



INTERNATIONAL CIVIL AVIATION ORGANIZATION

Second Meeting of the Africa-Indian Ocean Aviation System Planning and Implementation Group Programme Review and Coordination Committee (PRCC/2)

Nairobi, Kenya, 24 – 25 September 2026

Agenda Item 2: Implementation of air navigation goals, targets and indicators, including the priorities set in the regional air navigation plan

2.2. Outcome of the Ninth meeting of the AASPG Infrastructure and Information Management Sub-Group (IIM/SG9)

(Presented by the Secretariat)

SUMMARY	
This paper presents the outcomes of the Ninth Meeting of the AASPG Infrastructure and Information Management Sub-group (IIM/SG9), held in Dakar, Senegal, from 3 to 7 August 2026. The Sub-Group reviewed the status of implementation of the Conclusions and Decisions of the AASPG/1 Meetings relevant to the IIM/SG and discussed the status of implementation of regional projects adopted by AASPG. The meeting also discussed the status of the Basic Building Blocks (BBBs), the implementation status of ASBU elements, the developments related to System Wide Information Management (SWIM) and digital information exchange, the air navigation deficiencies, and the preparation of the AFI ANS Summit. Action by the Meeting is provided in paragraph 3	
REFERENCES	
▪ AASPG Procedural Handbook ▪ The Global Air Navigation Plan ▪ AASPG/1 Report ▪ IIM/SG8 Report	
<i>Strategic Goals</i>	<i>A. Every Flight is Safe and Secure</i> <i>B. Aviation is Environmentally Sustainable</i> <i>C. Aviation Delivers Seamless, Accessible, and Reliable Mobility for All</i> <i>D. No Country is Left Behind</i> <i>E. Economic Development of Air Transport</i>

1 INTRODUCTION

- 1.1. The Ninth meeting of the AASPG Infrastructure and Information Management Sub-Group (IIM/SG9) was held in Dakar, Senegal, from 3 to 7 August 2026.
- 1.2. It was attended by ninety (90) participants from 22 States, and Organizations (ASECNA, IATA, WAFC London, WMO) and the ICAO ESAF and WACAF Regional Offices.

2 DISCUSSIONS

- 2.1. Eleven (11) agenda items were discussed as reflected in the Report of the Meeting presented in the **Appendix 1** to this Working Paper and available at <https://www.icao.int/WACAF/meetingdocs?fid=93792#block-icao-page-title>
- 2.2. The meeting deliberated on eight (8) Conclusions/Decisions. This paper presents those Conclusions/Decisions considered relevant to the PRCC and AASPG.

Review of the Conclusions and Decisions of AASPG/1 Meeting applicable to the Sub-group)

- 2.3. The meeting reviewed the implementation status of the 33 Conclusions and Decisions from the AASPG/1 Meeting. Sixteen (16) of these, relevant to the Infrastructure and Information Management Sub-Group in CNS, AIM, and MET, showed 38% completed, 56% in progress, and 6% not started. Detailed status information is provided in **Appendix 2**. States and stakeholders were encouraged to promptly address all outstanding actions.
- 2.4. Regarding AASPG/1 Conclusion 1/14 on IWXXM implementation, the meeting urged the concerned stakeholders to address outstanding matters and report on progress in establishing the required digital message exchange infrastructure in the region.

Update on the Development of a Template of National Air Navigation Plan (NANP)

- 2.5. The meeting was updated on the progress in developing a National Air Navigation Plan (NANP) template, as requested by AASPG Decision 1/30, starting with the gathering of information from States. The Concept Note outlining the template structure was reviewed and endorsed, covering key areas such as strategic vision, governance, regional alignment, traffic forecasts, current and future systems, implementation roadmap, and performance monitoring.
- 2.6. The meeting recommended to establish a Team of Experts to accelerate the development of the template, with the Secretariat coordinating its setup alongside AAO/SG. Nine States (Côte d'Ivoire, Democratic Republic of the Congo, Ethiopia, Kenya, Nigeria, Rwanda, Senegal, South Africa, Uganda) and four Organizations (AAMAC, AFCAC, ASECNA and IATA) volunteered to support the Technical Team.

