

Appendix A: Status of implementation of APIRG/25 Conclusions and Decisions applicable to IIM/SG

Meeting Ref. (APIRG/R ASG)	Conclusion/ Decision	Ref. #	Title of Conclusion/Decision	Text of Conclusion/Decision	Activity	Deliverable	Status
APIRG/25	Decision	25/10	Adoption of the ASBU Elements applicable to the region	That, to align the Regional Air Navigation Plan to the Sixth Edition of the GANP, the ASBU elements, as identified in the Appendix 3D to this Report, are endorsed.	APIRG to approve the identified applicable ASBU elements to region	Appendix 3D to the Report of the APIRG/25 Meeting containing the approved ASBU elements	Completed
APIRG/25	Conclusion	25/11	Collection of data and reporting on ASBU implementation	<p>That, to update the status of implementation of ASBU elements, and to ensure continuous and regular data-driven reporting in the region:</p> <p>a) States to fill up the data collection template presented in Appendix 3E, to this Report, and submit quarterly reports to the ICAO Regional Offices on the status of planning and implementation of ASBU elements, using the Excel template until the development of the online platform is completed; and</p> <p>b) The Secretariat expedite the completion of the development of the online platform aiming to replace the Excel template for data collection and reporting.</p>	<p>a) States to report on their status of planning and implementation of ASBU elements</p> <p>b) Secretariat to complete the online data collection tool</p>	<p>a) States provided data on the status of the implementation of applicable ASBU elements</p> <p>b) Excel Tool for ASBU data collection is automated</p>	<p>In Progress</p> <p>33 States provided data on the status of the implementation of applicable ASBU elements.</p> <p>The automation of the Excel Tool for ASBU data collection is underway</p>

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APIRG/25	Conclusion	25/12	Improvement of the effectiveness of the APIRG Projects	That, to improve the effectiveness of the APIRG Projects: a) The Secretariat be urged to reinforce its coordination and support to Project Teams; and b) The Secretariat in coordination with States and Organizations to review and update the list of Project Teams' members by 31 December 2022.	a) Secretariat to support IIM Project Teams in the implementation b) Secretariat to coordinate the update of the Project Teams	a) Several supporting meetings were conducted with the IIM project teams and guidance provided the development and implementation of the project activities, including the project cost estimation. b) Project teams membership updated	Completed
APIRG/25	Decision	25/13	Alignment of the APIRG Projects to the 6th Edition of the GANP	That, to promote the implementation of the ASBU elements applicable to the Region, the related APIRG Projects references be aligned with the GANP 6th edition groups, threads and elements as provided in Appendices 3F to this Report.	Project PTCs, in coordination with the Secretariat to align the project references with the ASBU applicable elements	Project references aligned with the ASBU applicable elements	In Progress Around 67% of IIM Projects have properly aligned their activities with the GANP

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APIRG/25	Decision	25/14	Termination of the IIM projects teams activities on AIM/1, AIM/2 and AIM/3	That, considering the AFI Plan “AIM Results-Based Implementation Support (RBIS) for the region” project whose scope covers the deliverables of the following AIM projects, and to avoid duplication of efforts, the activities of the said projects are terminated: a) AIM/1 - Assessment and development of QMS applied to AIM in States; b) AIM/2: Implementation of Aeronautical Information Exchange Systems (AIXM); and c) AIM/3 - Implementation of the provision of electronic terrain and obstacle data (e-TOD).	Termination of IIM Projects- AIM/1, AIM/2 and AIM/3	IIM Project activities on AIM/1, AIM/2 and AIM/3 terminated	Completed
APIRG/25	Decision	25/15	Adoption of the Projects AIM/4 and AIM/5	That, to assist States in the improvement of the quality of Aeronautical information, and the implementation of aerodrome mapping and instrument flight procedure data sets, the following AIM Projects, as described in Appendices 3G and 3H, are adopted: a) IIM/SG AIM/4 Project 4 – Monitoring of Aeronautical information quality and Improvement of NOTAM; and b) IIM/SG AIM/5 Project 4 – Implementation of Aerodrome mapping data sets and Instrument flight procedure data sets	APIRG to adopt the AIM4 and AIM5 Project	Approved project references are provided in Appendices 3G and 3H of the APIRG/25 Report	Completed
APIRG/25	Decision	25/16	Support to the APIRG Projects activities related to cyber resilience in AFI Region	That, to increase States/Organizations’ technical personnel awareness in cyber securing ANS systems, ICAO through the APIRG mechanism should strengthen its support to activities aimed at raising awareness of ANS Cyber resilience, in coordination with the industry, through webinars/workshops/seminars on Cyber resilience of ANS systems for the region.	The Secretariat to coordinate a webinar/works hop/seminar on Cyber resilience of ANS systems	Webinar on the Cyber resilience of ANS systems conducted	In Progress The Cybersecurity framework established The webinar on the cyversecurity framework to be

