

INTERNATIONAL CIVIL AVIATION ORGANIZATION

A United Nations Specialized Agency

WKSH/ASBU/NAIROBI/2013-PPT01

ANConf/12- Outcome and Follow-up

Air Navigation Bureau

WORKSHOP ON ASBU FRAMEWORK: ALIGNMENT OF REGIONAL AND NATIONAL PERFORMANCE PLANS, PLANNING, IMPLEMENTATION, MONITORING AND REPORTING (NAIROBI, KENYA, 21-25 OCTOBER 2013)

12th Air Navigation Conference





- <u>10</u> Days
- <u>232</u> Conference Recommendations
- <u>153</u> Working Papers (WP)
 - **<u>62</u>** Information Papers

• <u>1,030</u>

<u>120</u>

<u>30</u>

- **Participants**
- States
- International Organizations
 - **Media Articles**

(IP)

12th Air Navigation Conference Summary of Discussions



12th Air Navigation Conference ICAO Headquarters Montreal, Canada 19-30 November 2012

- Common understanding for future air navigation system
- Harmonization of ATM modernization
- Formalize future of infrastructure & equipage
- Endorsement of revised ICAO Global Air Navigation Plan (GANP)
- Agreement of Aviation System Block Upgrades (ASBU)



AN-Conf/12 : Outcomes Item 1 Strategic Issues in Support of One Sky

- Revised draft Fourth Edition of the Global Air Navigation Plan (Doc 9750, GANP)
- Associated technology roadmaps



AN-Conf/12 : Outcomes Item 2: Improving Airport Performance





- Conference supported module on:
 - Integration of arrival/departure/surface management
 - Increasing use of PBN and GBAS based instrument procedures
 - Optimized management of wake turbulence separation
 - Enhanced surface surveillance
 - Airport collaborative decision-making

AN-Conf/12 : Outcomes Item 3: Interoperability & Data – SWIM



- Conference supported module on:
 - Application of SWIM
 - FF-ICE
 - Integration of aeronautical and ATM information



AN-Conf/12 : Outcomes Item 4: Optimum Capacity & Efficiency



- Conference supported module on:
 - Network Operations
 - Airborne separation
 - Airborne collision avoidance systems & ground-based safety nets
 - The integration of remotely piloted aircraft into non-segregated airspace
 - Meteorological information supporting enhanced operational safety and efficiency



AN-Conf/12 : Outcomes Item 5: Efficient Flight Paths – through TBO

- Conference supported module on:
 - Improved flexibility and efficiency in descent profiles
 - Improved flexibility and efficiency in climb profiles
 - Data link surveillance and communications supporting TBO







• Conference recommendations on:

- Way forward in implementing updated GANP by PIRGs and States
- Development of Regional eANP
- In human performance context, determined where there may be need for global standardization or future emphasis
- Multi-party approaches to standards development that take advantage of coordination and collaboration within the ICAO/State relationship, and between ICAO and standards bodies



The Big Picture 12th Air Navigation Conference





- <u>4</u> ICAO Milestones
 - Global Air Navigation Plan (GANP)
 - 2012 Safety Report
 - ASBU Block 0 iKit
 - Air Operator Certificates (AOC) iKIT

• <u>8</u> Agreements Signed



ICAO-FSF MoC	Singapore- MITRE MoU	Singapore- Airbus Prosky MoC	ASECNA - France AFI FPP	ASBU IKIT
Singapore-FAA Sol	Singapore- SESAR JU MoC	India - MITRE MoU	ASECNA,ICAO, Thales, INEO	





- Environmental & Operational Assessments
 - Committee on Aviation Environmental Protection (CAEP) modeling environmental benefits of ASBU Block 0 modules. More information by the end of 2013
 - IATA assessing the operational benefits
- Technical Work
 - Air Navigation Information Management (IM) Divisional Meeting (2015)
 - Aviation Data Link Symposium: Now and Tomorrow (2015)



Next Steps

Operational Policies

- Incentives to allow early benefits of new technologies and procedures (including economic incentives)
- Financing Policies
 - Reviewed by the
 Air Transport Conference (AT Conf/6) held in March 2013
 - Task assigned to service providers, operators and economists





Next Steps: Advanced ATM Symposium Today's Opportunities for Saving Fuel and Reducing Emissions



4-6 November 2013, ICAO Headquarters, Montréal Focus on

- Measurable improvements
- Fuel savings & reducing emissions
- Global efficiency
- Cost effectiveness

Next Steps: Advanced ATM Symposium

Today's Opportunities for Saving Fuel and Reducing Emissions



- Showcase of achievements in ATM since 11th Air Navigation Conference
 - Experience sharing
 - Learning and training
- Environmental impact
 - Measure it
 - Publicize it
- Four priority areas
 - CDM/ATFM
 - Continuous Operations (CCO) / Continuous Descent Operations (CDO)
- Use of the ICAO Fuel Savings Estimation Tool (IFSET)

Next Steps: BUDDS





- An end-to-end system demonstration of new air traffic management concepts
- States and Industry are invited to play a part in this event by showing their latest developments and best practices in the field of air traffic management
- Planned in 2014

Next Steps: BUDDS





Intended Outcomes

- International exposure to potential systems and technologies to support Block 0 implementation
- Identification of: Business case benefits of implementing Block 0 and Economic opportunity cost of not implementing Block 0
- Reinforcement of Block 0 implementation strategies (ASBU iKITS)
- Agreed concept of Operations (CONOPS) for Block 1 to enable the appropriate standards and procedures to be developed
- Demonstration of intended performance scenarios for Blocks 1, 2 and 3





AN-CONF/12 Recommendation: 6.12

- Development of SARPs, procedures and guidance material
 - a) Improve its project management and coordination of contributing ICAO panels, study groups and other groups tasked with the development of ICAO provisions



Recommendation 6/1 – Regional performance framework – planning methodologies and tools That States and PIRGs:

a) finalize the alignment of regional air navigation plans with the Fourth Edition of the *Global Air Navigation Plan* (Doc 9750, GANP) by May 2014;

b) focus on implementing aviation system block upgrade Block 0 Modules according to their operational needs, recognizing that these modules are ready for deployment;



Recommendation 6/1 – Regional performance framework – planning methodologies and tools

That States and PIRGs:

- c) use the eANPs as the primary tool to assist in the implementation of the agreed regional planning framework for air navigation services and facilities;
- d) involve regulatory and industry personnel during all stages of planning and implementation of aviation system block upgrade modules;
- e) develop action plans to address the identified impediments to air traffic management modernization as part of aviation system block upgrade planning and implementation activities;

AN-Conf/12 : Follow-up action



- Follow-up by PIRGs
 - Every PIRG meeting in 2013 will be presented with an action plan to implement relevant Recommendations
- Follow-up by States
 - A State letter by the SG will be issued in May 2013 with an action plan to implement relevant Recommendations

Follow-up by Secretariat

 The ANC will be reviewing and allocating in May 2013 the relevant Recommendations to Expert Groups or the Secretariat for developing SARPs and guidance material



