



# AODB/RMS/FIDS System Features and Highlights

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## Content (I)

- Seasonal Flight Schedule
  - Generate Operational Day
  - User views and authorizations
- Operational Flight Schedule
  - Offline Mode
  - View Codeshare flights
  - UTC view
  - Data quality
- Resource Management
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  - Dynamic Standards
  - Preferential Rules

## Content (II)

- Multiple Airports Solution
- User Security
- New Applications
  - Mobile RAMP Application
  - Areal View

# Seasonal Flight Schedule

## SFS User view and authorization

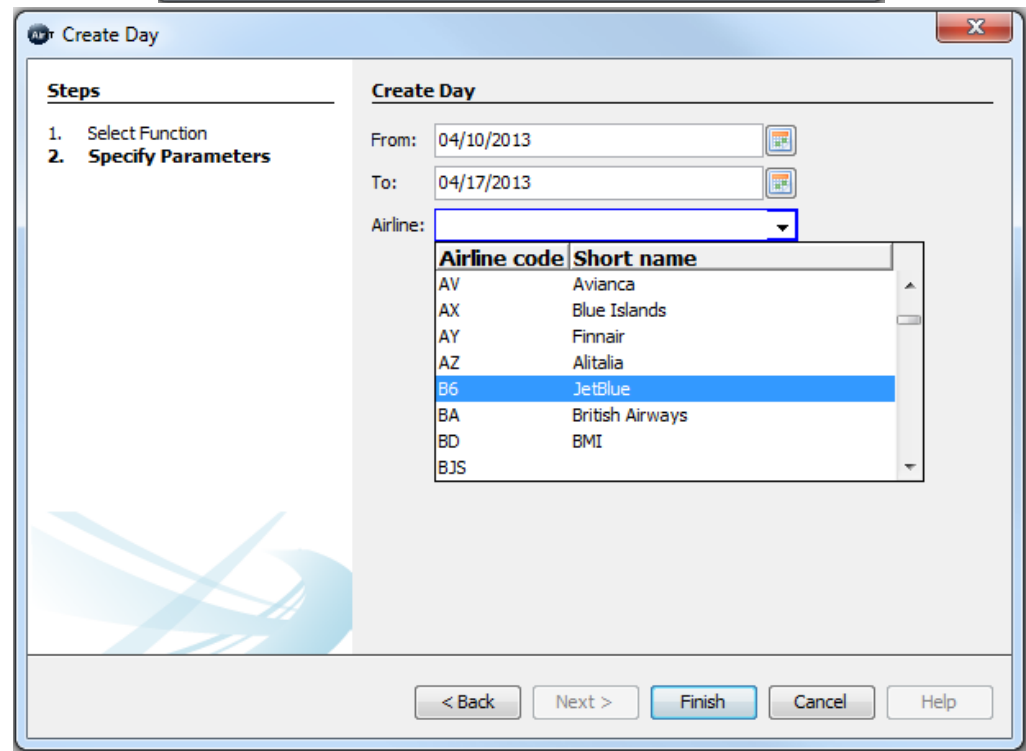
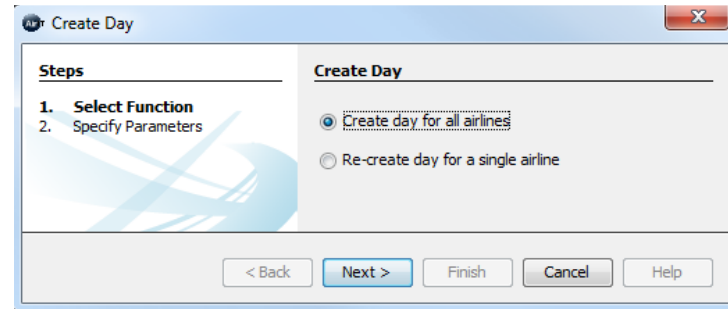
- Each attribute can be selected to define user specific views and authorizations
- Read-only option for each attribute
- Write and read conditions definable with the help of rule

