



*International Civil Aviation Organization*

**MIDANPIRG Air Traffic Management Sub-Group**

**Eleventh Meeting (ATM SG/11)**  
**(Abu Dhabi, UAE, 19 – 23 October 2025)**

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**Agenda Item 5:           Air Navigation Deficiencies in the CNS/ATM/SAR fields**

**AIR NAVIGATION DEFICIENCIES IN THE CNS/ATM/SAR FIELDS**

*(Presented by the Secretariat)*

<p style="text-align: center;"><b>SUMMARY</b></p> <p>This working paper presents the current deficiencies in the CNS, ATM and SAR fields in accordance with the outcome of the MIDANPIRG/22 meeting.</p> <p>Action by the meeting is at paragraph 3.</p>
<p style="text-align: center;"><b>REFERENCE(S)</b></p> <p>- MIDANPIRG/22 &amp; RASG-MID/12 meetings report (Doha, Qatar, 4 – 8 May 2025)</p>

**1.       INTRODUCTION**

1.1           The identification, assessment and reporting of Air Navigation Deficiencies represent a regular task of the MIDANPIRG and its subsidiary bodies.

**2.       DISCUSSION**

2.1           The meeting may wish to recall that different MIDANPIRG meetings urged States to use the MID Air Navigation Deficiency Database (MANDD) for the submission of requests for addition, update, and elimination of Air Navigation Deficiencies, including the submission of a specific Corrective Action Plan (CAP) for each deficiency. The meeting reiterated that a deficiency would be eliminated only when a State submits a formal Letter to the ICAO MID Office containing the evidence(s) that mitigation measures have been implemented for the elimination of this deficiency.

2.2           The meeting may wish to note with concern that the majority of deficiencies listed in the MANDD have no specific Corrective Action Plan (CAP) and do not have a valid completion date. In this respect, the MIDANPIRG 22 meeting agreed to the following MIDANPIRG Conclusion 22/33 to supersede the current MIDANPIRG Conclusion 15/35 related to elimination of Air Navigation Deficiencies.

*MIDANPIRG CONCLUSION 22/33:           AIR NAVIGATION DEFICIENCIES*

*That,*

*a) States be urged to:*

*i. use the MID Air Navigation Deficiency Database (MANDD) for the*

*submission of requests for addition, update, and elimination of Air Navigation Deficiencies, including the submission of a specific Corrective Action Plan (CAP) and completion date for each deficiency; and*

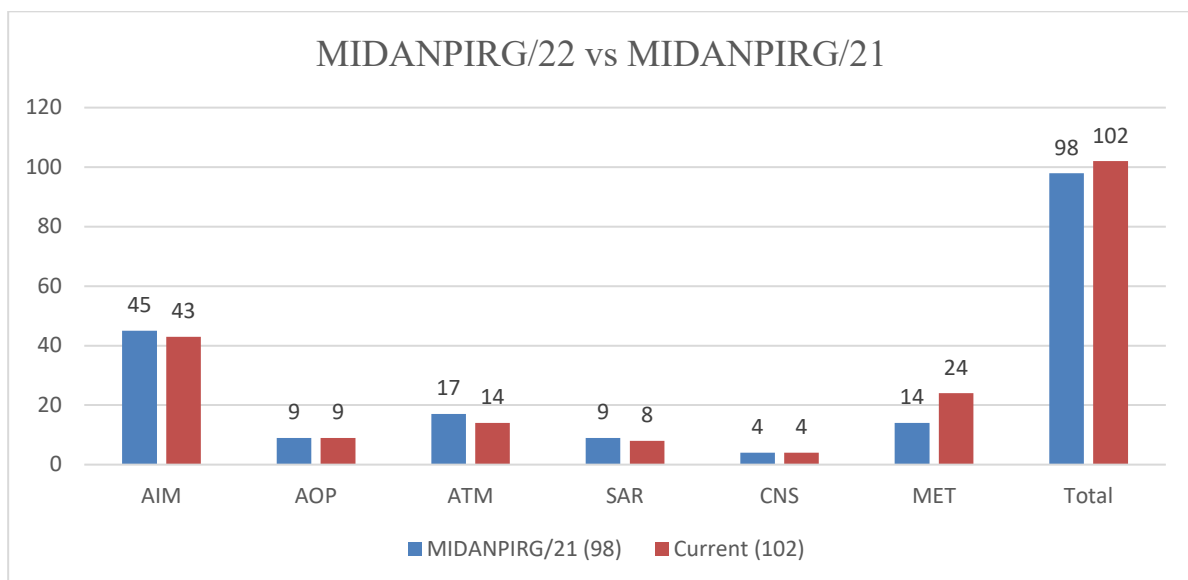
- ii. submit a Formal Letter to the ICAO MID Regional Office containing the evidence(s) that mitigation measures have been implemented for the elimination of deficiency(ies) when requesting the elimination of deficiency(ies) from the MANDD.*

