Welcome

May 12-14, 2009

AIXM/WXXM Conference | 2009

Brett Brunk
Aeronautical Information Management (AIM)
Federal Aviation Administration

4th Annual AIXM Conference

- Jointly sponsored with Weather (WXXM)
- Our theme
  - *Graphical Visualization and Common Situational Awareness*
    - Fusion of weather and aeronautical information
    - Information technology and operational perspectives

Introductions

- Brett Brunk
  - Aeronautical Information Management, FAA
- Eduard Porosnicu
  - Senior AIM Specialist, EUROCONTROL
- Charles Leader
  - JPDO Director, FAA
- Ken Reid
  - Head of International Technical Relations, EUROCONTROL
- Tom Ryan
  - NextGen Net Enabled Weather, FAA
- Rick Day
  - Senior VP – Operations, FAA

AIXM/WXXM Conference Scope

- Migration to the digital environment and digital applications
- AIXM standardization, implementation & evolution
- Introduction to WXXM
- Linkage with NextGen/SESAR, SWIM
- Partnership with industry
- Interoperability

Strengthening the AIXM/WXXM Community

AIXM/WXXM Conference Objectives

- Endorsement
  - AIXM 5.1
  - WXXM
  - Strategic direction
- Advice on
  - Progress
  - Scope of activities
  - Usefulness of the Conference
  - What is missing

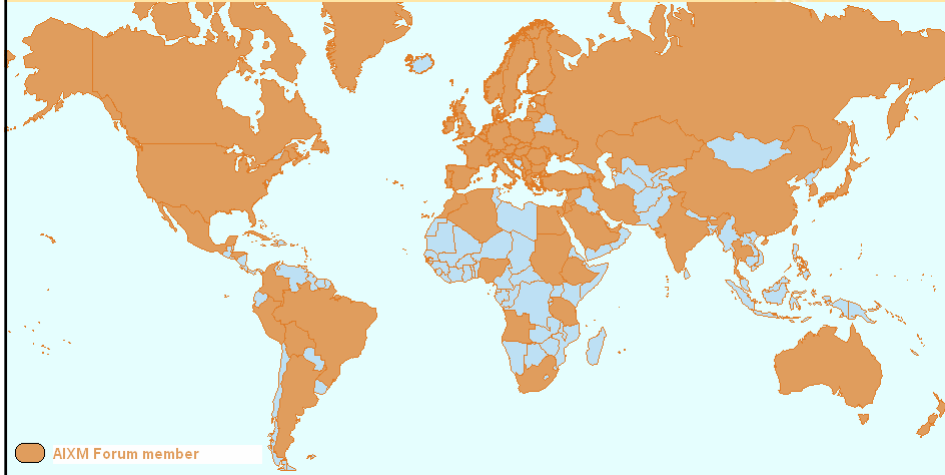*Strengthening the AIXM/WXXM Community*

AIXM/WXXM Conference Statistics

- Conference Attendees
  - Over 400 registrations from more than 27 countries
  - Over 133 organizations represented
  - 12 exhibitors

AIXM Community
www.aixm.aero

AIXM Forum member

Global representation on the
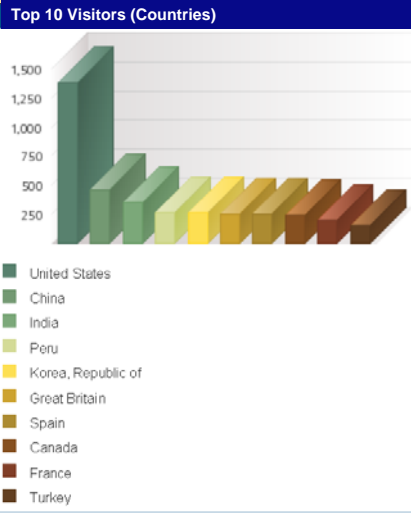AIXM Forum!