Operational Flight Schedule		Display Name			
● Seasonal Flight Schedule		Full Access			
<div style="display: flex; justify-content: space-between;"> <span>Attributes</span> <span>Detail Views</span> <span>Conditions</span> <span>Audit Trail</span> </div>					
<input type="checkbox"/>	Internal Name	Display Name	Read Only	Order	Short Name
<input type="checkbox"/>	sfsArrivals.saFlightNumber	Flight number	<input type="checkbox"/>		
<input type="checkbox"/>	sfsArrivals.saSta	STA	<input type="checkbox"/>		
<input type="checkbox"/>	sfsArrivals.saPeriodBegin	Period Begin	<input type="checkbox"/>		
<input type="checkbox"/>	sfsArrivals.saPeriodEnd	Period End	<input type="checkbox"/>		
<input type="checkbox"/>	sfsArrivals.saOpsDays	Ops Days	<input type="checkbox"/>		
<input type="checkbox"/>	sfsArrivals.saRapCodeOrigin	Origin	<input type="checkbox"/>		
<input type="checkbox"/>	sfsArrivals.saRactCode	Aircraft Type	<input type="checkbox"/>		
<input type="checkbox"/>	sfsDepartures.sdFlightNumber	Flight number	<input type="checkbox"/>		
<input type="checkbox"/>	sfsDepartures.sdStd	STD	<input type="checkbox"/>		
<input type="checkbox"/>	sfsDepartures.sdPeriodBegin	Period Begin	<input type="checkbox"/>		

# Seasonal Flight Schedule

## Generate operational day

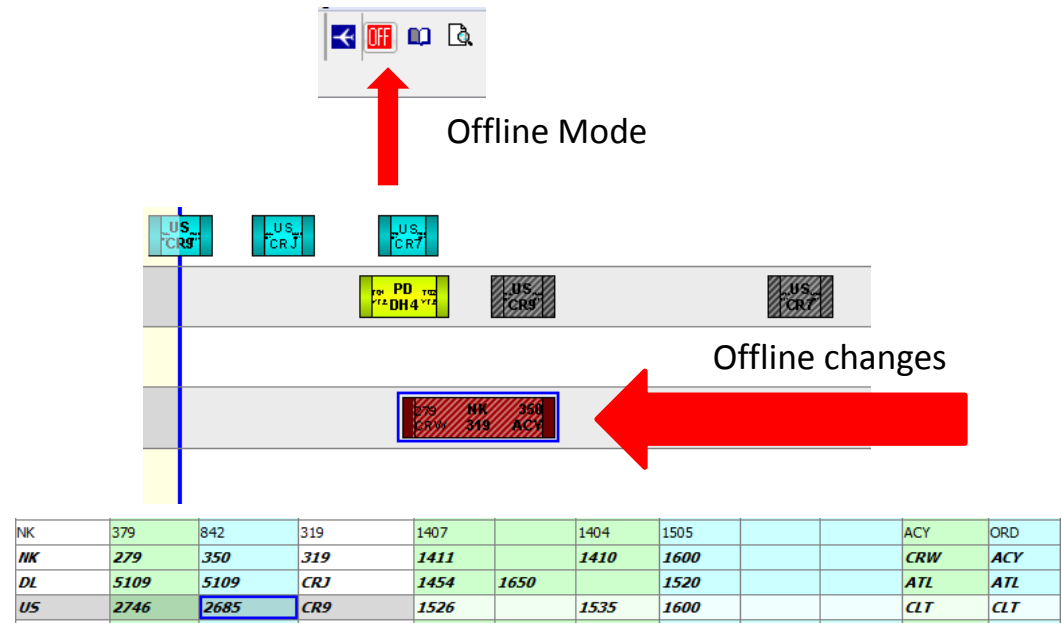
- Choice to re-create entire operational days or one single airline
- Assignable as a user function
- Limited to future operational days