*b) ICAO MID be urged to:*

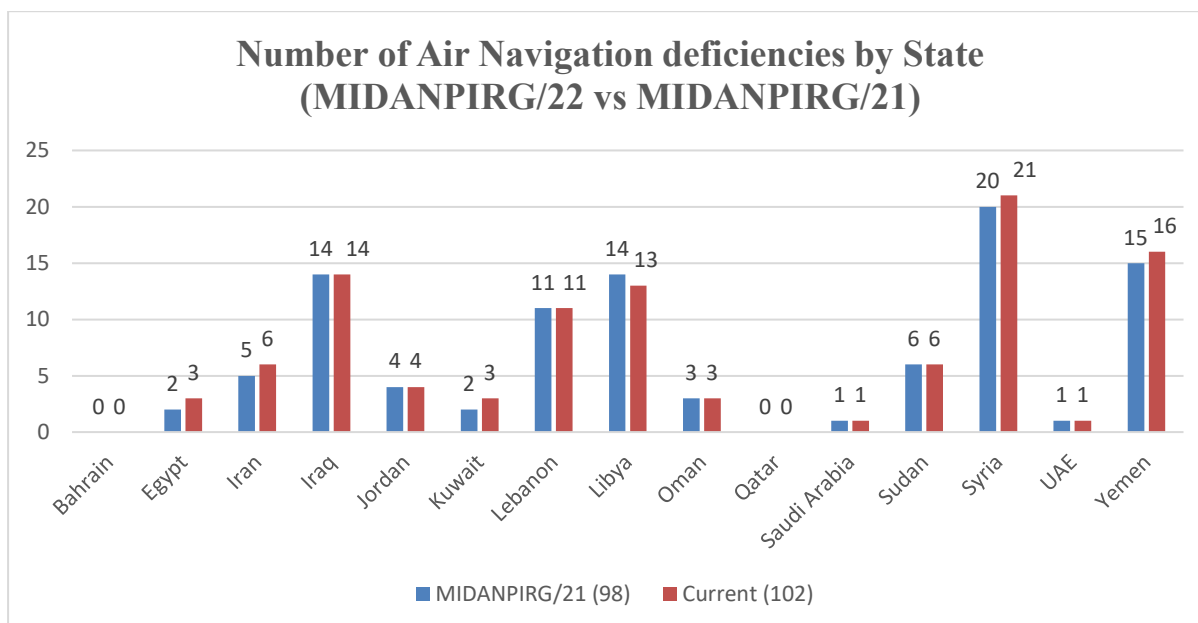
- i. review the status of the recorded deficiency in MANDD on a quarterly basis and send reminder to States focal point(s) to ensure MANDD is kept up to date; and*
- ii. technically support MID States to eliminate recorded deficiencies in MANDD.*

2.3 The meeting is invited to reviewed and updated the list of deficiencies in the CNS, ATM, and SAR fields as reflected in the MID Air Navigation Deficiency Database (MANDD) at: <https://mandd.icao.int>. The MIDANPIRG/22 meeting noted that the total number of Air Navigation Deficiencies recorded in MANDD is 102 deficiencies compared to 98 deficiencies in MIDANPIRG/21.