AIXM Community Involvement

- Almost 800 forum messages
  - 227 topics
  - Averaging 5 message weekly
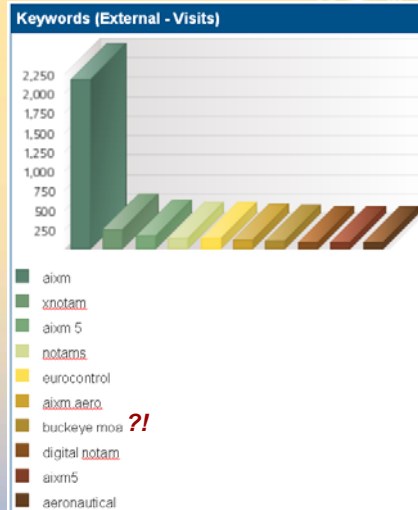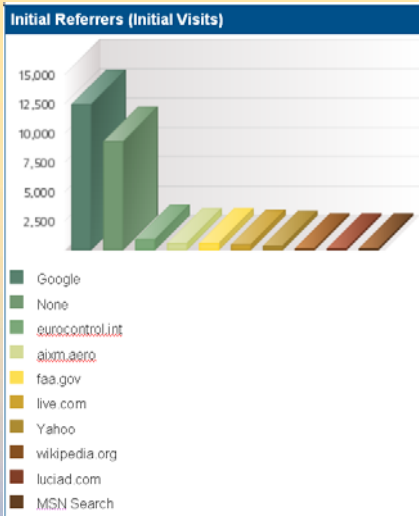- Increasingly interactive community

Global activity

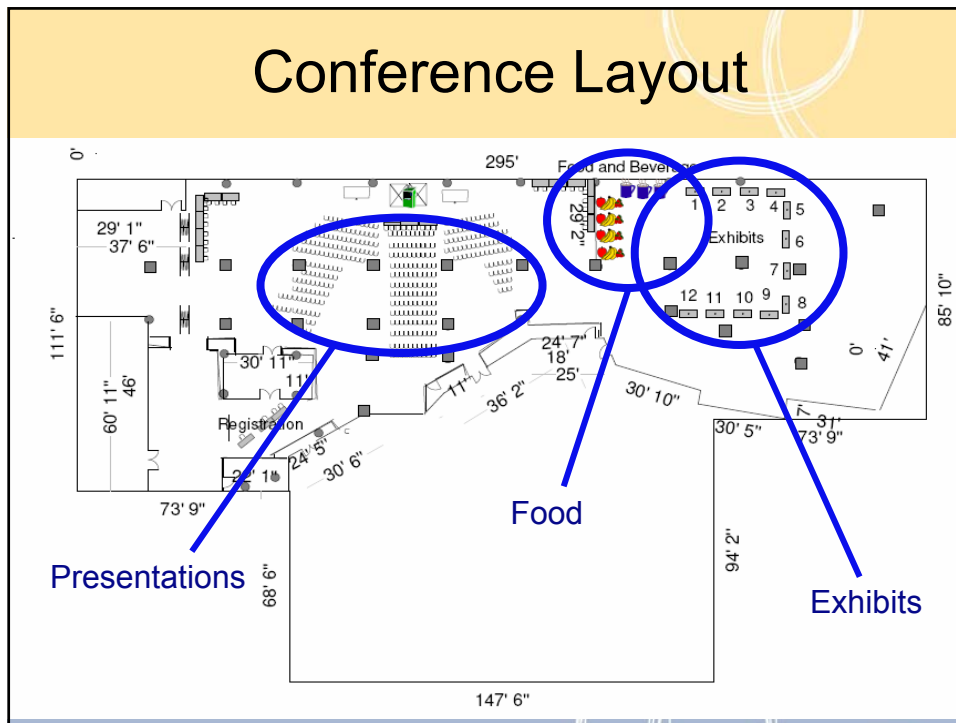*www.aixm.aero - 1 January 2008 - 7 May 2009*

Top 10 Visitors (Countries)

- United States
- China
- India
- Peru
- Korea, Republic of
- Great Britain
- Spain
- Canada
- France
- Turkey

- Total Visits: 50,426
- Average visits per day: 102
- Highest volume day: April 15, 2009

Top 10 ways people get to the AIXM Web Site

Initial Referrers (Initial Visits)

- Google
- None
- eurocontrol.int
- aixm.aero
- faa.gov
- live.com
- Yahoo
- wikipedia.org
- luciad.com
- MSN Search

