



International Civil Aviation Organization


ASBU/SIP/Lima/2012-WP/5

ANConf/12 – Agenda


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Workshop on preparations for ANConf/12 – ASBU methodology
(Lima, 16-20 April 2012)

Outline



- Theme of the Conference
- Agenda items 1 to 6
 - Topics
 - Action



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TWELFTH AIR NAVIGATION CONFERENCE (ANConf/12) – Theme



- **The theme - One Sky concept**

- The concept revolves around conceiving the notion globally, developing the implementation plans regionally, and implementing required infrastructure and procedures both regionally and locally.
- Under One Sky, international traffic flows are addressed from end-to-end.
- It is now necessary to agree to a new way of global planning, developing standards, and identifying and implementing operational improvements - Using an enhanced long-term planning regime based on the ASBUs initiative
- the One Sky high-level global architecture should enable the digital environment, integrate aerodromes with a block-to-block strategy, facilitate trajectory-based air traffic management and support performance-based technologies.

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Agenda Item 1: Topics



- **Strategic issues that address the challenge of integration, interoperability and harmonization of systems in support of the concept of “One Sky**
- 1.1 Global Air Navigation Plan (GANP) – Framework for Global Planning
 - ASBU methodology and contents
 - Communications roadmap
 - Navigation roadmap
 - Surveillance roadmap
 - Avionics roadmap
 - Information Management roadmap (AIM)
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Agenda Item 1: Action



- *The Conference will be invited to:*
 - *endorse the concept of ASBUs;*
 - *endorse CNS, AIM and Avionics roadmaps;*
 - *agree on what more needs to be done in terms of the further development of the roadmaps and ASBUs, as well as the way in which this will done;*
 - *establish timelines and methodologies for the development of a frequency spectrum strategy*
 - *endorse the updated GANP, and*
 - *identify and endorse a methodology to periodically update GANP to ensure there are systematic updates to the rolling fifteen-year planning horizon for ASBUs and roadmaps.*

Agenda Item 2: Topics



- **Aerodrome Operations – Improving Airport Performance**
 - 2.1 Airport capacity and Airport security
 - 2.2 Performance-based navigation (PBN) – a practical way to improve airport performance with safety and efficiency
- Under this agenda item, the modules that support the Block 1 under PIA- 1 Will be presented. These are **Optimized Airport Accessibility**, Increased Runway Throughput through **Dynamic Wake Turbulence** Separation, Enhanced Safety and Efficiency of **Surface Operations**, Optimized Airport Operations through **Airport Collaborative Decision-making**, **Remote Operated Aerodrome Control Tower** and Improved Airport Operations through **Departure, Surface and Arrival Management**

Agenda Item 2: Action



- *The Conference will be invited to*
 - *endorse the ASBU modules related to aerodrome operations; and*
 - *develop strategies and provide guidance on future work for ICAO, States and industry related to PBN, CDM at airports and security issues that have an impact on the ATM system.*

Agenda Item 3: Topics



- **Interoperability and data – through globally interoperable system-wide information management (SWIM)**
 - 3.1 Performance improvement through the application of system-wide information management (SWIM)
 - 3.2 Improved operational performance through flight and flow – information for a collaborative environment (FF-ICE)
 - 3.3 Service improvement through digital AIM
- Under this agenda item, the modules that support the Block 1 under PIA- 2 will be presented These are Performance Improvement through the **Application of SWIM**, Service Improvement through **Integration of all Digital ATM Information**, and Increased Interoperability, Efficiency and Capacity through **FF-ICE** Application before Departure.

Agenda Item 3: Action



- *The Conference will be invited to:*
 - *endorse the ASBU modules related to interoperable systems and data; and*
 - *develop strategies and provide guidance on future work for ICAO, States and industry related to SWIM, FF-ICE, digital AIM and integrated meteorological information.*

Agenda Item 4: Topics



- **Optimum Capacity and Efficiency – through global collaborative ATM**
 - 4.1 Efficient management of airspace and improved flow performance through collaborative decision-making (CDM), Increased capacity and flexibility through interval management and Safety net
 - 4.2 Dynamic management of special use airspace and Integration of Remotely-Piloted Aircraft Systems into Non-Segregated Airspace.
 - 4.3 Better Operational Decisions through Integrated Weather Information
- Under this agenda item, the modules that support the Block 1 under PIA- 3 will be presented .These are Improved Operations through **Free Routing**, Enhanced Flow Performance through **Network Operational Planning**, Better Operational Decisions through **Integrated Weather Information**, Increased Capacity and Flexibility through **Interval Management**, and **Initial Integration of Remotely-Piloted Aircraft Systems into Non-Segregated Airspace**.

Agenda Item 4: Action



- *The Conference will be invited to:*
 - *endorse the ASBU modules related to optimum capacity and efficiency; and*
 - *develop strategies and provide guidance on future work for ICAO, States and industry related to CDM for ATM, dynamic sharing of airspace and integration and accommodation of military traffic into civil airspace.*

Agenda Item 5: Topics



- **Efficient Flight Paths – through trajectory-based operations**
 - 5.1 Improved operations through enhanced airspace organization and routing
 - 5.2 Improved traffic synchronization through 4D trajectory-based operation (TBO)
 - 5.3 Increased flexibility and efficiency in descent and departure profiles
- Under this agenda item, the modules that support the Block 1 under PIA- 4 will be presented. These are **Improved Traffic Synchronization and Initial 4D Trajectory-based Operation and Improved Flexibility and Efficiency in Descent Profiles.**

Agenda Item 5: Action



- *The Conference will be invited to:*
 - *endorse the ASBU modules related to efficient flight paths; and*
 - *develop strategies and provide guidance on future work for ICAO, States and industry related to Improved Traffic synchronization through 4D trajectory-based operation (TBO) and Increased flexibility and efficiency in descent and departure profiles.*

Agenda Item 6: Topics



- **Future Direction**
 - 6.1 Implementation plans and methodologies, Human factors and Financing
 - 6.2 Standardization – approach to SARPs development in support of One Sky
- Under this agenda item, the **Regional eANPs**, challenges for implementation will be presented and discussed. **Human factors** will also be addressed where there is or could be human interaction, as a user and/or as an information source. In an increasingly multidisciplinary environment, ensuring the efficient development and delivery of relevant **global standards** in a coordinated and timely manner remains a significant challenge and the conference will make discuss and make appropriate recommendations.

Agenda Item 6: Action



- *The Conference will be invited to:*
 - *make recommendations to guide the way forward in implementing the updated GANP;*
 - *in the human factors context, determine where there may be need for global standardization or future emphasis; and*
 - *make recommendations on multi-party approaches to standards development that take advantage of coordination and collaboration within the ICAO/State relationship, and between ICAO and standards bodies, to support the implementation timeframes specified in the roadmaps.*

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