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							conducted
APIRG/25	Decision	25/17	Adoption of IIMSG MET Project 4 and MET Project 5	<p>That, to assist States in the implementation of Aeronautical Meteorology Personnel competency standards, and to address in a sustainable manner, the long-standing deficiencies related to the availability of the OPMET data in the Region, the IIM MET Projects, as described in Appendices 3I and 3J to this Report, are endorsed:</p> <p>a) IIMSG MET Project 4 – Aeronautical Meteorology Personnel competency standards; and</p> <p>b) IIMSG MET Project 5 – Removing deficiencies in OPMET data availability in the Region.</p>	APIRG to adopt the MET4 and MET5Project	Approved project references are provided in Appendices 3I and 3J of the APIRG/25 Report	Completed
APIRG/25	Decision	25/18	Outcomes of the First Meeting of Regional Volcanic Ash Exercise Steering Group	That, the Decisions of the first meeting of the Regional Volcanic Ash Exercise Steering Group held virtually in July 2022 and contained in Appendix 3K to this Report, is endorsed and should be considered in preparation for the second Regional Volcanic Ash Exercise to be conducted in 2023.	APIRG to approve the outcomes of the First Meeting of Regional Volcanic Ash Exercise Steering Group	The outcomes of the VOLCEX/SG1 approved as per Appendix 3K to the APIRG/25 Meeting	Completed

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APIRG/25	Decision	25/19	Role and responsibilities of States National Coordinators for Planning and Implementation and Technical Focal Points	That, to strengthen the APIRG and its subsidiary bodies activities, the terms of reference of the National Coordinator for Planning and Implementation (NCPI) as well as focal points in APIRG disciplines is endorsed as provided in Appendix 3L to this Report.	APIRG to endorse the ToRs of the NCPI	The approved ToRs is provided in the Appendix 3L of the APIRG/25 Meeting	Completed
APIRG/25	Decision	25/20	Consideration of the outcome of the Fifth Meeting of the African ANSPs	That, to assist States in improving the provision of Air Navigation services and reinforce the collaboration amongst States/organizations, the Project Teams to consider the key outcomes of the Fifth Meeting of the African ANSPs held in March 2012 when revising and implementing the AFI Regional ANS Projects.	Project Teams to incorporate (if any) the outcomes of the Fifth Meeting of the African ANSPs when revising and implementing the AFI Regional ANS Projects.	Outcomes of the Fifth Meeting of the African ANSPs incorporated in the regional ANS Projects	In Progress ANS regional project were revised. Incorporation of the Outcomes of the Fifth Meeting of the African ANSPs is still to be finalized
APIRG/25	Conclusion	25/21	Prevention of harmful interference to Radio Navigation Satellite Service Receivers in the 1559 – 1610 MHz frequency and mitigation of their impact	That, to ensure the safety, capacity, efficiency and continuity of aircraft operations using GNSS services, States shall endeavor to: a) plan, conduct and monitor appropriate actions aiming at preventing harmful interferences or mitigating the risk of the impact of such interferences to the Radio Navigation Satellite Service Receivers in the 1559 – 1610 MHz frequency band; in coordination with service providers (Airlines, Air Navigation Service Providers, Aerodrome Operators, and all stakeholders operating in the aviation sector	a) States to plan and implement mitigation actions b) States to plan and sensitize the national Telecommunications Regulatory	a) Mitigation actions planned and implemented. b) national Telecommunications Regulatory Authorities sensitized	Not started