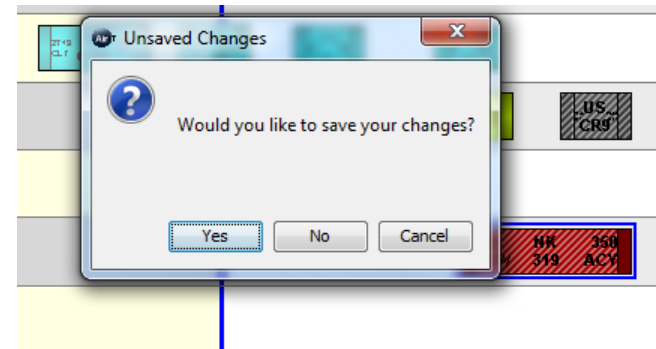
# Operational Flight Schedule

## Offline Mode

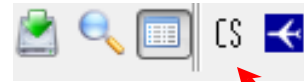
- Available throughout Operational Flight Schedule and Operational Charts
- Changed records are displayed differently
- Conflicts are still visible
- Confirmation required to save the record changes



NK	379	842	319	1407	1404	1505			ACY	ORD
NK	279	350	319	1411	1410	1600			CRW	ACY
DL	5109	5109	CRJ	1454	1650	1520			ATL	ATL
US	2746	2685	CR9	1526	1535	1600			CLT	CLT



# Operational Flight Schedule



## View Codeshare Flights

- Available in Operational Flight Schedule
- Displays codeshare flights below the main flights
- Codeshare flights are displayed read only
- Records can be queried within the table

DL	5343	5343	CRJ	N842AS	1207	1142
AZ		3458				
KL		7431				
US	3323	3304	E170		1209	1155
DL	5027	5027	CRJ	N878AS	1325	1321
NK	921	922	319	N505NK	1332	1320
PD	701	702	DH8D		1335	1331
US	2230	2207	CRJ7		1351	1404
LH		5233				
UA		2122				

# Operational Flight Schedule



## UTC View

- Available throughout the AODB/RMS application
- Times are displayed in a different color while in UTC mode
- Available for Seasonal Flight Schedule as well

Airline	Flt In	Flt Out	A/C Type	STA	ETA	ONB	STD	ETD	OFFB
JS	1823	1512	319	0153		0150	1110		1134
DL	1336	1335	M88	0157		0154	1100		1124
JS	2222	2278	CR7	0340		0337	0930		0954
JS	1883	948	319	0918		0915	2154		
NK	103	103	319	1132		1129	1207		1231
NK	851	300	319	1220		1217	1305		1329
JS	2719	2636	CR9	1253		1250	1330		1354
JS	3373	3394	E70	1305		1325	1335		1359
DL	5519	5519	CRJ	1342		1339	1407		1431
NK	843	278	319	1358		1357	1455		1519

Arr Flt	STA	Arr P Begin	Arr P End	Arr Ops Days	Orig.	Arr ACT	Dep Flt	STD
DL 5519	1442	03/01/2013	03/30/2013	1234567	ATL	CRJ	DL 5519	1507
DL 5783	1703	03/01/2013	03/30/2013	1234567	DTW	E75	DL 5783	1738
DL 5341	1707	03/01/2013	03/30/2013	1234567	ATL	CRJ	DL 5341	1732
DL 5027	1820	03/01/2013	03/30/2013	1234567	ATL	CRJ	DL 5027	1845
DL 5498	2014	03/01/2013	03/30/2013	1234567	ATL	CRJ	DL 5498	2040
DL 5211	2258	03/01/2013	03/30/2013	1234567	ATL	CRJ	DL 5211	2326



# Operational Flight Schedule

## Data Quality

- Allows the user to configure priorities for flight record updates
- It can be configured for different users within AODB or to differentiate between AODB users and interfaces
- It is to be used in combination with the ESB GUI for interface priorities
- Quality is defined in the user authorization
- It can be defined for each flight record attribute