2.4 A quantitative analysis of the MID States' air navigation deficiencies is shown in the following Graphs and Table:



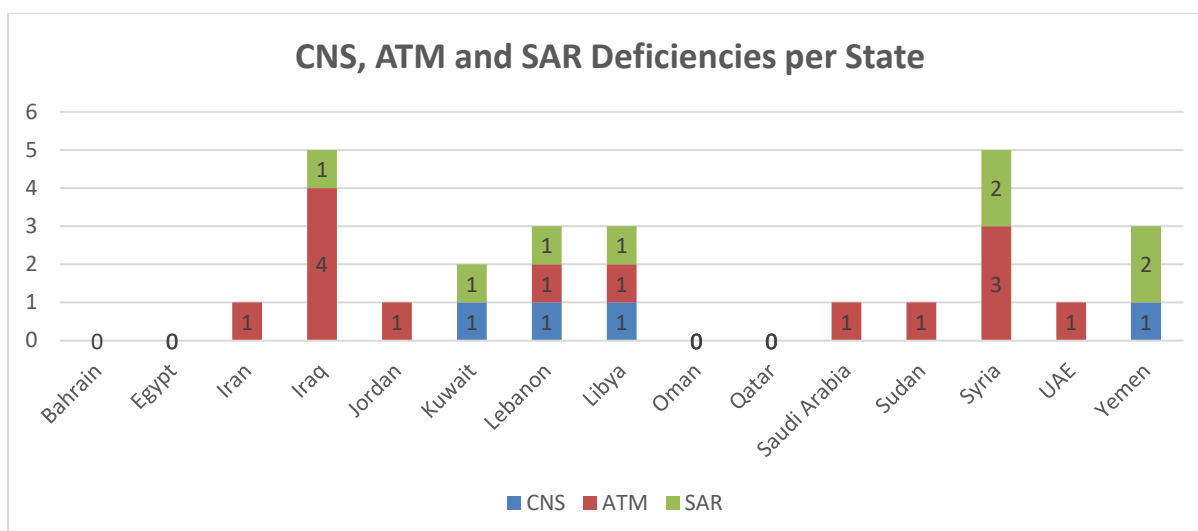
**Graph 1. Reported Deficiencies by field (MIDANPIRG/22 vs MIDANPIRG/21)**



**Graph 2. Number of Air Navigation deficiencies by State (MIDANPIRG/22 vs MIDANPIRG/21)**

	Bahrain	Egypt	Iran	Iraq	Jordan	Kuwait	Lebanon	Libya	Oman	Qatar	Saudi Arabia	Sudan	Syria	UAE	Yemen	Total
AOP	0	0	1	1	0	0	1	1	0	0	0	1	3	0	1	9
AIM	0	2	3	5	3	0	4	5	2	0	0	2	9	0	8	43
ATM	0	0	1	4	1	0	1	1	0	0	1	1	3	1	0	14
SAR	0	0	0	1	0	1	1	1	0	0	0	0	2	0	2	8
CNS	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	4
MET	0	1	1	3	0	1	3	4	1	0	0	2	4	0	4	24
TOTAL	0	3	6	14	4	3	11	13	3	0	1	6	21	1	16	102

**Table 1. Number of Air Navigation Deficiencies by State and by Field**



**Graph 3. Number of CNS, ATM and SAR Deficiencies per State**

2.5 *In the ATM field:* as reported by MIDRMA, the MIDANPIRG/22 meeting agreed to remove the deficiency against Lebanon, Libya and Sudan related to provision of TDS to MIDRMA; the total number of deficiencies is fourteen (14); seven (7) priority “A” and seven (7) priority “B”. Seven (7) related to the uncompleted signature of contingency agreements and seven (7) related to the non-implementation of planned regional ATS Routes.

2.6 *In the SAR field:* based on documents provided by Libya, the MIDANPIRG/22 meeting agreed to remove the deficiency against Libya related to provision of SAR service; the total number of deficiencies was eight (8) priority “A”. Four (4) related to the lack of implementation of SAR provisions; and four (4) related to non-compliance with the carriage of Emergency Locator Transmitter (ELT) requirements.

2.7 *In the CNS field:* the total number of CNS deficiencies is four (4); two (2) priority “A” and two (2) priority “B”. Two (2) deficiencies are related to ATS Direct speech circuits, one (1) related to Inter-Regional Communication link with ICAO EUR/NAT Region and one (1) for HF service.