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				including Air Force units); b) sensitize the national Telecommunications Regulatory Authorities, on the risk incurred by the civil aviation industry; and c) provide feedback on actions taken to the ICAO Regional Offices.	Authorities		
APIRG/25	Conclusion	25/22	Support to ICAO Position for ITU WRC- 23	That, in preparation of the ITU World Radiocommunication Conference 2023 (ITU WRC-23), Administrations/Organizations: a) contribute, when possible, to the Frequency Spectrum Management Panel (FSMP) efforts to update the ICAO position to reflect the outcome of ITU-R studies and the concerns identified by the region; b) liaise with Sub Regional Telecommunication organizations such as the West African Telecommunication Regulators’ Association, the Communication Regulators’ Association of Southern Africa and where possible participate in the work of the African Telecommunication Union (ATU) and ITU-R; and c) work with national radio regulators to secure a national/regional position in line with ICAO’s position.	States to coordinate with Frequency Spectrum Management Panel (FSMP) to update the ICAO position and work with national radio regulators to secure a national/regional position in line with ICAO’s position.	ICAO position updated. States are sensitized to collaborate securing the national radio regulators to secure a national/regional position in line with ICAO’s position.	Completed
APIRG/25	Decision	25/23	Update of the Regional Navigation Infrastructure Strategy	That, in accordance with the GANP Technology Roadmaps and in line with the outcomes of the regional independent Cost Benefit Analysis (CBA) for the introduction of SBAS, the APIRG Navigation Infrastructure Strategy	APIRG to include in the Navigation Infrastructure Strategy the	Rationalization of conventional navigational aids included in the APIRG Navigation	In Progress CNS NAV Project is considering the rationalization of

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				<p>should be developed to include the rationalization of conventional navigational aids and to update the GNSS regional strategy. The corresponding project document should be amended accordingly.</p>	<p>rationalization of conventional navigational aids and to update the GNSS regional strategy.</p> <p>The corresponding project document should be amended accordingly</p>	<p>Infrastructure Strategy</p> <p>CNS related Project amended</p>	<p>conventional navigational aids</p>
<p>APIRG/25</p>	<p>Conclusion</p>	<p>25/24</p>	<p>Support of the African Union Commission to the implementation of SBAS in the AFI Region</p>	<p>That, to complement the AUC/AFCAC Cost-Benefit analysis on the introduction of GNSS/SBAS services in the region and provide States with a complete set of recommendations supporting their decision-making, AFCAC should initiate a study on the governance and institutional issues related to SBAS in Africa, and facilitate the mobilization of required resources to support the effective implementation of SBAS in the region in accordance with the future revised Regional GNSS Strategy.</p>			<p>Not Started</p>

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APIRG/25	Decision	25/29	Completion of the Regional eAN	That to finalize the development of the Volume III and the amendment of the Volumes I and II of the eANP, a) States to review the draft eANP Volume III and provide the Secretariat with their feedback by 31 March 2023, for consolidation and subsequent formal approval by the APIRG through the APCC; and b) States and the Secretariat to expedite the amendment of the Volumes I and II of the AFI eANP, as appropriate, by 30 June 2023.	a) circulation of the draft eANP Volume III to States for review and feedback b) secretariat to reformat the Volumes I and II, organize workshops with States on the updating of the eANP, and consolidate the Proposals for amendment (PfAs)	a) Final b) Three States have provided their feedbacks c) Secretariat considered the feedback of States to consolidate the Vol III	In Progress Draft Voll III released. Three States have provided their feedbacks
APIRG/25	Conclusion	25/30	Identification, notification, and resolution of Regional Air Navigation Deficiencies	That, to ensure full implementation of the Air Navigation deficiencies management process: a) States and Organizations to identify and notify to their ICAO accredited Regional Offices, air navigation deficiencies as appropriate; b) The Secretariat to coordinate with States that have not yet done so, the appointment of qualified and experienced Focal Points and SMEs tasked to coordinate the Air Navigation Deficiencies related activities; and c) States and Organizations with the support of the Secretariat, when required, to conduct workshops to raise stakeholders' awareness on	a) Notification of deficiencies through the AANDD b) Nomination of AAND focal points c) Organization of training whorkshops	a) States /Organizations were updated the reporting of air navigation deficiencies b) States and Organizations focal points nominated c) Workshop held on the management of air navigation deficiencies through the AANDD	In Progress a) States /Organizations updated on the reporting of air navigation deficiencies b) 79% of States and Organizations have nominated their focal points nominated

