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# Air Navigation Services Certificate

# ATM / airspace scope

| | City | Province | ICAO | IATA | Airport name |
|---|---|---|---|---|---|
| 1 | Dammam | Eastern | OEDF | DMM | King Fahd International Airport |
| 2 | Jeddah | Makkah (Mecca) | OEJN | JED | King Abdulaziz International Airport |
| 3 | Riyadh | Riyadh | OERK | RUH | King Khalid International Airport |
| 4 | Medina (Madinah) | Al Madinah | OEMA | MED | Prince Mohammad Bin Abdulaziz International Airport |
| 5 | Abha | 'Asir | OEAB | AHB | Abha Regional Airport |
| 6 | Buraidah | Al-Qassim | OEGS | ELQ | Prince Nayef Bin Abdulaziz Regional Airport |
| 7 | Jizan (Gizan) | Jizan | OEGN | GIZ | Jizan Regional Airport |
| 8 | Ha'il | Ha'il | OEHL | HAS | Ha'il Regional Airport |
| 9 | Tabuk | Tabuk | OETB | TUU | Tabuk Regional Airport |
| 10 | Ta'if | Makkah (Mecca) | OETF | TIF | Ta'if Regional Airport |
| 11 | Gassim | Gassim | OEGS | ELQ | Prince Naif Bin Abdulaziz airport |
| 12 | Yanbu | Al Madinah | OEYN | YNB | Yanbu Airport |
| 13 | NEOM Bay | NEOM | OENN | NUM | NEOM Bay airport |
| 14 | Al Bahah (Al-Baha) | Al Bahah | OEBA | ABT | Al-Baha Domestic Airport |
| 15 | Al-Hofuf, Al-Ahsa | Eastern | OEAH | HOF | Al-Ahsa Domestic Airport |
| 16 | Al-Jawf | Al Jawf | OESK | AJF | Al-Jawf Domestic Airport |
| 17 | Al Wajh | Tabuk | OEWJ | EJH | Al Wajh Domestic Airport |
| 18 | Arar | Northern Borders | OERR | RAE | Arar Domestic Airport |
| 19 | Bisha | 'Asir | OEBH | BHH | Bisha Domestic Airport |
| 20 | Dawadmi | Riyadh | OEDW | DWD | Dawadmi Domestic Airport |
| 21 | Gurayat (Qurayyat) | Al Jawf | OEGT | URY | Gurayat Domestic Airport |
| 22 | Hafar Al-Batin (KKMC) | Eastern | OEKK | HBT | Hafar Al-Batin Domestic Airport |
| 23 | Najran | Najran | OENG | EAM | Najran Domestic Airport |
| 24 | Qaisumah, Hafar Al-Batin | Eastern | OEPA | AQI | Qaisumah Domestic Airport |
| 25 | Rafha | | OERF | RAH | Rafha Domestic Airport |
| 26 | Sharurah | Najran | OESH | SHW | Sharurah Domestic Airport |
| 27 | Turaif | | OETR | TUI | Turaif Domestic Airport |
| 28 | Wadi al-Dawasir | Riyadh | OEWD | WAE | Wadi al-Dawasir Domestic Airport |

# ATM / Airspace scope

# 2018 - 2019

## Recent implementations

## in Jeddah FIR
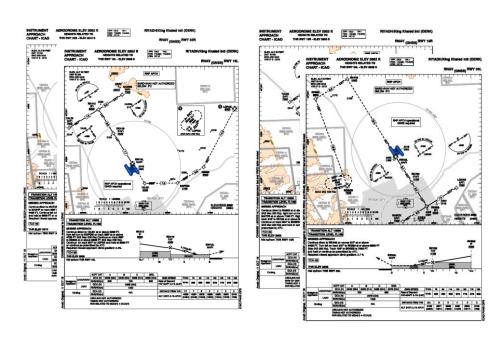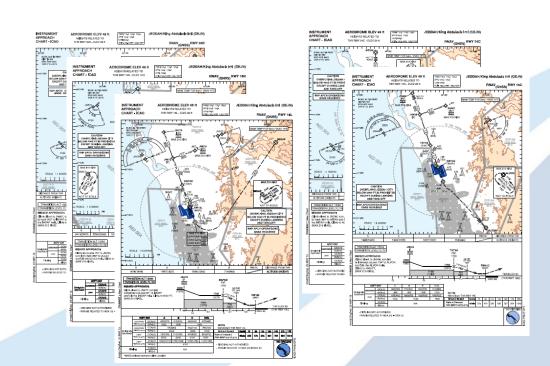
Recent implementations:

