

International Civil Aviation Organization

Middle East Air Navigation Planning and Implementation Regional Group

Fifteenth Meeting (MIDANPIRG/15) (Bahrain, 8 – 11 June 2015)

Agenda Item 5.2.2: Specific Air Navigation issues

MID REGION ATS ROUTE NETWORK

(Presented by the Secretariat)

SUMMARY

This paper presents the outcome of the ANSIG/1 and ATM SG/1 meetings related to ATS Routes, for the meeting review and action.

Action by the meeting is at paragraph 3.

REFERENCES

- ANSIG/1 Report
- ATM SG/1 Report

1. Introduction

1.1 The meeting may wish to note that the effective inter-regional coordination and collaboration between all stakeholders is essential in order to achieve seamless Air Traffic Management and more optimum routes through the airspace. Moreover, the implementation of Performance Based Navigation (PBN) routes can have significant efficiency benefits on flight operations in the Enroute environment

2. DISCUSSION

- 2.1 The ANSIG/1 meeting (Cairo, Egypt, 10-12 February 2015) reviewed the outcome of the ATM SG/1 meeting (Cairo, Egypt, 9-12 June 2015). The meeting noted that a number of States were still implementing changes to the Regional ATS Route Network without complying with the established procedures for the amendment of the MID Air Navigation Plan (ANP).
- 2.2 In connection with the above, the ANSIG/1 meeting noted with concern that the Proposal for Amendment (PfA) Serial No. MID Basic ANP 13/01 ATM, which was approved by the President of the ICAO Council on 2 August 2013, has not yet been implemented by Egypt and Jordan. Accordingly, the meeting urged the concerned States to take necessary measures in order to resolve this pending issue.
- 2.3 The ANSIG/1 meeting commended Bahrain for being the first State in the Region that completed, on 9 January 2014, the implementation of a full RNAV 1 ATS route structure. The following benefits were noted:
 - 40% increase of airspace capacity;

- reduced workload and improved productivity of air traffic controllers; and
- reduction in CO₂ emissions: due to the dedicated airways for traffic landing within Bahrain FIR and traffic departing Bahrain FIR, which allowed users to reach their optimum levels without interruptions. This would facilitate the implementation of continuous climb and descend operations
- 2.4 Based on the above, States were encouraged to report the environmental benefits accrued from the implementation of the operational improvements to the ICAO MID Regional Office for inclusion in the Second MID Air Navigation Environmental Report.
- 2.5 The ANSIG/1 meeting noted that Bahrain and Iraq confirmed their readiness to implement the proposed RNAV 1 routes between Bahrain and Iraq through Kuwait FIR (Top Ten Routes TPR 9 and TPR 10, refers). The meeting noted that coordination is ongoing for the implementation of new RNAV routes between Bahrain, Kuwait and Iraq.
- 2.6 The ANSIG/1 meeting noted that Iran and Iraq restricted the use of G202 to certain airlines, which obliged users to fly longer routes via Kuwait or Turkey. Accordingly, the meeting urged the concerned States to remove the restriction on the use of the Route G202.
- 2.7 The meeting may wish to note that due to the situation in Iraq the coordination for the implementation of the proposed two (2) routes between Iraq and Saudi Arabia (RALTI- RAF and HFR-KABAN), were suspended.
- 2.8 In accordance with MIDANPIRG/14 Conclusion 14/11, the meeting reviewed and agreed to the proposed Top Ten Routes by the ATM SG/1 meeting, as at **Appendix A**. The meeting agreed to include TPR 2, TPR5, TPR 6 and TPR 7 in the MID Basic ANP Table ATS 1- ATS Route Network.
- 2.9 Based on the above, the ANSIG/1 meeting urged concerned States to implement the Top Ten Routes and provide the ICAO MID Regional Office with an update on the actions undertaken by **1 May 2015.**
- 2.10 The meeting may wish to note that as a follow-up action to the ANSIG/1 Draft Conclusion 1/3, the ICAO MID Regional Office processed PfA (Serial No.: MID Basic ANP 15/04 ATM) which was circulated through State Letter Ref.: AN 6/5A 15/136 dated 6 May 2015 with deadline for comment 6 June 2015.
- 2.11 The ANSIG/1 meeting noted that the MID ATS Route Catalogue, as updated by the ATM SG/1 meeting, is available on the ICAO MID website: (https://portal.icao.int/RO MID/Pages/eDocs.aspx).
- 2.12 The ANSIG/1 meeting invited States to take into consideration the proposed routes contained in the routes Catalogue in their planning process for the improvements of the ATS route structure.
- 2.13 The ANSIG/1 meeting emphasized the importance of a regional solution to enhance the MID Region ATS route network, rather than to concentrate on local improvements. In this regard, the meeting agreed that this could be achieved through the MID Region ATM Enhancement Programme (MAEP) with the implementation of the MID ATS Route Network Optimization Project (ARNOP).
- 2.14 The meeting may wish to note that several contingency routes were implemented to accommodate the traffic redistribution due to the escalated situation in Iraq, Libya, Syria, Ukraine and Yemen.

