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AIR NAVIGATION SERVICES

GENERAL

NATIONAL ATM/CNS IMPLEMENTATION COMMITTEE TERMS OF REFERENCE (TOR)

- ☛ Indicates changes
- ☛ This AIC replaces AIC 40.8 dated 03-01-15.

Background

Conclusion 13/74 of the 13th ICAO Africa-Indian Ocean (AFI) Planning and Implementation Regional Group (APIRG) meeting required states to establish National CNS/ATM bodies and to designate focal points of contact within each state.

The conclusion developed by APIRG 13 stated:

Conclusion 13/74 – Establishment of National CNS/ATM bodies and designation of focal points of contact:

That:

As a matter of urgency, States which have not done so, be requested to implement APIRG conclusion 12/45 on the Establishment of National CNS/ATM bodies and the designation of focal points of contact, and notify ICAO Regional Offices of the action taken in this respect. In so doing, they should refer to guidance provided by ICAO (National Plan for CNS/ATM systems (Circ 278)).

The effectiveness of Communication Navigation and Surveillance/Air Traffic Management (CNS/ATM) Implementation Coordination Groups (ICGs), would be facilitated by the establishment of National CNS/ATM bodies and focal points of contacts within such bodies, in all AFI States.

In discussing the role of ICG Coordinators, the meeting agreed that implementation of APIRG Conclusion 12/45 (National CNS/ATM bodies, focal points of contact and ICG Coordinators) was a prerequisite before the ICG Coordinators could start their functions. It was agreed that ICAO, pending full implementation of Conclusion 12/45, would coordinate ICG activities in lieu of the ICG Coordinators.

The establishment

Pursuant to APIRG conclusion 12/45 and 13/74, the National Department of Transport (DOT) sanctioned the formation of a National ATM/CNS Implementation Committee with a core membership comprising ATNS (Chair), DOT and CAA. Other members of the Committee shall be drawn from airspace users, ACSA, and SAAF, Representation of equipment/technological developers, and representation of civil aviation organizations and other Organisations representing Airspace Users.

ICAO documents which support the South African National ATM/CNS Implementation Committee with the implementation strategies for Air Traffic Management and Communications Navigation Surveillance are the AFI CNS/ATM Implementation Plan (Doc 003), Global Air Traffic Management Operational Concept (Doc 9854) and the Global Air Navigation Plan (Doc 9750).

During the 16 APIRG meeting held in Cameroon during 23 – 27 June 2003, the meeting acknowledged the need for updating the CNS implementation strategies as contained in the AFI CNS/ATM Implementation Plan (Doc 003), taking due account of the revised ICAO Global Air Navigation Plan (9750) and AFI ATM operational objectives; and to

harmonize the target dates of implementation of AFI operational system (e.g. RVSM, RNAV/RNP, ADS-C/CPDLC, ADS-B operations).

In this connection, the APIRG 16 meeting recognized the difficulties encountered in maintaining a consistent CNS/ATM Implementation Plan for the AFI region following the dismantlement in 2003 of the APIRG CNS/ATM Sub-Group and Implementation Coordination Groups (ICGs).

The following Conclusion and Decisions were formulated during APIRG 16 meeting:

Conclusion 16/28: AFI CNS Systems Implementation Strategies

That:

The CNS implementation strategies described in the AFI CNS/ATM Implementation Plan (Doc 003) be updated taking due account of the revised ICAO Global Air Navigation Plan (Doc 9750) and AFI ATM operational objectives.

During the 19th APIRG meeting held in Dakar, Senegal during the 28th – 31st October 2013, the meeting reached the following conclusion 19/06 based on the ICAO Twelfth Air Navigation Conference (AN-Conf/12) Recommendation 6/1 – Regional performance framework – planning methodologies and tools, which – inter alia – requests States and PIRGs to:

- 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;
- c) use the electronic Air Navigation Plans (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; and
- 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.

Conclusion 19/06: Adoption of AFI Regional Air Navigation System Implementation Plan aligned with the ICAO Aviation System Block Upgrade (ASBU)

That:

- a) AFI States adopt the Regional Air Navigation System Implementation Plan aligned with the 18 Block 0 Modules of the ICAO Aviation System Block Upgrades (ASBU) Methodology, as provided at Appendix 3.0A to this report;
- b) That AFI States implement the adopted modules based on their operational needs, the categorization and the prioritization defined in the Action Plan;
- c) The Secretariat finalize the implementation targets set for the adopted ASBU Block 0 Modules, and ensure that these targets are aligned with existing regional programs aimed at enhancing air navigation capacity and efficiency and aviation safety;
- d) The APIRG and the ICAO Regional Offices coordinate the implementation of the ASBU Block 0 Modules related to Safety Key Performance Area with regional aviation safety mechanisms (RASG-AFI, AFI Plan) and other relevant safety initiatives for the AFI Region;
- e) ICAO continually provide capacity building through workshops and seminars to AFI States and regional stakeholders as the needs arise in the different levels of ASBUs; and
- f) The African Civil Aviation Commission (AFCAC), Regional Economic Communities and Financial institutions to provide their support and assistance.

