



AFRICAN CIVIL AVIATION COMMISSION

30th AFCAC PLENARY SESSION

(LIVINGSTONE, ZAMBIA, 4 – 5 DECEMBER 2018)

Agenda Item 6: Inputs for 2019-2021 AFCAC Triennium Activities

Session 2: Aviation Safety and Air Navigation

Theme: Progress, Challenges and Way Forward for the Implementation of APIRG, RASG-AFI and DGCA Decisions

STATUS OF IMPLEMENTATION OF APIRG/21 CONCLUSIONS AND DECISIONS

(Presented by Chairman of APIRG)

EXECUTIVE SUMMARY

This paper presents the follow-up action on the APIRG/21 Conclusions and Decisions by States and regional organizations as updated by the AAO and IIM Sub-Groups.

Action: The Plenary is invited to:

- a) Note the information provided in this working paper;
- b) Urge member States to provide the ICAO Secretariat with the required information on the status of implementation of these Conclusions and Decisions on a regular basis, in order to assess progress in the strengthening of the air navigation system and reporting as required by APIRG.

References:

- APIRG/21 Meeting Report
- AAO SG/2 Meeting Report
- IIM SG/2 Meeting Report

1. INTRODUCTION

- 1.1 The Twenty First Meeting of the Africa-Indian Ocean Planning and Implementation Regional Group (APIRG/21) was held in Nairobi, Kenya, from 9 to 11 October 2017. Under the new APIRG structure, subgroups review Decisions and conclusions made at previous meetings for update of implementation. The Second Meeting of the APIRG Airspace and Aerodrome Operations Sub-Group (AAO SG/2) was held in Nairobi, Kenya from 21 to 25 May 2018, whilst the Second Meeting of the APIRG Information and Infrastructure Management Sub-Group (IIM SG/2) was held in Dakar, Senegal from 9 to 11 July 2018. The two Sub-groups received information from AFI some States and regional organizations.

2. DISCUSSION

- 2.1 APIRG/21 adopted 28 Conclusions and 10 Decisions. Some progress has been made in the implementation of the various Conclusions and Decisions at regional level as reviewed by both the AAO and IIM Sub-Groups held in May and July 2018 respectively. During the review, and

where information has been made available, constraints to implement them have been identified and indicated.

2.2 The two Sub-Groups were also mandated to carry out the following tasks:

- a) identify those Conclusions and Decisions that continue to be valid as well as actions needed to further facilitate their implementation, including those that are no longer applicable (actions completed, covered by others, overtaken by events or otherwise redundant);
- b) review the formulation used in the Conclusions and Decisions which continue to be valid/relevant, and take action to align their formulation with the guidelines provided by the Air Navigation Commission; and
- c) take other action as necessary to enable accelerated and continuous implementation at State level.

2.3 Its important to note that the Conclusions and Decisions of APIRG are addressed to States, ICAO and/or International Organizations. In order for APIRG to report efficiently and in a timely manner, the Sub-Groups identified the need for States to improve on the level of information provided to ESAF and WACAF Regional Offices regarding their status of implementation.

3. SUMMARY OF CHALLENGES OF IMPLEMENTATION OF APIRG CONCLUSIONS AND DECISIONS

- a) Inadequate or lack of financial resources and high level commitment to aviation;
- b) Lack of expertise within States CAAs and ANSPs to implement, follow up or provide feedback on APIRG activities including recommendendations, decisions and Projects implementation.
- c) Ineffective mechanisms and participation to coordinate and support implementation of the APIRG conclusions, decisions and Projects implementation.
- d) Weak effective safety oversight in some States at the level of regulators
- e) Poor reporting of APIRG recommendendations, decisions and Projects implementation.

4. RECOMMENDATIONS AND MEASURES TO IMPROVE THE IMPLEMENTATION OF APIRG CONCLUSIONS AND DECISIONS

- 4.1
- a) Member States to establish effective internal mechanisms within their civil aviation organizations to facilitate collection of information on the status of implementation of APIRG Conclusions and Decisions in all applicable areas;
 - b) Provision to the ICAO Secretariat by all relevant parties with the required information on the status of implementation of Conclusions and Decisions on a regular basis, in order to assess progress in the strengthening of the air navigation system and to enable reporting by ICAO to APIRG;
 - c) Committing the necessary resources and infrastructure towards implementation of APIRG decisions and conclusions;

- d) Effective participation of States and industry in APIRG projects, including those linked to the APIRG decisions and conclusions;
- e) Timely reporting of Incidents and deficiencies and making use of AFI Air Navigation Deficiency Database (AANDDD);
- f) Strengthening the effectiveness and efficiency of the African Flight Planning Procedures Programme (AFPP) and ANSP Peer review mechanism.