**OERK PBN**

Implemented in cycle 02/19

**OEJN PBN**

Implemented in Cycle 06/19

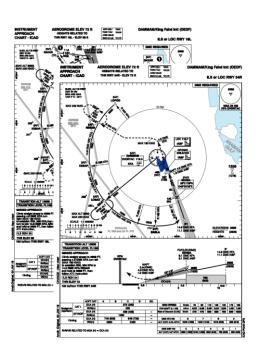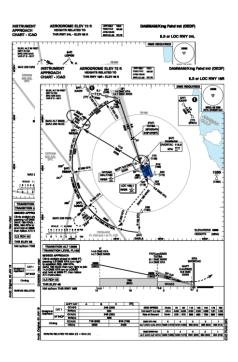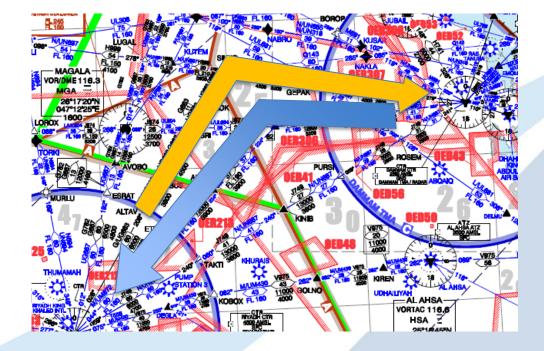# Recent implementations:

OEDF IAPs, including ILS Approach, down to Cat I minima,

- VORs relocation HFR TRF KFA,
- OERK OEDF interface,
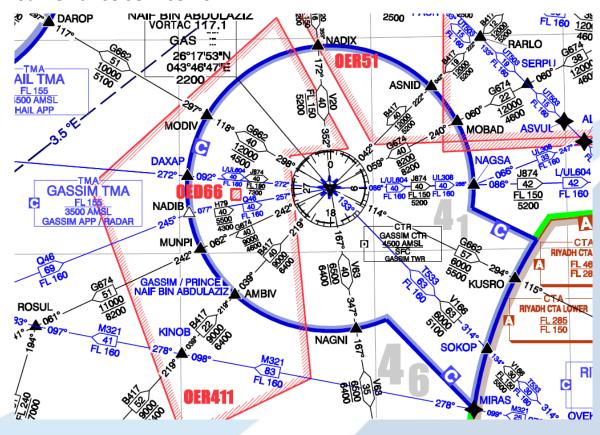
# Recent implementations:

## ATS Areas: TMAs

**OEHL**: establishment of TMA and implementing approach surveillance service 2018.

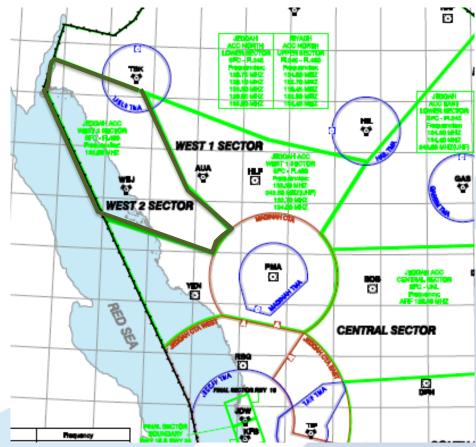**OEGS**: establishment of TMA and implementing approach surveillance service 2017.