Keywords (External - Visits)

- aixm
- xnotam
- aixm 5
- notams
- eurocontrol
- aixm.aero
- buckeye moa *?!*
- digital notam
- aixm5
- aeronautical

Conference Layout

Exhibits

- Please stop by the exhibit area on breaks
- Lunch-hour availability of each exhibit is up to each exhibitor

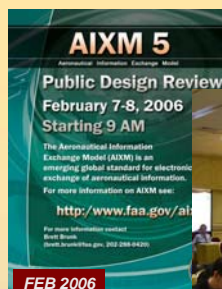| Booth #	Exhibitors
1	Snowflake Software
2	Avitech AG
3	NCAR
4	Luciad
5	Federal Aviation Administration
6	ESRI
7	CSSI, Inc
8	CGH Technologies, Inc.
9	TYBRIN Corporation
10	OWS - 6
11	GeoEye, Inc
12	AWS

Thanks to conference organizers

- Eric Large, Edna Weitzman and Norm Wood
  - Northrop Grumman – TAC2
- Dan Gerecht
  - AIM Business Manager

A series of joint FAA/EUROCONTROL Events

Let's start!

Day 1: Future ATM Perspective
10:00 to 11:15

- NextGen Perspective
  - Charles Leader, FAA
- SWIM – The Big Picture
  - Ken Reid, EUROCONTROL

Coffee Break

10:45 to 11:15
Please Visit the Exhibitions!

Next… "Using Standards"

Day 1: Using Standards
11:15 to 12:30

- Need for Global Standards
  - George Percivall, Open Geospatial Consortium (OGC)
- ICAO AIS/AIM Study Group
  - David Lewtas, ICAO
- 4-D Weather Data Cube
  - Tom E. Ryan, FAA
  - Jason Tuell, NWS
  - Lt. Col. Bruce Lambert (USAF)

Lunch Break

12:30 to 13:30
Please Visit the Exhibitions!

Next… "Operational Perspectives"

Day 1: Operational Perspectives
13:30 to 15:00

- Publishing Obstacle data in AIXM
  - Kevin Haggerty, FAA
- Integrating Weather into the Cockpit
  - Eldridge Frazier, FAA
- Integrating Weather into Decision Support Tools
  - Dave Pace, FAA
- Handheld AIM: Challenges and Solutions
  - Robert McMullen, FAA
  - Todd Sprague, PCAvionics
- Importing and Exporting from AIXM to other Airport GIS Formats
  - Dejan M. Damjanovic, Geoeye

Coffee Break

15:00 to 15:30
Please Visit the Exhibitions!

Next… "Operational Perspectives continued"

Day 1: Operational Perspectives
15:30 to 17:00

- "An Automated GIS Approach to Aeronautical Data Sharing"
  - Sean Grant, ESRI/Mita Hajirakar, Safe Software on AENA Project
- Military Implementations
  - Col. Edward Rosado, USAF
- Generated AIXM Code in the World of Terminal Area Route Generation and Evaluation
  - Faisal Arain, The MITRE Corporation
- AIXM-Centric Automation in AIS France
  - Stefan Dubet, AIS France

Day 2: Realizing an Digital Environment
09:00 to 10:30

- Implementation of Web Services during SWIM Segment 1
  - Jeff Hobbs, FAA
- AIXM 5 in Practice: Tools, Research, and Actual Implementations
  - Frank Suykens, Luciad
- SUA/AGIS
  - Navin Vembar, CNA
  - Shaelynn Hales, CNA
- US DOD AIXM Implementations
  - Jerry Leicht, NGA

Coffee Break

10:30 to 11:00
Please Visit the Exhibitions!

Next… "OWS-6"

Day 2: OWS-6
11:00 to 12:30

- Introduction
  - Nadine Alameh, MobiLaps/OGC
- AIM Thread
  - Nadine Alameh
- Event Architecture
  - Nadine Alameh & Ian Painter, Snowflake
- Demonstrations
  - Nuke Goldstein & Jeff Harrison, Carbon Project
  - Frank Suykens, Luciad
  - Todd Sprague, PCAvionics
- Lessons Learned
  - David Burggraf, Galdos

Lunch Break

12:30 to 13:30
Please Visit the Exhibitions!

