



*International Civil Aviation Organization*

**Performance Based Navigation/Global Navigation Satellite System  
Task Force (PBN/GNSS TF)**

**Fourth Meeting**  
*(Cairo, Egypt, 02 - 04 October 2011)*

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**Agenda Item 2:           Review of MIDANPIRG/12 and other meetings Conclusions/Decisions  
related to PBN and GNSS**

**REVIEW OF MIDANPIRG/12 AND OTHER MEETINGS CONCLUSIONS/DECISIONS  
RELATED TO PBN AND GNSS**

*(Presented by the Secretariat)*

**SUMMARY**

This paper presents MIDANPIRG/12 and other meetings Conclusions and Decisions related to the PBN and GNSS and the follow-up actions taken.

Action by the meeting is at paragraph 3.

**REFERENCES**

- MIDANPIRG/12 Report
- PBN GNSS TF/3 Report

**1. INTRODUCTION**

1.1 MIDANPIRG/12 meeting was held in Amman, Jordan 17-21 October 2010. The meeting adopted 80 Conclusions and Decisions of which two (11) Conclusions are considered relevant to the work of the PBN/GNSS TF.

1.2 The PBN GNSS TF/3 meeting held in Cairo, Egypt, 30 November - 02 December 2010, was attended by 35 participants, which included experts from eight (8) States (Bahrain, Egypt, Iraq, Jordan, Kuwait, Qatar, Saudi Arabia and U.A.E.) and two (4) International Organizations (IATA, and IFALPA). The meeting developed 5 Conclusions and decisions.

**2. DISCUSSION**

2.1 The meeting may wish to note that in order to enhance efficiency and keep track on the follow-up of conclusions and decision, each MIDANPIRG subsidiary body should review the MIDANPIRG Conclusions/Decisions related to its Terms of Reference (TOR) and decide whether to maintain, remove or replace these Conclusions/Decisions with more up-to-date ones (with new numbers i.e. Conclusion 3/XX).

2.2 The meeting may also wish to note that MIDANPIRG decided that those Conclusions/Decisions which are of general nature and whose status of implementation would be “Ongoing” for many years are more suitable for inclusion in Handbooks, Manuals, Guidelines, etc, as appropriate.

2.3 This paper provides the meeting with an update on the status of MIDANPIRG/12 and other meetings Conclusions and Decisions related to the PBN/GNSS TF. It also shows the follow-up actions taken by concerned parties.

2.4 MIDANPIRG/12 developed a follow-up action plan in which the required follow-up action(s), the responsible(s), the deliverable(s) and target dates are defined. An extract of this action plan containing the relevant Conclusions and Decisions related to the PBN/GNSS field is at **Appendix A** to this working paper.

### **3. ACTION BY THE MEETING**

3.1 The meeting is invited to note the follow-up action on the list of Conclusions and Decisions at **Appendix A** to this working paper and also provide any updates.

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APPENDIX A

MIDANPIRG/12 and other meetings Conclusions and Decisions pertaining to PBN GNSS Task Force for consideration by the PBN/GNSS TF/4 meeting

CONCLUSIONS AND DECISIONS	FOLLOW-UP	TO BE INITIATED BY	DELIVERABLE	TARGET DATE	REMARKS
<p><b>CONC. 12/2: INCREASING THE EFFICIENCY OF THE MIDANPIRG SUBSIDIARY BODIES</b></p> <p>That, with a view to maintain the continuity in the activity of the MIDANPIRG subsidiary bodies and increase their efficiency:</p> <p>a) States be invited to nominate for each MIDANPIRG subsidiary body Experts/Specialists as Members of the body concerned to fully contribute to the work of this body; and</p> <p>b) the specialists nominated for membership in a MIDANPIRG subsidiary body, act as focal points within their Civil Aviation Administration for all issues and follow-up activities related to the Work Programme of that body.</p>	Implementation of the Conclusion	ICAO States	State Letter Nomination of Experts/Specialist	January 2011	Ongoing SL Ref.: ME 3/56 - 11/041 dated 7 March 2011 4 States replied
<p><b>CONC. 12/9: RNAV 5 IMPLEMENTATION IN THE MID REGION</b></p> <p>That, States that have not yet done so, be urged to:</p> <p>a) update their AIP to change RNP 5 to RNAV 5; and</p> <p>b) take necessary measures to implement RNAV 5 area in the level band FL 160 - FL460 (inclusive).</p>	Implementation of the Conclusion	ICAO States	State Letter update AIP Implement RNAV 5 (FL 160-FL460)	January 2011	Ongoing SL Ref.: AN 6/29 – 10/432 dated 16 December 2010
<p><b>CONC. 12/47: MID REGION PERFORMANCE METRICS</b></p> <p>That:</p> <p>a) the following MID Region Metrics be adopted for performance monitoring of the air navigation systems:</p> <p>MID Metric 1: Number of accidents per 1,000 000 departures; MID Metric 2: Percentage of certified international aerodromes;</p>	Monitor performance of ANS using the endorsed metrics	MIDANPIRG & subsidiary bodies	Develop performance targets	2011	Ongoing SL Ref.: AN 7/26.1-11/121 dated 24 May 2011

