



Information Management Panel Working Group A

Status Report

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*Air Transportation Information Exchange Conference (ATIEC)
25 -27 August 2015*

Background

- **Twelfth Air Navigation Conference**
 - [Agenda 3] recommendation to “update the information management /system wide information management (IM/SWIM) working arrangements.”
 - One Specific Recommendation: Review the NOTAM system & develop options for its replacement
- **First Information Management Panel Meeting – January 26th – 30th 2015**

Background

- **Aviation System Block Upgrades (ASBUs) and Work Program Items (WPI)**
 - drive the panel work program, tasks, and expected deliverables.
- **Four IMP Working Groups:**
 - Working Group A: Information Services and NOTAM
 - Working Group B: Information Architecture and Management
 - Working Group C: SWIM Awareness and Communication
 - Working Group D: Governance
- **Job Cards developed for each Working Group**

IMP Working Group A Job Card

- Job Card: Provisions and guidance on the use of ATM messaging including review of NOTAM
- Job Card finalized: July 2015
- Activities
 - Findings and Shortfalls
 - Requirements
 - Conops
 - Scenarios
 - Transition Plan
 - Implementation Plan

ANWP Job-card

Title	Provisions and guidance on the use of ATM messaging including review of NOTAM	Reference:	IMP.xxxx
Source	ANC12		
Problem Statement	<p>The evolution of the ATM system requires a modern means of distributing information to all ATM actors in accordance with the character and temporality of the information and the specific needs of the actor. For example, the current NOTAM system is based on an archaic teletype "address and send" process providing a bulletin board functionality originally intended only to provide a means to flight personnel of updates and supplements to charted information.</p> <p>The current reliance on the use of NOTAM to disseminate information has led to proliferation of information which has become an issue of increasing concern. Operational personnel are finding it increasingly difficult to parse pertinent information and it is becoming increasingly evident that safety critical messages are not always accessed.</p> <p>It has also become apparent that the needs of the broader ATM community beyond air operators, must be recognised and accommodated in the redevelopment of capabilities that will more effectively provide information to operational actors.</p> <p>Current efforts to mitigate the issues have included the development of digital NOTAM, providing improved ways of sorting and displaying information. However, there remains the need for increasing information integration. This recognises that SWIM will provide increased opportunities to access and integrate other message streams to give a complete situational "picture". This also recognises that the "situational picture" must be shared across a wider operational picture than the premise that NOTAM is built on. Finally, there is an assortment of regional and local messages that require standardization.</p>		
Specific Details (including impact statements)	<p>This work concerns information which is of direct operational significance and which may immediately affect aircraft operations. This information is outside the domain of published information and distributed data sets but may contain late notified updates to that information. This is the information normally provided by NOTAM in the current system as well as augmented by other transmitted information streams.</p> <p>The work will entail developing a concept for the provision and access of operationally significant information that is not provided as part of regularly scheduled and published information and the consequent required changes to associated ICAO provisions and documentation. This will encompass a review of the functional role currently provided by NOTAM, as well as other messaging channels and determining the most effective means of contributing to the situational awareness all operational actors. In identifying improvements and alternatives, an assessment of how best to exploit available and foreseen technology will be considered as well as the effective future integration into a SWIM framework.</p> <p>Activities will include:</p> <ul style="list-style-type: none"> • Investigating and documenting the findings & shortfalls concerning current state ATM messaging channels including NOTAM; • An analysis of the current and anticipated requirements for information of direct operational significance outside of normal cyclic releases; • Identifying the requirements for information services (including aspects such as quality of service, security) as applicable to ATM operational actors; • Developing a concept and scenarios for information services including a core set of minimum services to be provided at the global level. It will include guidelines and criteria for identifying such core services; • Developing an implementation and transition plan; • Developing a guidance document; and • Taking into account current work on the standardised reporting and delivery of operationally critical information being performed by the Runway Friction Task Force (subgroup of the Aerodrome Design and Operations Panel) and OPLINK Panel. 		
Expected Benefit	<ul style="list-style-type: none"> • Improve safety by providing the ATM community with the capability to access pertinent operational information meeting the needs of the specific actor. • Deliver information to the ATM community leveraging evolving technologies. 		



IMP Working Group A

- Rapporteur

- Abigail Smith

- Members

- Athanse Ahonagan

- Meng Aimin

- Paul Bosman

- Carol Couchman

- Deborah Cowell

- Johny Ferrira

- Razvan Guleac

- Jean Francois Grout

- Su Hang

- Diana Liang

- David Leow Shin Hwah

John Moore

Saffet Öztürk

Gregory Pray

Abdalla Al Rashidi

Hiroyasu Shirasak

Luis Souza

Yelena Nikolayevna

Stepanova

Anthony Stevens

John Synnot

Sam van der

Stricht

Richard Williams

IMP Working Group A Activities

- **Definition of ATM services**
 - Provide information paper on the scope/definition of ATM services for pre-departure
Date – Ongoing
 - *Information Paper:*
 - *Meng Aimen – CAAC*
- **Document findings & shortfalls of the “as is” ATM messages including NOTAM**
 - Survey their current environment; document today services in operations**; document known shortfalls; document current and plan (2015-2017) research activities to address shortfalls; *Date – Ongoing*
 - *Information Papers*
 - *Jean-Francois Grout / John Synnott – IATA*
 - *Diana Liang - FAA*
 - Publish consolidated document of current environment and shortfalls – *Date – November 2015*

IMP Working Group A Activities

- **Develop Information Services High Level Requirements. *Date - September 2016***
- **Develop a Concept for information services including a core set of minimum services to be provided at the global level. It will include guidelines and criteria for identifying such core services. *Date - 2016***
 - Understand what is the core set of minimum services needed at the global level
 - Provide working/information paper on research/analysis on the minimum set of information across FIRs. *Date – September 2015*
 - Develop concept document for information services
 - Develop annotated outline including section of security, performance and bandwidth requirements; *Date - December 2015*
 - Draft 1 of concept document; *Date – April 2016*
 - Draft 2 of concept document; *Date – June 2016*
 - Final concept document. *Date – October 2016*
- **Provide recommendations to update provision**
 - Review current Annexes and PANS
 - Provide recommendations on Annexes and PANS

IMP Working Group A Meetings

- **First Monday of every month.**
 - Six meetings since January 2015
- **Full day meetings August 24[&] 28, 2015**
- **Agenda:**
 - *Presentations:*
 - *Development of Information Services High Level Requirements*
 - *Review Information Services Concept on Google Drive*
 - *Development of Information Services Scenarios*
 - *ATM Messaging Minimum Data Set*

QUESTIONS