- 2.15 The meeting may wish to note that the third meeting of the Ad-hoc Afghanistan Contingency Group (AHACG/3) was held in Muscat, Oman, from 11 to 14 May 2015. The meeting provided an opportunity to discuss inter-regional issues and agreement on necessary contingency arrangements for implementation in the event of the discontinuation of the ATS in Kabul FIR.
- 2.16 It is to be highlighted that Iran is the first State in the MID Region that successfully implemented Organized Track System (OTS) in Tehran FIR in order to accommodate the significant increase of air traffic due to air operators circumnavigating Baghdad FIR. The OTS will be the key component for the contingency routing in case Kabul FIR is not available.
- 2.17 The meeting may wish to note that the provisions related to the designators for significant points not marked by the site of a radio navigation aid, and the ICAO FIVE-LETTER NAME CODES (5LNCs) and Route Designators (ICARD) database, are contained in ICAO Annex 11—Air Traffic Services, Appendix 2—Principles Governing the Establishment and Identification of Significant Points.
- 2.18 Since the establishment of ICARD, States have updated the information in ICARD and used it in their route planning activities. However, in a recent review of the effectiveness of ICARD, the following issues related to 5LNCs have been identified causing potential safety-related issues:
 - a) significant number of duplicated codes;
 - b) like-sounding codes in close proximity or on the same flight plan route;
 - c) shortage of available codes which are pronounceable and meet the sound-like proximity check requirements; and
 - d) differences between 5LNC data registered in ICARD and published in national Aeronautical Information Publications (AIPs).
- 2.19 In light of the increasing need for 5LNCs to support implementation of Performance Based Navigation (PBN), ICAO is committed to maintaining an ICARD database system that meets the needs of States now and in the future. To accomplish this, ICAO is currently working on an update of the ICARD database system which should be completed by the end of 2015.
- 2.20 ICAO issued State Letter Ref.: AN 11/45.5-15/32 dated 7 May 2015 related to the ICARD data base system, inviting States to carry out the actions described below and to contact the accredited ICAO Regional Office should further support and guidance is required:
 - a) to conduct a comparison of your State's list of 5LNCs recorded in ICARD and 5LNCs published in your national Aeronautical Information Publication (AIP) in order to identify any discrepancies;
 - b) to inform the ICAO Regional Office accredited to your State of any 5LNCs that are used but not recorded in ICARD, as well as any 5LNCs that are allocated to your State but no longer used and which should be released from ICARD. Your State's contribution to this exercise will significantly reduce the creation of duplicated 5LNCs as well as enable ICAO to identify and resolve existing duplicated or like-sounding 5LNCs that have a potential safety impact; and
 - c) to provide the ICAO Regional Office accredited to your State with an update of the name(s) of your nominated ICARD authorized user, if your State has not already done so, in order to maintain an accurate and current list of authorized ICARD users. Upon receipt of the names, the Regional Office concerned will validate the State ICARD authorized user and, if necessary, provide instructions on how to register for access to ICARD through the ICAO Secure Portal and subscribe to the ICARD database to be added as a State authorized ICARD 5LNC Planner.

2.21 In connection with the above, it's to be underlined that any assignment of route designators should be coordinate with the ICAO MID Regional Office, in order to ensure compliance with Annex 11 provisions.

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
 - a) urge States to:
 - i. adhere to the established ICAO procedures related to the publication and amendment of ATS routes;
 - ii. take necessary measures to implement the identified Top ten routes at **Appendix A**, and provide the ICAO MID Regional Office with an update on the action undertaken by **1 October 2015**;
 - iii. take all the necessary measures to implement the planned routes or route segments included in their deficiency list, which will enhance the ATS route network in the MID Region;
 - iv. reply to the State Letter Ref.: AN 11/45.5-15/32 dated 7 May 2015 related to the ICARD data base system, if not yet done so;
 - v. coordinate with the ICAO MD Regional Office the assignment/changes related to route designators; and
 - b) urge Sates and airspace users to identify and report 5LNCs duplication and/or like-sounding issues to the ICAO MID Regional Office to recommend appropriate solutions.

