



AIRPORTS COUNCIL
INTERNATIONAL

Connecting APOCs to the ATM Network

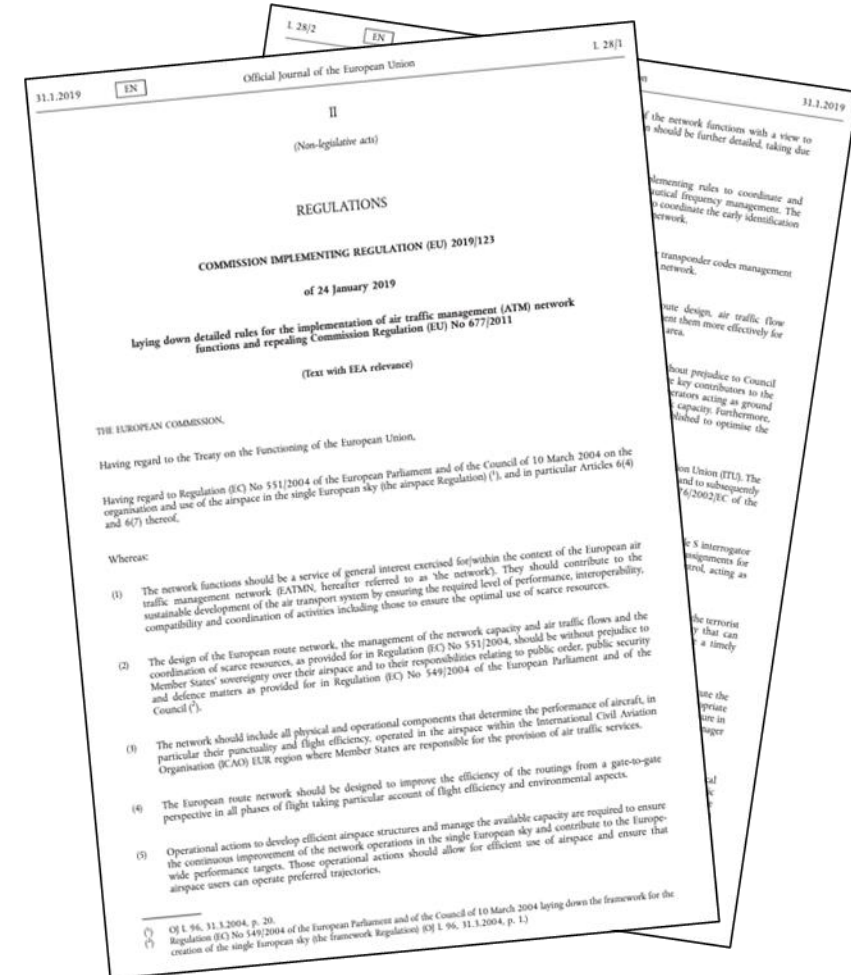
APOC Exchange

10 Mar 2025

Rick Mernock – ACI EUROPE

Why do airports need to connect?

- 'Airports are a component part of the European ATM Network' as stated in Commission Implementing Regulation (EU) 2019/123.
- Airports are the Nodes of the Network.
- The 'network' supports the movement of aircraft from one airport to another.
- Capacity is not infinite. Airports have limitations as does the network.
- Connection, like communication is two-way.



Let's keep it simple

- Definition of an APOC:-



Copilot

An **Airport Operations Centre (APOC)**, also known as an **Airport Operations Control Center (AOCC)**, is the central hub of an airport where various activities are coordinated to ensure the safe and efficient functioning of the airport. Here are some key functions and roles of an APOC:

1. **Air Traffic Management:** Monitoring the movement of aircraft on the ground and in the airspace surrounding the airport to ensure safe and orderly flow of air traffic^①.
2. **Resource Allocation:** Managing airport gates, aircraft parking stands, and runway capacity to minimize delays and reduce congestion^①.
3. **Real-time Decision-making:** Operating 24/7 to respond promptly to changing circumstances and ensure seamless airport operations^①.
4. **Communication and Coordination:** Serving as the central point of communication between airlines, ground handling services, customs, security, and other airport agencies^①.
5. **Safety and Compliance:** Ensuring compliance with aviation regulations and maintaining a safe operating environment^①.
6. **Crisis Management:** Coordinating the airport's response during emergencies or crises^①.

