



INTERNATIONAL CIVIL AVIATION ORGANIZATION

**AFI PLANNING AND IMPLEMENTATION REGIONAL GROUP
NINETEENTH MEETING (APIRG/19)
Dakar, Senegal (28 – 31 October 2013)**

Agenda Item: 1 Follow-up on the outcome of APIRG/18 Meeting

**REVIEW OF THE ACTIONS OF THE AIR NAVIGATION COMMISSION ON THE
REPORT OF THE SEVENTEENTH MEETING OF THE AFI PLANNING
AND IMPLEMENTATION REGIONAL GROUP (APIRG/18)**

(Presented by the Secretariat)

SUMMARY	
This paper presents the action taken by the Air Navigation Commission on the report of the eighteenth meeting of the APIRG.	
Action by APIRG/19 is contained in paragraph 4.	
REFERENCE(S):	
<i>Strategic Objectives</i>	This working paper relates to the Strategic Objectives A, B and E

1. INTRODUCTION

1.1 Following each APIRG meeting, the report is first reviewed by the working group of the Air Navigation Commission (ANC) followed by the ANC itself and finally by the Council. During these reviews, the ANC and the Council note the report, make comments thereon and provide guidance to APIRG as appropriate. Furthermore, the ANC and the Council may take specific action on certain conclusions contained therein, since the follow-up to some conclusions may require approval by the ANC or the Council. Follow-up actions by the ICAO Secretariat on conclusions and decisions of APIRG are then guided by the outcome of the ANC and the Council actions described above.

1.2 However, in accordance with the revised practice, which was introduced in March 2006 (Council Decision 177/14 dated 20 March 2006 refers), PIRG reports will not be presented to the Council unless the Commission deems it necessary for the Council to take action on any of the conclusions or the report. In the case of the APIRG/18 Report, as there were no specific items that required Council action, the said report was not submitted to the Council.

1.3 This working paper informs APIRG of the results of the actions taken by the Commission on the report of the APIRG/18 Meeting, which was held in Kampala, Uganda, from 27 to 30 March 2012 at the kind invitation of the Government of Uganda.

2. ACTION BY THE AIR NAVIGATION COMMISSION ON THE APIRG/18 REPORT

2.1 The Air Navigation Commission referred the Report of the APIRG/18 (Kampala, 27-30 March 2012), to its Working Group of the Whole for Strategic Review and Planning (WG/SRP) for review. The AN-WG/SRP reviewed the reports on 23 January 2013. During the ninth meeting of its 192nd Session held on 7 March 2013, the ANC approved the review of the APIRG/18 report as presented in AN-WP/8770 by the ANC Working Group of the Whole on Strategic Review and Planning (AN-WG/SRP). The analysis of the conclusions and decisions, and the recommendations of the WG/SRP to the ANC are provided in the Appendix to this working paper, which has been formatted to link the conclusions with the Strategic Objectives of the Organization. All other follow-up action was to be taken by the Secretary General in accordance with established practice. The following are highlights of the review by the WG/SRP.

2.2 The WG/SRP reviewed the Report of APIRG/18 and specifically all the conclusions and decisions, including those that required the Commission and/or Council action or may impact other regions. In general, the conclusions and decisions were exclusively aimed at the Regional Office and States; however, the WG/SRP considered that there were some actions that other regions may find of interest.

2.3 The WG/SRP remarked that the scope and content of the meeting as recorded in the report was greatly improved compared to APIRG/17 (see AN-WP/8536). The WG/SRP was pleased to hear that the APIRG was identifying and tackling issues, and the quality of the report was much improved. Indeed the WG/SRP considered that the format of the report, the record of the meeting and deliverables (appendices) as separate files, made reading and access to information much easier. The WG/SRP therefore recommends the ANC requests all PIRG reports to be published in this manner.

2.4 In response to Conclusion 18/03 (*Training needs and resources in Africa*), the WG/SRP noted that training and resources remain a high priority need within the AFI region and recommended that the ANC reminds Council that this matter should be monitored to see if remedial action is progressing satisfactorily.

2.5 The WG/SRP noted that Conclusion 18/05 (*Implementation of cooperative type global and regional projects*) included not only the referenced health related projects but also other areas such as meteorology.

2.6 With respect to Conclusion 18/06 (*Performance – Based Approach – Metrics*) the WG/SRP was pleased to see that the performance-based metrics were being introduced but recommended that the ANC suggests the APIRG (and others) also considers introducing similar metrics for the Aviation System Block Upgrades.

2.7 Regarding Decision 18/08 (*Aerodrome operations planning/Sub-group terms of reference*) the WG/SRP reflected that the terms of reference of the Aerodrome Operations Planning Sub Group include safety related items that would normally be associated with the remit of a Regional Aviation Safety Group (RASG). The WG/SRP noted that the first meeting of the RASG AFI took place immediately prior to APIRG/18. The WG/SRP therefore expected the PIRG and RASG to coordinate efforts to reduce

duplication, as could be implied by reduced vertical separation minimum (RVSM) safety monitoring activities mentioned in Conclusion 18/04 (*Coordination of activities between APIRG and RASG-AFI*).