Next… "Implementation Experiences"

Day 2: Implementation Experiences
13:30 to 15:00

- Integrating AIS / MET Data Link Applications with Onboard Data Bases
  - Gary Livack, FAA
- D-AIM trials
  - Roger Li, LFV
- ATI XML Reliable Messaging – TypeX
  - Mansour Rezaei Mazinani, SITA
- Our Experience with D-AIM based on AIXM
  - Takashi Hatta, ATC Systems Service, Ltd., Japan

Coffee Break

15:00 to 15:30
Please Visit the Exhibitions!

Next… "Digital NOTAM"

Day 2: Digital NOTAM
15:30 to 17:00

- Digital NOTAMs
  - Eddy Porosnicu, EUROCONTROL
- Digital NOTAMs
  - Daniel Miller, FAA
  - Don Smith, CSSI, Inc.
  - Vinod Vallikat, CGH Technologies, Inc.
- AIXM 5.1
  - Eddy Porosnicu, EUROCONTROL

Day 3: WXXM
09:00 to 10:40

- MET in the Single European Sky
  - Ken Reid, EUROCONTROL
- NextGen Network-Enabled Weather Overview
  - Oliver Newell, MIT Lincoln Laboratories
- WXXM 1.1 Development and Roadmap
  - Oliver Newell, MIT Lincoln Laboratories
  - Kajal Claypool, MIT Lincoln Laboratories

- Operational Opportunities
  - Rick Day, Senior VP Operations, FAA

Coffee Break

10:40 to 11:00
Please Visit the Exhibitions!

Next… "Conference Summary"

Day 1 (Before Lunch) – May 12, 2009	
Examine how AIXM/WXXM can be used to provide graphical visualization and common situational awareness in future aviation applications.	
08:30 – 09:30	Registration and Exhibits
09:30 – 10:00	*Welcome and Introduction* *Overview of the Conference* – Brett Brunk, FAA and Eddy Porosnicu, EUROCONTROL
10:00 – 10:45	• *NextGen Perspective* – Charles Leader, FAA • *SWIM – The Big Picture* – Ken Reid, EUROCONTROL
10:45 – 11:15	Coffee Break / Exhibits
11:15 – 12:30	Using Standards • *Need for Global Standards* – George Percivall, Open Geospatial Consortium (OGC) • *ICAO AIS/AIM Study Group* – David Lewtas, ICAO • *4-D Weather Data Cube* – Tom E. Ryan, FAA; Jason Tuell, NWS; and Lt. Col. Bruce Lambert (USAF)

Day 1 (After Lunch) – May 12, 2009
Examine how AIXM/WXXM can be used to provide graphical visualization and common situational awareness in future aviation applications.

13:30 – 15:00	Operational Perspectives and Implementation Experiences: AI and MET • *Publishing Obstacle data in AIXM – Kevin Haggerty, FAA* • *Integrating Weather into the Cockpit* – Eldridge Frazier, FAA • *Integrating Weather into Decision Support Tools* – Dave Pace, FAA • *Handheld AIM: Challenges and Solutions* – Robert McMullen, FAA and Todd Sprague, PCAvionics • *Importing and Exporting from AIXM to other Airport GIS Formats* – Dejan M. Damjanovic, Geoeye
15:00 – 15:30	-Coffee Break – Exhibits
15:30 – 17:00	Operational Perspectives and Implementation Experiences • *"An Automated GIS Approach to Aeronautical Data Sharing"* – Sean Grant, ESRI/Mita Hajirakar, Safe Software on AENA Project • *Military Implementations* – Col. Edward Rosado, USAF • *Generated AIXM Code in the World of Terminal Area Route Generation and Evaluation* – Faisal Arain, The MITRE Corporation • *AIXM-Centric Automation in AIS France*– Stefan Dubet, AIS France

Day 2 (Before Lunch) – May 13, 2009
Morning: Digital Environment and OGC Web Services Test Bed (OWS-6)
Afternoon: Industry Update and Digitizing NOTAMS