Update on ASBU elements applicable in the AFI region

- 2.7. The meeting was updated on the progress in updating the ASBU elements for the AFI region, as requested by the previous IIM/SG meeting, and on the GANP Study Group (GSG) ongoing work towards the ninth edition of the GANP. The meeting stressed the need to align AFI ASBU elements with the evolving GANP to ensure global harmonization and requested the Secretariat to coordinate closely with the GSG and relevant stakeholders to ensure a consistent and timely updating of the ASBU elements applicable to the AFI region.

Update on BBB Implementation in CNS, AIM and MET and the Monitoring and Reporting Tool

- 2.8. The meeting recalled concerns raised during the AASPG/1 in Libreville, Gabon, regarding the low level of BBBs safety oversight in the AFI region and the need for comprehensive implementation reporting. Regional performance remains below 70%, ranging from 57% to 67%. States were therefore encouraged to actively participate in regional initiatives to address BBBs implementation challenges.
- 2.9. The meeting also commended the progress made in developing a BBBs monitoring and reporting module within the AFI Air Navigation Deficiencies Database (AANDDD) Platform and encouraged its timely finalization and deployment, followed by awareness workshops for States.

Status of ASBU elements in CNS, AIM and MET fields in AFI Region areas

- 2.10. The meeting reviewed the status of ASBU implementation in AIM, CNS and MET as provided in **Appendix 3**. While progress has been made through national and regional initiatives, implementation remains uneven, with reporting gaps affecting the accuracy of regional assessments. Key gaps persist in areas such as AIDC, ATN/IPS, ADS-B and AIXM.
- 2.11. The meeting emphasized the need for stronger involvement of ANSPs and operational stakeholders, enhanced coordination, and continued efforts to strengthen implementation planning, technical capacity and reporting. States and stakeholders were encouraged to improve both ASBU implementation and the timely submission of implementation data through existing reporting platforms.

Progress in the implementation of the AASPG IIM Projects

- 2.12. The Meeting received an update on the progress of the IIM Projects as restructured by AASPG/1 through Decision 1/11. Although these projects have been launched in May 2026, the meeting noted encouraging progress and provided guidance to support States in implementing ICAO SARPs and ASBU elements in CNS, AIM, and MET.

For Communication, Navigation and Surveillance (CNS) related Projects

- 2.12.1. The meeting reviewed progress of the CNS projects and noted progress in the governance, coordination and implementation planning. Key achievements included establishing project teams, developing regional surveys and baseline assessment tools, and initiating activities to modernize aeronautical communications, navigation, surveillance and spectrum management.
- 2.12.2. Priority areas included accelerating AFTN-to-AMHS migration, AIDC and CPDLC implementation, strengthening GNSS interference and spectrum management, enhancing surveillance data sharing, and developing regional strategies and roadmaps. Progress was also noted in cybersecurity, including the AFI ANS Cyber Resilience Framework. States, ANSPs, Organizations and network operators were encouraged to actively participate, provide required data and support the timely delivery of project outputs.

For Aeronautical Information Management related Projects

- 2.12.3. The meeting reviewed progress on AIM projects, noting significant progress in the identification and validation of projects implementation documents, including generic

documentation and digital tools. A common challenge was the limited availability of nominated experts due to competing priorities. The meeting encouraged the project teams to expedite validation and implementation activities.

For Aeronautical Meteorology related Projects

2.12.4. The meeting reviewed the implementation progress of aeronautical meteorology projects noted encouraging progress, including the establishment of project teams, development of implementation roadmaps and action plans, launch of regional surveys and assessments, and preparation of competency implementation frameworks. Significant progress was made towards developing guidance materials and regional tools for maintaining and calibrating MET sensors. Project Teams were urged to accelerate implementation and progress towards the agreed deliverables and intended outcomes.

2.12.5. The meeting noted that the MET Project on Improving OPMET Delivery reported no tangible results since its launch. The Secretariat was therefore tasked to coordinate with the Project Team to identify the constraints affecting implementation and take actions as appropriate .

