



SIP/2009-WP/21
Business case

Work Programme of ICAO Panels and Study Groups

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**Workshop on the Development of Business Case for
the Implementation of CNS/ATM Systems
(Antigua, 25-29 May 2009)**

Panels of ICAO

- *Panels* are technical groups of qualified experts formed by the ANC of ICAO to advance, within specified time frames, the solution of specialized problems which cannot be solved adequately or expeditiously by the established facilities of the ANC and the Secretariat of ICAO.
- The use of panels involves examination of specific issues and to find technically feasible solution in terms of initial proposals, for the amendment of ICAO Annexes and PANS which would be acceptable to Contracting States as a whole.
- The panels conduct their business by correspondence and meetings. Their terms of reference and work programmes are defined by the ANC.

ICAO PANELS

Aerodromes Panel (AP)

Use of light emitting diode (LED)
technology in visual aids

2009-12-15

Licensing/certification of aerodromes

2009-12-15

Comprehensive review of Annex 14,
Volume I, Chapter 3 including
RESSA

2009-12-15

Aerodrome design specifications –
Code F

2009-12-15

Visual aids for A-SMGCS and for
prevention of runway incursions

2009-12-15

Runway surface friction
measurement and reporting

2009-12-15

ICAO PANELS

Aeronautical Communications Panel (ACP)

Finalize development of the ICAO position for ITU WRC-11. Council approval and issuance of State letter.

2009-07

Update RF Policy Handbook (Doc 9718) including ICAO position for ITU WRC-11, ICAO Frequency Spectrum Policy including material on frequency management.

2009-09

Transfer and updates of ATN/OSI material from old Doc 9705 to new Doc 9880.

Ongoing

Doc 9896 on ATN/IPS recently finalized. Second edition to include material on VoIP and a further refinement to the A/G addressing plan.

2010-12

Future communications infrastructure (in support of NextGen and SESAR).

Ongoing

ICAO PANELS

Aeronautical Surveillance Panel (ASP)*

Consolidation of guidance material contained in Doc 9684 and Doc 9688 into a new manual

Completed

SARPs and guidance material on multilateration systems

Completed

SARPs and guidance material on airborne surveillance

Completed

A report outlining the results of the study on the radio frequency pollution problem associated with the use of 1030 and 1090 MHz frequencies and containing a recommendation for way forward by ICAO

Completed

Amendments to SARPs (in Annex 10) and guidance material in Doc 9871 relating to ACAS, SSR and ADS-B

Completed

* The new work programme of the ASP will be reviewed by Air Navigation Commission in March 2009

ICAO PANELS

Air Traffic Management Requirements and Performance Panel (ATMRPP)

Formulate guidance on performance for the future global ANS system; continue the definition of related performance metrics and elementary characteristics in the context of the overall behaviour of the ANS system; and facilitate global harmonization of such work, including definitions, Standards for reporting requirements, information disclosure and guidance for monitoring.

2009-12-31

Based on the Global ATM Operational Concept, develop guidance on ATM service delivery management, and the distribution of responsibilities for the various air navigation services and their seamless performance, including the designation of predetermined separators for separation provision.

2010-12-31

ICAO PANELS

Instrument Flight Procedure Panel (IFPP)

**Amendments to the Procedure Design
Construction Manual**

2009-05-01

**Expanded ICAO collision risk model
to include PBN operations**

2011-09-01

SBAS Category I approach

2009-09-01

GBAS Category II/III approach

2009-09-01

ICAO PANELS

Navigation Systems Panel (NSP)

Develop amendment to SARPs and guidance material for GNSS in Annex 10 for:

- a) Ground based augmentation system (GBAS) capable of supporting Category II/III operations;
- b) dual frequency SBAS;
- c) GPS evolution;
- d) GLONASS evolution;
- e) Galileo.