5. CONCLUSION

- 5.1 Whereas some States have made progress in instituting mechanisms and actions to address the Conclusions and decisions, there continues to be lack of information from States regarding their current status. The objectives and goals of APIRG in the implementation of the Global Air Navigation Plan (GANP) can only be realised if all States, ANSPs and the industry stakeholders fully comply with reporting requirements and effective interface collaboration. It is therefore critical that relevant information is provided to the APIRG Secretariat or Regional Offices to allow update of status before APIRG/22, tentatively scheduled for April 2019.



ATTACHMENTS

FOLLOW-UP ON APIRG/21 CONCLUSIONS AND DECISIONS

Conclusions/ Decisions No.	Title of Conclusion/ Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Report/ Completion date	Follow up Action by	Comment on Status of implementation
1	2	3	4	5	6	7	
CONCLUSION 21/01:	COORDINATED APPROACH TO AIR NAVIGATION PLANNING AND IMPLEMENTATION	<p>That, in order to facilitate harmonization and efficiency in the implementation of SARPs, global and regional requirements that effectively support national and regional development:</p> <p>a) the AFI Region should adopt a coordinated performance-based approach to air navigation planning and implementation based on Regional priorities; and</p> <p>b) based on the Regional ANP, AFI States develop national air navigation plans linked to national development plans, highlighting the importance of aviation as an enabler to address</p>	APIRG / States	National Air Navigation Plans	31 December 2017	Chairpersons of APIRG AAO/ SG APIRG IIM/SG & Secretariat	Copies of consolidated national air navigation plans are yet to be received from States

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		national socio-economic issues and ensure the availability of sufficient deployment resources.					
CONCLUSION 21/02:	INCREASING THE EFFECTIVENESS OF APIRG	That, in order to act as an effective catalyst and support to Regional Implementation, APIRG should: a) play a crucial role in coordinating the implementation of the performance based Regional Air Navigation plan; and c) function as the platform for providing feedback on regional level as well as global level in regard to suitability of provisions and implementation.	APIRG / States	Regional Air Navigation Plans implemented	APIRG/22	Chairpersons of APIRG AAO/ SG APIRG IIM/SG & Secretariat	Ongoing activity.
CONCLUSION 21/03:	ESTABLISHMENT OF REGIONAL AIR NAVIGATION SUPPORTING TEAMS (RANST)	That, in order to support AFI States in their efforts to implement air navigation operational improvements, the relevant ICAO Regional Offices (ESAF and	APIRG / States	Establishment of RANST Programme of assistance	APIRG/22	APIRG Secretariat, in close consultation with ICAO	Activities of RANST (especially ATM) are being implemented as part of the ROST missions at

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		<p>WACAF):</p> <p>a) endeavour to include all areas of ANS as part of ROST missions or consider establishment of Regional Air Navigation Supporting Teams (RANST) where applicable to support States in a harmonized Performance based approach, aligned with the Global Air Navigation Plan as well as with the AFI Regional Air Navigation Plan;</p> <p>b) include in their work programmes assistance missions to States aimed to support States in implementing regional and national Air Navigation Plans requirements in a consistent / harmonized manner; and</p> <p>d) promote the development and inclusion of national air navigation plans into their national</p>		missions to States		Regional Directors	Regional office level.

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		development plans (NDPs) at the ministerial or higher levels.					
DECISION 21/04	APPROVAL OF VOL II AND VOL III OF THE AFI eANP	That, in order to expedite completion and approval of the AFI eANP: a) the Secretariat should coordinate with States as soon as possible, for comments where necessary on the revised Volume II and Vol III; and b) the APCC approve AFI eANP Volumes II and III by December 2017 on behalf of APIRG, provided the comments to be received from States have no significant impact on the eANP content.	APIRG Secretariat APCC States	AFI eANP Volumes II and III Approval	AFI ANP Volume II endorsed by ANB and uploaded on ANP Platform. Volume III template endorsed by APIRG States to provide updates on status of ASBU implementation in order for Volume III to be populated.	APIRG Secretariat States	Most States are yet to provide updates on status of ASBU implementation to allow population of Volume III.
CONCLUSION 21/05:	IMPLEMENTATION OF CONTINGENCY PLANS	That, a) States develop or update Contingency Plans (CPs) that include Public Health Emergencies (PHE) and	States ESAF / WACAF	Remaining States' ATM Contingency Plans (CPs) submitted to ICAO, to	31 December 2018	APIRG Secretariat States	Ongoing activity.

