



International Civil Aviation Organization

MIDANPIRG Communication, Navigation and Surveillance Sub-Group

Seventh Meeting (CNS SG/8)
(Cairo, Egypt, 26 - 28 February 2018)

Agenda Item 4: CNS Planning and Implementation in the MID Region

AIDC/OLDI IMPLEMENTATION

(Presented by Secretariat)

SUMMARY

This paper presents the status of AIDC/OLDI Implementation in the MID Region and associated challenges; and invites the meeting to propose appropriate actions to foster the AIDC/OLDI implementation within the MID Region.

Action by the meeting is at paragraph 3.

REFERENCES

- MIDANPIRG/16 Report
- 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 00, as a priority 1 Module for implementation in the MID Region.

2. DISCUSSION

2.1 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 sample of scripts to be used for testing.

2.2 The status of implementation of AIDC/OLDI in the MID Region at **Appendix A** is still far below the acceptable level.

2.3 In order to gather information about the challenges associated with the AIDC/OLDI implementation in the MID Region and to capture the updated level of implementation, the Questionnaire at **Appendix B** has been sent to the States' AIDC/OLDI focal points. The meeting may wish to note that Six (6) States replied to the Questionnaire (Bahrain, Iran, Jordan, Lebanon, Oman and Yemen) as reflected in **Appendix C**. The List of AIDC/OLDI Focal Points is at **Appendix D**.

2.4 Based on the analysis of replies received, the following is to be 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.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) review and update, as deemed necessary, the AIDC/OLDI Implementation Status and List of Focal Points at **Appendices A** and **D**, respectively; and
- b) propose actions/recommendations regarding identified challenges in para. 2.4.

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.

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

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
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
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

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	N		
Egypt	Y	Y	Y	Y		
Iran	N	N	Y	N		Contract signed for AMHS
Iraq	N	N	N	N		
Jordan	Y	Y	Y	N		
Kuwait	Y	Y	Y	N		
Lebanon	Y	N	Y	Y		
Libya	Y	N	Y	N		
Oman	Y	Y	Y	N		
Qatar	Y	Y	Y	Y		local implementation for OLDI
Saudi Arabia	Y	Y	Y	Y		local implementation for AIDC
Sudan	Y	Y	Y	N		AMHS Int. Feb 2015
Syria	N	N	N	N		
UAE	Y	Y	Y	Y		Local implementation for OLDI
Yemen	N	N	N	N		Contract signed for AMHS
Total Percentage	73%	60%	80%	33%		

AIDC/OLDI Implementation Questionnaire



State:

Date: 18/1/2018

The objective of this questionnaire is to gather information about the challenges associated with the AIDC/OLDI implementation in the ICAO MID Region and to capture the updated level of implementation.

QUESTIONS

Q1) Does your system support AIDC/OLDI?

Yes

No

If answered No, please proceed to Question number 5

Q2) What are the Vendor's name and model of the ATM system(s) in your State?

Q3) What are the protocol(s) and version(s) supported?

OLDI/X.25

Version(s)

OLDI/IPv6 (FMTP)

Version(s)

AIDC

Version(s)

Q4) Has your State implemented AIDC/OLDI with **all** adjacent States?

Yes

No

If answered No, please indicate which States you have not implemented AIDC/OLDI connection(s), and the reason(s).

<i>Adjacent State</i>	<i>Reason(s)*</i>

** Reasons could be:*

- Financial reasons;*
- Adjacent state not ready to implement;*
- Technical Problem(s) (ex. System Interoperability);*
- Unavailability of underlying Network;*
- Training Issue;*
- Others, please specify*

Q5) Does your State need assistance in AIDC/OLDI implementation?

Yes

No

Q6) Please provide any further comments.

Thank you for filling out this questionnaire, it will be of great help

APPENDIX C

MID States replies to AIDC/OLDI Questionnaire

State	Does Your System Support AIDC/OLDI	Vendor's Name And Model Of The ATM System	Protocol(S) And Version(S) Supported	AIDC/OLDI Implemented With All Adjacent States	States Have Not Implemented AIDC/OLDI Connection(S) With, And The Reason(S)	Need Assistance In AIDC/OLDI Implementation?	Comments
Bahrain	Yes	THALES TOPSKY-ATC	-OLDI/IPv6 Ver 2.3	No	Saudi Arabia: No response Kuwait : No response	No	Draft implementation document sent to KSA and Kuwait but no response to date. UAE implementation already working for last 6 months.
Iran		Thomson-CSF company, EUROCAT-2000 ATM automation systems and Supports only Basic OLDI Messages	-Basic OLDI X.25_2	No	ATM automation system does not supports AIDC, supports basic OLDI only, ATM has 2 OLDI connections but not working properly	No	Iran ANSP(Air Navigation Service Provider) has planned for new ATM automation system and requested in that SOW (Statement Of Work) AIDC and OLDIs capability.
Jordan	Yes	Indra	-OLDI/X.25 -OLDI/IPv6 (FMTP) -AIDC	No	Technical problem (Saudi Arabia and Egypt)	Yes	Unifying ICD for all States if possible

Lebanon	Yes	Raytheon - AUTOTRAC II	-OLDI/X.25 v2.3 - AIDC v2.0	No	Adjacent States not ready to implement (Cyprus and Syria)	Yes	We have been trying many times to coordinate with Nicosia to implement OLDI connection, and Mr. Gulam was trying to help in this respect without any response from their side.
Oman	Yes	Indra - ITECH	OLDI/IPv6 (FMTP)	No	Not applicable with Yemen Under process with (Jeddah, Tehran, Mumbai, Karachi)	No	
Yemen	No	-	-	-	-	Yes	-

APPENDIX D

AIDC/OLDI FOCAL POINTS

State	Name	Tel.	Fax	Mobile	Email
Bahrain	Mr. Mohamed Ali Saleh	+973 17 321 187	+973 17 329 966	+973 3962 2202	masaleh@caa.gov.bh
Egypt	Mr. Ahmed Abdel Rasoul M. Ahmed		+202 22685293	+2010 60241692	Raad_mourad@yahoo.com
Iran	Mr. Sayed Mahmood Mr. A. Khodaei	+98 21 66073534	+98 21 44665576	+98 9121483840	mirsaeed@airport.ir a-khodaei@cao.ir
Iraq					
Jordan	Mr. Mohammad Al Rousan	+962-6 4451665	+962-6 4451677	+962-6 4451677	m.rousan@carc.gov.jo
Kuwait	HAMAD ALNASER Naser Alhubail	+965 24760421	+965 24343417	+965 97652527	ha.alnaser@dgca.gov.kw , nj.alhubail@dgca.gov.kw
Lebanon	Amin Jaber	+961 1 628199	+ 961 1 629021		jabera@beirutairport.gov.lb
Libya					
Oman	Mr. Ali Al Ajmi	+968 24 518 448		+968 99 416 280	alihassan@caa.gov.om
Saudi Arabia	Eng. Khaled Mohamed Khodari	+966 126 717717 Ext. 1247		+966 55 5580714	kkhodari@gaca.gov.sa

Sudan	Mr. ELtahir Abdelatif Hassan	+249 183784925	+249 183784925	+249 123499352	eltahir5@yahoo.com
Syria					
UAE	Mr. Hamad Al Belushi	+971 2 599 6633	+971 2 599 6836	+971 50 616 4350	hbelushi@szc.gcaa.ae
Yemen					

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