2.8 With respect to Conclusion 18/09 (*National PBN implementation plans*) the WG/SRP recommended that the ANC should request ICAO to strengthen efforts to encourage the development of performance-based navigation (PBN) implementation plans, the establishment of a regional procedure design facility, taking account of previous experience in other regions. The WG/SRP also recommends that the ANC requests ICAO to provide a report on the latest situation.

2.9 The WG/SRP requested information on missing flight plans mentioned in Conclusion 18/17 (*Addressing missing flight plans*) and was informed that the stability of the AFTN service was a primary cause.

2.10 The WG/SRP remarked on the partial achievement of RVSM target level of safety measures (3.3 in the report) and queried why it did not result in a conclusion that improved data collection.

2.11 The WG/SRP noted that the region was pursuing studies for a satellite-based augmentation system (SBAS) and had requested a cost-benefit analysis be conducted. However funding the work remained an issue.

2.12 The WG/SRP was informed that meteorological services in parts of the AFI region are funded or subsidised by air traffic service providers and many of the issues encountered and recorded in the PIRG report are related to funding. Conclusion 18/54 (*Alternative funding sources for the establishment and implementation of QMS for the provision of aeronautical meteorological service and aeronautical information management (AIM)*) was a prime example where additional funds were sought to implement important ICAO provisions to benefit the service. The Secretariat was requested by the WG/SRP to provide the ANC with further information on the implementation of quality management systems (QMS) for meteorological and aeronautical information services in the AFI region, including what measures are in place to assist in procuring funds.

2.13 The WG/SRP acknowledged the human factors issues identified in Conclusion 18/63 (*Measures to address human factors and infrastructure deficiencies*) and considered that this was an issue worthy of global attention.

3. FOLLOW-UP ACTION BY THE SECRETARIAT ON THE APIRG/18 REPORT

3.1 The Secretariat's report on follow-up actions on the APIRG/18 Report will be presented to APIRG/19 in Working Paper 3.

4. ACTION BY APIRG/19

4.1 The meeting is invited to note the actions taken by the Commission on the APIRG/18 Report, as outlined in this working paper and, in particular, in **Appendix** hereto.

APPENDIX
Review of Conclusions/Decisions of APIRG/18

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
D18/01	Review and Update of APIRG Conclusions and Decisions	That APIRG Sub-Groups: a) review all APIRG Conclusions and Decisions from APIRG/13 to APIRG/17 and identify those which are no longer valid; b) adopt a system of reviewing the validity of Conclusions and Decisions every two successive APIRG meetings; and c) transfer Conclusions and Decisions which have reached maturity and still relevant to appropriate guides, handbooks and manuals for the AFI Region.	APIRG Sub-Group Secretaries	Adequate management of Conclusions and Decisions	2013	To note
C18/02	Activities of ICAO Regional Office Safety Teams (ROSTs)	That, States in the AFI Region take advantage of the assistance made available under the ROSTs in order to support the implementation of their respective Corrective Action Plans (CAPs).	States	CAPs completed	2013	To note
C18/03	Training Needs and Resources in Africa	That: a) training organizations in the AFI Region participate in the Constitutive Assembly of the Association of African Aviation Training Organizations (AATO) to be held in Nairobi, Kenya, from 2 to 4 April 2012 and join the AATO; and b) States, training organizations, and aviation services providers in the AFI region participate in the activities of the envisaged framework for the harmonization of aviation training in the AFI Region and contribute towards the implementation of the ICAO SP AFI RAN/08 Recommendation 5/8.	States	Harmonized training activities	2015	ANC reminds Council that this matter should be monitored to see if remedial action is progressing satisfactorily

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
C18/04	Coordination of Activities Between APIRG and RASG-AFI	That: a) Accidents and Incidents Analysis; and State Safety Programme (SSP) be addressed within the framework of RASG-AFI; b) RVSM safety monitoring, Quality Management System (QMS), Civil-military coordination and SAR continue to be part of APIRG Work Programme; c) English Language Proficiency (ELP), Safety Management System (SMS) implementation, Runway Safety, Unsatisfactory Condition Reports(UCRs) and Airspace contingencies issues remain in the Work Programme of both RASG-AFI and APIRG, until further notice; and d) The two Groups agree on the mechanism to be used to ensure that the safety issues addressed by both APIRG and RASG-AFI are fully coordinated.	Secretaries of APIRG and RASG-AFI	Harmonized Work Programme	2014	To note (but see C/18/8)
C18/05	Implementation of Cooperative Type Global and Regional Projects	That States: a) include in their Civil Aviation Regulations public health emergency related provisions of ICAO Annexes and guidance material; b) establish an Aviation Public Health Emergency Plan which is integrated in the National Public Health Emergency Plan; c) which are not members of the Cooperative Arrangement for the Prevention of Spread of Communicable Disease through Air Travel (CAPSCA) project are encouraged to join, request assistance visits and contribute to the funding of the Project; and d) nominate candidates to be trained as Technical Advisors.	States	Comprehensive Programme of the CAPSCA with inclusion of Public Health related provisions in the regulations and national plans for preparedness		To note