2.8 The updated lists of deficiencies in the CNS, ATM and SAR fields are at **Appendices A, B and C**, respectively as well as supporting analysis at **Appendix D**.

### 3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) review and update the list of deficiencies in the CNS, ATM and SAR fields at **Appendices A, B and C**;
- b) urge States to take necessary measures to implement the provisions of the MIDANPIRG/22 Conclusion 22/33, in particular submission of a specific Corrective Action Plan (CAP) and completion date for each deficiency; and
- c) assist States in addressing the deficiencies recorded in MANDD by ICAO through development of Corrective Actions, along with necessary follow-up with the relevant State focal points to ensure MANDD remains updated.

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## Deficiencies in the CNS field

## KUWAIT

Item No	Identification		Deficiencies				Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination		Facilities/ Services	Executing body	Date of completion	Priority for action
1	MID eANP VOI II, Table CNS II-2	Inter-regional Communication link with ICAO EUR/NAT Region	The Inter-regional Communication Link between Kuwait COM Centre and one of the entry/exit points of the ICAO EUR/NAT Region is not implemented	Mar 2019	-	O	-	Kuwait	Dec 2021	B

## Deficiencies in the CNS field

## LEBANON

Item No	Identification		Deficiencies				Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination		Facilities/ Services	Executing body	Date of completion	Priority for action
1	MID eANP VOL II, Table CNS II-3	ATS Direct Speech circuit Ankara - Beirut	ATS Direct Speech Circuit between Ankara and Beirut is not implemented	Mar 2019	-	O	-	Lebanon and Turkey	Dec 2021	B

<sup>(1)</sup> Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes

## Deficiencies in the CNS field

## LIBYA

Item No	Identification		Deficiencies				Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination		Facilities/ Services	Executing body	Date of completion	Priority for action
1	MID eANP Vol II, Table CNS II-4	HF Service	HF Service in Tripoli is unserviceable	Mar 2019	-	O	-	Libya	Dec 2021	A

## Deficiencies in the CNS field

## YEMEN

Item No	Identification		Deficiencies				Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination		Facilities/ Services	Executing body	Date of completion	Priority for action
1	MID eANP VOL II Table CNS II-3	ATS Direct speech Circuits Sana'a-Asmara, Sana'a-Djibouti, Sana'a-Mogadishu and Sana'a-Mumbai	ATS Direct speech circuits are not implemented between Sana'a-Mumbai a	Oct 1998	-	O	Corrective Action Plan has not been formally provided by the State	Yemen and India	Dec 2021	A

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<sup>(1)</sup> Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes

Deficiencies in the ATM field									
IRAN									
Item No	Identification		Deficiencies			Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination	Facilities/ Services	Executing body	Date of completion	Priority for action
1	MID ANP TABLE ATM II-MID-1 MID REGION ATS ROUTE NETWORK	-	ATS routes A418/UP574 not implemented	Dec 2006	KUMUN-PAPAR segment not implemented.	S O Corrective Action Plan has not been formally provided by the State	Iran-UAE	Dec 2021	B

Deficiencies in the ATM field										
IRAQ										
Item No	Identification		Deficiencies				Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination		Facilities/ Services	Executing body	Date of completion	Priority for action
1	MID ANP Table ATM II-MID-1 MID REGION ATS ROUTE NETWORK	-	ATS route G667 not implemented	Sep 2006	Segment ALSAN-ABD not implemented	S	Corrective Action Plan has not been formally provided by the State	Iraq- Iran- Kuwait	Dec 2021	B
2	Annex 11 Para. 2.31	-	Development of contingency plan for implementation in the event of disruption or potential disruption of ATS and related supporting services. The Plan should also address natural disasters and public health emergencies. Contingency agreements should be signed with all adjacent ACCs.	Nov 2006	Contingency Agreement to be signed with Syria	S	Corrective Action Plan has not been formally provided by the State	Iraq	Dec 2021	A
3	MID ANP Table ATM II-MID-1 MID REGION	-	ATS route G795 not implemented	May 2008	RAF-BSR segment not implemented	S	Corrective Action Plan has not been formally	Iraq- Saudi Arabia	Dec 2021	B