Attributes				
<input checked="" type="checkbox"/>	Internal Name	Display Name	Read Only	Quality
<input checked="" type="checkbox"/>	a.oaPaxTransit	Transit PAX	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	a.oaPta	PTA	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	a.oaPublicComment	Public comment	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	a.oaRaaCode	Account	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	a.oaRacCode	Aircraft	<input type="checkbox"/>	9
<input checked="" type="checkbox"/>	a.oaRactCode	Aircraft Type	<input type="checkbox"/>	9
<input checked="" type="checkbox"/>	a.oaRalAcAirline	Owner airline	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	a.oaRalCode	Airline Code	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	a.oaRapCodeDivert	Diverted To	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	a.oaRapCodeOrigin	Origin	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	a.oaRapCodePrevious	From	<input type="checkbox"/>	

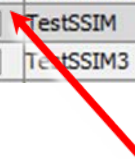


# Resource Management

## Airline Check-in Templates

- Templates are independent from flight templates
- Can have different validity than the flight templates
- Useful when resources are maintained by different departments
- Can be also used in combination with the flight templates

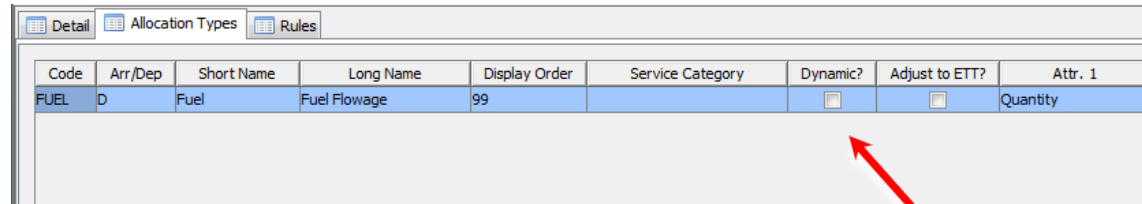
Flights?	Etc?	Name	Act.From
<input type="checkbox"/>	<input type="checkbox"/>	Acceptance Test EH	07.03.2012
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Master 1.2.3	07.03.2012
<input type="checkbox"/>	<input type="checkbox"/>	TestSSIM	03.10.2011
<input type="checkbox"/>	<input type="checkbox"/>	TestSSIM3	



# Resource Management

## Dynamic Standard

- Available for generic resources
- Allocations are recalculated each time when the flight record is updated
- Useful for flight specific services
  - Scheduling of RAMP Services
  - Scheduling of RAMP personnel
 (E.g. Fuelling of a 744 takes more time than a 738)
- The generic resource allocation can be configured to adjust to the estimate time



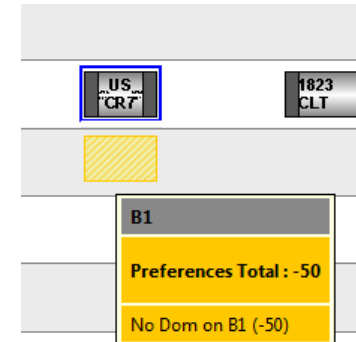
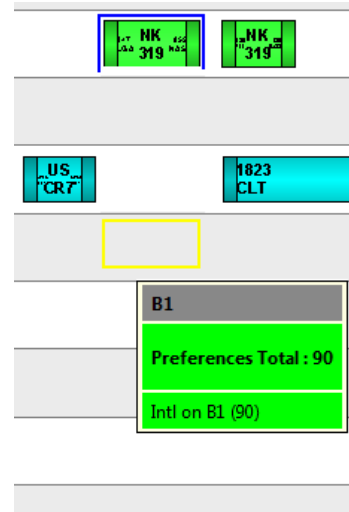
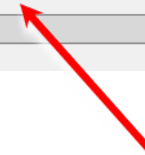
Code	Arr/Dep	Short Name	Long Name	Display Order	Service Category	Dynamic?	Adjust to ETT?	Attr. 1
FUEL	D	Fuel	Fuel Flowage	99		<input type="checkbox"/>	<input type="checkbox"/>	Quantity