Progress Report of RBIS and CODEVMET Projects

Progress Report of RBIS Project

2.13. The meeting was updated on the progress of the AIM Result-Based Implementation Support (RBIS) project, which supports States in implementing QMS for AIM, AIXM, eAIP and Terrain and Obstacle Data (TOD). Between 2023 and 2025, 12 assistance missions were conducted in 11 States, with additional assistance activities for Ghana and Chad planned for October 2026.

2.14. Most assisted States have developed and submitted action plans covering regulatory, implementation and oversight aspects. The meeting particularly commended Roberts Flight Information Region (RFIR) for achieving ISO 9001:2015 certification in December 2025 for its QMS covering aeronautical information and meteorological operations, as well as completing the Factory Acceptance Test (FAT) of its AIXM and eAIP systems.

2.15. The meeting commended the RBIS project team for the progress achieved and encouraged assisted States to pursue implementation of their action plans and seek follow-up support from the ICAO Regional Offices where necessary.

Update on the progress of the CODEVMET-AFI Project

2.16. The meeting reviewed progress under the CODEVMET-AFI, a key regional initiative addressing aeronautical meteorology deficiencies in the AFI Region. Since its reframing and renewed implementation in 2022, the Project has achieved significant results, including:

- Development and validation of guidance materials, generic regulations and standardized operating procedures;
- Support to 9 States in aligning MET regulations with ICAO SARPs;
- Capacity building for 15 States and two organizations (AAMAC and ASECNA) on Amendment 82 to Annex 3 and the new PANS-MET provisions;

- Support to eight States and two ANSPs in implementing Quality Management Systems (QMS), including training of 25 Internal Quality Auditors;
 - Support to 12 States and ASECNA in migrating from SADIS FTP to SADIS API;
 - Support to 18 ASECNA Member States in developing a regional roadmap for the implementation of space weather information services; and
 - Development of training courses and practical tools for Internal Quality Auditors, Competency Assessors, QMS assessment, and the maintenance, control and calibration of MET sensors.
- 2.17. The meeting commended the Project’s progress and encouraged States and stakeholders to further leverage CODEVMET-AFI to strengthen aeronautical meteorology capabilities and address ANS deficiencies.

Outcomes of the Third Volcanic Ash Exercise and the Fifth Meeting of the AFI Volcanic Ash Exercise Steering Group

- 2.18. The Meeting was briefed on the outcomes of the third AFI Volcanic Ash Exercise (VOLCEX 25/01), conducted under the leadership of Kenya on 26 February 2026. The Meeting endorsed the exercise report (**Appendix 4**), including the lessons learned, identified gaps and remedial recommendations commended Kenya for its leadership, and urged States and stakeholders to implement the recommendations.
- 2.19. The Meeting also reviewed the outcomes of the Fifth Meeting of the AFI Volcanic Ash Exercise Steering Group, held virtually on 9 June 2026. It elected Cameroon and Comoros as Chairperson and Vice-Chairperson, respectively; agreed on the objectives of the next exercise; revised the Steering Group Terms of Reference (**Appendix 5**); updated the AFI Volcanic Ash Exercise Operational Instructions (**Appendix 6**); and endorsed the future work programme (**Appendix 7**). The Meeting further endorsed Cameroon’s proposal to lead the fourth AFI Volcanic Ash Exercise in 2027.

The Meeting formulated the following draft conclusion and decision.

<i>Draft AASPG/2 Conclusion 2/xx: Enhancing preparedness for the provision of information on volcanic activities in the AFI region</i>	
Why:	<i>To practice and develop inter-agency response to volcanic activity,</i>
What:	<i>a) The report of the third volcanic ash exercise, the proposal of Cameroon to lead the fourth exercise, and the future work programme for 2026/2027 of the AFI Steering Group of Volcanic Ash Exercise are endorsed.</i> <i>b) States and Stakeholders are urged to implement the recommendations contained in the report of the third volcanic ash exercise by 30 November 2027.</i> <i>c) Cameroon, with the support of the Secretariat, to coordinate and lead the fourth volcanic ash exercise in the AFI region by 30 November 2027.</i>
Who:	<i>a) AASPG</i> <i>b) States</i> <i>c) Cameroon</i>
When:	<i>b), c). by 30 November 2027</i>
Implementation follow-up	