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	ATS ROUTE NETWORK						provided by the State			
4	MID ANP Table ATM II-MID-1 MID REGION ATS ROUTE NETWORK	-	ATS route A424 not implemented	May 2008	LOTAN- LOVEK segment not implemented	O	Corrective Action Plan has not been formally provided by the State	Iraq	Dec 2021	B

Deficiencies in the ATM field									
JORDAN									
Item No	Identification		Deficiencies			Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination	Facilities/ Services	Executing body	Date of completion	Priority for action
1	Annex 11 Para. 2.31	-	Development of contingency plan for implementation in the event of disruption or potential disruption of ATS and related supporting services. The Plan should also address natural disasters and public health emergencies. Contingency agreements should be signed with all adjacent ACCs.	Nov 2006	Contingency agreements not signed with Syria.	H Corrective Action Plan has not been formally provided by the State. State comment: due to political impact in the region Jordan is not able to complete the signature of contingency agreements with all adjacent States	Jordan	Dec 2021	A

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Deficiencies in the ATM field									
LEBANON									
Item No	Identification		Deficiencies			Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination	Facilities/ Services	Executing body	Date of completion	Priority for action
1	Annex 11 Para. 2.31	-	Development of contingency plan for implementation in the event of disruption or potential disruption of ATS and related supporting services. The Plan should also address natural disasters and public health emergencies. Contingency agreements should be signed with all adjacent ACCs.	Nov 2006	Contingency agreements not signed with Syria	S Corrective Action Plan has not been formally provided by the State	Lebanon	Dec 2021	A

Deficiencies in the ATM field										
LIBYA										
Item No	Identification		Deficiencies				Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination		Facilities/ Services	Executing body	Date of completion	Priority for action
1	Annex 11 Para. 2.31	-	Development of contingency plan for implementation in the event of disruption or potential disruption of ATS and related supporting services. The Plan should also address natural disasters and public health emergencies. Contingency agreements should be signed with all adjacent ACCs	Dec 2014	Agreement signed only with Egypt	S O	Corrective Action Plan has not been formally provided by the State	Libya	Dec 2021	A

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Deficiencies in the ATM field									
SAUDI ARABIA									
Item No	Identification		Deficiencies			Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination	Facilities/ Services	Executing body	Date of completion	Priority for action
1	Annex 11 Para. 2.31	-	Development of contingency plan for implementation in the event of disruption or potential disruption of ATS and related supporting services. The Plan should also address natural disasters and public health emergencies. Contingency agreements should be signed with all adjacent ACCs.	Nov 2006	Contingency Agreements not signed with Iraq, Qatar and Sudan.	S Corrective Action Plan has not been formally provided by the State	Saudi Arabia	Dec 2021	A

Deficiencies in the ATM field									
SUDAN									
Item No	Identification		Deficiencies			Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination	Facilities/ Services	Executing body	Date of completion	Priority for action
1	Annex 11 Para. 2.31	-	Development of contingency plan for implementation in the event of disruption or potential disruption of ATS and related supporting services. The Plan should also address natural disasters and public health emergencies. Contingency agreements should be signed with all adjacent ACCs.	Dec 2014	Contingency Agreement signed only with Egypt	H S O Corrective Action Plan has not been formally provided by the State	Sudan	Dec 2021	A

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Deficiencies in the ATM field										
SYRIA										
Item No	Identification		Deficiencies				Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination		Facilities/ Services	Executing body	Date of completion	Priority for action
1	MID ANP Table ATM II-MID-1 MID REGION ATS ROUTE NETWORK	-	ATS route G202 not implemented	Dec 1997	Segment DAKWE - Damascus not implemented	S	Corrective Action Plan has not been formally provided by the State	Syria	Dec 2021	B
2	MID ANP Table ATM II-MID-1 MID REGION ATS ROUTE NETWORK	-	ATS route UL602 not implemented	Dec 2003	Segments ELEXI-DRZ-GAZ not implemented.	S	Corrective Action Plan has not been formally provided by the State	Syria	Dec 2021	B
3	Annex 11 Para. 2.31	-	Development of contingency plan for implementation in the event of disruption or potential disruption of ATS and related supporting services. The Plan should also address natural disasters and public health emergencies. Contingency agreements should be signed with all adjacent ACCs.	Nov 2006	No signed agreement yet	H O	Corrective Action Plan has not been formally provided by the State	Syria	Dec 2021	A