The APOC plays a crucial role in managing the complexities of airport operations and responding to dynamic challenges that arise on a day-to-day basis^②.

- The collaborative decision making entity for airport operations. Single point of input and output.

Let's keep it simple

Airports are one of the three aviation 'asset owners'

- Airports The fixed asset
 - Airlines The moving asset
 - ATC The facilitating asset
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- Airports APOC (AirPort Operations Centre)
 - Airlines OCC (Operational Control Centre)
 - ATC ACC (ATC Control Centre)

How do we connect?

- Data Communication

A-CDM

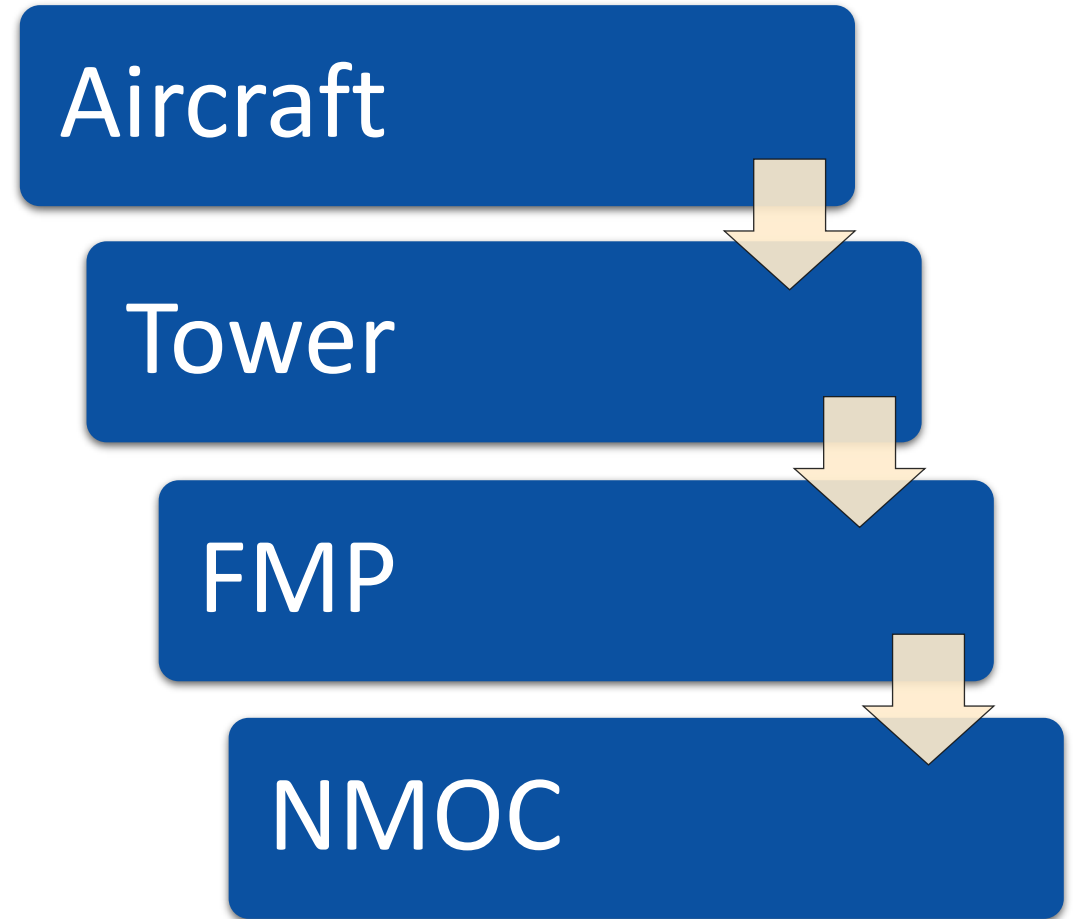
iAOP

eAOP

AOP – NOP
Integration

How do we connect?

- ATC Verbal Communication



How do we connect?