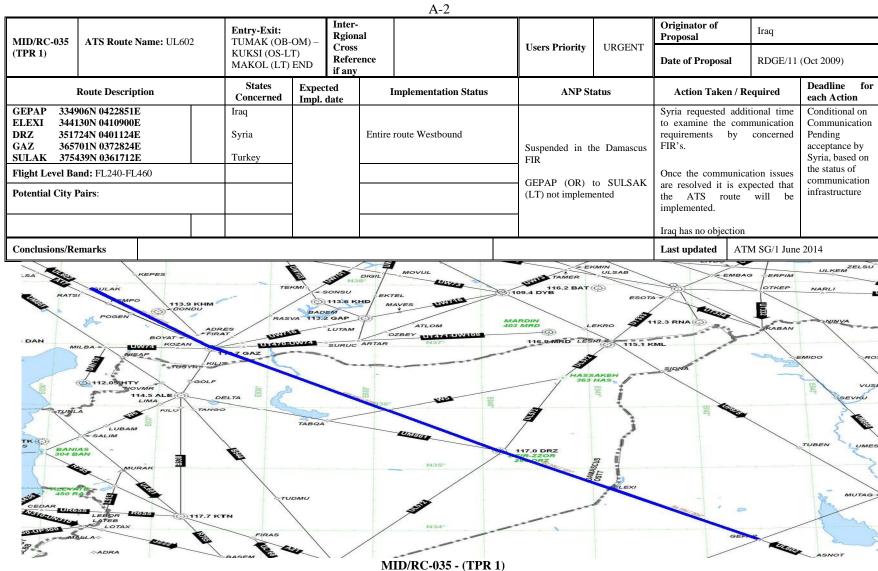
APPENDIX A

MID TOP 10 PROPOSED ATS ROUTES

TPR	TPR ATS Route ATS Catalogue Route		States Concerned	S	tatus		Remarks
	Reference	Affected		Reviewed by	Date	Changed	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	RC-035	UL602	Iraq – Syria-Turkey	ATM SG/1	June 2014	Yes	Pending for Syria approval
2	RC-045	New	Saudi Arabia-Sudan	ATM SG/1	June 2014	Yes	Moved to ANP
3	RC-055	L315	Egypt-Saudi Arabia	ATM SG/1	June 2014	Yes	Saudi proposed SOBEL-DEDLI
4	RC-056	New	Egypt	ATM SG/1	June 2014	Yes	
5	RC-070	New	Egypt-Libya	ATM SG/1	June 2014	Yes	Moved to ANP
6	RC-082	New	Jordan-Saudi Arabia	ATM SG/1	June 2014	Yes	Route amended and moved to ANP
7	RC-083	New	Egypt-Libya-Saudi Arabia	ATM SG/1	June 2014	Yes	Route amended and moved to ANP
8	Eurocontrol Proposal 1	New	Egypt	ATM SG/1	June 2014	New	
9	UKMUG- SIDAD	New	Bahrain-Iraq-Kuwait	ATM SG/1	June 2014	New	RNAV 1 Routes
10	SIDNA- ASLAN	New	Bahrain-Iraq-Kuwait	ATM SG/1	June 2014	New	RNAV 1 Routes

Table explanation

- a) TPR used as reference for the proposed Top 10 routes to be considered for implementation, numbers do not reflect the level of priority.
- b) Source of the proposed routes.
- c) Affected ATS Routes by the implementation of the new proposed routes.
- d) States Concerned with the implementation.
- e) The Group, Sub-Group or Task Force that had reviewed and updated the status of implementation of these top 10 routes.
- f) Date of last status update.
- g) Indicates if the status is changed or Not.
- h) Remarks



MID/RC-045	ATS Route Name:		Entry-Exit: PSD- KITAP		Inter-Regional Cross Reference		Users		Originator of Proposal	IATA	
(TPR 2)	New Route		13D-KITAI		if any		Priority		Date of Proposal	ARN TF/2	
]	Route Description		States Concerned	Expe Impl	ected . date	mplementation Status	ANI	? Status	Action Taken	Required	Deadline for each Action
Port Sudan (PSD) BOGUM AI BAHA (BHA) KITAP Flight Level Band:			Saudi Arabia, Sudan		Not imp	emented		ANP August 2014	Sudan has no object from Port Sudan (CDR) KSA suggest Port KITAP (Normal ro	to SALWA Sudan BHA-	
Potential City OEJN, SBGR to	Pairs: DGAA, DNM o OBBI, OMAA, OM stern Arabian Peninsul	DB, OTBD							CDR KSA needs mo studying.	re time for	
DUNGL	ASSINGUM 3	MISAM LOS	KEBUK RESOX SETLI VELOV	N N N N N N N N N N N N N N N N N N N	DIPEX MISSES	DETGØ BC	MIK SAVALIZATION OF THE PROPERTY OF THE PROPER	ALRIK ALRIK LEAN LEAN	Last updated A	LOTOS RUDES S	REVAR UNBIE