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		<p>Volcanic Ash (VA) provisions and publish them as soon as practical; and</p> <p>b) ICAO provide assistance to States in the development and coordination of the CPs to enable their publication and completion of the Regional CP.</p>	Regional Offices	include PHE & VACP			
CONCLUSION 21/06:	MEMBERSHIP OF APIRG SUBSIDIARY BODIES	<p>That, in order to facilitate States' nomination and organizations' of members to the APIRG Sub-Groups and avail the Sub-Groups with required expertise:</p> <p>a) The APIRG Procedural Handbook provisions relating to membership to the Sub-Groups be revised and sufficient detail included to ensure that all fields of air navigation applicable to the respective Sub-Group are covered; and</p> <p>b) States and organizations that have been identified to provide core expertise</p>	<p>APIRG Secretariat</p> <p>States/ Organizations</p>	<p>APIRG Procedural Handbook revised</p> <p>Qualified officials nominated in all areas as applicable</p>	<p>APIRG/22</p> <p>APIRG/22</p>	<p>APIRG Secretariat</p> <p>APCC/3</p> <p>States / organizations</p>	

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		to the Sub-Groups and Project Teams, and have not already so, nominate as matter of priority and in accordance with the APIRG Procedural Handbook, appropriately qualified officials to the APIRG Sub-Groups and Project Teams as applicable.					
DECISION 21/07:	UPDATE OF THE AFI SECONDARY SURVEILLANCE RADAR (SSR) CODE ALLOCATION PLAN AND ASSIGNMENT PROCEDURES	That, in order to enable States to meet their increasing air traffic services safety, capacity and efficiency obligations, the Secretariat prioritize the activity of the APIRG AFI SSR Code Allocation and Assignment Review (ASCAAR) Project to update the SSR Code Allocation Plan and Assignment Procedures in the AFI Air Navigation Plan.	APIRG Secretariat	SSR Code allocation plan for AFI Region updated	ASCAAR Meeting held 2-4 May 2018 in Nairobi, Kenya Draft Conclusions to be submitted to APCC/3 for review and endorsement	AAO SG Secretary	Activity undertaken and endorsed conclusions to be submitted to APIRG/22.
CONCLUSION 21/08:	SEAMLESSNESS OF AIR TRAFFIC MANAGEMENT IN AFRICA	That, in order to facilitate the synergetic implementation of an AFI Seamless Sky: a) All the Regional Economic Communities	APIRG Secretariat RECs	Roadmap developed	31 December 2018	ESAF / WACAF Regional Offices	

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		<p>(e.g. EAC, ECCAS, ECOWAS, COMESA, SADC) and ANSPs serving multiple States (e.g. Roberts FIR, and ASECNA), are invited to develop a clear and agreed roadmap, in consultation with users, for the implementation of seamless, harmonized, interoperable Air Traffic Management systems and procedures with clear benefits to the aviation stakeholders;</p> <p>b) Sub-regional economic bodies be requested to establish mechanisms that will facilitate timely, coordinated and efficient implementation of future technologies and procedures, while taking advantage of existing ones in order to achieve a coordinated implementation of Seamlessness of Air Traffic Management in the Region; and</p>	<p>RECs</p> <p>AFCAC</p>	<p>Mechanisms established</p> <p>Support from AFCAC provided where necessary</p>	<p>31 December 2018</p> <p>31 December 2018</p>	<p>RECs</p> <p>AFCAC/ICAO</p>	

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		c) AFCAC is requested to facilitate and provide support where political sensitization is necessary.					
CONCLUSION 21/09:	PBCS PLANNING, IMPLEMENTATION AND MONITORING	<p>That, in order to enable uninterrupted operation of aircraft flying in areas where PBCS mandates have been established, and to facilitate timely and harmonized regional implementation of PBCS in the AFI Region:</p> <p>a) AFI States with operators operating into areas where PBCS approval is required should prioritize establishment of necessary capacity to carry out the operational approvals and effective oversight of their operators;</p> <p>b) APIRG Should develop further guidance and criteria to facilitate for consideration by States with respect to PBCS implementation in the AFI Region;</p>	<p>States</p> <p>APIRG Secretariat</p> <p>States</p> <p>States</p>	<p>Progress reports by States on capacity</p> <p>Guidance developed and shared with States</p> <p>PBCS implementation plans developed</p> <p>PBCS Regional Monitoring bodies</p>	<p>APIRG/22</p> <p>31 December 2018</p> <p>31 December 2018</p> <p>APIRG/22</p>	<p>ESAF / WACAF Regional Offices</p> <p>APCC/3</p>	(AAO SG)