# Recent implementations:

## West sector dynamic split

Implemented on cycle 07/19 to handle excessive amount of traffic.
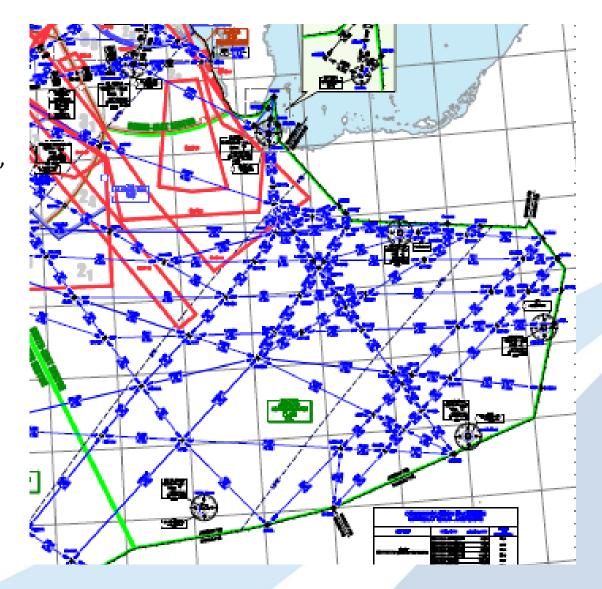
# Recent implementations:

## Empty quarter

- Routes flow changes,

- interfaces and LoA amendment (OMAE, OOMM),

- Surveillance enhancement,

- Communication enhancement.
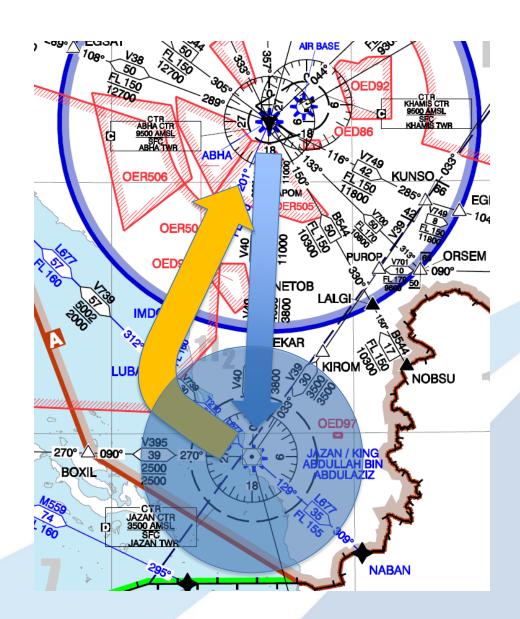
# Recent implementations:

## Interface between Jazan and Abha T210

As the traffic volume to and from Jazan OEGN airport has increased recently the need to segregate arrivals from departures,

- Phase I: apply flow control by coordination with the users,

- Phase II: establishment of two spaced routes, to segregate traffic,

- Phase III: establishment of TMA with Surveillance service expected in 2020.
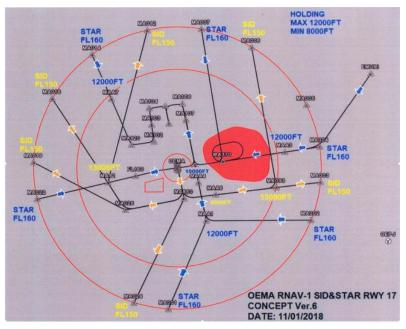
# 2019-2020

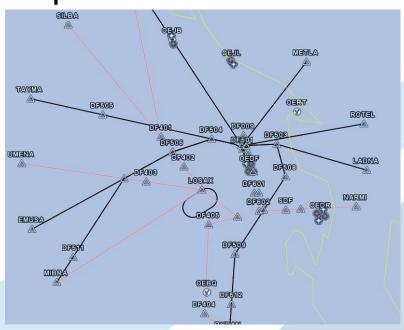## Ongoing implementations and targets in Jeddah FIR

