



International Civil Aviation Organization

**MIDANPIRG Meteorology Sub-Group
Twelfth Meeting (MET SG/12)**

(Virtual, 12–13 November 2024)

**Agenda Item 4: MET Planning and Implementation issues – Performance Framework
for MET implementation in the MID Region**

ASBU THREAD AMET IMPLEMENTATION MONITORING:
MID AIR NAVIGATION REPORT

(Presented by the Secretariat)

SUMMARY

This paper provides an update on the ASBU monitoring and reporting in the MID Region (AMET), through the MID Region Air Navigation Report and the MID eANP Volume III.

Action by the meeting is at paragraph 3.

REFERENCES

- MIDANPIRG CONCLUSION 20/10: WEB-BASED MID AIR NAVIGATION REPORT (2022)
- MIDANPIRG CONCLUSION 20/11: WEB-BASED MID REGION AIR NAVIGATION REPORT (2023)

1. INTRODUCTION

1.1 The meeting may wish to recall that the Web-based MID Region Air Navigation Report (2022) is available at: [icao.int/MIDANReport/Pages/ANReport2022-Main.aspx](https://www.icao.int/MIDANReport/Pages/ANReport2022-Main.aspx).

1.2 Furthermore, the MID eANP Volume III is posted at: <https://www.icao.int/MID/Documents/eANP/MID%20eANP%20VOL%20III.pdf>.

2. DISCUSSION

2.1 The MIDANPIRG/20 meeting, through Conclusion 20/11, invited States to provide the ICAO MID Office, with necessary data by 1 December 2023 for the development of the MID Region Air Navigation Report (2023):

CONCLUSION 20/11: WEB-BASED MID REGION AIR NAVIGATION REPORT (2023)

That,

- a) *States be invited to provide the ICAO MID Office with the following data for the development of the MID Region Air Navigation Report (2023) by 1 December 2023:*
- i. Status of ASBU Implementation; and*
 - ii. States' implementation of the Performance Based approach using the agreed Template as at **Appendix 6.1A***
- b) *the MID Air Navigation Report (2023) be presented to the MIDANPIRG/21 for endorsement.*

2.2 MIDANPIRG/21 noted that ICAO MID Office issued State Letter Ref.: AN 1/7-23/270 dated 6 December 2023 to collect the required information and updates from MID States. The meeting noted that only Bahrain, Egypt, Iran, Jordan, Kuwait, Oman, Qatar, Saudi Arabia and UAE provided update to ICAO MID Office. Accordingly, the meeting urged all States to provide their inputs in timely manner for the development of the next MID Air Navigation Report 2024 (State letter is expected to be sent by the end of November 2024).

2.3 In addition, MIDAPIRG/21 through MIDANPIRG CONCLUSION 21/4, endorsed the MID AIR NAVIGATION REPORT-2023 and ICAO MID published it in the website.

2.4 The meeting may wish to update the MET part of the Web-based MID Air Navigation Report (2023) and corresponding MID eANP Volume III (AMET Tables) as provided at **Appendix A**, which will be presented to MIDANPIRG/22 for endorsement.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) review and update the AMET thread priority elements in the MID Air Navigation Strategy and the Web-based MID Region Air Navigation Report (2023) and corresponding MID eANP Volume III (AMET Tables), at **Appendix A**; and
- b) Encourage States to provide the ICAO MID Office, with relevant data of AMET tables necessary for the development of the MID Region Air Navigation Report (2024), by **1 December 2024**.

APPENDIX A

MID REGION ASBU Threads & Elements (AMET B0) Monitoring Table

Priority 1: Elements that have the highest contribution to the improvement of air navigation safety, capacity and/or efficiency in the MID Region. These elements should be implemented where applicable and will be used for the purpose of regional air navigation monitoring and reporting.

Priority 2: Elements recommended for implementation based on identified operational needs and benefits.

Priority 1 Thread: Any thread with at least 1 priority 1 element.

AMET							
Element	Title	Applicability	Performance Indicators/	Baseline	Target	Timeline	KPA/ KPI
AMET B0/1	Meteorological observations products	All states	Indicator*: Regional average implementation status of B0/1 (Meteorological observations products). Supporting Metrics: Number of States that provide the following Meteorological observations products, as required: <ol style="list-style-type: none"> 1. Automatic Weather Observation System (AWOS) information (including real-time exchange of wind and RVR data) 2. Local reports (MET REPORT/SPECIAL) 3. Aerodrome reports (METAR/SPECI) 4. Lightning Information 5. Ground-based weather radar information 6. Meteorological satellite imagery 7. Aircraft meteorological report (ie. ADS-B, AIREP, etc.) 8. Vertical wind and temperature profiles 9. Wind shear alerts 	(2022) 65%	80%	Dec 2021	N/A