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		<p>c) States should develop PBCS implementation plans as part of the National aviation Plans; and</p> <p>d) Establishment of PBCS Regional Monitoring should be based on detailed analysis of the status and maturity of implementation as well as the expected benefits.</p>		established			
DECISION 21/10	DEVELOPMENT OF A CATALOGUE OF APIRG PROJECTS	That, the Secretariat should finalize the consolidated catalogue providing a standardized description of all APIRG projects by 31 of December 2017, and ensure its continued update and posting on ICAO ESAF and WACAF Regional Offices' websites.	APIRG Secretariat	Catalogue of APIRG Projects developed	December 2017	APIRG Secretariat through APCC/3	Catalogue to be reviewed before APIRG/22
DECISION 21/11	LINKAGE BETWEEN PROJECTS	<p>a) The Project Teams finalize the detailed linkage between the IIM Projects; and</p> <p>b) The IIM and AAO Sub</p>	<p>States (Project Team Leaders)</p> <p>APIRG Secretariat</p>	Project Linkage matrixes finalised	June 2018	IIM/AAO SGs Secretariat	To be reviewed in preparation for APIRG/22

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		Groups identify the operational requirements to be considered in the linkage between regional projects.					
CONCLUSION 21/12	AERONAUTICAL SURVEILLANCE IMPLEMENTATION STRATEGY	That, considering the deployment of new technologies and the need for a rationalized aeronautical infrastructure, the IIM/SG develops proposals for amendments to the AFI Aeronautical Surveillance implementation strategy to be submitted for APIRG approval through the APCC by 31 March 2018.		PfAs developed and submitted to APCC	31 March 2018	IIM/SG Secretary	To be reviewed IIM Sub group considered this item Amendments to the AFI Aeronautical Surveillance implementation strategy to be submitted to APCC/3
CONCLUSION 21/13	AERONAUTICAL SPECTRUM ISSUES	That, in order to protect and maintain continuous vigilance on ongoing threats to the aeronautical frequency spectrum: a) ANSPs and airlines should regularly report cases of harmful radio interference within the aeronautical frequency spectrum to the national	ANSPs and airlines IIM SG	Regular reports by ANSPs and airlines	APIRG/22	States' ANSPs Airlines	On going activity: IIM Project on the protection of Aeronautical Spectrum (IIM SG SPEC) develops policies and mechanism to provide and protect Aeronautical Spectrum. APCC3

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		<p>Telecommunication authorities through the Civil aviation authorities, ICAO and IATA; and</p> <p>b) The IIM/SG with the support of ICAO should accordingly develop and maintain a regional database on reported cases of such harmful interference.</p>		Regional database developed		IIM SG	or APIRG/22 will be provided with update.
CONCLUSION 21/14:	AIXM IMPLEMENTATION	That, in order to comply with the schedule for AIXM implementation based on the project deliverables for the AFI-Region as defined by the IIM/SG, States are urged to comply with the migration process to the identified Regional AIS Regional Databases in accordance with the AFI-CAD Concept.	States	Effective migration from AIS to AIXM	Project migration deadline	APIRG Secretariat	RO AIS to provide update
DECISION 21/15	INPUTS TO THE 3RD ICAO WORLD AVIATION FORUM (IWAFF/3) AND AU'S PROGRAMME FOR INFRASTRUCTURE	<p>That, in order to facilitate the financing and support the implementation of APIRG projects:</p> <p>a) The Secretariat is tasked to coordinate APIRG</p>	APIRG Secretariat	APIRG inputs coordinated	August 2018	APIRG Secretariat	Provisions of the need for Aviation infrastructure development plan and related roadmap for Africa was

