



INTERNATIONAL CIVIL AVIATION ORGANIZATION

**TWENTY-SECOND MEETING OF THE
ASIA/PACIFIC AIR NAVIGATION PLANNING AND
IMPLEMENTATION REGIONAL GROUP (APANPIRG/22)**

Bangkok, Thailand, 5-9 September 2011

Agenda Item 2: Global and Inter Regional Activities

**WORKSHOP AND GLOBAL AIR NAVIGATION
INDUSTRY SYMPOSIUM (GANIS)**

(Presented by the Secretariat)

SUMMARY

The Global Air Navigation Industry Symposium (GANIS) is being convened by the International Civil Aviation Organization (ICAO) from 20 to 23 September 2011 in Montréal. Alongside this three-day Symposium will be an industry exhibition of current and emerging technologies.

Action by APANPIRG/22 is in paragraph 2.

This working paper relates to Strategic Objective A.

1. INTRODUCTION

1.1 ICAO is organizing this event in an effort to facilitate greater integration and harmonization of air navigation system improvement programmes of States and service providers. The Symposium, while emphasizing the need for global harmonization, will identify ways and means to ensure interoperability, to maximize utilization of available and emerging technologies and to support an ongoing global discussion. ICAO has developed an approach to achieve this objective in the form of a series of “aviation system block upgrades”, which will be introduced at the symposium. The “block” upgrades are based on clearly identified operational improvements; however, this new approach to improvements also includes the associated procedures for both air and ground to support the block upgrade, the identification of required technologies, the regulatory requirements and approvals process, evaluation of the business case and the carrying out of validation.

2. ACTION BY THE MEETING

2.1 The meeting is invited to note the attached State letter and encourage participation by States, international organizations and industry.

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Ref.: AN 7/59-11/15

25 March 2011

Subject: Workshop and Global Air Navigation Industry
Symposium (GANIS)
Montréal, 20 to 23 September 2011

Action Required: a) disseminate this letter as requested
in paragraph 8; b) plan for attendance and nominate
participants by 30 June 2011

Sir/Madam,

1. I have the honour to invite your Government/Organization to participate in the Global Air Navigation Industry Symposium (GANIS) which is being convened by the International Civil Aviation Organization (ICAO) from 20 to 23 September 2011 in Montréal.

2. ICAO is organizing this event in an effort to facilitate greater integration and harmonization of air navigation system improvement programmes of States and service providers. The Symposium, while emphasizing the need for global harmonization, will identify ways and means to ensure interoperability, to maximize utilization of available and emerging technologies and to support an ongoing global discussion. ICAO has developed an approach to achieve this objective in the form of a series of “aviation system block upgrades”, which will be introduced at the symposium. The “block” upgrades are based on clearly identified operational improvements; however, this new approach to improvements also includes the associated procedures for both air and ground to support the block upgrade, the identification of required technologies, the regulatory requirements and approvals process, evaluation of the business case and the carrying out of validation trials.

3. Alongside this three-day Symposium will be an industry exhibition of current and emerging technologies, which will provide a unique snapshot of the global air navigation industry and provide insight into how all stakeholders can work together to address the technical, operational, regulatory and economic challenges leading to a seamless global air navigation system.

4. The Symposium will provide a crucial networking and knowledge-sharing opportunity and will include presentations from ICAO, international and regional organizations, standards-making organizations and leading industry stakeholders. The opportunity to discuss emerging issues and to chart the next steps to achieve a seamless global air navigation system will be the primary objectives of this global event. This is particularly relevant to the aviation system block upgrades and roadmaps. This effort will lay the foundation for the Twelfth Air Navigation Conference to be held in November 2012, which will serve as the next critical global milestone and which will result in agreements and recommendations to pave the way toward large-scale global implementation efforts.

5. The Symposium agenda will revolve around the following themes:

Operational objectives

- a) *Exploiting global operational benefits through an initial set of aviation system block upgrades.* This will include a review of proposals for the initial set of

aviation system block upgrades that can bring immediate benefits to the global aviation community with minimum investment; and

- b) *Identification of notional block upgrades.* These are the later set of block upgrades and should be considered as “notional” at this point in time, as they will require further research, development and demonstration. Early identification and agreement on the work to be done, in a coordinated and harmonized way, is essential.

Supporting enablers

Communication: Exploring opportunities to rationalize frequency spectrum and facilities. To address the growing criticality of aeronautical operational communications in a cooperative environment while satisfying the data requirements of the future cockpit environment;

Navigation. To begin to understand how to exploit the central role of the global navigation satellite system (GNSS) as the key enabler for performance-based navigation and the opportunities it creates for rationalizing the current conventional navigation, while taking into account and mitigating the intrinsic vulnerabilities of the system;

Situational awareness. To determine how to achieve the best level of situational awareness for each operational environment; and

Information management. To identify opportunities for the acquisition, authentication, aggregation and delivery of information satisfying the needs of the various partners in the ATM system.

6. All further information related to the Symposium, including final agenda/programme, general information, registration fees and procedures, and hotels and rates will soon be available on the Symposium website at <http://www.icao.int/ganis>. Early travel arrangements and hotel reservation for the Symposium are recommended.

7. I wish to inform you that the registration fee will be waived for up to two participants nominated by each State. All other attendees, except for invited speakers, will be required to pay a registration fee. Also, you may wish to note that the Symposium will be conducted in English only.

8. I should be grateful if you would advise me, as soon as possible, whether your Government/Organization wishes to participate in the ICAO Global Air Navigation Industry Symposium and to provide me with the name of each official who will be attending, their position and whether they are nominated by your State for free participation or are a paying participant. Please ensure that the nomination letter accompanying the registration form is on the letterhead of your Authority or Organization. Your notification should preferably be sent to GANIS@icao.int.

Accept, Sir/Madam, the assurances of my highest consideration.

Raymond Benjamin
Secretary General