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
C18/08	Aerodrome operations planning/Sub-Group Terms of Reference	That the AOP SG Terms of Reference be amended to include “obstacle surfaces control”, “runway safety” and “aerodrome planning and design”.	Secretary AOP/SG	TOR and Work Programme	2012 <i>AOP Sub- group terms of reference amended items included in the Agenda items to be discussed during the AOP/SG//10 Meeting scheduled in May 2013</i>	To note but suggest coordination with RASG-AFI
C18/09	National PBN Implementation Plans	That in accordance with Assembly Resolution A37-11 on PBN implementation, States: a) That have not already done so, complete preparation of their national PBN implementation plans as a matter of urgency, using the template provided by the PBN GNSS Task Force; b) Consider the use of planning tools provided by the PBN/GNSS Task Force, as well as project management software; and c) Provide updates to Regional offices.	States	PBN Implementation Plans	Dec 31 2012 <i>Still on- going. Only 13 States have submitted their PBN Plans. ESAF and WACAF Regional Offices following up with States.</i>	ANC requests ICAO to provide a report on the latest situation

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
C18/10	Lowering of RNAV/RNP Routes UM214 and UM215	That, States that have not already done so, be urged to establish the lowest usable flight level on the RNAV routes UM214 and UM215 as flight level 250 for operational reasons. (This Conclusion is to supersede APIRG Conclusions 17/51)	States responsible for FIRs: Gaborone, Harare, Kinshasa, Brazzaville, N'Djamena, Tripoli	Lower the ATS route lower level to FL250	Dec 31 2012 Gaborone has implemented ESAF Office coordinating with remaining States	To note
C18/11	AFI PBN Regional Performance Framework Forms	That the AFI PBN Regional Performance Framework Forms are updated as at Appendix 3.2A1 to 3.2A3 to the report on agenda item 3.2.	States	Use update national PFF	Dec 31 2012 <i>PFFs updated during PBN TF/3 Meeting in August 2012</i>	To note
C18/12	AFI ATS Route Catalogue Template	That, in order to support the process of ATS route development in the AFI Region, including the keeping of a record of ATS routes proposed for development and facilitating follow- up on the actions pertaining to the routes' development: a) the AFI ATS Route Catalogue (AARC) template is adopted as at Appendix 3.2C to the report on agenda item 3.2; and b) AFI States and concerned international organizations are urged to periodically review the Catalogue once completed, note developments and take action as applicable.	States, Users (IATA) and ESAF and WACAF Regional Offices	Populate the AARC with routes trajectories under development	30 Nov 2012 <i>Being coordinated with IATA to provide user data</i>	To note
D18/13	Establishment of the AFI ATM/MET Task Force	That the Core Team of experts established under APIRG Decision 17/84 is dissolved, and the AFI ATM/MET Task Force be established with the terms of reference and work programme as at Appendix 3.2I to the report on agenda item 3.2.	AFI ATM/MET Task Force	Convene meetings and discharge on the TOR	March 2013	To note

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
C18/14	Establishment of the AFI Volcanic Ash Contingency Plan	That: a) the ATM/AIM/SAR and the MET Sub-Groups finalize development of the AFI Volcanic Ash Contingency Plan; b) the Plan be provided to States for implementation, without awaiting the next meeting of APIRG.	ATM/AIM/SAR and the MET Sub-Groups	Complete the VA CP	April 2013	To note
C18/15	Strategy for Implementation of New ICAO Flight Plan Form	That, in order to implement the new flight plan form in a progressive and harmonized manner: a) The AFI Strategy for Implementation of new ICAO Flight Plan form is adopted as at Appendix 3.2J to the report on agenda item 3.2; and b) States and users are urged to continue their implementation planning based on the Strategy.	States and airspace users	Align implementation plans with the Regional Strategy	Monthly from April to Nov 2012 <i>Completed. FPL 2012 successfully implemented 15 Nov 2012</i>	To note
D18/16	Revised Terms of Reference of The AFI Flight Plan Transition Task Force (FPLT/TF)	That, the revised Terms of Reference of the AFI Flight Plan Task Force are revised as at Appendix 3.2K to the report on agenda item 3.2.	FPLT TF	Discharge on TOR of the TF	August and October 2012 <i>Completed. FPL 2012 successfully implemented 15 Nov 2012</i>	To note