Deficiencies in the ATM field									
UAE									
Item No	Identification		Deficiencies			Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination	Facilities/ Services	Executing body	Date of completion	Priority for action
1	MID ANP Table ATM II-MID-1 MID REGION ATS ROUTE NETWORK	-	ATS routes A418/UP574 not implemented	Dec 2006	KUMUN-PAPAR segment not implemented.	S Corrective Action Plan has not been formally provided by the State	Iran- UAE	Dec 2021	B

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Deficiencies in the SAR field									
IRAQ									
Item No	Identification		Deficiencies			Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination	Facilities/ Services	Executing body	Date of completion	Priority for action
1	Annex 12 Para. 2.1	-	Lack of provision of required SAR services	Apr 2012	- O	Corrective Action Plan has not been formally provided by the State	Iraq	Dec 2021	A

Deficiencies in the SAR field										
KUWAIT										
Item No	Identification		Deficiencies				Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination		Facilities/ Services	Executing body	Date of completion	Priority for action
1	Annex 6 Part I chap. 6 and Part II chap. 2 Annex 10, Vol III, Chap. 5 Annex 12 para. 2.6.4	ELT	Non-compliance with carriage of Emergency Locator Transmitter (ELT) requirements	Apr 2012	-	O	Corrective Action Plan has not been formally provided by the State	Kuwait	Dec 2021	A

Deficiencies in the SAR field										
LEBANON										
Item No	Identification		Deficiencies				Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination		Facilities/ Services	Executing body	Date of completion	Priority for action
1	Annex 12 Para. 2.1	-	Lack of provision of required SAR services	Apr 2012	-	0	Corrective Action Plan has not been formally provided by the State	Lebanon	Dec 2021	A

Deficiencies in the SAR field									
LIBYA									
Item No	Identification		Deficiencies			Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination	Facilities/ Services	Executing body	Date of completion	Priority for action
1	Annex 12 Para. 2.1	-	Lack of provision of required SAR services	Dec 2014	- H S O	Corrective Action Plan has not been formally provided by the State	Libya	Dec 2021	A

C-5

Deficiencies in the SAR field										
SYRIA										
Item No	Identification		Deficiencies				Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination		Facilities/ Services	Executing body	Date of completion	Priority for action
1	Annex 12 Para. 2.1	-	Lack of provision of required SAR services	Apr 2012	-	O	Corrective Action Plan has not been formally provided by the State	Syria	Dec 2021	A
2	Annex 6 Part I chap. 6 and Part II chap. 2 Annex 10, Vol III, Chap. 5 Annex 12 para. 2.6.4	-	Non-compliance with carriage of Emergency Locator Transmitter (ELT) requirements	Apr 2012	-	O	Corrective Action Plan has not been formally provided by the State	Syria	Dec 2021	A

Deficiencies in the SAR field										
YEMEN										
Item No	Identification		Deficiencies				Corrective Action			
	Requirement	Facilities/ Services	Description	Date first reported	Remarks/ Rationale for non-elimination		Facilities/ Services	Executing body	Date of completion	Priority for action
1	Annex 12 Para. 2.1	-	Lack of provision of required SAR services	Apr 2012	-	O	Corrective Action Plan has not been formally provided by the State	Yemen	Dec 2021	A
2	Annex 6 Part I chap. 6 and Part II chap. 2 Annex 10, Vol III, Chap. 5 Annex 12 para. 2.6.4	-	Non-compliance with carriage of Emergency Locator Transmitter (ELT) requirements	Apr 2012	-	O	Corrective Action Plan has not been formally provided by the State	Yemen	Dec 2021	A

