Jordan Presentation
AIDC/OLDI

MOHAMMAD AL-ROUSAN
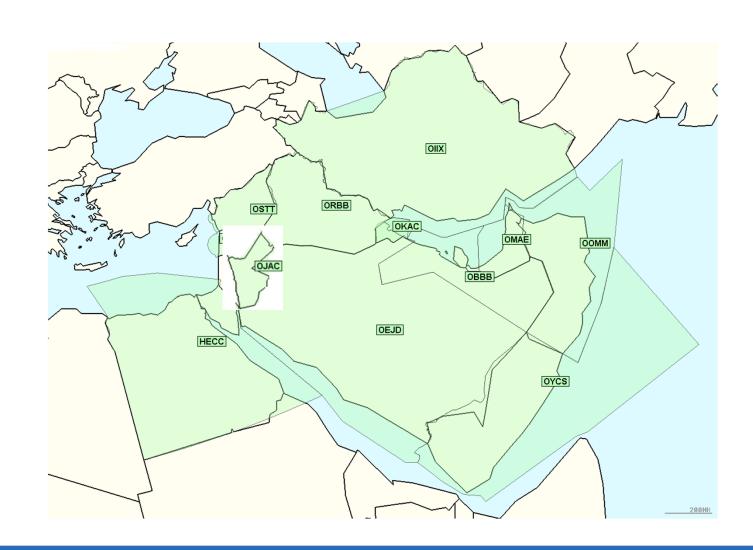## Surveillance and AFTN CHIEF

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(Cairo, Egypt, 3-5 March 2014)

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- Jordan FIR

- Available Surveillance

- System Capabilities

- Implementation Plan

- Challenges

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Jordan Air Space

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Available Surveillance

- Monopulse Secondary Surveillance RADAR MSSR RSM 970 From THALES Company (FRANCE)
- Has been installed since 1999
- The ATM system is EUROCAT 1000
- Simulator for training (part of Eurocat 1000)
- Kept as a backup system

Available Surveillance

- MODE S RADAR IRS-20MP/S from INDRA company (SPAIN)

- new automation system AirCon2100

- Has been installed since 2012

- Simulator for training (part of AirCon 2100) installed in marka airport

Available Surveillance

- ADS-B System SKYSURV from INTELCAN company (CANADA)

- Four station have been installed since 2012 at (SAFAWI,REESHA,AQABA AND MARKA)

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Current Systems Capabilities

- Our Aircon2100 (Indra) system has the capability to support both standards:

1- OLDI/X.25

2- FMTP (OLDI/IPv6)

3- AIDC

Current Systems Capabilities

- Support all type of ports (eg. serial, Ethernet)

- Support all type of protocols(eg. TCP/IP, X.25)

- Message format:

   - ICAO AIDC coordination Messages, according to ICAO 4444, and ICD of AIDC version 3.

   - ADEXP OLDI coordination Messages according to Eurocontrol OLDI version 4.1.

AIDC PARAMETERS

AHMS PARAMETERS

AFTN Origin Line1 :	
AFTN Password Line1:	
AFTN Ms Pa Line1 :	
AIDC Origin Line1 :	
AIDC Password Line1:	
AIDC Ms Pa Line1 :	
AFTN Origin Line2 :	
AFTN Password Line2:	
AFTN Ms Pa Line2 :	
AIDC Origin Line2 :	
AIDC Password Line2:	
AIDC Ms Pa Line2 :	

OLDI DATA FLOW

OLDI DATA FLOW(Messages)

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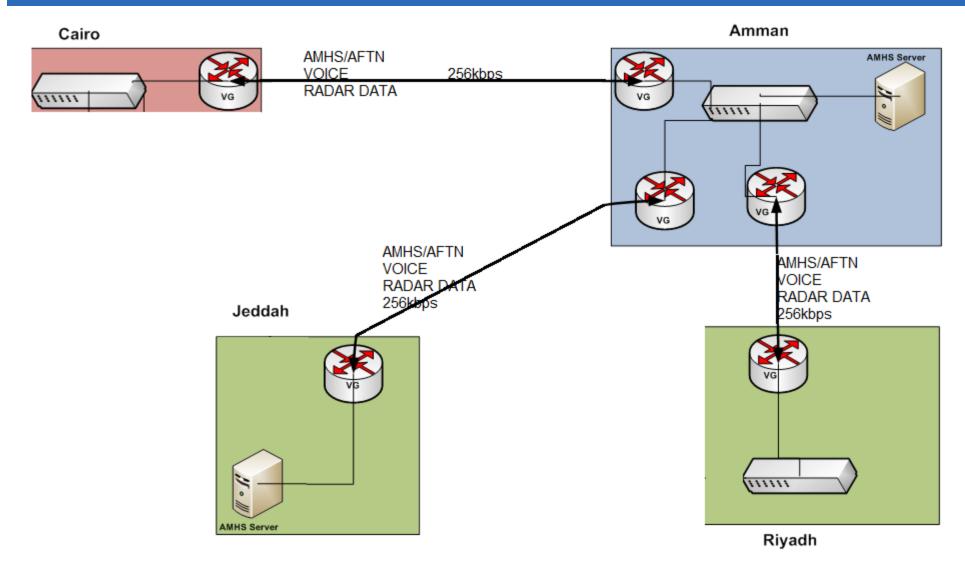- Implementation Plan
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Implementation Plan

1- Under the umbrella of Jordan Saudi Cooperation for Air Navigation Services, the two parties agreed to establish OLDI service between Amman and Jeddah Centers over the unified voice and data line, and to update the speed to **256** Kbps.

2- OLDI/AIDC connection with Cairo also planned in the near future

Implementation Plan

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Challenges

- Developing Letter of Agreement (LoA) to determine the appropriate parameters (type of protocol, number of messages, type of messages, time etc…).

- No regional Interface Control Document (ICD) for state about the AIDC/OLDI implementation

- X.25 is an obsolete technology and not supported by Jordan telecommunication provider anymore

Challenges

- Lack of training for controllers and technicians

- Testing and Validation of the AIDC/OLDI service to ensure the Data integrity and accuracy.

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Conclusion

- Jordan system has the capability to support both standard OLDI and AIDC

- AIDC can be implemented as a standalone system or over AMHS Network.

- Most of the MID States who are Implementing data exchange utilize OLDI/x.25 because of their European partner.

- A standard Template of a Letter of Agreement (LoA) between MID states is a key requirement for the successful Implementation

- Regional Interface Control Document (ICD) for AIDC Implementation should be developed.

- Introducing of a new facility like OLDI will require additional training for the operational and technical staff.

Thank you!