## On going implementations and targets:

**OEMA PBN**

Is under revision expected in 2020.
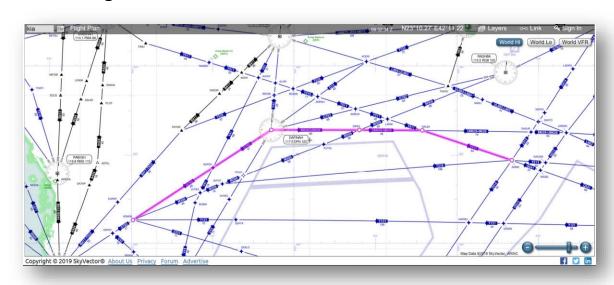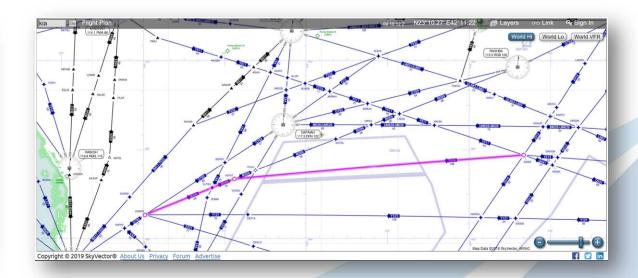


**OEDF PBN**

Under development expected in 2020.

# On going implementations and targets:

## FUA

| Airbase | Visit | Negotiation | Drafted LoA | Signed LoA | Publications |
|---|---|---|---|---|---|
| **Taif** | Done | Done | Done | Done | Done |
| **Aljouf** | Done | Done | Done | Done | On going |
| **HFR** | Done | Done | Done | Done | On going |
| **Riyadh*** | Done | Done | Done | Done | Planned |
| **KFAA*** | Done | Done | Done | Done | Planned |
| **Alkharj** | Done | Done | Done | Done | Planned |
| **Tabouk** | Done | Done | Done | 5 Dec | Planned |
| **Khamis Mushait** | Done | 60% | 40% | Planned | Planned |
| **Dhahran** | Done | 30% | 20% | Planned | Planned |

# On going implementations and targets:

**FUA**

Saving and carbon emissions:



**278.4NM**

**263.2NM**

**15.2NM/flight = Emissions 13.8 MKG/year**

# On going implementations and targets:

## Riyadh Airspace

- Establishment of new sector for the final director of approach.

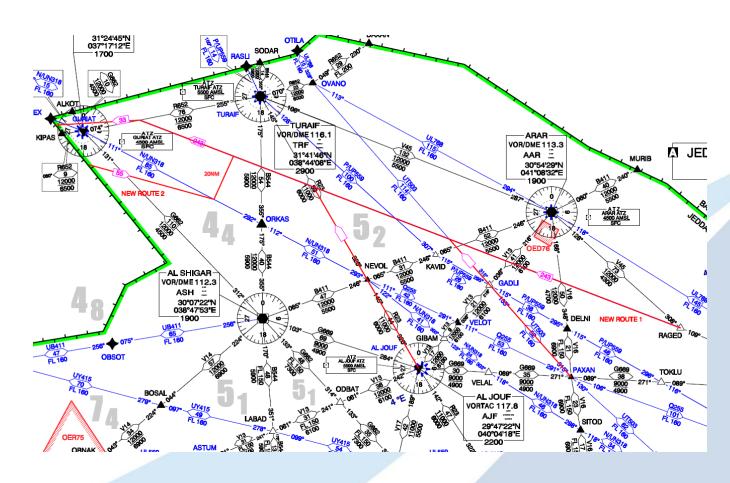- Re-sectorize the Riyadh CTA to be north and south split.

## Traffic exchange (Jeddah – Amman)

After many proposals from both sides, finally we agreed on a scenario that will extend almost to 200NM, to ensure that the project is comprehensive and covering the main traffic stream.
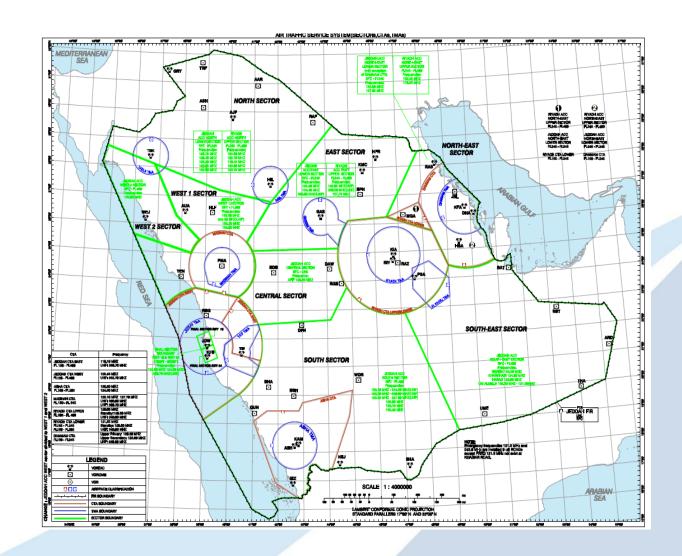
Jeddah and Amman have organized a side bilateral meeting to finalize and agree on implementation.