08:30 – 09:00	Exhibits
09:00 – 10:30	Realizing a Digital Environment • *Implementation of Web Services during SWIM Segment 1* – Jeff Hobbs, FAA • *AIXM 5 in Practice: Tools, Research, and Actual Implementations* – Frank Suykens, Luciad • *SUA/AGIS* – Navin Vembar and Shaelynn Hales, CNA • *US DOD AIXM Implementations*– Jerry Leicht, NGA
10:30 – 11:00	Coffee Break – Exhibits
11:00 – 12:30	OWS-6 • *Introduction* – Nadine Alameh, MobiLaps/OGC • *AIM Thread* – Nadine Alameh • *Event Architecture* - Nadine Alameh & Ian Painter, Snowflake • *Demonstrations* – Nuke Goldstein & Jeff Harrison, Carbon Project; Frank Suykens, Luciad; Todd Sprague, PCAvionics • *Lessons Learned* – David Burggraf, Galdos

Day 2 (After Lunch) – May 13, 2009
Morning: Digital Environment and OGC Web Services Test Bed (OWS-6)
Afternoon: Industry Update and Digitizing NOTAMS

13:30 – 14:00	*Integrating AIS / MET Data Link Applications with Onboard Data Bases*– Gary Livack, FAA
14:00– 15:00	Implementation Experiences • *D-AIM trials* – Roger Li, LFV • *ATI XML Reliable Messaging - TypeX* – Mansour Rezaei Mazinani, SITA • *Our Experience with D-AIM based on* AIXM – Takashi Hatta, ATC Systems Service, Ltd., Japan
15:00 – 15:30	Coffee Break - Exhibits
15:30 – 17:00	Digital NOTAMS • *Digital NOTAMs* – Eddy Porosnicu • *Digital NOTAMs* – Daniel Miller, FAA, Don Smith, CSSI, Inc., and Vinod Vallikat, CGH Technologies, Inc. • *AIXM 5.1* – Eddy Porosnicu

Day 3 – May 14, 2008
Morning: Data Fusion: MET into ATM and Conclusion

0830 – 09:00	Exhibits
09:00 – 10:20	WXXM – Development and Use • *MET in the Single European Sky* – Ken Reid • *NextGen Network-Enabled Weather Overview* – Oliver Newell, MIT Lincoln Laboratories • *WXXM 1.1 Development and Roadmap* – Oliver Newell and Kajal Claypool, MIT Lincoln Laboratories
10:20 – 10:40	*Operational Opportunities* – Rick Day, FAA
10:40 – 11:00	Coffee Break- Exhibits
11:00 – 12:00	Summary and Discussion – Brunk/Porosnicu • *Next steps* • *Discussion and Issues* • *How to comment*