Follow-up required	Yes ☒ No ☐	Metrics	<i>Recommendations as contained in the third volcanic ash exercise report implemented</i> <i>Fourth volcanic ash exercise conducted</i>	Means to collect	<i>Report on the implementation of recommendations</i> <i>Report on the fourth volcanic ash exercise</i>
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Draft AASPG/2 Decision 2/xx: Volcanic ash coordination framework					
Why:	That, to improve the effectiveness of the volcanic ash coordination framework,				
What:	The revised Terms of Reference of the AFI Steering Group on Volcanic Ash Exercise and the Updated AFI Volcanic Ash Exercise Operating Instructions are endorsed.				
Who:	AAPSG				
When:	6 November 2026				
Implementation follow-up					
Follow-up required	Yes ☐ No ☒	Metrics	Not applicable	Means to collect	Not applicable

OPMET Information Delivery and Continuous Monitoring and Management of OPMET Data Exchange in the AFI region

- 2.20. The Meeting recalled AASPG/1 concerns that the AFI AMBEX procedures, last updated in 2014, were no longer fully aligned with recent ICAO SARPs and OPMET data-exchange developments, affecting the timely and reliable provision of quality meteorological information. Subject Matter Experts subsequently developed and validated a revised Handbook, incorporating States review and comments.
- 2.21. The Handbook was renamed the AFI OPMET Data Exchange Scheme and Procedures Handbook (AODEX-HB) (**Appendix 8**) to reflect its data-centric approach. An AODEX implementation roadmap (**Appendix 9**) was developed, and the Meeting endorsed the Terms of Reference (**Appendix 10**) for establishing the AFI Regional OPMET Data Management Technical Team (AROMT) to coordinate, monitor and support harmonized regional and inter-regional OPMET data exchange.

The Meeting formulated the following draft Conclusion accordingly:

Draft AASPG/2 Conclusion 2/xx: Enhancing OPMET data Information Delivery	
Why:	<i>That, to strengthen the effectiveness of operational meteorological (OPMET) information delivery to end-users,</i>
What:	<i>a) the updated OPMET Data Exchange Scheme and Procedures (AODEX) Handbook, and the Terms of Reference of the AFI Regional OPMET Data Management Technical Team (AROMT) are endorsed.</i> <i>b) States, with the support of the Secretariat, establish the Regional OPMET Data Management Technical Team by 30 June 2027 and implement the provisions of the AODEX Handbook by December 2027 as per the AODEX Implementation Roadmap.</i>

Who:	a) AAPSG b) States				
When:	a). 6 November 2026 b). 30 June 2027; December 2027				
Implementation follow-up					
Follow-up required	Yes ☒ No ☐	Metrics	AROMT established Provisions of the AODEX implemented	Means to collect	Evidence of the establishment of the AROMT. States feedback on the implementation of AODEX provisions

Update on the preparation of the AFI ANS SUMMIT

- 2.22. The Meeting was briefed on preparations for the AFI Air Navigation Services (ANS) Summit, aimed at promoting harmonized, interoperable and seamless air navigation systems across the region. Preparations include establishing project teams, developing project templates, conducting a survey on priority ANS projects, and consolidating a costed ANS Master Plan aligned with States' needs and the continental vision for seamless air navigation. The Meeting reviewed and finalized the Master Document as provided in **Appendix 11** and adopted the following draft Conclusion.

Draft AASPG/2 Conclusion 2/xx: AFI ATM Master Plan					
Why:	That, to facilitate the AFI seamless ATM operations through ATM solutions capable of ensuring safety and efficiency of air transport throughout the AFI region,				
What:	the AFI ATM Master Plan is endorsed.				
Who:	AAPSG				
When:	. 6 November 2026				
Implementation follow-up					
Follow-up required	Yes ☐ No ☒	Metrics	Not applicable	Means to collect	Not applicable

AASPG Annual report release

- 2.23. The meeting reviewed the status of the AASPG Annual Safety and Air Navigation Report (AAR) and noted that the AASPG Annual Reporting Team (AART) has not yet been established. The Meeting was informed of secretariat's ongoing analysis of possible options for the AART which may include Secretariat leading role for the development of initial draft report and supported by contributions from States and the industry.
- 2.24. The Meeting discussed the reporting timeframe and acknowledged the need to close observed the offset of two years between the report reference period and the actual date of its release. It was suggested that the next reporting period be referenced to 2026 and 2027 with publication date of 31st December 2027.

