PIRG/RASG GCM-2013/PPT-2 APIRG

A brief on
APIRG

Eng. John Tusubira Kagoro

Chairman of the Africa-Indian Ocean Planning and
Regional Implementation Group (APIRG)

APIRG: Successes

- Reduction of en-route **longitudinal separation from 20 to 10 minutes** (2002/2003)

- Introduction/consolidation of Sub-regional **Aeronautical VSAT Networks** (**AFISNET** in 1996, **SADC1** in1998, **SADC2** in 2007 and **NAFISAT** in 2008)

- Implementation of **RVSM** on 25 September 2008 and **Strategic Lateral Offset Procedures** (SLOP) in 2010/2011

- Transition to **NEW ICAO Flight Plan Form** on 15 November 2012

- Implementation of **QMS for MET** by some States on 15 November 2012

- Implementation of **ADS-C/CPDLC** procedures in 8 FIRs (2006/2011)

- Implementation of **WGS-84**, **114 PBN Routes, 55 PBN Procedures (LNAV, APV), PBN STARs at 66 intl. airports and PBN SIDs** at **44 intl. airports** in 2010/2012

- Through the **SAT Interregional Group** established by AFI/6 (EUR/SAM Corridor)
  - Reduction of en-route **longitudinal separation from 15 to 10 minutes** with MNT (2001), RNAV/RNP routes (2001), Random RNAV routes (2009/2010), Central Atlantic FIRs Satellite Network (CAFSAT) (2001), and ADS-C/CPDLC procedures (2006)

APIRG: Priorities

- **Implementation of Performance Based Navigation (PBN)**
  - ASBU Module B0-FRTO / Metrics: Number of PBN routes implemented
  - ASBU Modules B0-APTA, B0-CDO, B0-CCO / Metrics: Number of PBN approaches, Number of Number of PBN SIDs, Number of PBN STARs

- **Implementation of Quality Management Systems for AIM**
  - ASBU Module B0-DAIM / Metrics: Number of States implementing QMS for AIM

- **Quality Management Systems for MET**
  - ASBU Module B0-AMET / Metrics: Number of States implementing QMS for MET

- **Implementation of Ground-Ground Data Link Applications (AMHS, AIDC)**
  - ASBU Module B0-FICE / Metrics: Number of States implementing AMHS using IP, Number of ATS Units with AIDC

- **Implementation of Data Link Surveillance and Communications (ADS, CPDLC)**
  - ASBU Module B0-ASUR / Metrics: Number of ATSUs with ADS-B/MLAT capability
  - ASBU Module B0-TBO / Metrics: Number of ATSUs with ADS-C/CPDLC

APIRG: Priorities (timelines for adoption)

- Aeronautical Meteorology Sub-Group (MET/SG/11)
  - 8-11/07/2013
- Aerodrome Operational Planning Sub-Group (AOP/SG/10)
  - 5-7/08/2013
- Air Traffic Management, Aeronautical Information Management and Search and Rescue Sub-Group (ATM/AIM/SAR/SG/13)
  - 16-20/09/2013
- Communications, Navigation and Surveillance (CNS/SG/5)
  - 16-20/09/2013
- APIRG/19
  - Fourth Quarter 2013
  - Adoption of regional priorities and performance targets based on Sub-Groups work.

APIRG: Roadblocks & means to address them

- **Lack of expertise to address regulatory and operational aspects of PBN operations**
  - Implementation of a regional Flight Procedure Programme (FPP) to assist States in need
  - Development of ICAO guidance material for PBN approvals
- **Lack of ATC Proficiency resulting in high number of ATS incidents/Inadequate investment in staffing and training/Lack of executive support in most cases**
  - Implementation of English Language Proficiency requirements
  - Development and implementation of training plans for ATC personnel
  - Improvement of ATS communications and Situational Awareness in some FIRs
- **Low level of implementation of ANSPs / Aerodrome Safety Management Systems**
  - Implementation of Safety Management Systems (SMS) by ANSPs and Aerodromes
- **Uncertainty about VSAT Networks sustainability / Lack of commitment by some States**
  - States' commitment to support regional VSAT networks through appropriate administrative and technical arrangements
  - Protection of VSAT Frequency Band (C) (3.4/4.2 GHz) under ITU Radio Regulations (WRC-15 refers)
- **Lack of sufficient resources to implement QMS for AIM and MET**
  - Inclusion of QMS for AIM and MET as priorities in States Development Plans
  - Mobilization of resources through bilateral/multilateral cooperation

APIRG: Expectations

- **Expectations**
  - **Guidelines to facilitate alignment of regional plans/programmes** with Global Air Navigation Plan and ASBUs and PIRG restructuring (project oriented vs. discipline oriented structure) *(AN-Conf/12 Recommendation 6/1)*
  - **Coordination mechanism** between PIRGs and RASGs to efficiently address common safety issues and coordinate Annual Reports to ANC/Council.

- **Proposals for action**
  - Use all avenues to **increase awareness of States CAAs** on the high priority to be accorded to addressing implementation impediments through clear programmes and resources
  - ICAO to organize a **regional seminar/workshop on ASBUs** prior to APIRG/19 to facilitate informed decision-making and planning processes
  - ICAO to assist in **identifying suitable specific, measurable, achievable, realistic and time-bound metrics/performance indicators, and developing harmonized** data collection and reporting processes for common ASBU modules
  - ICAO to **provide PIRGs with available business cases** to support effective implementation of applicable ASBU modules
  - ICAO to consider **formalizing interregional coordination /cooperation framework** to ensure interoperability and harmonization of ATM across regions

PIRG-RASG Global Coordination Meeting,
Montreal 19 March 2013