# Resource Management

## Preferential Rules

- Soft Rules
- Assign preferential weight to rules
- Preferential value is displayed in the chart
- Green for high preference and yellow for low preference

Active	Rule Name	Preferred value
<input checked="" type="checkbox"/>	CRJ on A7 only	
<input checked="" type="checkbox"/>	PD Spot	
<input checked="" type="checkbox"/>	US not on A6	-50
<input checked="" type="checkbox"/>	Intl on B1	90
<input checked="" type="checkbox"/>	No Dom on B1	-50



# Multiple Airports Solution

- Same AODB/RMS system for multiple airports (one server/one database cluster)
- Central AODB/RMS at the main airport
- Central ESB portal at the main airport
- Local FIDS installations with local ESB satellite
- Same reference data for all airports



## FIM-ADS Client

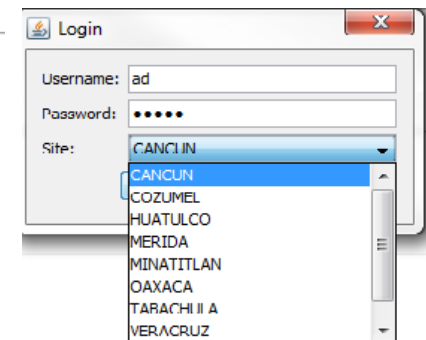
[Launch FIM/ADS Client](#)

## ESB Client

Select a Site

## FIDS Configuration Tool

Select a Site



# User Security

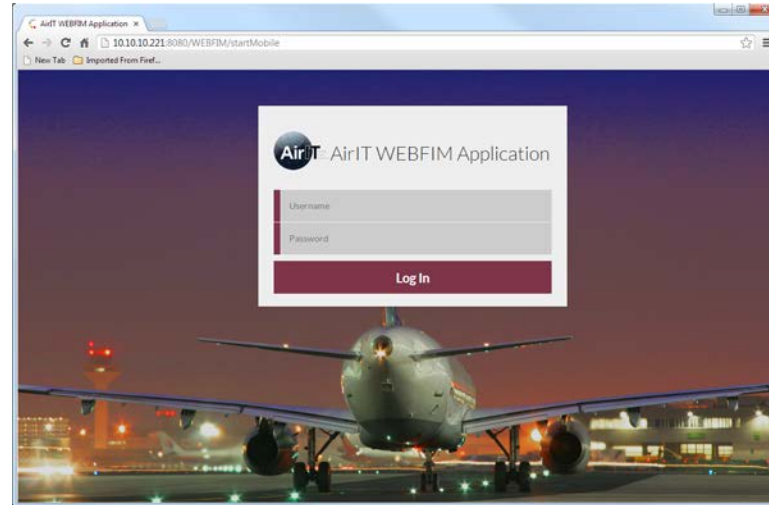
- Password strength settings
- Password change requirement
- User name length setting
- Password history
- Password expiration settings
- Inactivity timeout
- User expiration settings
- User login history
- User notification when password reset
- All settings are configurable by system administrator

SysUserInactivityTimeout	SYSTEM	Timeout for user inactivity (-1 means disabled)
SysUserNameExpression	SYSTEM	User Name Validation Expression
SysUserPasswordChangeRequired	SYSTEM	Password change required for the first login (Y/N)
SysUserPasswordCycle	SYSTEM	Number of passwords kept in history for validation
SysUserPasswordDuration	SYSTEM	After this many days the user's current password will expire and the next login will be required
SysUserPasswordExpression	SYSTEM	Password validation Expression
SysUserPasswordResetAction	SYSTEM	Action when resetting a password [NONE] , [EMAIL]

# New Applications

## Mobile RAMP Application

- WEB Application
- Requires VLAN connectivity throughout the RAMP area
- Can be used on mobile devices such as iPad, Laptop, Tablets, etc.
- Direct access to the AODB/RMS
- Fuel information is transferred to PROPworks with the flight information