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	DEVELOPMENT IN AFRICA (PIDA)	<p>inputs to be submitted to the 3rd ICAO World Aviation Forum (IWAF/3) to be held in Nigeria, Abuja, 20-22 November 2017, in order to assist in the following:</p> <p>i). Determination of the aviation infrastructure needs of African States, through appropriate gap-analyses, taking into consideration requirements of the ICAO Global Plans, Regional Plans and existing and future capacity requirements; and</p> <p>ii). Preparation and incorporation of an aviation infrastructure development plan for Africa in the Work Plan of the AU's Programme for Infrastructure Development in Africa (PIDA) and coordinate its</p>	APIRG IIM/AAO SGs	Updates provided to APIRG through its Sub-Groups	June 2018	APIRG Secretariat	<p>included in communique of AU's Programme for Infrastructure Development in Africa (PIDA) week in December 2017.</p> <p>APIRG/22 will be provided with update.</p>

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		implementation. b) APIRG is to be updated and its subsidiary bodies involved in the work related to the above tasks.					
CONCLUSION 21/16:	SAFETY MANAGEMENT IMPLEMENTATION	That, States, regional and international organizations are invited to share tools and examples which support effective safety management implementation to be considered for posting on the ICAO safety management implementation website through an ICAO validation process.	States / Organizations	Tools and examples shared ICAO SMS website updated	December 2018	APIRG Secretariat	
CONCLUSION 21/17:	DEVELOPMENT OF NATIONAL AIR NAVIGATION ASBU PLANS	That, States that have not yet done so develop their national ASBU plans (as a component of their national Air Navigation Plan) based on APIRG's categorization and prioritization of ASBU Modules, by not later than 30 June 2018.	States	ASBU national plans developed and submitted to ICAO	30 June 2018	ESAF / WACAF Regional Offices	APCC/3 to review challenges and direct way forward to enable enhanced reporting
CONCLUSION 21/18:	SURVEYS ON ASBU IMPLEMENTATION STATUS	That: a) The Secretariat should carry out a more comprehensive survey before 31 December	APIRG Secretariat	Survey completed	31 December 2017	ESAF / WACAF Regional Offices	Reporting is still a challenge

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		<p>2017 in order to establish the extent of ASBU Block 0 Modules implementation in the AFI Region; and</p> <p>b) States / Organizations cooperate and actively participate in surveys conducted by the Secretariat or relevant stakeholders to assist the AFI Region in the monitoring of, and reporting on ASBU implementation.</p>	States Organisations	States and organisations participate in surveys	31 December 2017	States / organisations	
CONCLUSION 21/19:	INCLUSION OF ASBU TRACKER REVIEW AND ANALYSIS IN FIR COORDINATION MEETINGS	<p>That:</p> <p>a) All ANSPs should include in their FIR coordination meetings, the ASBU tracker review and analysis to ensure that the implementation of the ASBU modules in FIRs boundaries are done in a proper manner to facilitate interoperability of the systems;</p> <p>b) For that purpose, each state and each ANSP designate a focal point</p>	ANSPs States/ANSPs	<p>ASBU tracker review included in FIR coordination meetings</p> <p>ASBU tracker focal points designated</p>	APIRG/22	States ESAF / WACAF Regional Offices	

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		for ASBU trackers.					
CONCLUSION 21/20:	SUPPORT TO THE IMPLEMENTATION OF THE AFRICAN FLIGHT PROCEDURE PROGRAMME (AFPP)	<p>That, AFI States support the continuation of the AFPP through the following:</p> <p>a) Payment of the AFPP membership contributions, including arrears related to Phase I of the programme; and</p> <p>b) Signing of the AFPP Programme Document for Phase II.</p>	<p>States</p> <p>States</p>	<p>Outstanding fees settled to sustain AFPP</p> <p>States participation in AFPP.</p> <p>AFPP Programme Document signed as necessary</p>	<p>APIRG/22</p> <p>APIRG/22</p>	<p>States</p> <p>ESAF WACAF Regional Offices</p>	<p>New AFPP Project Manager was selected by the Steering Committee, Phase II of the project</p>
CONCLUSION 21/21:	EXCHANGE OF OPMET DATA IN DIGITAL FORMAT	<p>That, to improve the exchange of OPMET data in digital format in the AFI Region, States that have developed capabilities for exchange of OPMET data in digital format are encouraged to implement Amendment 77 to ICAO Annex 3 to the Chicago Convention, with regard to the dissemination OPMET data.</p>		<p>Implementation of Amendment 77 by States</p>	<p>APIRG/22</p>	<p>States</p> <p>APCC/3 to review status</p>	