# On going implementations and targets:

## Other related projects

**Removal of prefix U**

**Upper limit FL600**
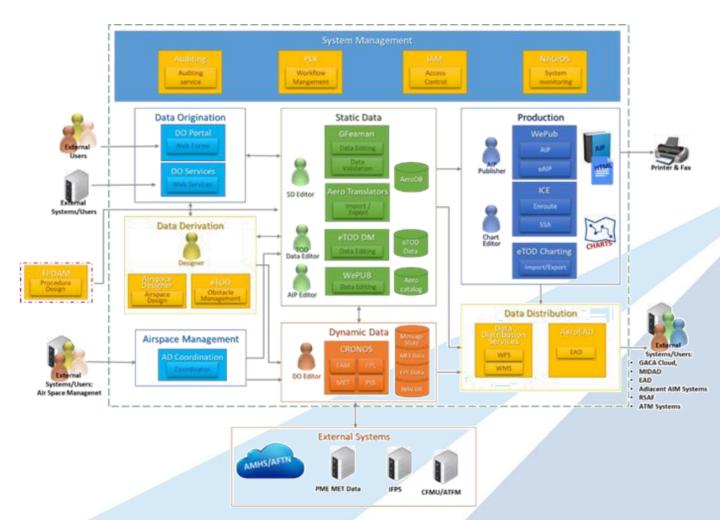
# On going implementations and targets:

## AIM system upgrade and ATM tools

- AIXM 5.1 Data format,

- Centralized DB and data management,

- Interfaces with ATM system, IFPS and other external data originators,

- Airspace modular,

- Airspace coordination tool,

- Air Navigation Register ANR.
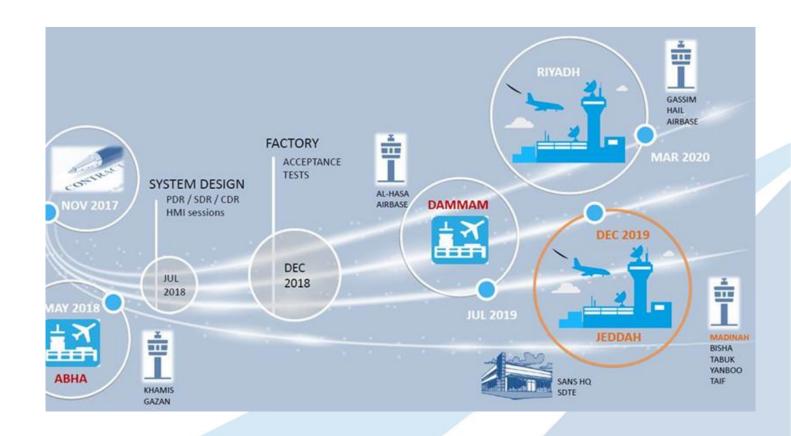
# On going implementations and targets:

ATM system:

- Two main locations,

- Two sub-location,

- 24 controller position,

# On going implementations and targets:

## IFPS

- 2 locations

- Phase 1: National level

- Launch in March 2020

# On going implementations and targets:

## Contingency plan

- Plan:

  Assess the possible **scenarios and the impact** on traffic flows and capacity.

- Measures:

  Establishment new **procedures and responsibilities** counting for all stakeholders.

- Routing Options:

  Evaluate routing for this contingency to **accommodate the volume** of traffic.