Function of the Committee

The function of the Committee is to structure and give effect to the National ATM/CNS Plan in order to facilitate the transition to ATM/CNS, and to ensure alignment and coordination with the AFI Regional CNS/ATM Plan.

Objectives

The Committee work shall be informed by the following objectives:

- (a) To facilitate strategic Collaboration within the ATM Community on issues of implementing the agreed to facilities, procedures and where appropriated, processes, as it pertains to the ICAO Global and Regional Plans and the South African National Airspace Master Plan (NAMP).
- (b) To maintain and enhance safety levels in high or increasing traffic densities.
- (c) To provide air traffic service (ATS) capacity to handle air traffic to meet the forecasted demand without significant delays.
- (d) To enable all airspace users to operate efficiently while accommodating both civil and military operators' needs.
- (e) To provide the required ATM service in a cost-effective manner.
- (f) To provide interoperability with adjacent airspaces.
- (g) To adopt common standards, specifications and functionalities that will standardize the ATM environment.
- (h) To ensure alignment by supporting the Global Air Navigation Plan (GANP – Doc 9750).

The Committee shall:

- (a) Provide the industry and aviation community with guidance and interpretation of planning and implementation material from ICAO with respect to ATM/CNS.
- (b) Ensure that the industry inputs into regional ATM/CNS planning and implementation are communicated to ICAO and its regional planning in implementation forums.
- (c) Determine airspace functional requirements in terms of ATM objectives and supporting CNS systems.
- (d) Establish and maintain a coordinating mechanism with existing civil aviation policy implementation bodies, so as to ensure continued proper input to and from such bodies.
- (e) Draft proposal as informed by ICAO Plans, meetings, letters and other relevant documents, as well as stakeholders, for necessary action by various aviation institutions.
- (f) Provide participation and support thereto, to ICAO ICGs, particularly with respect to ICAO Areas of Routing (AR) 2, 4, 8, and 10.

The AFI CNS/ATM Implementation Plan (Doc 003) defines 10 areas of routing within the plan namely:

Routing Areas	Description
AR1	Europe - South Atlantic (EUR/SAT) oceanic routes
AR2	Atlantic Ocean interface between AFI, NAT and SAM
AR3	Europe - Eastern Africa routes including the area of the Indian Ocean (EUR/AFI East)
AR4	the Europe to Southern Africa routes (EUR/API-South);
AR5	the coastal routes over the Gulf of Guinea;
AR6	the Iberian peninsula to Canaries routes;
AR7	the North API coastal area (EUR/API interface);
AR8	the Continental Southern Africa routes;
AR9	the Trans-Saharan routes; and
AR10	the Trans-Indian Ocean area interfacing with the ASIA/PAC Region.

- (g) Produce an annual report containing a summary of activities of the Committee, TFs and ICG representation, and submit such a report to the Director of Civil Aviation with copies to the DOT and ATNS. The reporting period shall be April to March, and the report shall be submitted within three months of the end of the year being reported upon.

Notwithstanding the above, the Committee shall:

- (a) Liaise with bodies responsible for personnel training and licensing in order to facilitate necessary planning by such bodies.

- (b) Ensure that necessary information on developments that may require investment or induce costs to the industry, is published through appropriate mechanisms in as much advance time as practical, in order to facilitate planning for such investments or costs.

Bodies of the Committee

The Committee shall, as and necessary form Task Forces (TF) to address work whose nature in scope and depth is more specialized, such that it cannot effectively be undertaken at the Committee level.

References:

ICAO Doc 003-AFI CNS/ATM Implementation Plan
ICAO Doc 7474-AFI Air Navigation Plan
ICAO Doc 4444-PANS-ATM
ICAO Doc 7030-Regional Supplementary Procedures
ICAO Doc 8168-PANS-OPS
ICAO Doc 9613 – Performance Based Navigation Manual
ICAO Doc 9750-Global Air Navigation Plan for CNS/ATM Systems
ICAO Doc 9854-Global Air Traffic Management Operational Concept Document
ICAO Circ. 278-National Plan for CNS/ATM Systems
APIRG 12 Report
APIRG 13 Report
APIRG 14 Report
APIRG 15 Report
APIRG 16 Report
APIRG 17 Report
APIRG 18 Report
APIRG 19 Report
APIRG 20 Report
NAMP

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