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
C18/17	Addressing missing flight plans	That AFI States should: a) address the loss of ATS messages using AFTN, including missing flight plans, as a matter of urgency; b) continuously monitor missing flight plans through: i) the AFI Tactical Action Group (TAG); and ii) conduct regular surveys on missing flight plans for a longer period (e.g. 30 days), or at regular intervals, under the coordination of the ICAO Regional offices; and c) ensure that their ATC systems' clocks are synchronized with the GPS time in order to meet Annexes 2 and 11 relevant provisions.	States TAG States States	Availability of ATS messages Appropriate remedial action taken Deficiencies identified for remedial action Harmonized time reference and consistent transit times	2013	To note
C18/18	Training of air operators personnel on airspace organization	That, in order to reduce risks of missing flight plans, enhance safety and efficiency, States and concerned international organizations including IATA take necessary measures to ensure that flight planning personnel are adequately trained on the tasks for which they are engaged in the processing of flight plans.	IATA States	Consistent and timely reception of flight plans	2013	To note
C18/19	AFI AMHS Implementation Strategy	That AFI States adopt and implement the AHMS Strategy shown at Appendix 3.4A to this report.	States	Coordinated implementation of AHMS	2015	To note
C18/20	AFI ATN architecture plan	That AFI States implement the AFI ATN Architecture Plan shown at Appendix 3.4C to this report.	States	Integrated data communication infrastructure	2015	To note

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
C18/21	Adoption of the global operational data link document (GOLD)	That in order to ensure regional and global harmonization of data link operations; AFI States adopt the Global Operational Data Link Document (GOLD) in replacement of the previous FANS 1/A Operations Manual.	States	Harmonized guidelines for data link operations	2012 <i>GOLD</i> <i>circulated to all AFI States via State letter. It is being adopted by States/FIRs implementing ADS-C/CPDLC procedures.</i>	To note
C18/22	Implementation of AFI FMG Action Plan	That AFI States and Organizations implement the Action Plan proposed by the AFI Frequency Management Group as shown at Appendix 3.4D to this report.	States ESAF/WACAF Offices	Efficient frequency management in AFI	2015	To note
C18/23	Information on Aircraft Equipage In Air Navigation System Planning And Implementation	That AFI States: a) Support surveys conducted on aircraft equipage and capabilities by providing the ICAO Regional offices with detailed information concerning their registered aircraft; and b) Use the information for planning and implementation of air navigation systems.	States APIRG	Accurate information available on fleet capabilities Consistent planning and implementation based on performance-based approach	2013	To note
C18/24	Contingency Planning for AFI VSATVSAT Networks Operations	That, AFI aeronautical VSAT network managers develop contingency plans in coordination with their space segment provider (Intelsat) to ensure continuity of service in case of disruption or failure of their operated satellites.	States	Contingency plans developed to ensure business continuity	2013	To note

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
C18/25	Adoption of best practices for AFI VSAT Networks	That the AFI States and Air Navigation Services Providers (ANSPs) operating aeronautical VSAT Networks adopt the best practices stated at Appendix 3.4G to this report, as well as any other best practices to be developed or adopted by APIRG.	States	Interoperability between VSAT networks through compliance with SARPs and common industry best practices	2012 <i>Proposed best practices adopted by AFI VSAT networks managers (AFISNET, NAFISAT, SADC VSAT2). Status of implementation is monitored through established network management committees.</i>	To note
C18/26	Modernization of VSAT Networks	That AFI States and Organizations adopt and implement strategies to modernize network continue to meet regionally/inter-regionally agreed performance requirements.	States	High performance and sustainable communication infrastructure	2015	To note
C18/27	Arrangements to ensure sustainability of NAFISAT and SADC VSAT/2 networks	That, based on experience gained and available capabilities NAFISAT and SADC VSAT/2 participating States should establish administrative and funding arrangements in a timely manner to ensure that AFS requirements continue to be met.	States	Sustainable operation of NAFISAT and SADC VSAT networks	2013	To note

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
D18/28	Establishment of A Task Force for The AFI Aeronautical VSAT Networks Regional Project	That a Task Force be established to address issues related to the development of a regional project aimed to enhance the overall performance of AFI aeronautical VSAT networks, and converge towards a consolidated regional ATN infrastructure, with the terms of reference shown at Appendix 3.4H to this report.	APIRG	Coordinated transition towards a consolidated regional communication infrastructure	2012 <i>Task Force established. First meeting scheduled for May 2013</i>	To note
D18/29	Multinational facility/service for an integrated AFI aeronautical telecommunication network (ATN) infrastructure.	That the AFI integrated IP-based regional/interregional digital communication network be established as a multinational facility/service as defined in the Regional Air Navigation Plan (Doc 7474), that embraces a consolidated AFI Aeronautical Telecommunication Network (ATN) infrastructure.	APIRG States	Development of an integrated communication infrastructure based on guidelines established for multinational facility/service	2013	To note
C18/30	Implementation of resolution COM6/24 (WRC-12)	That, considering the critical role of VSAT technology in the provision of air navigation services within the AFI Region and its adjacent ICAO regions, AFI States support the implementation of Resolution COM6/24 (WRC-12) aimed at securing international protection of aeronautical frequency spectrum, by participating in related studies, surveys and meetings as may be organized under the coordination of ICAO.	States ESAF/WACAF Office	Resolution on international protection of C-Band supporting aeronautical VSAT operations by ITU WRC-15	2015	To note