- Publications:

  Contingency routing publication, and available **routing options.**

- Safety Risk Assessment:

  A safety workshop was conducted to **identify and mitigate potential hazards**.
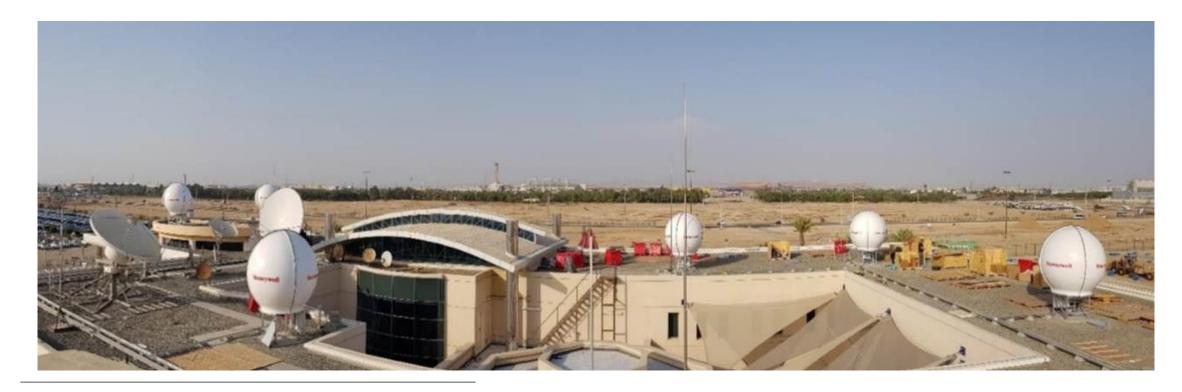
# On going implementations and targets:

SAR

MEOLUT 4034 DCA radius of 2600 KM

Nov 2019 Cospas-Sarsat council approve the commissioning of the Saudi MEOLURT (4034)

# Jeddah FIR ASBU update

| Performance Improvement Areas (PIA) 1: Airport Operations | | | | |
|---|---|---|---|---|
| Module Code | Module Title | Elements | Implementation Status | Remark |
| B0 – APTA | Optimization of approach Procedures including vertical guidance | LNAV | Airport wise 75%(OEJN, OERK & OEMA) RWY end wise 76% (13/17) | OEDF (In Year 2020) |
| | | LNAV/VNAV | Airport wise 50%(OEJN & OERK ) RWY End wise 53% (9/17) | OEMA & OEDF ( In Year 2020) |

| Performance Improvement Areas (PIA) 3 Optimum Capacity and Flexible Flights – Through Global Collaborative ATM | | | |
|---|---|---|---|
| Module Code | Module Title | Elements | Implementation Status |
| B0 – FRTO | Improved Operations through Enhanced en-Route trajectories | FUA Level 1 Strategic | 33% of Air Force bases |
| | | FUA Level 2 Pre-tactical | - |
| | | FUA Level 3 Tactical | - |
| B0 – SNET | Increased Effectiveness of Ground-based Safety Nets | Short-term conflict alert (STCA) | Implemented |
| | | Minimum safe altitude warning (MSAW) | Implemented |

priority 1, ATM related

# Jeddah FIR ASBU update

| Performance Improvement Areas (PIA) 4 Efficient Flight Path – Through Trajectory-based Operations | | | | |
|---|---|---|---|---|
| Module Code | Module Title | Elements | Implementation Status | Remark |
| B0 – CDO | Improved Flexibility and Efficiency in Descent Profiles (CDO) | PBN STARs | Airport wise: 75% (OEJN, OERK & OEMA) RWY end wise: 77.8%(14/18) | OEDF (In Year 2020) |
| | | International aerodromes / TMAs with CDO | TMA wise: 75% (OEJN, OERK & OEMA) | OEDF (In Year 2020) |
| B0 – CCO | Improved Flexibility and Efficiency Departure Profiles - Continuous Climb Operations (CCO) | PBN SIDs Intl | Airport wise: 75%(OEJN, OERK & OEMA) RWY end wise: 77.8%(14/18) | OEDF (In Year 2020) |
| | | ADs / TMAs with CCO | TMA wise: 75% (OEJN, OERK and OEMA) | OEDF (In Year 2020) |