Fuel Control	
Control List	Fuel Control
Truck	T2
Airline	DL
Flight Number	DL 5211
STD	04/10/2013 1826
Registration Number	Registration
Spot	A1
Start Time	04/10/2013 1509
End Time	04/10/2013 1509
Fuel	532
Pushback	

# New Applications

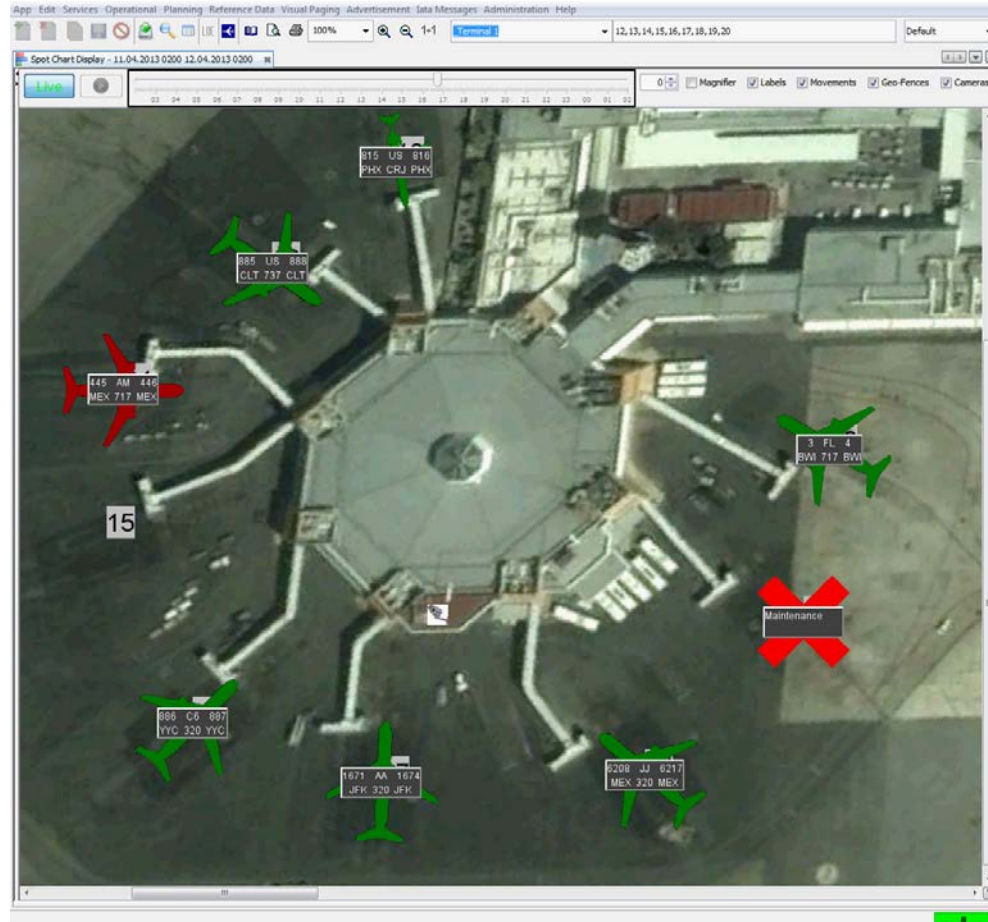
## Areal View

- GIS representation of airport's resources and events
- Currently available for spot allocation but can be extended to cover other resource allocations
- Can be integrated with external data sources such as
  - Surveillance video cameras streams
  - Web site contents
- In combination with RMS it can provide all RMS functions such as
  - Conflict displays
  - Preferential allocation displays
  - Data manipulation (ONB, OFB, etc.)
  - Could be extended to a Virtual RAMP application
- Supports definition of GEO fences and events tracking
- Available to run in live and playback mode