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				the Air Navigation deficiencies for their effective identification, notification and resolution.			c) Workshop held on the management of air navigation deficiencies through the AANDD
APIRG/25	Decision	25/32	Consideration of lessons learned from the Regional VOLCEX 21/01	That, to benefit from lessons learnt from the first volcanic ash (VA) exercise: a) The Lead State of the next volcanic ash exercise be urged to consider and address the issues raised in the report of the first Regional VOLCEX 21/01, and b) Report on the implementation to the Regional VOLCEX/SG2 Meeting.	DRC as State Leader to develop the VA exercise directive and schedule	The 2023 VA exercise directive and schedule developed and implemented.	In Progress The VOLCEX/SG2 Meeting was held on 18 July to discuss the preparation of the second VA exercise and guidance were provided to DRC to work on the preparation of the 2023 exercise.
APIRG/25	Decision	25/33	Conduct of the Regional VOLCEX 23/01 exercise in the AFI Region.	That, to conduct the second volcanic ash exercise in the region, the Democratic Republic of Congo be designated as the Lead State of the Regional VA Exercise 23/01.	APIRG to designate the 2023 exercise Leader	DRC is designated as the 2023 exercise leader	Completed
APIRG/25	Decision	25/34	Approval of the updated Terms of reference of Regional VOLCEX Steering	That, to provide additional guidance on attributes of the Regional VOLCEX/SG including the composition, administration and functions of the group, the updated ToR of the Regional VOLCEX Steering Group be endorsed as per Appendix 3N to this Report.	APIRG to approve the ToRs of the VOLCEX/SG	Approved ToRs of the VOLCEX/SG is provided in Appendix 3N to APIRG/25 Report	Completed

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APIRG/25	Decision	25/35	Future Work programme of AFI VOLCEX Steering Group	That, to enable the VOLCEX/SG to achieve the group's objectives for 2022/2023, the updated work programme of the Group in Appendix 30 to this Report is endorsed.	APIRG to approve the work programme of the VOLCEX/SG	Approved work programme of the VOLCEX/SG is provided in Appendix 30 to APIRG/25 Report	Completed
APIRG/25	Decision	25/36	Survey of Aeronautical Mobile Service	That, to ensure an efficient monitoring of the performance of the Regional Mobile Communication Service: a) The mandate assigned to IATA for the conduct of AMC Surveys every 18 months under APIRG Conclusion 16/20 and Decision 16/19 is terminated as a result of the annual meeting cycle prescribed for PIRGs; b) States are urged to report to ICAO Regional Offices Aeronautical Mobile Service deficiencies in accordance with the Uniform Methodology for the Identification, Assessment and Reporting of Air Navigation Deficiencies; and c) The APIRG IIM/SG to review and analyze Aeronautical Mobile Communications data in the region based on available methods (e.g. AANND, UCR/ASR and States Service and Technical Reports).	a) States are urged to report to ICAO Regional Offices Aeronautical Mobile Service deficiencies	Aeronautical Mobile Service deficiencies reported	Not started

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APIRG/25	Conclusion	25/37	Improvement of NOTAM filtering by automated systems and assignment of location indicators	<p>That, to ensure the availability of comprehensive aeronautical information promulgated through NOTAM to airspace users who rely on the automated systems, and to ensure proper distribution of Flight plans and associated messages to the relevant ATS units,</p> <p>a) States/Organizations that have implemented automated systems for filtering NOTAMs, to ensure that those systems fully comply with the NOTAM selection criteria, including when the Item A) is filled with two Nationality letters followed by “XX”, and update the said systems, as appropriate; and</p> <p>b) Burkina Faso, Mali, Mauritania, and Togo to coordinate with ICAO for the assignment of appropriate Location indicators for their respective Flight information centers/Upper control areas.</p>	<p>a) Improvement of automated systems for filtering NOTAMs for compliance with NOTAM selection criteria</p> <p>b) Assignment of appropriate Location indicators for Flight information centers/Upper control areas of Burkina Faso, Mali, Mauritania, and Togo.</p>	<p>a) Automated systems for filtering NOTAMs compliant with NOTAM selection criteria</p> <p>b) Appropriate Location indicators for Flight information centers/Upper control areas</p>	<p>In Progress</p> <p>a) Automated systems for filtering NOTAMs compliant with NOTAM selection criteria implemented</p> <p>b) Appropriate Location indicators for Flight information centers/Upper control areas of Burkina Faso, Mali, Mauritania, and Togo.</p>
APIRG/25	Conclusion	25/38	Implementation of modern Aeronautical Fixed Service (AMHS and AIDC)	<p>That, to ensure an effective implementation of modern Aeronautical ground/ground communications:</p> <p>a) ICAO with the support of stakeholders from the industry (Manufacturers, ANSPs, Communication Service Providers, Users...) to develop and implement by 30 June 2023, Training platforms or Webinars to promote and assist in the migration from AFTN to AMHS and the implementation of AIDC in the region;</p>	ICAO with the support of industry to develop and implement Training platforms or Webinars to promote and assist in the	Training platforms developed	Not Started

