



International Civil Aviation Organization

MIDANPIRG Air Traffic Management Sub-Group

Fourth Meeting (ATM SG/4)
(Amman, Jordan, 29 April – 3 May 2018)

Agenda Item 5: Airspace Management Issues

AIDC/OLDI

(Presented by the Secretariat)

SUMMARY

This paper presents the status of AIDC/OLDI Implementation in the MID Region for the meeting appropriate action to foster the implementation. The paper proposes changes to the ASBU B0-FICE related to the Indicator, Metric and applicability area of the AIDC/OLDI Element.

Action by the meeting is at paragraph 3.

REFERENCES

- CNS SG/8 Report
- MID Doc 002
- MID DOC 006

1. INTRODUCTION

1.1 AIDC/OLDI is one of the elements of the ASBU Module B0-FICE, which is included in the MID Region Air Navigation Strategy MID Doc 002.

1.2 The meeting may wish to recall that MIDANPIRG/15 endorsed the MID Region Guidance for the implementation of AIDC/OLDI (MID Doc 006). The Document includes in addition to the implementation phases, guidance material and ample of scripts to be used for testing.

2. DISCUSSION

2.1 The meeting may wish to note that the implementation of OLDI within the MID Region and EUR States and AIDC at the interface with AFI and APAC States, is still far beyond the acceptable level. This is mainly due to system interoperability, or lack of coordination, etc.

2.2 The meeting may wish to note that the ICAO MID Office circulated a Questionnaire to States to gather information about the challenges associated with AIDC/OLDI implementation in the MID Region and to capture the updated level of implementation. The results of the Questionnaire were presented

to the CNS SG/8 meeting (Cairo, Egypt, 26-28 February 2018). Based on the analysis of replies received, the following were highlighted:

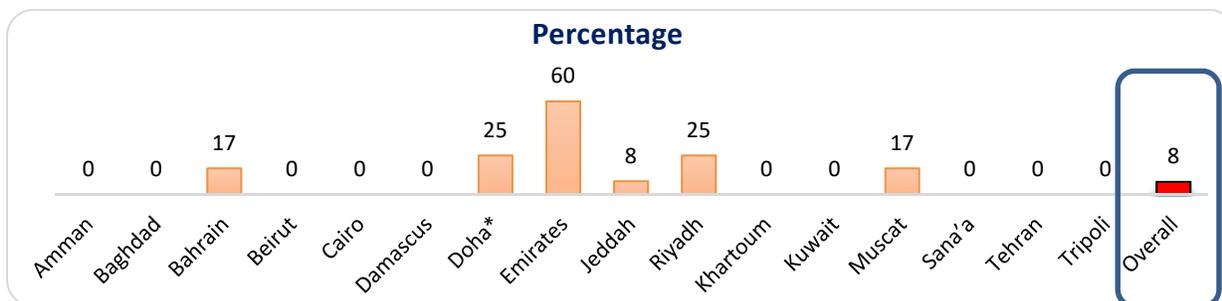
- The reasons of non-implementations are as follow:
 - adjacent State(s) not ready to implement AIDC/OLDI;
 - no response from adjacent State(s);
 - ATM system does not support AIDC/OLDI as reported by two (2) States;
 - technical problems; and
 - AIDC/OLDI connection is not applicable (not required).
- Three (3) States, (Jordan, Lebanon and Yemen) requested assistance in AIDC/OLDI Implementation.
- No State in the MID Region has completely implemented AIDC/OLDI with all adjacent States.
- No common protocol supported by the ATM systems in the MID Region.