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CONCLUSION 21/22:	TRANSFER OF ALGERIA FROM THE ARMA TO THE EUR RMA	That, pursuant to alignment of Regional ANPs adopted by the Twelfth Air Navigation Conference (AN Conf./12) in November 2012: a) APIRG endorses the transfer of Algeria from the ARMA to the EUR RMA; and b) request concerned parties, in particular the ARMA and the Secretariat to take necessary action to facilitate the transfer without any undue delay, in any case by 31 December 2017.	APIRG APIRG	Algeria transferred to EUR RMA	June 2018	APIRG Secretariat APCC/3 to review status	
CONCLUSION 21/23:	AFI NAVIGATION DEFICIENCY DATABASE (AANDD).	That, pursuant to its mandate, in particular to identify, record and address specific deficiencies in the air navigation field in the AFI Region: a) APIRG formally adopt and launch with immediate effect, the AFI Air Navigation Deficiency Database (AANDD);	APIRG States/Users States / Organisations	AANDD launched Use of AANDD by States	December 2018 December 2018	APIRG Secretariat States States	Training of WACAF Staff on AANDD is yet to be done. Arrangements are ongoing to provide the necessary training.

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		<p>b) AFI States, other concerned States and users effectively make use of the AANDD; and</p> <p>c) AFI States and concerned organizations that have not already done so, nominate focal points for interaction with the web-based database, so that they may be issued with access credentials.</p>		AANDD Focal points nominated	June 2018	APCC/3 to review status	
CONCLUSION 21/24:	AVAILABILITY OF OPMET DATA AT AFI OPMET DATA BANKS	<p>That, in order to improve on the availability of OPMET data at AFI OPMET data banks:</p> <p>a) States should endeavour to make available OPMET Data at the two AFI OPMET Data Banks of Pretoria and Dakar, in compliance with APIRG Conclusion 20/43, for regional and Global distribution; and</p> <p>b) Follow-up actions to be identified to address deficiencies in OPMET reporting as a matter of</p>	States	<p>OPMET data available</p> <p>OPMET deficiency reporting established</p>	APIRG/22	IIM SG Secretary	On going

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		urgency.					
CONCLUSION 21/25:	UPDATE OF THE LIST OF AIR NAVIGATION DEFICIENCIES	That States, a) continue to provide to the ICAO Regional Offices updated information on the status of implementation of the Regional Air Navigation Plan (ANP) elements; and b) endeavour to report Air navigation deficiencies specifically deficiencies related to RVSM operation.	States States	ICAO provided with updated information RVSM deficiencies reported to ICAO	APIRG/22 APIRG/22	States States	Challenges of States not reporting continues to hinder update of list of deficiencies.
CONCLUSION 21/26:	IMPLEMENTATION OF AIDC	That: c) The IIM/SG coordinate the implementation by AFI States of new AIDC capable systems aimed at ensuring the full compliance of their protocols in order to facilitate interoperability and interconnection; and d) ASECNA and GCAA are encouraged to complete		AIDC systems implemented AIDC between Accra and Abidjan ACCs implemented	APIRG/22	IIM SG Secretary	Identified in the Aviation System Blocks Upgrades (ASBU) modules as one of the candidate functionality for the block zero elements/technologies, the pace of AIDC implementation in AFI Region is

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		the implementation of AIDC between Accra and Abidjan ACCs and share their experience for consideration by the relevant APIRG Project.					very slow. IIM SG COM Project 1: Implementation of ground/ground communication (The Project Plan has not been finalized).
CONCLUSION 21/27:	DEFICIENCIES IN AERONAUTICAL CHARTING	That: a) APIRG IIM Sub-group, in coordination with ICAO, addresses deficiencies in aeronautical charting should Phase 2 of a regional implementation strategy be needed; and b) States develop solutions and mitigating measures under the IIM/SG to address missing ATS Messages and States to implement automated flight planning systems.		Aeronautical charting deficiencies addressed ATS messages deficiencies addressed	APIRG/22	IIM SG Secretary	WACAF (AIM can provide comments)
CONCLUSION 21/28:	SUPPORT TO THE AFRICAN ANSP PEER REVIEW	That: a) ICAO be encouraged to continue to provide its support to the African ANSP Peer Review	ESAF / WACAF	Increase in membership	December 2018	ESAF/WACAF Regional Offices	The AFPP Steering Committee identified a new Project Manager in 1 st quarter of