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
C18/31	Updated AFI GNSS Strategy	That AFI States adopt and implement the GNSS Strategy contained at Appendix 3.4K to this report.	States APIRG	Harmonized implementation of GNSS applications	2012 <i>AFI States notified of the updated strategy for guidance in implementing GNSS operations</i>	To note
D18/32	Monitoring of SBAS development in ICAO Regions in the equatorial area	That APIRG CNS and ATM/AIM/SAR Sub-groups monitor SBAS developments in other ICAO regions in the equatorial area, for consideration as appropriate when developing/updating its strategy for a cost-effective implementation of GNSS in the AFI Region.	APIRG	Cost-effective implementation of SBAS	2013	To note
C18/33	Funding of AFI SBAS Cost-Benefit Analysis	That in coordination with AFCAC, ICAO facilitate the search for funding to support the conduct of an independent cost-benefit analysis on an AFI satellite-based augmentation system (SBAS).	ICAO AFCAC	Independent cost-benefit analysis on SBAS implementation available to States and users	2013	To note

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
C18/34	AFI Surveillance Strategy	That the AFI States adopt and implement the Aeronautical Surveillance Implementation Strategy shown at Appendix 3.4L to this report.	States APIRG	Coordinated and consistent implementation of situational awareness systems	2012 onwards <i>AFI States notified of the updated strategy for guidance in implementing aeronautical surveillance systems A TCB Project covering 5 ASECNA managed FIRs is being implemented</i>	To note
C18/35	QMS Implementation and Establishment of Service Level Agreements	That, in order to support the effective implementation of QMS, AFI States are urged to: a) take firm commitment at the level of Directors General of CAA Administrations to implement QMS supported by ISO 9001:2008; b) share their QMS implementation experience and support with other States; and c) establish and maintain formal Service Level Agreements (SLA) between data originators and AIS Providers as per sample template at Appendix 3.5A.	States ESAF/WACAF Regional Offices	Collaborate with States at level of DGCA's to ensure the executive commitment to QMS implementation and establishment of formal SLA's as required.	2015	To note

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
D18/36	Proposal for amendment to the AFI ANP/FASID (Doc 7474) related to e-TOD	That, ICAO circulates and processes the amendment proposal for the AFI ANP/FASID (Part VIII) at Appendix 3.5B and C.	ICAO	Initiate an amendment proposal as appropriate	2012 onwards	To note
C18/37	AFI Region e-TOD Implementation Seminar/Workshop	That ICAO: a) organize regional seminar/workshop for States to promote harmonized implementation of e-TOD and; b) encourage States to send participants to the workshop.	ICAO	Promote a better understanding of the planning and implementation issues related to e-TOD	2013 onwards	To note
D18/38	Amendment of AFI Basic ANP/FASID to Reflect The Transition From AIS to AIM	That, ICAO circulate and process the AFI ANP/FASID (Doc 7474 Vol.1&2) amendment proposals relating to the Transition from AIS to AIM at Appendix 3.5G and Appendix 3.5F1 to 3.5F9.	ICAO	Initiate an amendment proposal as appropriate	2013 onwards	To note
C18/39	Receiving WAFS Products and Related OPMET Information Through SADIS	That, the following five States in the AFI region: Burundi, Eritrea, Liberia, Sao Tome and Principe and Sierra Leone which have not yet implemented SADIS, endeavor to address this deficiency in accordance with Conclusion 10/31 of the APIRG/10 meeting as a matter of urgency.	5 States (Burundi, Eritrea, Liberia, Sao Tome and Principe and Sierra Leone)	SADIS implemented	July 2013	To note