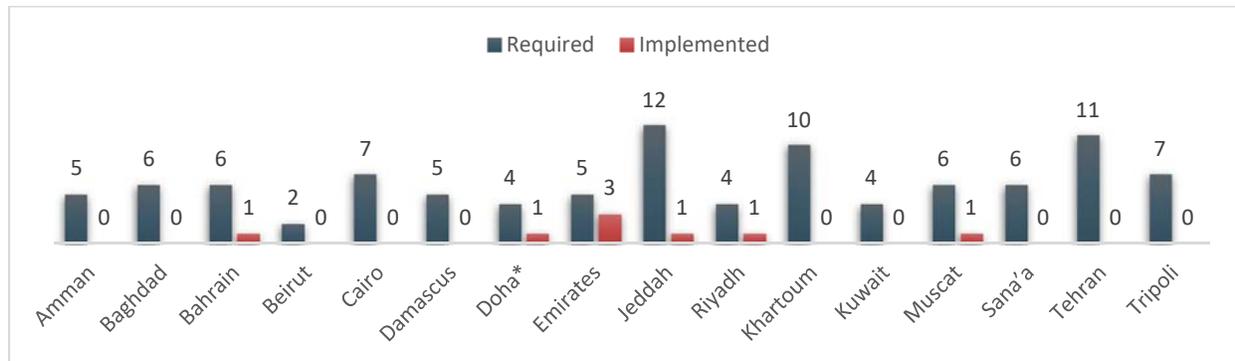
2.3 The CNS SG/8 meeting agreed to the following actions/recommendations based on the challenges identified related to AIDC/OLDI implementation in the MID Region:

- ICAO MID Office to coordinate with Paris Office regarding Beirut – Nicosia and Cairo – Nicosia OLDI connections;
- States that do not have AIDC/OLDI capability are urged to plan for an upgrade of their systems as soon as possible;
- States that need assistance (Jordan, Lebanon and Yemen) are invited to visit Muscat Centre (including Simulator), as Oman offered to share their AIDC/OLDI experience with other States; and
- States that have not replied to the Questionnaire are urged to do so by 1 April 2018.

2.4 The list of AIDC/OLDI Focal Points is at **Appendix A** and the status of implementation of the B0-FICE is at **Appendix B**.

2.5 The detailed status of AIDC/OLDI Interconnections is provided through the Matrix at **Appendix C** and reflected in the following **Graphs**:





2.6 It is to be highlighted that the current Indicator in ASBU B0-FICE related to AIDC/OLDI is as follows:

*% of FIRs within which all applicable ACCs have implemented **at least one** interface to use AIDC/OLDI with neighboring ACCs.*

2.7 It was recognized that the implementation of AIDC/OLDI would improve significantly the coordination process and would reduce the amount of coordination failures between ACCs, which has been identified as a major long standing issue by MIDRMA Board. Consequently, the implementation of AIDC/OLDI would enhance safety and reduce ATC workload.

2.8 Based on the above the meeting is invited to discuss a proposal to mandate the implementation of AIDC/OLDI through the inclusion of the requirement in the MID ANP Volume II Part IV-ATM under Specific Regional Requirements, based on a phased approach taking into consideration the situation in some States (Applicability area should be defined). Accordingly, the proposed Indicator and Supporting Metric for the ASBU B0-FICE related to AIDC/OLDI that should be presented to the ANSIG/3 meeting (Cairo, Egypt, 2-4 July 2018) would be as follows:

Indicator: % AIDC/OLDI interconnections implemented between adjacent ACCs

Metric: Number of AIDC/OLDI interconnections implemented between adjacent ACCs

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) review and update the AIDC/OLDI Focal Points and the Implementation Status at **Appendices A, B and C**, respectively;
- b) discuss the proposal at para 2.6;
- c) encourage States to benefit from guidance provided in the MID Doc 006; and
- d) explore ways and means to foster the implementation of AIDC/OLDI in the Region.