Question Protocol

- Questions will be answered after presentations are complete
  - Please raise your hand and a microphone runner will bring you the microphone
- There will be a questionnaire at the end of the conference for any comments or suggestions you may have for next year's conference
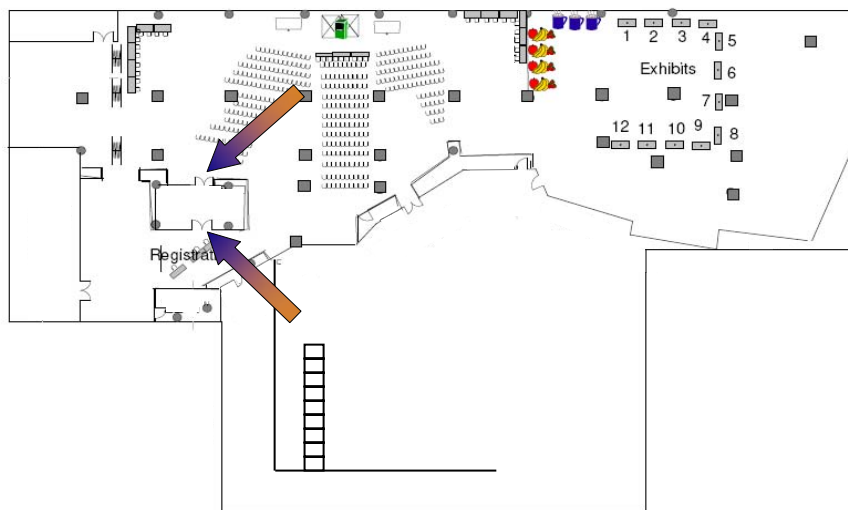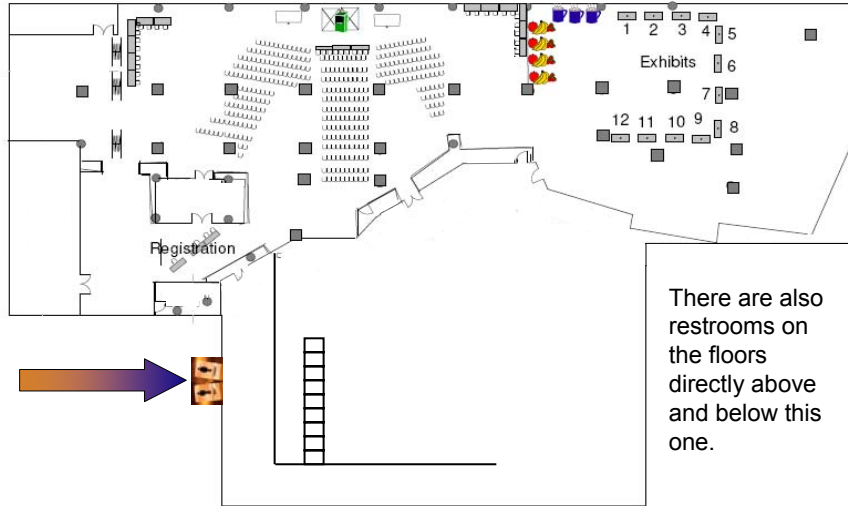
Housekeeping

Emergency Information

- In case of emergency
  - Please proceed to the nearest emergency exit with caution
  - The hotel emergency line is 55 (just pick up a hotel phone and dial)
  - Nearest Hospital is
    - INOVA Alexandria Hospital
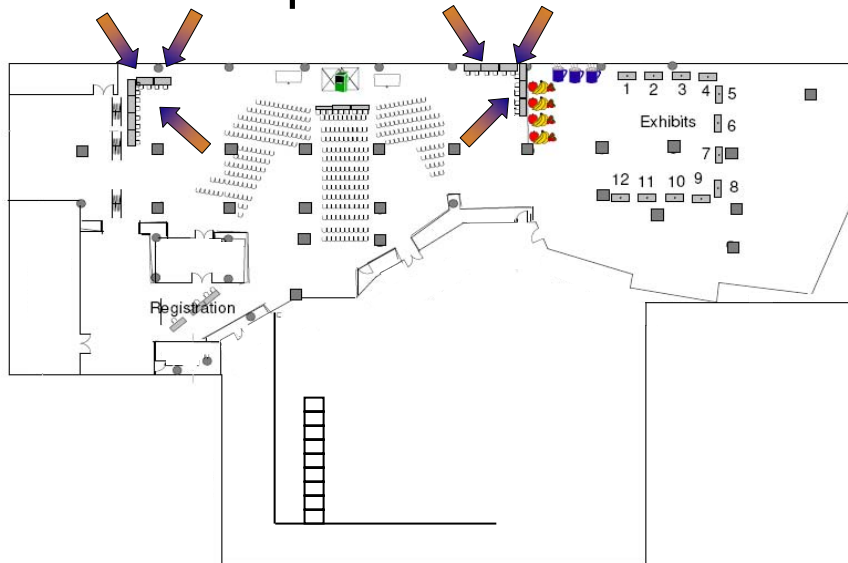   - 4320 Seminary Rd, Alexandria, VA
    - (703) 504-3000

Emergency Exits

Restrooms

There are also restrooms on the floors directly above and below this one.

Computer Stations

Computer Stations

- There are multiple computer stations near power outlets around the room
    - Don't leave your computer unattended
- There is internet connection for a small number of people
    - If you aren't using the internet please log off

Breaks and Lunch

- Please help yourself to the food and beverage near the exhibits
- If you would like information on local restaurants for lunch or dinner, refer to your pamphlet page 16
- The exhibit hall cannot be locked but there will be someone here at all times.