INTERNATIONAL CIVIL AVIATION ORGANIZATION

Regional Workshop on Aeronautical Surveillance
(Dakar, Senegal, 20 to 21 June 2011)

Agenda item 2:   **Summary of relevant activities of ICAO Aeronautical Surveillance Panel**

(Presented by the Secretariat)

Summary
This Working Paper presents a brief report on ICAO developments that are of interest to the Aeronautical Surveillance Panel, for consideration by the APIRG Aeronautical Surveillance Implementation Task Force.   Action by the meeting is **at Paragraph 3.**
Reference
Report of the 9th meeting of ICAO Aeronautical Panel.
This Working Paper is linked to ICAO strategic objectives **A & C.**

1.   Introduction

     The Aeronautical surveillance Panel held its 9th meeting in Brussels,Belgium from 4 to 8 October 2010. The meeting addressed issued related to the current and future work programme of the panel taking into consideration the harmonization action to be conducted with ACP and NSP in the frame of the 12th Air Navigation conference.

2.   Discussion

2.1   The current work programme of the ASP is reproduced in Appendix for ease of reference. It should be noted that Item 5 has now been transferred to the Airborne Surveillance Task Force (ASTAF).

2.2   The second meeting of the Working Group of the Whole (WGW/2) of the ASP is scheduled to be held in Montreal from 26 to 30 September 2011 in Conference Room 6 to finalize the aforementioned deliverables. It may be recalled that the previously scheduled dates were 3 to 7 October 2011. The change in dates has been made to facilitate the participation of ASP experts in the Global Air Navigation Technology Forum (GANTF- see 1.6 below) which will be held in the week before the newly scheduled dates. In this regard, the meeting is invited to initiate discussion on a suitable agenda for WGW/2.

2.3   The Air Navigation Commission reviewed, with panel Secretaries and Section Chiefs, all of the panel work programmes in November 2010 in order to gain a holistic and strategic view of where panels are with respect to their work and to identify areas where work may not be necessary and where greater integration may be required. Additionally, several panels' work programmes are related to the planned 12th Air Navigation Conference and such work will have to be mature by the time of the conference. The ALLPanel Meeting gave the Commission an opportunity to review panel work programmes, establish joint working groups where required, review the work programmes with respect to the Twelfth Air Navigation Conference and to discuss more efficient working methods. The meeting was therefore invited to identify any issues that need to be raised by the panel secretary at the aforementioned meeting.

2.4 One particular work item that needs additional attention is the development of a timeline indicating the projected evolution of ground surveillance systems and applications (Item No. 2). Coincidently, ICAO plans to e-publish CNS implementation itineraries in support of the Global Air Navigation Plan. These itineraries will identify preferred global CNS infrastructure and avionics equipment against airspace classifications for short term (next 5 years), medium term (5 – 15 years) and longer term operational requirements (> 15 years). Subject to the endorsement of the proposed effort by the 37th Assembly of ICAO (Montreal, 28 September to 8 October 2010), the timeline was proposed to be transformed into an interactive roadmap which will clearly indicate:

   a) who it applies to - an ANSP, aircraft operator, airframe manufacturer;
      b) where it applies – which State, region or flight information region;
      c) what equipment and capability is required;
      d) when the equipment and capability is required;
      e) why the equipment and capability is required – operational benefits or a mandate; and
      f) operational constraints and conditions to ensure that the benefits are achieved.

2.5   It is expected that the three implementation scenarios (for C, N and S) will be presented to and endorsed by the 12th Air Navigation Conference which is scheduled to be held in Montreal in late 2012. In this regard, ASP and other technical panels are invited to develop working papers presenting significant issues for the consideration of the Conference. The aforementioed timeline for surveillance is one of such input which should be finalized at WGW/2. Other input papers may be finalized and submitted to the Secretariat by April 2012.

2.6   In preparation for the 12th Air Navigation Conference, the Global Air Navigation Technology Forum (GANTF) will be held in Montreal from 21 to 23 September 2011. The description of the GANTF, as appearing in the current ICAO documentation, is given below:

>   *"Enabling technologies for a range of air navigation system components will bring efficiency and environmental benefits. While most of these technologies are an integral part of near-term deliverables from NextGen/SESAR, there are plenty of possibilities, either already available or in development, that may bring significant and tangible benefits to all corners of the globe. At the Global Air Navigation Technology Forum, the status of current and planned technology, infrastructure standardization, current/planned implementations and equipment availability will be reviewed with the objective of establishing agreed itineraries for harmonious and global implementation of CNS technologies with due consideration to operational requirements, aircraft equipage, radiofrequency environment, economic issues and coexistence with other CNS systems."*

2.7   All experts involved in various technical panels, study groups and task forces of ICAO are strongly encouraged to participate in the GANTF to contribute to and be informed by its proceedings, especially with regard to the preparation of the aforementioned timelines/implementation scenarios. It should be noted that the event will consist of presentations and exhibitions, i.e. there won't be any working papers and reports. GANTF and ASP WGW/2 are scheduled back to back to facilitate travelling arrangements of ASP participants.

2.8   A summary of significant meetings of interest to ASP are given below:

N°	Event	Venue	Date	
1.	**ALL Panels (ANC & panel secretaries)**	**Montreal**	**November 2010**	**Held**
2.	**ASP WG/10**	**Toulouse**	**11 to 15 April 2011**	**Held**
3.	**GANTF**	**Montreal**	**21 to 23 September 2011**	
4.	**ASG WGW/2**	**Montreal**	**26 to 30 September 2011**	
5.	**ASP WG/11**	**TBD**	**April 2012**	
6.	**12th Air Navigation Conference**	**Montreal**	**4th Quarter of 2012**	

3.   Action by the meeting

3.1   The meeting is invited to:

  a) Note the information and accommodate requests for action provided in this paper

  b) Identify issues to be raised at AFI ASI TF second meeting (mainly with respect to the work programme of the Task force and interaction with other APIRG bodies);

b) Request States and Organizations to make plans to ensure participation and contribution of their specialists to GANTF in September 2011; and
c) Discuss relevant submissions to be presented to the 12th Air Navigation Conference, (through APIRG bodies).

--- END ---

Appendix

Work Progamme of the ASP

AN Programme No.	Work Programme Item	Estimated Completion Date
D2-INF-RSI	1. Develop technical provisions for: a) increasing the capacity of 1 090 MHz extended squitter; b) passive acquisition of aircraft by Mode S radar; and c) determination/reporting of on-the-ground status by aircraft with no squat switch.	2011
	2. Develop a timeline indicating the projected evolution of ground surveillance systems and applications.	2011
	3. Develop guidance material on flight testing of new surveillance systems (i.e. ADS-B and MLAT)	2011
	4. Propose updates to existing material relating to surveillance and collision avoidance systems in light of operational experience.	2011
	5. In coordination with relevant external organizations and operational bodies, develop the following provisions in support of airborne surveillance applications; a) procedure for identification of reference aircraft;	2011
	b) functional requirements and related material for Airborne Traffic Situational Awareness – In-Trail Procedure (ATSA-ITP);	2010
	c) functional requirements and related material for merging and sequencing (M&S); and	2011
	d) relevant technical material needed for the aforementioned applications.	2011

— END —