Enabling Information Sharing thru Common Services

Wrap-Up and An Enterprise View

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Air Transportation Information Exchange Conference - (featuring AIXM, WXXM and FIXM)

August 30, 2011 - September 1, 2011 NOAA Science Center & Auditorium Silver Spring, Maryland

Introduction



- Wrap-Up
- Information Integration An Enterprise View
- Closing







...Another Struggle around Information and Service Management Components





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Eddy Porosnicu



Information Structures WXXM



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Standards Governance Body

Data Model Component Agility

Aaron Braeckel





Information Structures FIXM



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FIXM will be the international standard used in the *Flight Object*...

- Aircraft identifiers and parameters
- Current Flight Plan information (filed, cleared, flown)
- Operator preferences, constraints (limitations), SOPs
- Flight capabilities, preferences, constraints
- Security information

Rich Jehlen







Steve Bradford





... becoming reality ...

Connected	Canada, Australia, New Zealand, Jordan,
	Philippines
Committed/testing	Belarus, Egypt, Japan, Kazakhstan,
	Morocco, Singapore, South Africa, Syria,
	Taiwan
Discussing	Tunisia, Algeria, FAA, NGA,
Developments	Brazil, Russia, India, South-Korea,

Paul Bosman





METAR, SPECI, TAF and SIGMET are exchanged in a digital form, the information <u>shall</u> be structured in accordance with WXXM. All other MET information <u>should</u> be structured in accordance with WXXM.

Dennis Hart



International Development



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AIS to AIM Roadmap







Applications Aircraft Access to SWIM



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Data Content Manager Capabilities

Extensive Commercial Data Management Experience







Applications NOTAM



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Airports	Keyword	Designator	Condition	Number	▲ Start Date UTC	End Date UTC	Status
-Atlantic City Intl	Aerodrome	ACY	Beacon Status	-	07/15/2011 1726	07/30/2011 1726	Draft
Keyword (10/9)	Communication	-	Free Form	07/055	07/22/2011 1929		Active
Aerodrome (0/1)	Apron	FAA EXPERIMENTAL RAMP	Personnel and Equipment Working	-	07/25/2011 1312	07/29/2011 2100	Draft
	Obstruction	40/04	Tower Light Outage		07/28/2011 1836	08/12/2011 1836	Error Activating
Apron/Ramp (5/ 2)	Runway	13/31	Ground Lighting Status		08/01/2011 1404	08/04/2011 1210	Error Activating
Obstruction (1/2)	laxiway		Construction Status	-	08/01/2011 1412	08/10/2011 1210	Dran Error Activating
Runway (2/1)	Apron	PAG EXPERIMENTAL RAMP	Construction Status	-	08/02/2011 1926	08/08/2011 1000	Droft
Taxiway (1/3)	Rupway	4/22	Eroo Form	-	08/02/2011 1000	08/06/2011 1000	Activation In Program
tatus	Aprop		Free Form		08/02/2011 1517	08/11/2011 1212	Activation In Progress
All (30)	Taviway	B	Free Form	1.70	08/05/2011 2100	08/24/2011 1210	Activation In Progress
	Runway	13/31	Free Form	-	08/05/2011 2101	08/17/2011 1210	Activation In Progress
Active (10)	Taxiway	N	Free Form	-	08/05/2011 2102	08/24/2011 1210	Activation In Progress
Activation In Progress (10)	Runway	4/22	Braking Action	-	08/08/2011 2019	08/09/2011 2019	Draft
Cancelled (0)	Anron	FAM RAMP	Closure	08/012	08/10/2011 1347	08/19/2011 1212	Activo
Cancellation In Progress (0)	Runway	13/31	Free Form	-	08/10/2011 1351	08/19/2011 1212	Activation In Progress
Draft (9)	Runway	13/31	Ground Lighting Status	08/014	08/10/2011 2100	08/25/2011 2100	Active
Error Activating (1)	Runway	4/22	Closure	08/015	08/10/2011 2300	08/19/2011 2300	Activo 0
Error Cancelling (0)	Taviway		Designated Non-Movement Area	08/013	08/10/2011 2349	08/24/2011 1210	Active
Expired (0)	Aerodrome	ACY	Eree Form	00/013	08/11/2011 1843	08/24/2011 1210	Activation In Progress
Expired (0)	Aprop	ANG ALERT RAMP	Personnel and Equipment Working	08/030	08/16/2011 0238	08/25/2011 1210	Active
Activation Faxed (0)	Apron	COMMERCIAL RAMP	Ground Markings Status	08/032	08/16/2011 0200	08/30/2011 2100	Active
Cancellation Faxed (0)	Aerodrome	ACY	Free Form	-	08/16/2011 1620	08/30/2011 1210	Activation In Progress
In Queue (0)	Obstacle	AGT	Free Form	120	08/16/2011 1622	08/30/2011 1210	Activation In Progress
	Obstruction		Free Form	-	08/16/2011 1638	08/23/2011 1210	Activation In Progress
	Obstruction		Tower Light Outage	-	08/16/2011 1747	08/31/2011 1747	Draft
	Obstruction		Tower Light Outage	-	08/16/2011 2018	08/31/2011 2018	Draft
	Apron	FAA EXPERIMENTAL RAMP	Personnel and Equipment Working	08/031	08/17/2011 0317	08/25/2011 1012	Active
	Obstruction		Tower Light Outage	08/036	08/17/2011 1000	09/01/2011 1000	Active
	Apron	FAA EXPERIMENTAL RAMP	Free Form	(08/17/2011 1200	08/25/2011 1210	System Error
	Apron	ALL RAMPS	Ground Lighting Status	-	08/17/2011 1942	08/31/2011 1210	Draft
	Apron	FAA RAMP	Ground Lighting Status	08/052	08/18/2011 0138	08/19/2011 1313	Active
	Taxiway	C	Designated Non-Movement Area		08/19/2011 1000	08/31/2011 1200	Draft
	Taxiway	C	Designated Non-Movement Area	•	08/19/2011 1000	08/31/2011 1200	Draft

Shaelynn Hales



Applications MET Products







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Information Integration An Enterprise View



Information Integration An Enterprise View



- We all work within a company structure
 - income, expenditure, resources, deliver services
- We need to measure our performance
 - "if you can't measure it, you can't manage it"
- As ANSP's we should move to a Performance Based Approach (PBA)
- Structured operational info will enable PBA



Advantages of PBA



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- Result oriented customer focus
- Goals are publically stated, thus drives performance outcomes
- Decision making based on results of quantitative and qualitative methods
- Focus on desired results help set priorities

EUROCONTROL Federal Aviation

ICAO Doc 9883









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PI Count PI Pate / PIs / Mouements

COGNOS Reporting Services

Data Update: 2011-03-22 16:16:03 Report Run Date: 23/03/2011 6:52:33 Af



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Air Transportation Information





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•Safety

Aged InvestigationsDetail

Operational

- -Flight data
- -Reference Data
- -Weather and
- restricted area
- -NFPMRS Noise data

•Workforce

- -Operational
- Workforce
 - Rostering
 - •Overtime

Financial

- -Revenue and Billing
 - Revenue
 - FCS Billable events



Conclusion



- Standards are maturing
 - AIXM (13) / WXXM (5)
- New standard
 - FIXM (3)
- Speeding up of service delivery
- Reduction in time to market for new services
- Additional challenge
 - "Two-Speed" Implementation



Questions



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