APPENDIX A

<p>AMET B0/2</p>	<p>Meteorological forecast and warning products</p>	<p>All states</p>	<p>Indicator*: Regional average implementation status of B0/2 (Meteorological forecasts and warning products)</p> <p>Supporting Metrics: Number of States that provides the following Meteorological forecast and warning products, as required:</p> <ol style="list-style-type: none"> 1. World Area Forecast System (WAFS) gridded products 2. Significant Weather (SIGWX) 3. Aerodrome Forecast (TAF) 4. Trend Forecast (TREND) 5. Take-off Forecast 6. SIGMET 7. Aerodrome Warning 8. Wind Shear Warning 	<p>(2022) 60%</p>	<p>90%</p>	<p>Dec 2021</p>	<p>N/A</p>
<p>AMET B0/3</p>	<p>Climatological and historical meteorological products</p>	<p>All states</p>	<p>Indicator: % of States that provide Climatological and historical meteorological products, as required.</p> <p>Supporting Metric: Number of States that provide Climatological and historical meteorological products, as required</p>	<p>(2022) 60%</p>	<p>85%</p>	<p>Dec 2021</p>	<p>N/A</p>
<p>AMET B0/4</p>	<p>Dissemination of meteorological products</p>	<p>All states</p>	<p>Indicator: % of States disseminating Meteorological products using a variety of formats and means (TAC, Gridded, Graphical, BUFR code, IWXXM)</p> <p>Supporting Metric: Number of States disseminating Meteorological products using a variety of formats and means (TAC, Gridded, Graphical, BUFR code, IWXXM)</p>	<p>(2022) 60%</p>	<p>85%</p>	<p>Dec 2021</p>	<p>N/A</p>

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AMET Implementation Level = 56.92 %

B0/1

State	AWOS	Local Report	Aerodrome report	Lighting info	Ground based weather radar info	MET SAT imagery	A/C met report	Vertical wind & Temp profile	Wind shear alert	Average
Bahrain	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
Egypt	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
Iran	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info
Iraq	Y	Y	Y	Y	N	N	N	N	N	44%
Jordan	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
Kuwait	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
Lebanon	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info
Libya	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info
Oman	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
Qatar	Y	Y	Y	No	Y	Y	Y	Y	Y	89%
Saudi Arabia	Y	Y	Y	Y	Y	Y	Y	Y	0.25Y	92%
Sudan	N	Y	Y	Y	N	Y	N	N	Y	56%
Syria	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info
UAE	Y	Y	Y	Y	Y	Y	N	Y	N	78%
Yemen	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info
Total average	60%	67%	67%	60%	53%	60%	47%	53%	48%	64%

B0/2

State	WAFS	SIGWX	TAF	Trend	Take-off forecast	SIGMET	AERODROME WARNING	Wind shear warning	Average
Bahrain	Y	Y	Y	Y	Y	Y	Y	Y	100%
Egypt	Y	Y	Y	Y	Y	Y	Y	Y	100%
Iran	No Info	No Info	Y	No Info	No Info	Y	No Info	No Info	25%
Iraq	N	N	Y	Y	N	Y	N	N	38%
Jordan	N	Y	Y	Y	Y	Y	Y	Y	88%
Kuwait	N	N	Y	Y	Y	Y	N	Y	63%
Lebanon	No Info	No Info	Y	No Info	No Info	Y	No Info	No Info	25%
Libya	Y	No Info	N	N	No Info	N	No Info	No Info	13%
Oman	Y	Y	Y	Y	Y	Y	Y	Y	100%
Qatar	Y	Y	Y	Y	Y	Y	Y	Y	100%
Saudi Arabia	Y	Y	Y	Y	Y	Y	Y	0.25Y	91%
Sudan	N	Y	Y	Y	No Info	Y	Y	Y	67%
Syria	No Info	No Info	N	N	No Info	N	No Info	No Info	0
UAE	Y	Y	Y	Y	Y	Y	Y	Y	100%
Yemen	No Info	No Info	N	N	No Info	N	No Info	No Info	0
Total average	47%	53%	80%	67%	53%	80%	53%	55%	61%

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B0/3 & B0/4

State	B0/3	B0/4	Average
Bahrain	Y	Y	100%
Egypt	Y	0.5Y	75%
Iran	No info	0.5Y	25%
Iraq	No info	Y	50%
Jordan	Y	Y	100%
Kuwait	Y	0.5Y	75%
Lebanon	No info	0.5Y	25%
Libya	No info	N	0
Oman	Y	Y	100%
Qatar	Y	Y	100%
Saudi Arabia	Y	Y	100%
Sudan	N	N	0
Syria	No info	N	0
UAE	Y	Y	100%
Yemen	No info	N	0
average	53%	60.0%	57%

Module	Elements	Bahrain	Egypt	Iran	Iraq	Jordan	Kuwait	Lebanon	Libya	Oman	Qatar	Saudi Arabia	Sudan	Syria	UAE	Yemen
BO-AMET	B0/1	Dark Green	Dark Green	Red	Yellow	Light Green	Dark Green	Red	Red	Dark Green	Light Green	Dark Green	Light Green	Red	Dark Green	Red
	B0/2	Dark Green	Dark Green	Yellow	Yellow	Dark Green	Light Green	Yellow	Yellow	Dark Green	Dark Green	Dark Green	Light Green	Red	Dark Green	Red
	B0/3	Dark Green	Dark Green	Red	Red	Dark Green	Dark Green	Red	Red	Dark Green	Dark Green	Dark Green	Red	Red	Dark Green	Red
	B0/4	Dark Green	Light Green	Light Green	Dark Green	Dark Green	Light Green	Light Green	Red	Dark Green	Dark Green	Dark Green	Red	Red	Dark Green	Red

The average Regional Implementation is **56.92%**.

AMET Status of implementation in the MID Region