Update on AFI SWIM Project

- 2.25. The meeting noted progress in establishing the AFI SWIM Project, including expert nominations and selection, and identified initial priorities, including defining SWIM requirements, conducting a regional gap analysis, and developing a transition roadmap. States and Organizations were encouraged to support the project through expert nominations and active participation.

Outcomes of the Regional Workshop on Spectrum

- 2.26. The meeting noted that the WRC-27 Preparatory and AFI Regional Workshops on Aviation Spectrum Management, held in Dakar from 2 to 5 March 2026, enhanced States' awareness of the ICAO Position for WRC-27 and strengthened regional capacity in spectrum management. It emphasized the need for dedicated Frequency Finder workshops and urged States of the AFI region to actively use and regularly update Frequency Finder data to support accurate and harmonized regional frequency coordination.

Meteorology in SWIM

- 2.27. The meeting was briefed on MET-SWIM, which applies SWIM principles to aeronautical meteorology and supports the transition from legacy AFS-based exchanges to IWXXM-enabled information services. The meeting highlighted benefits including real-time information sharing, enhanced hazard awareness, improved flight planning and ATM integration. States and industry were encouraged to strengthen SWIM/IWXXM readiness, follow implementation plans, and actively participate in regional and global planning for the transition to future MET information services.

Status of Air Navigation Deficiencies in CNS, AIM and MET fields

- 2.28. The meeting was briefed on the status of air navigation deficiencies in the CNS, AIM and MET fields recorded in the AFI Air Navigation Deficiencies Database (AANDDD).
- 2.29. Following assessment of notifications of potential air navigation deficiencies, 9 were confirmed as preliminary deficiencies, for which the concerned States were requested to develop corrective action plans.
- 2.30. States were encouraged to address outstanding preliminary deficiencies in a timely manner and regularly provide updates on the implementation of their corrective action plans.

Implementation challenges of the Sub-group: Overview of the Reframed IIM/SG Projects launch and dedication to achieving success

- 2.31. The meeting noted that since the kick-off meetings in May 2026, Project Teams have commenced their activities, including reviewing project documents, developing implementation plans and roadmaps, and achieving initial results.
- 2.32. The meeting emphasized the importance of sustained engagement by Project Teams, stressing that their outputs will provide key inputs to the ANS Projects Catalogue, as per AASPG/1 Decision 1/18. The meeting therefore encouraged teams to maintain active participation and support the effective implementation of the restructured IIM projects as approved by AASPG.

SADIS Matters and SADIS Focal Points

- 2.33. The meeting was briefed on the status of SADIS implementation (**Appendix 12**), including the planned retirement of SADIS FTP in November 2028, and urged States to accelerate migration to SADIS API or WIFS API. It also noted gaps in the production and international exchange of IWXXM OPMET data, particularly in the AFI region, and encouraged States and stakeholders to accelerate IWXXM production and dissemination.
- 2.34. The meeting further noted that SADIS Focal Point information in **Appendix 13** is outdated and invited SADIS user States to review and update their contact details by 31 March 2027. The following draft Conclusion was formulated accordingly.

Draft AASPG/2 Conclusion 2/xx Update of the SADIS Focal Point Information					
Why:	To ensure effective coordination with States on SADIS matters,				
What:	States that have not yet done so are urged to update their State SADIS Focal Point information by 31 March 2027.				
Who:	Secretariat				
When:	31 March 2027				
Implementation follow-up					
Follow-up required	Yes ☒ No ☐	Metrics	List of SADIS focal point updated for all States	Means to collect	Report on the updated SADIS focal point information.