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
C18/40	Implementation of The WAFS in The AFI Region	<p>That SADIS Users/States in the AFI Region:</p> <p>a) who have not already implemented Secure SADIS FTP, arrange to obtain Secure SADIS FTP log on credentials from the SADIS Provider State;</p> <p>b) take action to obtain GRIB2 compatible visualization software from their workstation suppliers;</p> <p>c) monitor developments for future requirements of a SADIS satellite broadcast beyond 2015 and respond in a timely fashion to any future surveys/questionnaires on this subject in order to ensure their views are noted;</p> <p>d) apply for WAFS Internet File Service (WIFS) account(s) through the ISCS/WIFS Provider State for use as backup/contingency;</p> <p>e) review the published workstation evaluation reports in order to assess which systems best meet their needs; and</p> <p>f) make all efforts to migrate to Secure SADIS FTP before 30 November 2012 or risk losing access to the Internet-based provision of SADIS.</p>	AFI States	<p>a) Secure SADIS FTP log credentials obtained</p> <p>b) GRIB2 compatible visualization software obtained</p> <p>c) surveys/questionnaires on future requirements of SADIS satellite broadcast beyond 2015, responded in a timely fashion</p> <p>d) WIFS account obtained for backup/contingency use</p> <p>e) SADIS workstation software assessed and selected</p> <p>f) Migration to SADIS Secure SADIS FTP completed</p>	<p>2012</p> <p><i>State Letter distributed to States on 30 August</i></p> <p><i>a) 34/46 (74%) States implemented in December</i></p> <p><i>b) 74% of States implemented</i></p> <p><i>c) More than 17 States applied for WIFS</i></p> <p><i>d) Ongoing</i></p> <p><i>e) 34/46 (74%) States migrated in December</i></p>	To note

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
C18/41	Implementation of AMBEX Handbook Procedures	That, Dakar and Pretoria RODB Provider States: a) implement an automatic OPMET data monitoring scheme using procedures in Chapter 12 and Appendix F of the AMBEX Handbook on quarterly basis (March 31, June 30, August, 31 and December 31 of each year); b) perform regular 24 hour simultaneous monitoring starting at 0000 UTC on the first Wednesday of every month; and c) distribute the monitoring statistics to the Chairman of the OPMET Management and the Secretariat with effect from July 2012.	AFI RODB Provider States (Senegal and South Africa)	a) An automatic OPMET data monitoring scheme implemented b) regular 24 hour simultaneous OPMET monitoring performed c) OPMET monitoring statistics distributed	2012 <i>State Letter distributed to Senegal, South Africa and ASECNA on 01 August a), b) and c) not fully implemented by the RODBs</i>	To note
D18/42	Development of Back Up Procedures for The AFI RODBs	That, a Core Team of experts consisting of Members from Kenya, Madagascar, Senegal, South Africa and ASECNA be established to develop back up procedures for the AFI RODBs.	Core Team	Back up procedures for the AFI RODBs developed	2013	To note
C18/43	Implementation of an AFTN Circuit between Dakar and Pretoria RODBs to Support Back-Up Contingency Capabilities	That Dakar and Pretoria RODBs Provider States, a) investigate the best possible way to implement a backup circuit between the two RODBs for the implementation of the backup procedures between the RODBs, in time for the MTF/4 meeting September 2012 and b) implement reliable telecommunications facilities to support back-up procedures for the AFI RODBs.	AFI RODB Provider States (Senegal and South Africa)	a) A backup circuit between the two AFI RODBs implemented b) Reliable telecommunications facilities implemented between AFI RODBs	2014	To note

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
D18/44	Amendment to the AMBEX Handbook	That, a) Appendices A and B to the AMBEX Handbook be updated by the MET/SG Secretariat to reflect AFTN addresses for the IROGs Bangkok, Jeddah and Rio de Janeiro; and b) the amended AMBEX Handbook given in Appendix 3.6A to this report, be: <i>i. endorsed as the AMBEX Handbook Seventh Edition, Amendment 2; and published by the MET/SG Secretariat by July 2012.</i>	APIRG Secretariat	AMBEX Handbook amended	2012 <i>Handbook amended, distributed on 07 August and placed on AFI website</i>	To note
C18/45	SIGMET Monitoring and OPMETOPMET Routing Tables	That, a) the two AFI RODB Provider States be invited to monitor the reception of SIGMET information during the regular (twice yearly) EUR Region SIGMET tests and report; b) the two AFI IROGs and ROC Toulouse exchange their routing tables and verify the coherency of these tables; and c) the AFI IROGs be invited to review their current routing tables, the status of OPMET reception, and update the routing tables as necessary.	a) AFI RODB Provider States (Senegal and South Africa) b) AFI IROGs (Senegal and South Africa) and ROC Toulouse (France) c) AFI IROGs	a) AFI SIGMET information monitored during the regular EUR SIGMET tests b) AFI OPMET Routing tables exchanged and coherency verified c) AFI routing tables updated	December 2012 <i>State Letter distributed to AFI States on 30 August</i>	To note
C18/46	Implementation of AFI OPMET data catalogue	That, the OPMET data catalogue given in Appendix 3.6B to this report, be expeditiously finalized and implemented by States in the AFI Region.	States	AFI OPMET data catalogue implemented	2013	To note