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				and b) States to update their SMEs contact details and share implementation status, challenges or issues encountered during the implementation of AMHS and AIDC with other ANSPs/States	migration of AFTN/AMHS issues		
APIRG/25	Conclusion	25/39	Prevention and mitigation of Interference related to the rollout of 5G	That, to ensure a robust protection of the aeronautical spectrum, in particular for the operation of the radio-altimeter and satellite based VSAT in the C-Band, States to: a) undertake a safety risk assessment to analyze the hazards that may be introduced prior to implementation of 5G and institute mitigatory strategies; b) consider as a precaution to create, when necessary, a buffer on the approach and departure segments of the major airports; and c) sensitize the National Authority of Telecommunication to exercise caution during the approval process of the 5G network by ensuring that the rollout is outside the frequency spectrum band operated by these services or is properly protected.	a) States to undertake a safety risk assessment and institute mitigatory strategies in the implementation of 5G; b) States sensitize the National Authority of Telecommunication	a) Risk assessment mechanism established, and mitigation strategy developed. b) National Authority of Telecommunications sensitized	In Progress The 5G implementation issues raised at the APIRG/25 Meeting. Regional Office is supporting the IIM CNS related project to assist States in mitigation the impacts of the 5G.
APIRG/25	Decision	25/40	Incorporation of Research, Development and Innovation (RDI) in the APIRG Work Programme	That, to ensure States, benefit from RDI: a) An RDI Task Force be established by 30 June 2023 to foster the RDI initiatives in the region; and b) States to promote RDI in their operation and share implementation experiences.	APIRG to establish the RDI Task force. : a) States to take actions promote RDI in their operation	RDI Task force established. RDI promoted in States operation.	Not started

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APIRG/25	Conclusion	25/43	Completion of the Regional Annual Air Navigation Report	That to complete the drafting of the Regional Air Navigation Report in an all-inclusive harmonized manner: a) The Regional Air Navigation Report Team complete the drafting of the report and circulate it to stakeholders for review and comments by 31 December 2022; and b) The Secretariat to release the First Edition of the Regional Air Navigation Report by 31 March 2023	a) Secretariat to circulate the draft Air navigation report b) The Secretariat to finalize the regional air navigation report for publication	a) Draft regional air navigation report circulated to States c) Regional air navigation report released.	In Progress The finalization of the Regional air navigation report si underway
APIRG/25	Decision	25/45	Support to the APIRG activities	That, to assist in resolving challenges identified in the region, ICAO in coordination with the industry within the framework of the APIRG mechanism to: a) Support capacity building on cyber resilience of air navigation systems through webinars/workshops/seminars; b) Develop additional guidance material and tools to assist States and the industry in the implementation of the ASBU elements; c) Conduct specific workshops on the ASBU elements to support States and industry efforts in the implementation activities; and d) Finalize the digitalization of the eANP.	Secretariat to conduct capacity building workshops on the GANP Secretariat to develop guidance on the implementation of the ASBU elements. Secretariat to finalize the digitalization of the GANP	Capacity building workshop conducted. Guidance developed. GANP digitalized.	In Progress Capacity building workshop conducted. Excel Tool developed to assist States in reporting on the ASBU implementation. Automation of the Excel Tool ongoing. Digitalization of the GANP ongoing.