Common AAO, IIM and SMO Subgroups activities

- 2.35. The meeting discussed activities requiring coordination among the AAO, IIM and SMO Subgroups, including the update of ASBU applicable elements, reporting on BBB implementation, development of the NANP Template, resolution of SSCs, and coordination of the volcanic ash exercise. The meeting formulated the following draft Decision accordingly.

<i>Draft AASPG/2 Decision 2/xx: Common activities across the Subgroups</i>	
Why:	<i>That, to ensure harmonized planning, efficient implementation, monitoring and reporting of activities that imply the three Subgroups,</i>
What:	<i>the following activities shall be coordinated by AAO, IIM and SMO Subgroups.</i> <i>a) Workshop on the operationalisation of the BBBs monitoring and reporting tool, to be coordinated with AAO Subgroup by June 2027;</i> <i>b) Update of the ASBU applicable elements to be coordinated with AAO Subgroup by June 2027;</i> <i>c) Development of the NANP Template to be coordinated with AAO Subgroup by April 2027;</i> <i>d) Workshop on SSCs prevention to be held in 2027 in coordination with AAO and SMO Subgroups;</i> <i>e) Development of AASPG Projects Portfolio Dashboard in coordination with AAO and SMO Subgroups by June 2027.</i>

	<i>f) Conduct of the fourth volcanic ash exercise of the AFI region by November 2027 to be coordinated with AAO and SMO Subgroups.</i>				
Who:	<i>.a), b), c) IIM and AAO SG .d), e), f) IIM, AAO and SMO SG</i>				
When:	<i>.a), b), e) June 2027 .c) April 2027 .d) in 2027 .f) November 2027.</i>				
Implementation follow-up					
Follow-up required	Yes ☒ No ☐	Metrics	<i>Workshop on the operationalisation of the BBBs monitoring and reporting Conducted.</i> <i>ASBU applicable elements updated.</i> <i>NANP Template developed.</i> <i>Workshop on SSC prevention conducted.</i> <i>AASPG Projects Portfolio Dashboard developed.</i> <i>Fourth volcanic ash exercise conducted.</i>	Means to collect	<i>Reports on the workshops conducted.</i> <i>Tables of updated ASBU elements.</i> <i>Draft NANP Template.</i> <i>AASPG Projects Portfolio Dashboard Tool</i> <i>Report on the fourth volcanic ash exercise.</i>

Proposed recommendations/actions to be taken by ICAO HQ

- 2.36. The meeting discussed potential actions by ICAO Headquarters and recognized the continued need for support in: (i) implementing System-Wide Information Management (SWIM) and performance-based air navigation; (ii) aligning National Air Navigation Plans (NANPs) with the African Air Navigation Plan; and (iii) strengthening capacity and providing technical assistance for aviation modernization and digital transformation. The meeting encouraged the Secretariat to maintain close coordination with ICAO Headquarters to facilitate appropriate support, as required.

Review of the Terms of Reference and the Work Programme of the Sub-Group

- 2.37. The meeting reviewed the Terms of Reference (ToR) and the Work Programme of the IIM/SG for 2026–2027. It was agreed that the existing ToR remains valid and adequate (**Appendix 14**) and updated the Work Programme to reflect ongoing and planned activities. To strengthen coordination among the contributory bodies, the meeting agreed to hold two coordination meetings per year involving the AAO, IIM and SMO Subgroups. The revised Work Programme for 2026–2027 is presented in **Appendix 15**. The meeting subsequently agreed on the following draft Decision:

Draft AASPG/2 Decision 2/xx: Work Programme for 2026-2027 of the IIM Subgroup					
Why:	That, to guide the implementation of the Subgroup activities				
What:	The work programme for 2026-2027 is endorsed				
Who:	AASPG				
When:	November 2026				
Implementation follow-up					
Follow-up required	Yes ☐ No ☒	Metrics	Not applicable	Means to collect	Not applicable

3. ACTION BY THE MEETING

3.1. The meeting is invited to:

- a) Consider the information presented in this working paper, highlighting the work achieved by the Ninth Meeting of the AASPG IIM SG; and
- b) Provide further guidance as appropriate.

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