CONCLUSIONS AND DECISIONS	FOLLOW-UP	TO BE INITIATED BY	DELIVERABLE	TARGET DATE	REMARKS
<p>MID Metric 3: Number of Runway incursions and excursions per year;</p> <p>MID Metric 4: Number of States reporting necessary data to the MIDRMA on regular basis and in a timely manner;</p> <p>MID Metric 5: The overall collision risk in MID RVSM airspace;</p> <p>MID Metric 6: Percentage of air navigation deficiencies priority "U" eliminated;</p> <p>MID Metric 7: Percentage of instrument Runway ends with RNP/RNAV approach procedure; and</p> <p>MID Metric 8: Percentage of en-route PBN routes implemented in accordance with the regional PBN plan.</p> <p>b) the MIDANPIRG subsidiary bodies monitor the Metrics related to their work programmes; develop associated performance targets and provide feed-back to MIDANPIRG.</p>					
<p><b>CONC. 12/48: DATA COLLECTION FOR MID REGION PERFORMANCE METRICS</b></p> <p>That, States be invited to:</p> <p>a) incorporate the agreed MID Region Performance Metrics into their National performance monitoring process;</p> <p>b) collect and process relevant data necessary for performance monitoring of the air navigation systems to support the regional Metrics adopted by MIDANPIRG; and</p> <p>c) submit this data to the ICAO MID Regional Office on a regular basis.</p>	Implement the Conclusion	ICAO States	State Letter  Include metrics into national performance monitoring  Submit data to ICAO	January 2011	Ongoing  SL Ref.: AN 7/26.1-11/121 dated 24 May 2011

CONCLUSIONS AND DECISIONS	FOLLOW-UP	TO BE INITIATED BY	DELIVERABLE	TARGET DATE	REMARKS
<p><b>DEC. 12/49: REVIEW OF THE MID AIR NAVIGATION PLAN (ANP)</b></p> <p>That, in support to ICAO efforts to improve regional ANPs, the MIDANPIRG subsidiary bodies:</p> <p>a) carry out a complete review of the MID Basic ANP and FASID parts related to their Terms of Reference (TOR) and Work Programme;</p> <p>b) develop revised draft structure and content of the Basic ANP in order to reconcile it with the ATM Operational Concept, the Global Plan provisions and the performance based approach;</p> <p>c) identify the need for and development of those FASID Tables necessary to support the implementation of a performance-based global air navigation systems; and</p> <p>d) report progress to MIDANPIRG/13.</p>	Implement the Decision	ICAO States Users	New structure, format & content of ANP/FASID	2012	Ongoing
<p><b>CONC. 12/56: STRATEGY FOR THE IMPLEMENTATION OF GNSS IN THE MID REGION</b></p> <p>That, the Strategy for implementation of GNSS in the MID Region be updated as at <b>Appendix 5.5N</b> to the Report on Agenda Item 5.5.</p>	Implement the Conclusion	MIDANPIRG/12	Adopted new Strategy	October 2010	Completed
<p><b>CONC. 12/57: MID REGION PBN IMPLEMENTATION STRATEGY AND PLAN</b></p> <p>That, the MID Region PBN Implementation Strategy and Plan be updated as at <b>Appendix 5.5P</b> to the Report on Agenda Item 5.5.</p>	Implement the Conclusion	MIDANPIRG/12	Approved Strategy	October 2010	Completed
<p><b>CONC. 12/58: PBN IMPLEMENTATION PROGRESS REPORT</b></p> <p>That, for future reporting on the status of PBN implementation, MID States be urged to:</p>	Implement the Conclusion	States	Progress Report	Every 6 months	Ongoing SL AN 6/28 – 11/026 Dated 16 February 2011

