

*Global Harmonization  
Through Collaboration*

**FIXM**  
**Introduction**

*Presented By: Rich Jehlen*

*Date: August 28, 2012*



**Federal Aviation  
Administration**

**AIR TRANSPORTATION INFORMATION  
EXCHANGE CONFERENCE - (FEATURING  
AIXM, WXXM AND FIXM)**

August 28, 2012 - August 31, 2012  
NOAA Auditorium and Science Center  
Silver Spring, Maryland

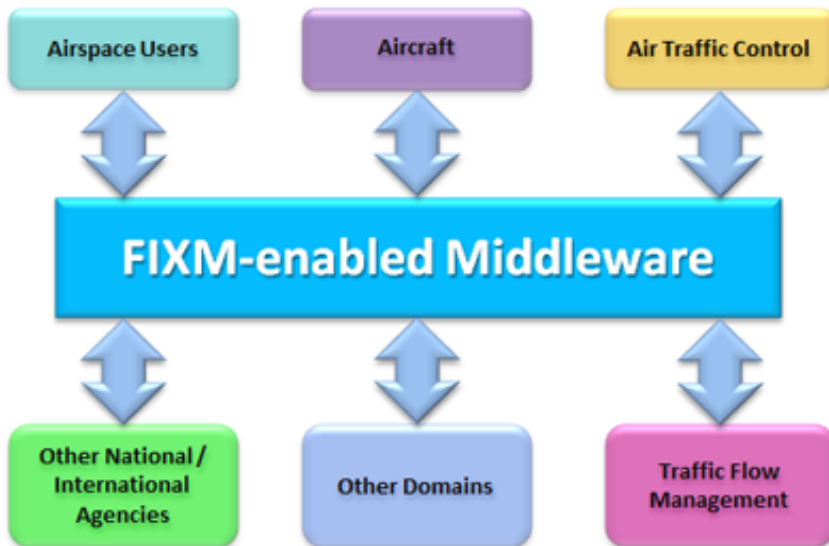


# Introduction and Background



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- **Welcome to the ATIEC Seminar!**
- Thanks to all international partners, research organizations and industry members



- **What is FIXM?**
  - A data interchange format for sharing information about flights throughout their lifecycle.
  - A UML model of the flight information that will contain relationships and incorporate the use of standards for the definition of basic data types
- **FIXM Benefits**
  - Interoperability
  - Harmonization
  - Data Management
- **Flight Object (FO)**
  - An extensible and dynamic collection of data elements that describes an individual flight.
  - A common regional reference for all system information about the flight
- **Flight Object Exchange Service (FOXS)**
  - The technical or application infrastructure required to exchange standardized flight data.
  - Used for overall support of the FO, potentially including areas such as FO services, read/write privileges, security and encryption, performance, etc.
  - A collection of functions distributed amongst multiple international systems

# FIXM Version 1.0



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- Released publically August 17, 2012
- Focuses on data elements that can express the ICAO 2012 Flight Plan
- Contains first elements from ED-133 and additional items will be incorporated in future FIXM releases
- Other data elements included:
  - Global Unique Flight Identifier (GUFID)
  - NAS Flight Plan Data
- The FIXM 1.0 documentation covers the following areas:
  - Primer
  - Data Dictionary
  - Developers Manual
  - UML Models and Schemas

# Future Activities - Schedule



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## *Next Major Activities:*

- Complete development and release hazardous cargo as a part of FIXM v1.1
  - Efforts being progressed with our partners and in conjunction with IATA
- Planning efforts beginning for a FO “mini-global”
  - Builds on earlier cross-Atlantic and recent cross-Pacific demonstrations
  - Welcome participation from ANSPs and operators

Ver.	Target Release Date	Version Contents
1.0	Aug 2012	<ul style="list-style-type: none"> <li>• ICAO FP 2012</li> <li>• GUFi</li> <li>• NAS Flight Plan Data</li> <li>• Initial ED-133 element inclusions</li> </ul>
1.1	Dec 2012	<ul style="list-style-type: none"> <li>• Hazardous Cargo (Dangerous Goods)</li> </ul>
2.0	Aug 2013	<ul style="list-style-type: none"> <li>• ICAO 2012 ATS (15 remaining messages)</li> <li>• TFM (Strategic)</li> <li>• Fleet prioritization, TFM DE, CDM</li> <li>• Airport CDM (Eurocontrol)</li> </ul>
3.0	Aug 2014	<ul style="list-style-type: none"> <li>• Surface data (anything not covered in Airport CDM and TFM/CDM elements)</li> <li>• ANSP to ANSP boundary crossing (tactical)</li> <li>• 4D Trajectories (1st package)</li> </ul>
4.0	Aug 2015	<ul style="list-style-type: none"> <li>• Security elements (1<sup>st</sup> package)</li> <li>• Unmanned Aircraft Systems (UAS)</li> <li>• 4DT (2<sup>nd</sup> package)</li> </ul>
5.0	Aug 2016	<ul style="list-style-type: none"> <li>• Flight capabilities (1<sup>st</sup> package)</li> <li>• Operator Constraints (1<sup>st</sup> package)</li> <li>• Operator Preferences (1<sup>st</sup> package)</li> <li>• Security (2<sup>nd</sup> package)</li> </ul>
6.0	Aug 2017	<ul style="list-style-type: none"> <li>• Operator SOP – TBD</li> <li>• Commercial Space</li> </ul>
7.0	Aug 2018	<ul style="list-style-type: none"> <li>• Inclusion of WX capabilities and constraints</li> </ul>



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- The release of FIXM Version 1.0 is a significant accomplishment
  - Look forward to your input and participation as it matures
  - This is the first step on the road to a global, flight information standard
- Encourage your participation in the technical sessions

<http://www.fixm.aero>



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# Questions



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# Contact Information



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