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		Programme, in coordination with the African Air Navigation Services Providers Steering Group; and b) All African ANSPs should participate in the Peer Review Programme and continue to work together to enhance safety and efficiency of air transport operations in Africa.	ANSPs			States/ANSPs	2018 Regional Training Workshop on the Peer Review Programme held in Grand Bassam, Cote d'Ivoire 25-27 April 2018
CONCLUSION 21/29:	REGIONAL TRAINING WORKSHOP ON THE PEER REVIEW	That, ANSPs participate in the regional training workshop on the African ANSP Peer Review Programme manual, including relevant ICAO requirements, to be hosted by ASECNA in coordination with ICAO, during the week commencing 11 December 2017.	ANSPs	All States participate and benefit from regional training workshop	11 December 2017	States/ANSPs	Regional Training Workshop on the Peer Review Programme held at Grand Bassam, Cote d'Ivoire 25-27 April 2018
DECISION 21/30	ASSISTANCE AND GUIDANCE ON THE SAFE INTEGRATION OF	That, in order to facilitate harmonized introduction of Remotely Piloted Aircraft Systems (RPAS) into the AFI					

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	RPAS INTO NON-SEGREGATED AIRSPACE	<p>airspaces, and to address airspace safety risks associated with RPAS operations:</p> <p>a) ICAO should provide, as a matter of priority, assistance and guidance to States in their integration of RPAS in non-segregated portions of airspace in FIRs for which they are responsible for the provision of air traffic services (ATS).</p> <p>b) the work programmes of the APIRG auxiliary bodies be revised as appropriate to include matters related to the safe integration of RPAS operation in non-segregated airspace.</p>	<p>ICAO</p> <p>APIRG auxiliary bodies</p>	<p>Assistance and guidance provided through workshops/training</p> <p>Updated work programme to include safe integration of RPAS</p>	<p>APIRG/22</p> <p>APIRG/22</p>	<p>ESAF/WACAF Regional Offices</p> <p>APIRG Secretariat</p>	
CONCLUSION 21/31:	ESTABLISHMENT OF NATIONAL COORDINATION MECHANISMS FOR THE INTRODUCTION OF UNMANNED AIRCRAFT	That, in order to support States' efforts on the safe integration and address the challenges of the rapidly growing volume of unmanned aircraft system operations in the AFI Region, in particular the	States	National	June 2018	States	

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	SYSTEMS (UAS)	<p>harmonized introduction of UAS into the AFI airspaces and mitigation of airspace safety risks:</p> <p>a) As a matter of priority, States in collaboration with all concerned Stakeholders establish a national multidisciplinary Team tasked to develop, implement and monitor a national plan and a set of regulations based on the based on ICAO guidance and best practice for the progressive accommodation and integration of RPAS into non-segregated airspace;</p> <p>b) International organizations including AFCAC and Sub-regional economic bodies, be requested to provide support as necessary;</p> <p>c) States strengthen civil-Military cooperation to ensure effective monitoring and avoid</p>	AFCAC / Organizations States	<p>Multidisciplinary Team established</p> <p>Support provided</p> <p>Harmonized RPAS procedures</p>	<p>APIRG/22</p> <p>APIRG/22</p>	<p>ESAF/WACAF Regional Offices</p> <p>AFCAC / Organizations</p> <p>States civil/military authorities</p>	

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		duplication of procedures for RPAS operations.					
CONCLUSION 21/32:	REGIONAL COORDINATION FOR surveillance data sharing	That: a) States/ANSPs, ASECNA, GCAA, NAMA, ROBERTS FIR pursue the interconnection of ATS surveillance facilities in the Gulf of Guinea with the support of their RECs and donors in order to provide a tangible example of achievement towards a seamless airspace in the AFI Region; b) ICAO Regional Offices continue to facilitate surveillance data sharing initiatives in the Region.		Seamless airspace implemented Surveillance data sharing initiatives	APIRG/22 APIRG/22	Concerned states ICAO ESAF & WACAF Offices	Ongoing activity: Project Team developed proposals for amendments to the AFI Aeronautical Surveillance implementation strategy.
CONCLUSION 21/33:	IMPLEMENTATION OF SURVEILLANCE INFRASTRUCTURE IN THE AFI REGION	That, in order to facilitate harmonized implementation of infrastructure that support seamlessness in the provision of air traffic management and realization					Draft Questionnaire has been developed by the Surveillance Project Team. To be adopted by the next