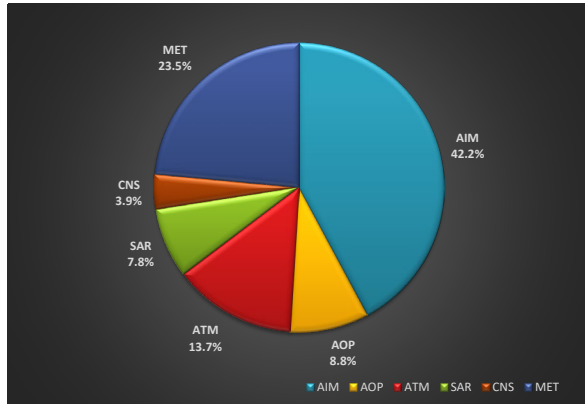
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# AIR NAVIGATION DEFICIENCIES IN THE THE MID REGION

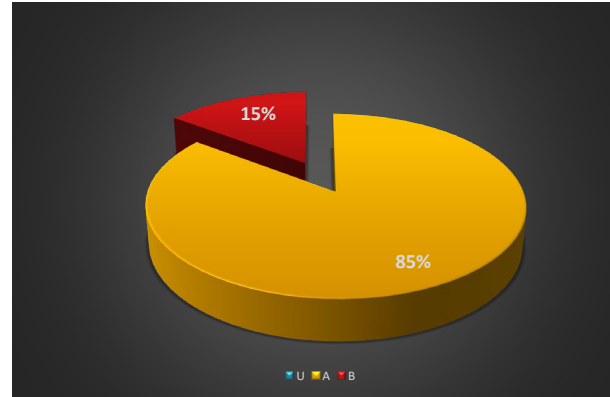
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	Priority			Rational				Priority			Rational				Priority			Rational				Priority			Rational				Priority			Rational				Priority			Rational															
	U	A	B	F	H	S		O	U	A	B	F	H		S	O	U	A	B	F		H	S	O	U	A	B		F	H	S	O	U	A		B	F	H	S	O	U		A	B	F	H	S	O						
Bahrain							0							0											0					0															0									
Egypt		2					2							0											0					0															1	1								
Iran		3					3		1		1	1		1			1	1							0					0															1	1								
Iraq		4	1	3	3	1	4	5		1		1	1		1		1	3			3	1	4		1				1	1		0													3	2			2	3				
Jordan		2	1	3	3			3						0		1				1						0				0																		0						
Kuwait								0						0										1					1	1		0	1					1							1	1								
Lebanon		3	1		2		2	4		1		1	1		1		1			1		1		1					1	1		0	1				1	1							3	3								
Libya		4	1				5	5		1		1	1	1		1				1	1	1	1		1			1	1		1															4	1		1	3	4			
Oman		2					2	2						0												0				0																	1	1						
Qatar								0						0		0					0					0				0																			0					
Saudi Arabia		0					0	0						0		1				1						0				0																			0					
Sudan		2					2	2		1		1	1		1		1			1	1	1	1			0				0																		2	1		1	2		
Syria		8	1	6	7	1	2	9		3		3	3		3		1	2			1	2	1	3		2				2	2																	4	4					
UAE		0					0	0						0		0	1				1	0	1			0				0																				0				
Yemen		7	1	4	2		4	8		1		1	1		1											2					2	2																	4	2	1	1	1	4
Total	0	37	6	16	17	2	26	43	0	9	0	9	9	1	1	9	0	7	7	0	3	11	8	14	0	8	0	0	1	1	8	8	0	2	2	0	0	0	4	4	0	24	0	12	1	3	18	24						

TOTAL DEFICIENCIES:102

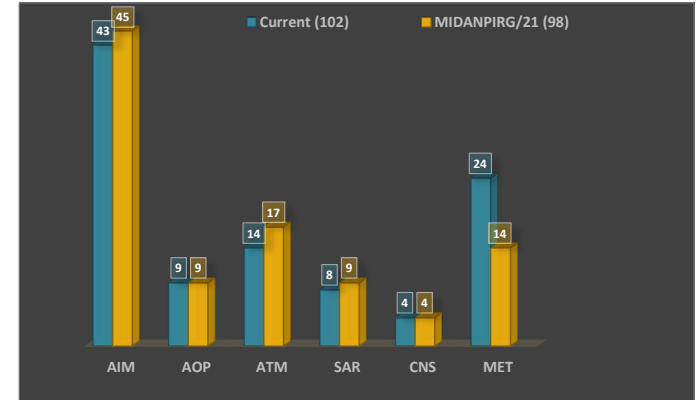
Distribution of Air Navigation deficiencies by field in %