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
D18/47	Amendment to the AFI Regional SIGMET Guide	That, the amendment to the SIGMET Guide given in Appendix 3.6C to this report, is approved as the AFI Regional SIGMET Guide Ninth Edition, Amendment 2.	APIRG Secretariat	AFI Regional SIGMET Guide amended	2012 <i>Guide amended, distributed on 07 August and placed on AFI website</i>	To note
C18/48	Measures To Improve The Issuance of SIGMET in the AFI Region	That, the ICAO Dakar and Nairobi Regional offices sensitize meteorological authorities in the AFI Region on the importance of continuous monitoring, by meteorological watch offices (MWOs), of hazardous meteorological conditions that would warrant the issuance of SIGMET information in their respective areas of responsibility.	ICAO RDs Dakar and Nairobi	MET authorities in the AFI Region sensitized on the continuous monitoring of hazardous meteorological conditions that would warrant the issuance of SIGMET	2013	To note
C18/49	Revision of OPMET/OPMET Data Requirements	That: a) information related to the requirements of OPMET data from non-AOP aerodromes as given at Appendix 3.6D to this report, be submitted by ICAO Dakar and Nairobi Regional offices to the concerned States for approval, before amending the AFI FASID MET Table 2A and Annex 1 to the SADIS User Guide (SUG); and b) the non-AOP aerodromes as listed in Appendix 3.6E to this report, be deleted from AFI FASID MET Table 2A.	ICAO RDs Dakar and Nairobi	AFI OPMET Data Requirements revised	2012 <i>Implemented</i>	To note

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
C18/50	Improvement of OPMET Availability from AFI States Aerodromes	That, efforts be made by the concerned States to improve the availability at Dakar RODB, of the required OPMET information from Accra, Conakry, Freetown, Kano, Kinshasa, Lagos and Luanda.	6 AFI States (Angola, DRC, Ghana, Guinea, Nigeria and Sierra Leone)	OPMET Availability improved	2014	To note
D18/51	Preparation of AFI XML Transition Plan	That, the preparation of the AFI XML Transition Plan be deferred until the adoption of Amendment 76 to Annex 3 (July 2013) at the earliest.	ICAO RDs Dakar and Nairobi	Preparation of AFI XML Transition Plan deferred	1 July 2012 <i>Preparation postponed for ASBU BO-105 Module</i>	To note
C18/52	Issuance and Dissemination of SIGMET	That: a) ICAO Regional offices should make concerted efforts to assist States address shortcomings and difficulties identified; b) the MWO Provider States listed in Appendix 3.6F take the required measures to remove operational shortcomings in SIGMET provision; and c) Roberts field and Kinshasa FIRs MWOs consider bilateral arrangements with adjacent MWOs (i.e. Dakar and Brazzaville MWOs respectively) for the provision of SIGMET information on behalf of the States concerned.	a) ICAO RDs Dakar and Nairobi b) AFI MWO Provider States c) Roberts and Kinshasa MWO Provider States	a) SIGMET Shortcomings and difficulties addressed b) Operational shortcomings in SIGMET provision removed c) SIGMET implemented in Roberts and Kinshasa MWOs	Continuing basis 2014	To note
C18/53	Awareness Seminars on the AFI Air Traffic Management Volcanic Ash Contingency Plan	That ICAO Dakar and Nairobi Regional offices through the ATM/MET Task Force, conduct regional awareness seminars on the AFI ATM Volcanic Ash Contingency Plan in view of: a) Making all aviation stockholders in the AFI region aware of ATM VACP; b) Supporting its implementation; and c) Proposing further improvements to the plan.	ICAO RDs Dakar and Nairobi	Awareness seminar on VACP held	2013	To note

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
C18/54	Alternative Funding Sources for the Establishment and Implementation of QMS for the Provision of Aeronautical Meteorological Service and Aeronautical Information Management (AIM)	That ICAO and WMO investigate as a matter of urgency other possible sources of funding besides cost recovery to assist States willing to enter into a twinning or bilateral arrangements in order to fast-track the implementation of QMS for the provision of aeronautical meteorological (MET) service and aeronautical information management (AIM)	ICAO/HQ and WMO	Funding sources provided for the implementation of QMS for MET and AIM	15 November 2012 <i>QMS/MET is not funded (lack of financial resources)</i>	Secretariat to provide the ANC with further information on the implementation of QMS for meteorology and AIS in the AFI region, including what measures are in place to assist in procuring funds
C18/55	States Participation In The Cooperative Programme for Operational Meteorology (COMET) Through Safe Skies For Africa (SSFA) Programme	That: States requiring aeronautical meteorology training material from SSFA in collaboration with COMET to contact the ICAO Regional offices as appropriate.	States	Operational MET personnel trained through SSFA Programme	From 2013 (continued basis)	To note
D18/56	Future work programme of the MET sub-group	That, the work programme of the MET/SG be updated as shown in Appendix 3.6I.	ICAO RDs Dakar and Nairobi	The MET/SG work programme updated	December 2012 <i>Implemented : work programme updated</i>	To note