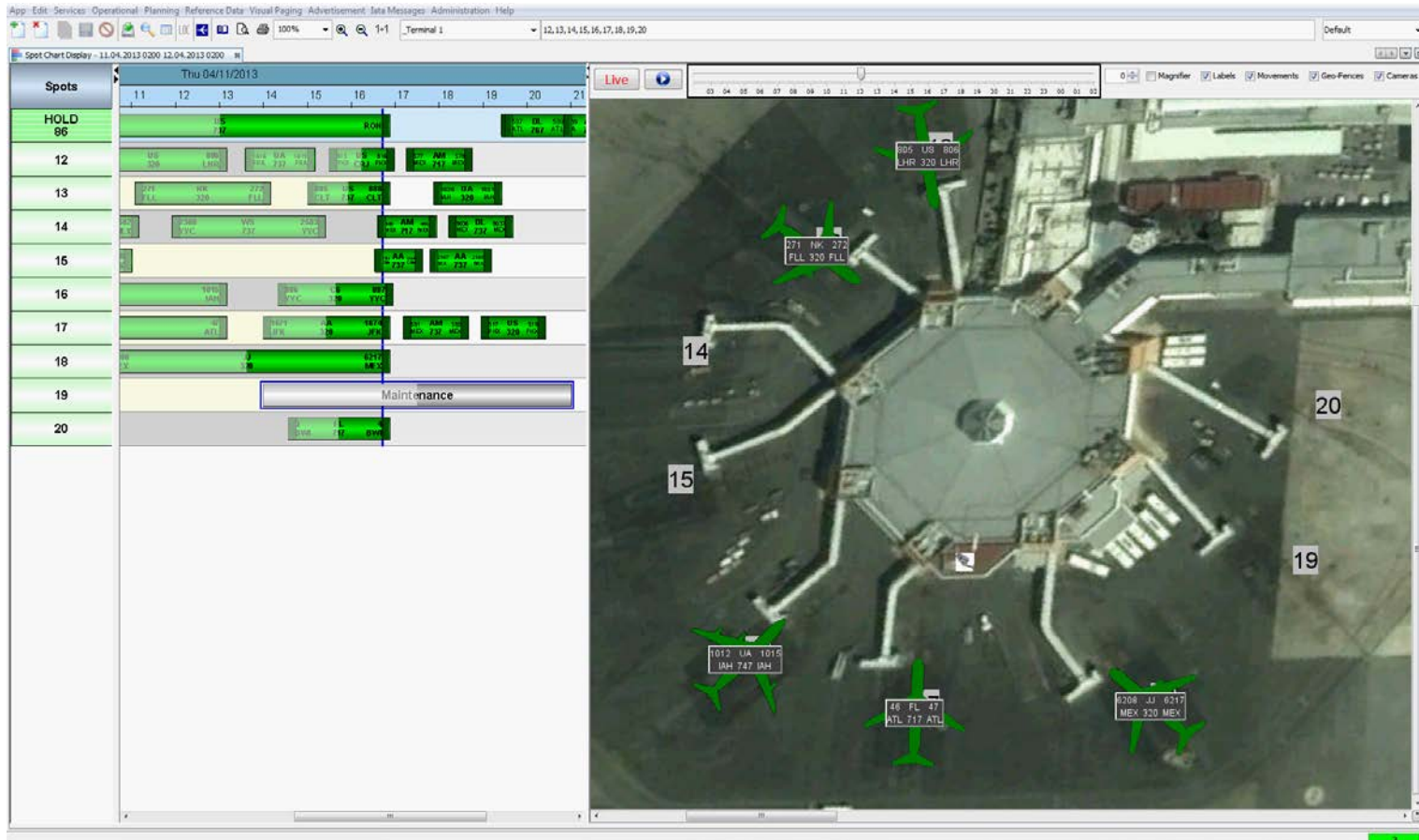
# New Applications

## Areal View: Live Mode



# New Applications

## Areal View: Playback Mode



# New Applications

## Area View: Geo Fences