CONCLUSIONS AND DECISIONS	FOLLOW-UP	TO BE INITIATED BY	DELIVERABLE	TARGET DATE	REMARKS
<p>a) use the excel sheet as at <b>Appendix 5.5Q</b> to the Report on Agenda Item 5.5 and PBN Implementation Progress Report Template as at <b>Appendix 5.5R</b> to the Report on Agenda Item 5.5; and</p> <p>b) submit progress reports to ICAO MID Regional Office every six months or whenever major progress is achieved.</p>					
<p><b>DEC. 12/59: TERMS OF REFERENCE OF THE PBN/GNSS TASK FORCE</b></p> <p>That, the Terms of Reference and Work Programme of the PBN/GNSS Task Force be updated as at <b>Appendix 5.5T</b> to the Report on Agenda Item 5.5.</p>	Implement the Decision	MIDANPIRG	Updated TOR	October 2010	Completed
<p><b>DEC. 12/60: LIST OF TASK FOR PBN/GNSS TASK FORCE</b></p> <p>That, the list of tasks for the PBN/GNSS Task Force be updated with new task assignments as at <b>Appendix 5.5U</b> to the Report on Agenda Item 5.5.</p>	Implement the Decision	MIDANPIRG	PBN/GNSS TF/3 Report	October 2010	Completed
<p><b>CONC. 12/61: IMPLEMENTATION OF CONTINUOUS DESCENT OPERATIONS</b></p> <p>That, recognizing the efficiency and environmental benefits of Continuous Descent Operations (CDO), and the need to harmonize these operations in the interest of safety, MID States be encouraged to include implementation of CDO as part of their PBN implementation plans and to implement CDO in accordance with the ICAO CDO Manual Doc 9931.</p>	Follow up development in MID Region/States	States	Progressive introduction of CDO operations in TMAs	2012	Ongoing SL AN 6/28 – 11/026 Dated 16 February 2011
<p><b>DRAFT CONC. 3/1: MID REGIONAL PBN IMPLEMENTATION STRATEGY AND PLAN</b></p> <p>That MID Regional PBN Implementation Strategy and Plan be updated as at Appendix 4B to the Report on Agenda Item 4.</p>	Implement the Conclusion	STATES  CNS/ATM/IC SG/6 MIDANPIRG/13	WP/IP to CNS/ATM/IC SG Approved Strategy	March 2012	

CONCLUSIONS AND DECISIONS	FOLLOW-UP	TO BE INITIATED BY	DELIVERABLE	TARGET DATE	REMARKS
<p><b>DRAFT CONC. 3/2: PBN IMPLEMENTATION PROGRESS REPORT</b></p> <p>That, for future reporting on the status of PBN implementation, MID States be urged to:</p> <p>a) use the excel sheet as at <b>Appendix 5C</b> to the Report on the Agenda Item 5 and PBN Implementation Progress Report Template as at <b>Appendix 5D</b> to the Report on the Agenda Item; and</p> <p>b) submit progress reports to ICAO MID Regional Office every six months and whenever major progress is achieved starting January 2011.</p>	Implement the Conclusion	States	Progress Report	June 2011	
<p><b>DRAFT CONC. 3/3: PROTECTION OF GNSS SIGNAL</b></p> <p>That, MID States with their names listed in the footnotes 5.362B and 5.362C are urged to take necessary measures to delete their names from these footnote as soon as possible in order to protect the GNSS signal and provide regular reports to ICAO MID Regional Office on action taken.</p>	Implement conclusion and follow-up with the Telecom regulator Authorities	States	Deletion of footnotes Report	June 2011	
<p><b>DRAFT CONC. 3/4: STRATEGY FOR THE IMPLEMENTATION OF GNSS IN THE MID REGION</b></p> <p>That, the Strategy for implementation of GNSS in the MID Region be updated as at Appendix 7A to the Report on Agenda Item 7</p>	Implement the Conclusion	States MIDANPIRG/13	Adopted new Strategy		
<p><b>DRAFT DEC. 3/5: TERMS OF REFERENCE OF THE PBN/GNSS TASK FORCE</b></p> <p>That, the Terms of Reference and Work Programme of the PBN/GNSS Task Force be updated as at Appendix 8B to the Report on Agenda Item 8.</p>	Implement work programme Implement the Decision	CNS/ATM/IC SG/6 MIDANPIRG/13	Updated TOR	Oct 2011	