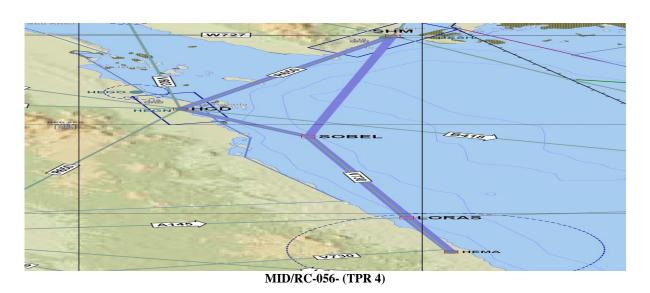
MIDANPIRG/15-WP/21 **Appendix A**

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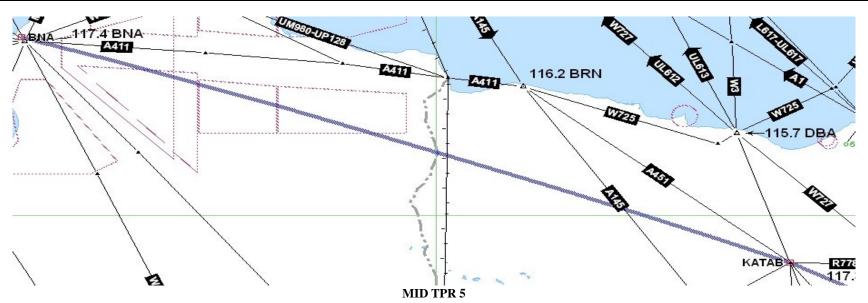
MID/RC-055 (TPR 3)	ATS Route I New Route L315	Name:		Entry-Exit: HEMA-CVO		Inter-R Cross R if any	egional eference			Users Priority		Originator Proposal Date of Propos	of al	IATA ARN TF/2	
Route Description MAK-CVO			States Concerned	Expected Impl. date		I	mplementation Status		ANP Status		Action Taken / Required		Required	Deadline for each Action	
GIBAL HGD CVO				Egypt Saudi Arabia			CVO-HG	nted with opposite directory ED Eastbound HGD Westbound	ection			Saudi Arabia westbound and HDG or SO eastbound.	d ne		
Flight Level Ba Potential City I North-western R	Pairs:	CA and l	Europe							Alread	y in ANP	This requires the bi-directional Pending Egypt	1.		
Conclusions/Remarks Saves 9 miles											Last updated	AT	M SG/1 June 2	014	

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MID/RC-056	ATS Route N	Name:		Entry-Exit:		Inter-R	egional deference			Users		Originator of Proposal IATA		IATA	
(TPR 4)	New Route			HEMA-SHM		if any	crerence			Priority		Date of Propo	of Proposal ARN TF/2		
1	Route Description HEMA-SHM			States Concerned	Expected Impl. date		I	mplementation Statu	ıs	ANI	Status	Action Ta	ken /	Required	Deadline for each Action
				Egypt			No progre	ess reported				IATA to provi	de fui	rther details	
Flight Level Ba	nd: Upper											and the second s		await further	
Potential City I HESH, Eastern Red Sea Coast		Europe	to Western									discussions fr	om Eş	дурц.	
Conclusions/Re	marks	Saves	17 miles									Last updated	A	ATM SG/1 June	2014



MID/RC-070	ATS Route Na	me:	Entry-Exit: BNA-KATAB	_	Inter-R	egional Reference			Users	High	Originator of Proposal	IATA		
(TPR 5)	PR 5) New Route		SEMRU			cicicicic			Priority	Thigh	Date of Proposal	ARN TF/1		
]	Route Description				Expected Impl. date		mplementation Statu	ıs	AN	P Status	Action Taker	n/Required	Deadline each Action	for n
BNA (N32 07.5	E020 15.2) –		Egypt			New ATS	S route.				Differed for the fu	ture		
KATAB (N29 2	5.0 E029 05.1)		Libya											
Flight Level Ba	nd: FL290 – FL	410									Implement if poss	ible		
Potential City I	Pairs: CMN/ALG	J/TUN/TIP-DO	-H							1 AND	Priority Routes			
								Move	ed to ANP	Requires further c with concerned St Egypt and Libya t route	ates			
Conclusions/Re	marks	This AWY wou Libya FIR to Eg	d save considerable ypt FIR	track m	niles BNA	– KATAB	S – SEMRU	-			Last updated	ATM SG/1 June	2014	