2010-
2013

ICAO PANELS

Operations Panel (OPSP)

**Update the Manual of All
Weather Operations**

2009-12-31

**Amendments to Annex 6,
Parts I, II and III to
provide Standards and
Recommended Practices
governing the operation
and use of synthetic vision
systems**

2009-12-31

ICAO PANELS

Separation and Airspace Safety Panel (SASP)

Development of criteria for aircraft separation minima in terminal airspace for PBN equipped aircraft

2010-11

Development of criteria for use of ADS-B and Multilateration equipment in order to support a 3 NM aircraft separation minima

2011

Requirements/conditions for the use of new equipment and technologies with existing separation Standards

2010

ICAO PANELS

Operational Data Link Panel (OPLINKP)

Develop guidance material, as well as implementation guidelines to further the use of current data link technology (as of 2008) (what is available in cockpit today)

**2010-
2011**

Develop Standards, Recommended Practices, Procedures and guidance material to support the implementation of emerging data link technology (developed post-2008) (What will be available in the cockpit after 2009 such as ADS-B in, UAS)

**2010,
2011,
2015,
2018
and
2023**

Study Groups of ICAO

- *Study groups*, on the other hand, are small groups of experts made available by States and organizations to assist the Secretariat of ICAO, in a consultative capacity, in advancing the progress on selected technical tasks.
- The work of study groups may involve the development of initial proposals, similar to panels, for the amendment of ICAO Annexes and PANS for consideration by the ANC.
- The Study Groups conduct their business by correspondence and meetings. Their terms of reference and work programmes are defined by the ANC.

ICAO STUDY GROUPS

Unmanned Aircraft Systems Study Group (UASSG)

Serve as the focal point of all ICAO UAS related work, with the aim of ensuring global interoperability and harmonization

Ongoing

Develop a UAS regulatory concept and associated guidance material to support and guide the regulatory process

2009

Review ICAO SARPS, propose amendments and coordinate the development of UAS SARPs with other ICAO bodies

Ongoing

Coordinate with the ACP of ICAO to develop a common position on bandwidth and frequency spectrum requirements for command and control of UAS

2015

ICAO STUDY GROUPS

Performance-based Navigation Study Group (PBNSG)

**Review new operational
requirements for PBN**

2009-12

**Develop new and/or
revised PBN navigation
specifications**

2010-12

**Review the need for
approach reclassification
and, if required, prepare a
new operational concept**

2010-12

ICAO STUDY GROUPS

Aeronautical Information Service and Aeronautical Information Management Study Group (AISAIMSG)	Global strategy/roadmap for the transition from AIS to AIM	2009
	Standard aeronautical information conceptual model and standard aeronautical information exchange model to enable the global exchange of data in digital format	2010-2013
	Digital aeronautical information to the end user, including eAIP, electronic charts and use of GIS within the context of AIM	2010-2013
	Electronic terrain and obstacle data	2010
	Development of a proposed work plan to consider key legal and institutional issues raised during the Worldwide Symposium on Enabling the Net-Centric Information Environment	2009

ICAO STUDY GROUPS

Meteorological Warnings Study Group (METWSG)

Response to hazards to airports, ATM and flight safety

Develop provisions for inclusion in Annex 3 and guidance material for the observing and reporting low-level wind shear

2010-11

Consider developing the necessary provisions that would enable the detection of low-level wind shear affecting aircraft operations along approach and take-off paths and including new abbreviations for “headwind gain: and “headwind loss”

2010-11

Develop set of quantitative criteria to be included in Annex 3 for the threshold intensity of the weather phenomena to prompt the issuance of SIGMET messages

2013-11

Assist in the development of decoding and encoding software for BUFR-coded SIGMET and develop related guidance material in coordination with interested provider States and WMO

2016-11

ICAO STUDY GROUPS

Aerodrome Meteorological Observation and Forecast Study Group (AMOFSG)

Revision of the requirements for meteorological observations at aerodromes in light of the capability of automated weather observing systems to meet these requirements

Ongoing

Update the *Manual on Automatic Meteorological Observing Systems at Aerodromes* (Doc 9837)

Ongoing

Requirements for additional meteorological products to be provided to the ATS units to support the global ATM, inter alia, in regard to the (severe) weather phenomena that could cause significant changes in the ATC procedures

2016

Thank you