

Civil/Military Cooperation MID Region

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Presentation Outline

- Highlight on the MID Region
- MID Region Interfaces
- ASM Challenges
- SAR Challenges
- FRTO
- MIDANPIRG Initiatives
- Quick wins and savings
- Conclusions





The Middle East Region is composed of 15 States:

Bahrain, Egypt, I.R. Iran, Iraq, Jordan, Kuwait, Lebanon, Libya, Oman, Qatar, Saudi Arabia, Sudan, Syria, UAE and Yemen

ICAO MID Office is hosted by Egypt in Cairo since 1953.



Cyprus

Greece

Algeria

Chad

Malta

Niger

Tunisia

MID Region Interfaces



Tajikistan

Turkmenistan

Afghanistan

Pakistan

22 States/FIRs

Djibouti

India

Turkey

Eritrea

Ethiopia

Djibouti

South Sudan

India



Key attributes about the Region & Aviation



Revenue Passenger-Kilometers Per Billion

Middle East Aircraft Movements & Growth





Why civil/military cooperation is needed?



The Region is Running Out of Airspace Capacity, which has impact on;

Safety

- Environmental Footprint of Aviation
- Risk on the Growth of Civil Aviation and Its Contribution to National Economies
 The need to Enhance Inter-State Coordination
 to Ensure Seamless Operations and Optimal
 use of the airspace by all users (CIV and MIL)







SAR deficiencies in the MID Region





Aviation System Block Upgrades (ASBU) Free-Route Operations (FRTO)

Benefits:

- ✓ Applicable to en-route and terminal airspace.
- ✓ Benefits can start locally.
- ✓ The larger the size of the concerned airspace the greater the benefits, in particular for flex track aspects.
- ✓ Benefits accrue to individual flights and flows.
- \checkmark Application will naturally span over a long period as traffic develops.
- \checkmark Its features can be introduced starting with the simplest ones.

Challenges

- Complicated Airspace Structure
- Large military airspaces
- Security/unrest political situation
- Identification of specific routes to be implemented through the segregated airspace



B0-FRTO (MID Region)

| B0 – FRTO: Improved Operations through Enhanced En-Route Trajectories | | | |
|--|---------------|---|---------------------|
| Elements | Applicability | Performance Indicators/Supporting Metrics | Targets |
| Flexible use of airspace (FUA) | All States | Indicator: % of States that have implemented FUA Supporting metric*: number of States that have implemented FUA | 40% by Dec. 2017 |
| Flexible routing | All States | Indicator: % of required Routes that are not implemented due military restrictions (segregated areas) Supporting metric 1: total number of ATS Routes in the Mid Region Supporting metric 2*: number of required Routes that are not implemented due military restrictions (segregated areas) | 60% by Dec. 2017 |



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B0-FRTO·(FUA)·Status·of·implementation·in·the·MID·Region×





Main MID Region Initiatives addressing ASM issues

- ATS Route Network Optimization Project (ARNOP)
- > MID Route Development Working Group (MID RDWG)
- Advanced Inter-regional ATS Route Development Task Force (AIRARD TF)/ APAC/EUR/MID
- > Asia Pacific, AFI and MID and ATM Special Coordination meetings (AAMA)
- MID Region Civil/Military Support Team to conduct Workshops on Civil/Military Cooperation and FUA at National level based on State request
- > Regional and inter-regional events addressing Civil/Military Cooperation
- MID Region Flight Procedure Programme (MID FPP)
- > ATFM project
- MID Region ATM Contingency Plan
- MID Region SAR Plan
- MID Region PBN Implementation Plan



Main Objectives of the Initiatives

With the support of Civil-Military cooperation/FUA:

> Improve the Regional ATS Route Network with the aim to:

- ✓ Enhance Safety and Efficiency and
- ✓ Increase Airspace Capacity
- Foster Cooperation between States to Deliver a Seamless Air Traffic Management Provisions in the Region

Respond to crisis and contingency situation in an effective manner

The implementation of the MID Region ATM Contingency Plan and in particular the coordination through the Contingency Coordination Teams (CCTs) has demonstrated its successfulness in accommodating safely the re-routed air traffic. Several contingency routes established in an effective manner in coordination with all relevant authorities.



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Quick Wins & Savings















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Savings



Estimated Savings of ARNOP per YEAR Over Current Situation
2.7 Million Minutes of Flight Time
35 Million Tons of CO₂ Emissions



Conclusion