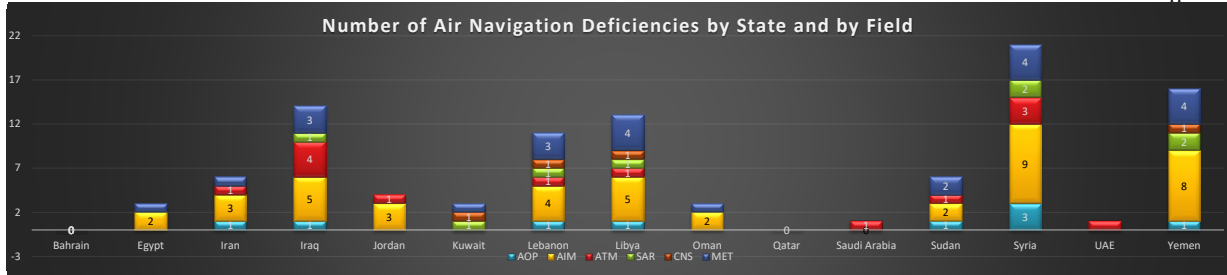


Distribution of Air navigation deficiencies by priority in %

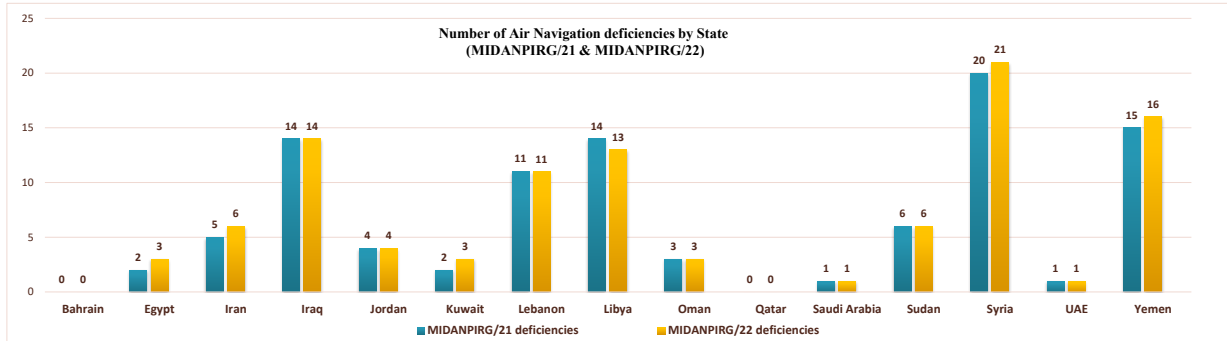


Reported Deficiencies by field (MIDANPIRG/22 & MIDANPIRG/21)

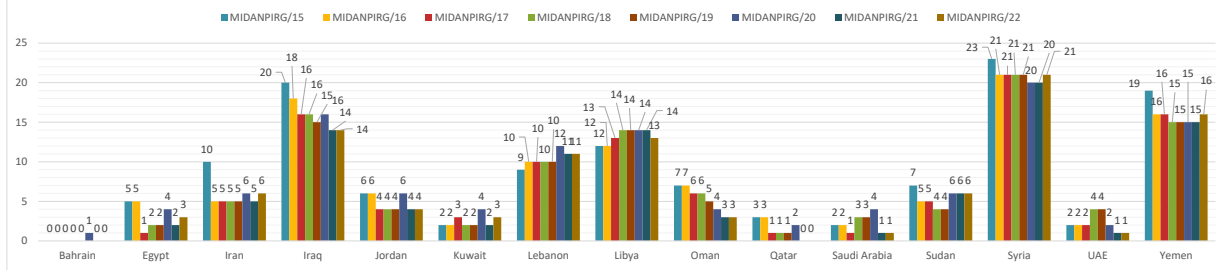




Deficiencies approved by MIDANPIRG/21



MID States deficiency MIDANPIRG/15 - MIDANPIRG/22



MID Region deficiency MIDANPIRG/15 - MIDANPIRG/22