APPENDIX A

AIDC/OLDI FOCAL POINTS

State	Name	Tel.	Fax	Mobile	Email
Bahrain	Mohamed Ali Saleh	+973 17 321 187	+973 17 329 966	+973 3962 2202	masaleh@caa.gov.bh
Egypt	Ahmed Abdel Rasoul M. Ahmed		+202 22685293	+2010 60241692	Raad_mourad@yahoo.com
Iran	Seyed Mahmood Qazi Mirsaeed	+982 144544031-2	+98 21 445 44030	+989 122443706	mirsaeed@airport.ir
	Arash Khodaei	+982 144662066	+98 21 44665576	+989 121483840	a-khodaei@cao.ir
Iraq	Ammar Hussein Ali	+964 7803697529		+964 7803697529	automation_icaa@geca.gov.iq
	Ibrahim Sabah Naiem	+964 7812801524		+964 7812801524	ibrahim@geca.gov.iq
Jordan	Mohammad Al Rousan	+962 6 4451677	+962 6 4451677	+962 6 4451677	m.rousan@carc.gov.jo
Kuwait	Hamad Alnaser	+965 24760421	+965 24343417	+965 97652527	ha.alnaser@dgca.gov.kw
	Naser Alhubail				nj.alhubail@dgca.gov.kw
Lebanon	Amin Jaber	+961 1 628199	+ 961 1 629021	+961 3210291	jabera@beirutairport.gov.lb
Libya					
Oman	Ali Al Ajmi	+968 24 518 448		+968 99 416 280	alihassan@caa.gov.om
Saudi Arabia	Khaled Mohamed Khodari	+966 126 717717 Ext. 1247		+966 55 5580714	kkhodari@gaca.gov.sa

Sudan	ELtahir Abdelatif Hassan	+249 183784925	+249 183784925	+249 123499352	eltahir5@yahoo.com
Syria					
UAE	Hamad Al Belushi	+971 2 599 6633	+971 2 599 6836	+971 50 616 4350	hbelushi@szc.gcaa.ae
Yemen	Abdullah Abdulwareth AlEryani	+967 2 343686		+967 777190602	ern1abd@gmail.com
	Younis Saeed Ahmed	+967 2298600		+967 777523776	younis.trans@gmail.com

APPENDIX B

B0 – FICE: Increased Interoperability, Efficiency and Capacity through Ground-Ground Integration

Description and purpose

To improve coordination between air traffic service units (ATSUs) by using ATS Interfacility Data Communication (AIDC) defined by the ICAO *Manual of Air Traffic Services Data Link Applications* (Doc 9694). The transfer of communication in a data link environment improves the efficiency of this process particularly for oceanic ATSUs.

Main performance impact:

KPA-01 – Access and Equity	KPA-02 – Capacity	KPA-04 – Efficiency	KPA-05 – Environment	KPA-10 – Safety
N	Y	Y	N	Y

Applicability consideration:

Applicable to at least two area control centres (ACCs) dealing with enroute and/or terminal control area (TMA) airspace. A greater number of consecutive participating ACCs will increase the benefits.

<i>B0 – FICE: Increased Interoperability, Efficiency and Capacity through Ground-Ground Integration</i>			
Elements	Applicability	Performance Indicators/Supporting Metrics	Targets
AMHS capability	All States	Indicator: % of States with AMHS capability Supporting metric: Number of States with AMHS capability	70% of States with AMHS capability by Dec. 2017 <i>Status 73% (Apr. 2018)</i>
AMHS implementation /interconnection	All States	Indicator: % of States with AMHS implemented (interconnected with other States AMHS) Supporting metric: Number of States with AMHS implemented (interconnections with other States AMHS)	60% of States with AMHS interconnected by Dec. 2017 <i>Status 67% (Apr. 2018)</i>
Implementation of AIDC/OLDI between adjacent ACCs	All ACCs	Indicator: % of FIRs within which all applicable ACCs have implemented at least one interface to use AIDC/OLDI with neighboring ACCs Supporting metric: Number of AIDC/OLDI interconnections implemented between adjacent ACCs	70% by Dec. 2017 <i>Status 47% (Apr. 2018)</i>

TABLE B0-FICE

EXPLANATION OF THE TABLE

- Column Name of the State
- 1 Status of AMHS Capability and Interconnection and AIDC/OLDI Capability, where:
 Y – Fully Implemented
 N – Not Implemented
- 2, 3, 4,5 Status of AIDC/OLDI Implementation, where:
 Y – If AIDC/OLDI is implemented at least with one neighbouring ACC
 N – Not Implemented
- 6 Action plan — short description of the State’s Action Plan with regard to the implementation of B0-FICE.
- 7 Remarks

