Global Information
Management

FIXM Development

Collaboration,Partnership,Success

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FIXM – A Global Approach

Collaboration

- The FIXM standard is aligned with the ICAO vision
- Interested **stakeholders** are able to contribute in the development of the standard
- The FIXM work requires extensive international **coordination** across multiple international teams



Partnership

- FIXM CCB
- The International aviation organizations
- Industry stakeholders
- FIXM development team

Success

- FIXM Development
- FIXM releases
- FIXM usage

FIXM Requirements, Technical Approach

FIXM v 1.0, 2.0, 3.0 FIXM v 4.0 coming soon...





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Objectives

- Ensure that FIXM 4.0 is in support of ICAO **FF-ICE/Step 1**.
- Gather FF-ICE/step 1 requirements. Propose FIXM changes to ensure that FIXM 4.0 is fully **compliant with ICAO provisions work.**



Work in progress

- New data elements have been identified. The mapping between 4D trajectory data and FIXM model is in review by FIXM Development team.
- The 4DT team is working on **open issues** with the intent of submitting any updated 4DT requirements to FIXM CCB by October 2015.
- The messaging services requirements have been proposed to ICAO
 ATMRPP working group meeting in July, 2015, Singapore.
- The FIXM team is coordinating with the provisions team to develop a technological solution for documenting and enforcing message rules.

FIXM v4.0 Change requests





Joint SESAR / FAA review of the FIXM v3.0 content

Flight Information Exchange Model Data

Dictionary
The High telepromation Exchange Model Data

Dictionary
The High telepromation Exchange Model PAM in a solid standard for exchange interest production of the Commission of the Co

NOTE: In support of ICAO FF-ICE, the content of the FIXM v3.0.1 Data Dictionary reflects the continuous progress and evolution under discussion. Global convergence is expected to be achieved in FIXM 4.0.

Objectives

- Review the FIXM data elements as published in version 3.0
- Identify any remaining misalignments and needed improvements
- Document change proposals to enhance the content of FIXM v4.0







Outcome

- List of Data Elements proposed to be removed from the Core Data Dictionary
- Detailed improvements proposals for Data Elements remaining in the Core Data Dictionary
- Changes to the Data Types
- Simple changes proposed to the Logical Model
- Request for CCB opinion on a DE Metadata field

FIXM v4.0 Change requests





FIXM Technical workshop

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Objectives

- Share experiences & lessons learned when implementing FIXM v3.0.
- Propose a set of topics to be addressed in order to ensure FIXM 4.0 is mature and usable by the whole FIXM community.

March 2015 – hosted by EUROCONTROL



> 25 participants from 13 international companies or institutions

Quick wins

- Achieve greater alignment of FIXM with ICAO / AIXM
- Achieve greater alignment of FIXM Time and Geometry types with ISO 19136 (GML)
- Best Practices for disallowing plain wrong data

FIXM usage

- Central topic of discussions
- Strongly dependent on FF-ICE/1 information exchange requirements
- FO paradigm vs Service Orientation

FIXM v4.0 Change requests

Escalation to FIXM CCB for resolution





Extended Flight Plan extension to FIXM v3.0

Objectives

- Develop an extension supporting the SESAR concept of Extended Flight Plan;
- Support SESAR V&V exercise of the E-FPL (end of 2015).
- Further improve technical **knowledge** of the **FIXM v3.0 content and design**;
- Support the development of the **ops requirements for FIXM** by making available a candidate FIXM solution satisfying European requirements for flight information exchange in pre-flight;
- Start addressing issues related to **messages** in the context of FIXM





Outcome

- Extension is close to completion as of Aug 2015 further iterations foreseen for bug fixes
- Implementation in a <u>pre-ops</u> environment by the Network Manager has now started
- Some potential issues with FIXM core were identified

FIXM v4.0 Change requests





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