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		<p>of associated benefits by all stakeholders, while avoiding unnecessary duplication of investments on the ground and in the air, AFI States are urged to:</p> <p>a) Apply the principles of collaborative decision making that include users at early stages when planning investments into surveillance infrastructure (SSR, ground-based ADS-B, space-based ADS-B, multilateration);</p> <p>b) Follow the guidelines in the ICAO Circular 326 when implementing surveillance technology while ensuring economic transparency in accordance with ICAO principles of cost-relatedness as per ICAO Doc 9082 and Doc 9161;</p> <p>c) Avoid the imposition of mandates on a State by State or FIR by FIR basis.</p>	<p>States</p> <p>States</p> <p>States</p>	<p>Application of CDM</p> <p>Use of ICAO Circular 326 by States</p>		<p>States</p> <p>States</p> <p>States</p>	APCC or APIRG

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CONCLUSION 21/34	CYBER SAFETY AND RESILIENCE OF THE AIR NAVIGATION SYSTEMS	<p>That, in order to address the emerging issues related to cyber security, safety and resilience of the air navigation systems in AFI Region:</p> <p>a) States should develop national frameworks including regulations, policy strategy and Plan linked to the National Civil Aviation Security Programme in collaboration with all concerned stakeholders;</p> <p>b) States should as a matter of urgency establish and maintain coordination procedures with their neighbouring States in order to share information on cyber events and ensure that safety and resilience policies and provisions will apply counter the increasing threats in particular those related to cyber-attacks; and</p> <p>c) ICAO in collaboration</p>	<p>States</p> <p>States</p> <p>ICAO / industry stakeholders</p>	<p>National frameworks, regulations and policy strategy developed</p> <p>Coordination procedures implemented</p> <p>Support and guidance to States provided</p>	<p>December 2018</p> <p>June 2018</p> <p>APIRG/22</p>	<p>States</p> <p>States</p> <p>ICAO & Industry stakeholders</p>	<p>Ongoing activity: Assessment of AFI Aeronautical Networks Cyber Security by the IIM COM Project 5).</p> <p>To also be undertaken in the framework of proposed SIP ICAO (ESAF and WACAF Offices) to perform proposed seminars on ATM Security in particular on cyber safety and resilience of the air navigation service.</p>

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		with industry stakeholders should endeavour to support to States through the provision of guidance material, training, Workshop/Seminars on ATM Security in particular on cyber safety and resilience of the air navigation service.					
CONCLUSION 21/35	CONDUCT OF VOLCANIC ASH EXERCISES IN AFI REGION	That, in order to practice and develop inter-agency response to volcanic activity in the AFI Region, States are urged to develop and conduct Volcanic Ash exercises using guidance contained in Appendix F of ICAO Doc 9766 (Handbook on the International Airways Volcano Watch (IAVW)).	ICAO States	Volcanic ash exercises conducted in AFI Region	APIRG/22	ESAF/WACAF Regional Offices States	Yet to be performed
CONCLUSION 21/36:	APIRG/RASG-AFI COORDINATION	That; a) APIRG/RASG-AFI Coordination Task Force (ARC-TF) membership be reviewed to ensure effective participation/representation of all key	APIRG RASG-AFI	ARC-TF membership reviewed Allocation of activities reviewed and	APIRG/22	APIRG & RASG-AFI Secretariat	Ongoing activity

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		<p>stakeholders; and</p> <p>b) ARC-TF reviews allocation of activities to include all additional and applicable emerging issues:</p>		updated			
CONCLUSION 21/37:	APIRG/RASG-AFI COORDINATION	<p>That, in a continuing effort to enhance effectiveness in the processing the outputs and recommendations of the AFI Tactical Action Group:</p> <p>a) The TAG is to provide feedback directly to RASG-AFI, with the Secretariat ensuring that necessary information is also provided to APIRG; and</p> <p>b) Jointly with the APIRG and RASG Secretariat, formulate project/s to be considered for funding under mechanisms such as the AFI Plan, to address issues under its mandate which also subscribe to the APIRG and RASG ANS KPAs, Targets and Monitoring.</p>	<p>TAG</p> <p>TAG</p>	<p>Feedback provided by TAG to RASG-AFI</p> <p>Selected projects formulated</p>	APIRG/22	APIRG & RASG-AFI Secretariat	Ongoing activity

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CONCLUSION 21/38:	ANNUAL APIRG AIR NAVIGATION REPORT	That; a) Annual APIRG Air Navigation Reporting Team (AANRT) undertake its activities to produce the first report by the end of 2017; and b) States provide comments on the contents of the first Annual APIRG Air Navigation Report within 14 days effective from 11 October 2017.	APIRG Secretary States	Annual APIRG Air Navigation Report produced Comments to AN Report provided by States	December 2017 25 October 2017	APIRG Secretary States	Draft Air Navigation Report developed and updated status is to be provided to APCC/3.