State	AMHS Capability	AMHS Interconnection	AIDC/OLDI Capability	AIDC/OLDI Implementation	Action Plan	Remarks
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
Bahrain	Y	Y	Y	Y		Connected with Abu Dhabi
Egypt	Y	Y	Y	Y		
Iran	N	N	Y	N		Contract signed for AMHS
Iraq	N	N	N	N		Thales Topsky ATM system
Jordan	Y	Y	Y	N		
Kuwait	Y	Y	Y	N		
Lebanon	Y	Y	Y	Y		
Libya	Y	N	Y	N		
Oman	Y	Y	Y	Y		Oman – UAE operational since 12/3/18
Qatar	Y	Y	Y	Y		local implementation for OLDI
Saudi Arabia	Y	Y	Y	Y		local implementation for AIDC
Sudan	Y	Y	Y	N		
Syria	N	N	N	N		
UAE	Y	Y	Y	Y		
Yemen	N	N	N	N		Contract signed for AMHS
Total Percentage	73%	67%	80%	47%		

APPENDIX C

MID REGION Status of AIDC/OLDI Implementation

As of April 2018

ACC	Adjacent ACCs						
Amman	Cairo (N)	Bagdad (N)	Damascus (N)	Jeddah (N)	Tel Aviv (N)		
Baghdad	Amman (N)	Ankara (N)	Damascus (N)	Jeddah (N)	Tehran (N)	Kuwait (N)	
Bahrain	Doha (N)	Emirates (Y) OLDI Jun 17	Jeddah (N)	Kuwait (N)	Riyadh (N)	Tehran (N)	
Beirut	Damascus (N)		Nicosia (N)				
Cairo	Amman (N)	Athens (N)	Jeddah (N)	Khartoum (N)	Nicosia (N)	Tel Aviv (N)	Tripoli (N)
Damascus	Amman (N)	Ankara (N)	Bagdad (N)	Beirut (N)	Nicosia (N)		
Doha*	Bahrain (N)	Emirates (Y) OLDI	Jeddah (N)	Riyadh (N)			
Emirates	Bahrain (Y) OLDI Jun 17	Doha (Y) OLDI	Jeddah (N)	Muscat (Y) OLDI Mar 18	Tehran (N) AFTN MSG		
Jeddah	Amman (N)	Asmara (N)	Bagdad (N)	Bahrain (N)	Cairo (N)	Doha (N)	Emirates (N)
	Khartoum (N)	Kuwait (N)	Muscat (N)	Riyadh (Y)		Sana'a (N)	
Riyadh	Bahrain (N)	Doha (N)	Kuwait (N)	Jeddah (Y)			
Khartoum	Addis (N)	Asmara (N)	Brazzaville (N)	Cairo (N)	Entebbe (N)	Jeddah (N)	Kinshasa (N)
	N'Djamena (N)		Nairobi (N)	Tripoli (N)			
Kuwait	Bagdad (N)	Bahrain (N)	Jeddah (N)	Tehran (N)			
Muscat	Emirates (Y) OLDI Mar.18	Jeddah (N)	Karachi (N)	Mumbai (N)	Sana'a (N)	Tehran (N)	
Sana'a	Djibouti (Addis Ababa) (N)	Asmara (N)	Jeddah (N)	Mogadishu (N)	Mumbai (N)	Muscat (N)	
Tehran	Ankara (N)	Ashgabat (N)	Bagdad (N)	Bahrain (N)	Baku (N)	Emirates (N) AFTN MSG	Kabul (N)
	Karachi (N)	Kuwait (N)	Muscat (N)	Yerevan (N)			
Tripoli	Algiers (N)	Cairo (N)	Khartoum (N)	Malta (N)	N'Djamena (N)	Niamey (N)	Tunis (N)

