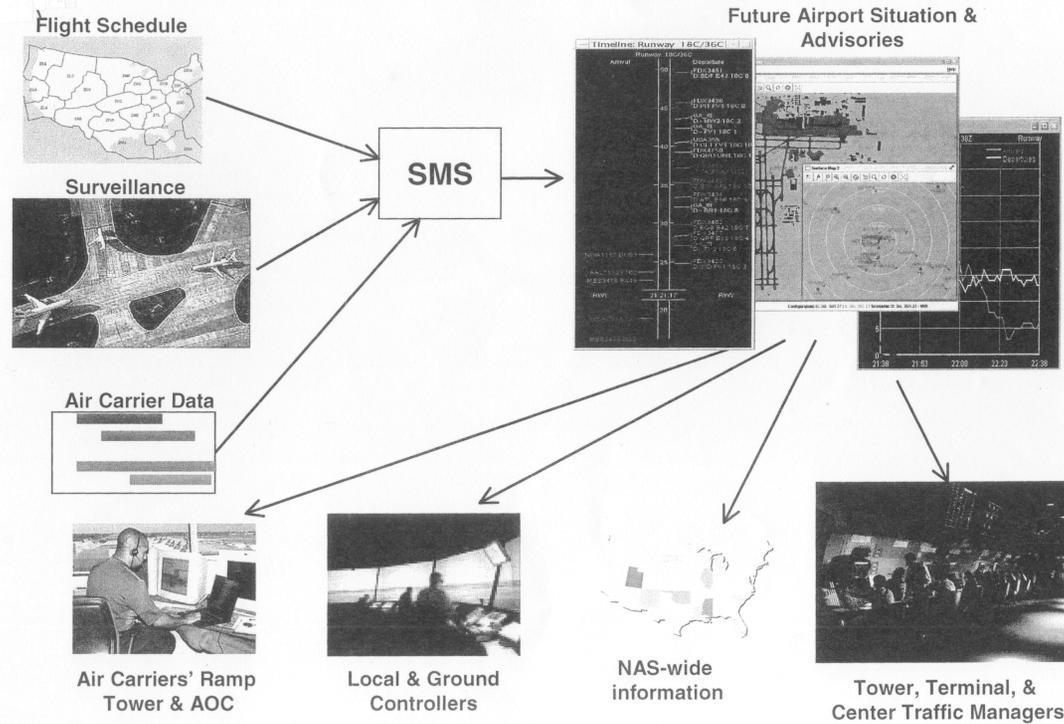
SURFACE MANAGEMENT SYSTEM

- ♣ Airport Traffic Management Tool
 - ♣ TMCs (Tower, TRACON and Center) and air carriers (ramp and AOC)
 - ♣ Prediction of arrival and departure demand, delays and queues
 - ♣ Departure runway management and airport configuration planning
 - ♣ Especially useful during irregular operations
 - ♣ Coordination/collaboration between TMCs and air carriers
- ♣ Controller Tool
 - ♣ ATC Tower local and ground controllers and ramp controllers
 - ♣ Flight specific information
- ♣ NAS Information Tool
 - ♣ Updated predictions of takeoff time provided to Enhanced Traffic Management System (ETMS fills current NAS information gap)
 - ♣ Landing and gate arrival time predictions for users

SURFACE MANAGEMENT SYSTEM

SMS Build 1 System Architecture

Ames Research Center





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