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
C18/57	Development of action plans on CO2 emissions reduction activities	That States: a) continue to consider environmental issues in the planning and implementation of regional air navigation systems; b) bring to the attention of the ICAO Secretariat specific areas where additional guidance on environmental benefits would be valuable; c) ensure that their national Action Plan focal points collaborate with relevant stakeholders for all the operational measures that States wish to develop, implement and/or include in their action plans; d) promote use of the ICAO IFSET tool for the quantification of environmental benefits from operational measures, as part of the development of States' action plans; and e) e) ensure that civil aviation experts are included in their delegation attending UNFCC meetings where environmental issues are considered.	States	Activities to reduce CO2 emissions	<i>Regional Workshops on ASBUs and IFSET (Special Implementation Projects) held in Dakar and Nairobi in 2012</i>	To note
C18/58	Estimation and reporting of operational benefits	That States: a) are urged to use the ICAO Fuel Savings Estimation Tool (IFSET) or a more advanced tool to estimate environmental protection benefits accrued from operational improvements; b) include environmental benefits analysis in their plans to implement operational improvements that may reduce fuel burn at a regional or national levels; and c) report the benefits to ICAO on a quarterly basis using the table to report environmental benefits of operational benefits at Appendix 3.7A to this report.	States, ATM/AIM/SAR SG, MET/SG and PRND WG	Implement the IFSET or more advanced estimation tools Promote use of IFSET	April 2013	To note

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
D18/59	Incorporation of Operational Benefits Tasks in the PRND Working Group Terms of Reference	That the terms of reference of the PRND-WG be amended to include consideration of operational benefits related to environmental protection.	ATM/AIM/SAR SG, MET/SG	Update the PRND WG TOR to include environmental benefits estimation and reporting	April 2013	To note
C18/60	Participation of the Africa-Indian ocean (AFI) region at AN-Conf/12	That, in preparation for the Twelfth Air Navigation Conference (AN-Conf/12) to be held in Montreal from 10 to 30 November 2012: a) AFI States and aviation stakeholders participate in the workshops to be organized by ICAO in Dakar (July 2012) and Nairobi (August 2012); and b) AFCAC coordinate with States and regional organizations the development of a common AFI position at the AN-Conf/12 Agenda items.	States	Common AFI position for the conference developed	August 2012 <i>AFI States and AFCAC participated in the AN-Conf/12 and endorsed the revised GANP, ASBU methodology and associated roadmaps</i>	To note
C18/61	Single centralized air navigation deficiencies database	That States and International Organizations: a) test the centralized database on iSTARS platform using the guidance at Appendix 4.1A; b) update the data as necessary in coordination with ICAO Regional offices, Nairobi/Dakar; and c) provide feedback to ICAO Regional office, Nairobi/Dakar by 31 August 2012.	States	Implement elements of the C18/61	Dec 2012 <i>The AFI Air Navigation Database is operation on the ICAO Website</i>	To note

Conclusion/ Decision No	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Reporting/ Completion date	Action Recommended to the ANC by the WG/SRP
C18/62	Improvement of Deficiency Reporting	That, in order to encourage reporting of deficiencies, follow up, collection of information on impediments to implementation, and to facilitate identification of solutions, AFI States and other stakeholders are encouraged to use the list of reporting areas at Appendix 4.3A to the report on agenda item 4.3, as a guide to minimum reporting.	States, ANSPs, Users, User organizations, civil aviation professional organizations (IFALPA, IFATCA, IFATSEA)	Report on the deficiencies, at least on the minimum reporting areas	Dec 2012 <i>Implementation has started</i>	To note
C18/63	Measures to Address Human Factors And Infrastructure Deficiencies	That, among efforts to reduce deficiencies, States address the following Human Factors and aviation infrastructure issues: a) Human Factors i) Undertake training courses to improve the proficiency of controllers on one hand and to assist them in the implementation of runway safety measures on the other hand; and ii) Undertake pilot training on the implementation of runway safety measures, crew discipline onboard and measures preventing loss of control. b) Infrastructure deficiencies i) Implement previous APIRG Conclusion on CPDLC implementation to back-up VHF and HF in remote areas; and ii) Implementation and usage of PBN in TMAs.	States	Enhanced strategies to improve safety	2014	that the ANC considers that this was an issue worthy of global attention
C18/64	Participation of Stakeholders in the APIRG Meetings	That States extend invitation to all stakeholders including meteorology and airport operators and Air Navigation Service Operators (ANSPs) to participate in APIRG meetings.	States	Improved attendance and comprehensive handling of air navigation issues	Future APIRG meetings <i>APIRG/19 tentatively scheduled for Q4 2013</i>	To note

Note: Updates in italics provided at the WG/SRP meeting

- B: Security** - *Enhance global civil aviation security;*
- C: Environmental Protection** - *Minimize the adverse effect of global civil aviation on the environment;*
- D: Efficiency** - *Enhance the efficiency of aviation operations;*
- E: Continuity** - *Maintain the continuity of aviation operations;*
- F: Rule of Law** - *Strengthen law governing international civil aviation.*

— END —