MID/RC-082	ATS Route Name:		Entry-Exit: DANAD - ME		Regional Reference			Users	High	Originator of Proposal	IATA iFLEX	Proposal
(TPR 6)	New Route UQ597 I	Eastbound	- ASH - ULO					Priority	Ingii	Date of Proposal	Date of Proposal 17 May 2011	
	Route Description		States Concerned	Expected Impl. date	I	mplementation Sta	itus	ANI	Status	Action Taken/	Required	Deadline for each Action
DEESA ENABI TAMRO LOTOK			Jordan Saudi Arabia							Connecting to UP55 Implement if possib Priority Routes Saudi Arabia to i	ole	TBD
	nd: Pairs: Dakar FIR, A ro FIR, Jeddah FIR	Algiers FIR,		-					d to ANP	route		
Conclusions/Re			to by some State		Willia /		ELNI N30° _	100		Last updated A		SG/13 SEP 2013
PETRA SIBET	emarks Propo	UBATT	LABAD LENABI	CISION ODBAT	GI COL	IBAM LINE	N30° RA	TOKLU	G669	LOTAN GIGGS AGE	NISER	UserWay

MID TPR 6

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MID/RC-083 ATS Route Na New Route UC			Entry-Exit: DITAR – NAB		Inter-Re				Users	High	Originator of Proposal	IATA iFLEX	Proposal
(TPR 7)	New Route UQ59	8 Westbound	– PASAM – HI ANTER - KUT		if any				Priority	111511	Date of Proposal 17 May 2011		
Route Description			States Concerned		pected pl. date		nplementation Status		ANP Status		Action Taken/Required		Deadline for each Action
IIOD		Egypt Saudi Arabia									Implement if possible Priority Routes Important Segment HGD-PASAM		TBD
Flight Level Ba					_				Moved	to ANP	It's a west bound di (FUA) N697 - HIL-PASAI RC 083 amended to segment AST-DITA	M-HGD -V608 o include AR only	
Conclusions/Re	marks										Last updated	ATM SG/1 June	2014
GIDID AV	116.5 HGD	PASAM PASAM	LONG.	Anne	DEMS	E037°	MID (TPR	E038 255 HM / 255*	50 4 E039°	DBAS	IN CO.	REVAB	AITEPU

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Eurocontrol proposals

Reference	Objective and Proposal	State(s) concerned
TPR 8	Objective: To further improve ATS route network within Cairo FIR.	EGY
		Originator
	To implement bi-directional ATS route TBA - AAAAA - KITOT .	EUROCONTROL

Notes:

- AAAAA crossing point between new TBA KITOT and existing ATS route W733 allowing connection to/from METSA.
 Shorter by 9.2NM option compare to existing TBA NWB KITOT.

Shorter by 28.6NM option compare to existing TBA - NWB - METSA TABA Intl HETB 2457-131 KING HUSSEIN 114.5 TBA ADABA 113.1 A NALSO A TELANN D 112.0 LOT 109.5 ITBA 78 METSA 110.1 IAQA METSA AMMAN OJAC JEDDAH OEJD NWB (NUWEIBAA)
NUWEIBAA
288 NWB KITOT KITOT

(TPR 8)

Reference	Objective and Proposal	State(s) concerned
TPR 9	Objective: To further improve ATS route network between Baghdad and	Bahrain-Iraq-Kuwait
	Kuwait FIRs.	
	To implement ATS route UKMUG-SIDAD- New Point East of RABAP then join the ATS Route network within Bahrain.	Originator ATM/AIM/SAR SG13 Oct 2013
Notes: 1. RNAV I Ro	utes, target date of implementation second quarter of 2014.	

Reference	Objective and Proposal	State(s) concerned
TPR 10	Objective: To further improve ATS route network between Baghdad and	Bahrain-Iraq-Kuwait
	Kuwait FIRs.	
	TO SELECT A CONTRACT OF A CARLANDA DADA	Originator
	To implement ATS route SIDNA-New point West of ASLAN-RABAP.	ATM/AIM/SAR
		SG13 Oct 2013
Notes: 2. RNAV 1 Re	outes, target date of implementation second quarter of 2014.	
2. RIVAV I K	mes, unger unie oj impiememunon seconu quarier oj 2014.	TANKATAT FIK / UNUESIK