- Airport / Network Tactical Communication

APOC to NMOC

NMOC to APOC

NMOC Airport Function

The Airport Operators
'network help desk'

Single point of contact
APOC-NMOC

Single point of contact
NMOC-APOC

Communicate the
Airport Operator's view
to the CDM process of
Network Management

Supports Airport
Operators in managing
their operation

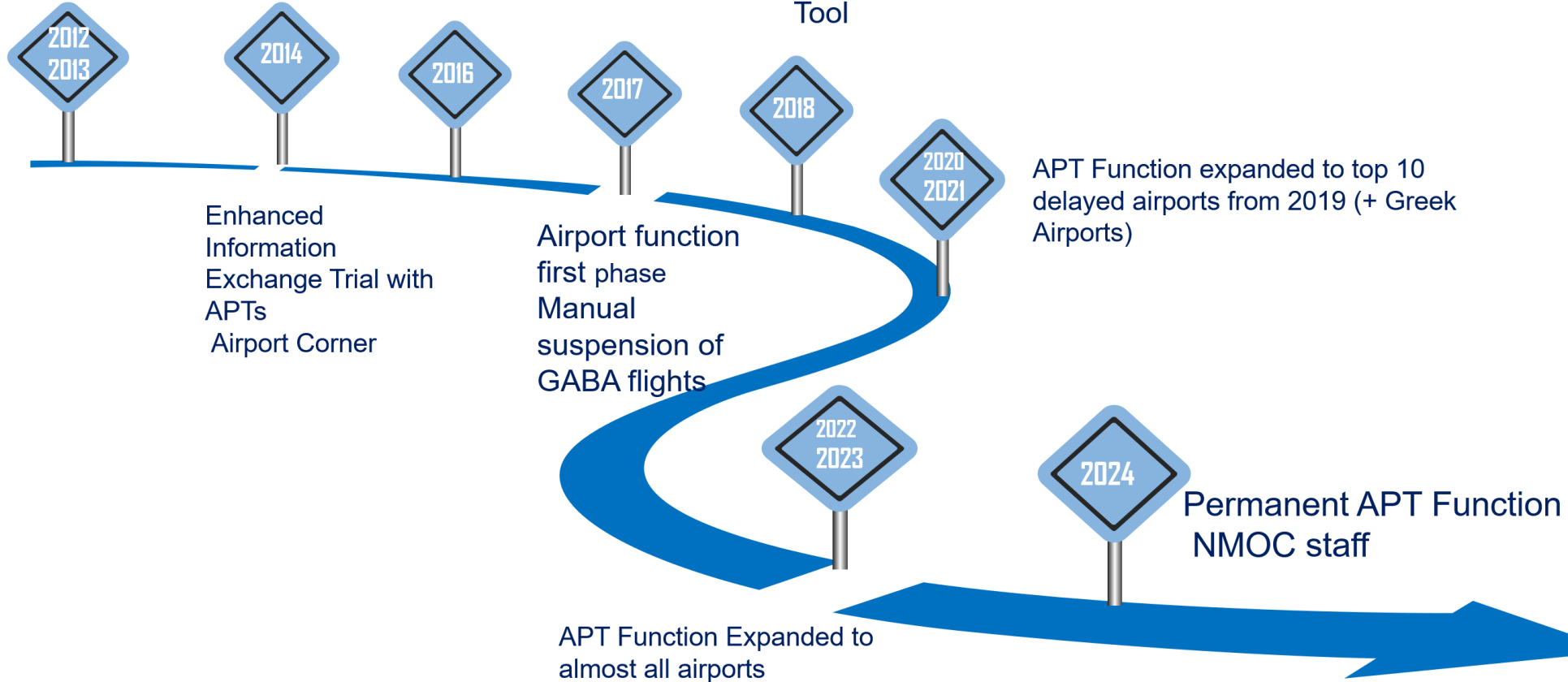
Provide the best
tactical service to the
Airport Operator

NMOC Airport Function

Hellenic Airports Procedure
Arrivals Punctuality and
Airport Slot Adherence

Airport Position
first trial
Greek Islands

Airport Corner
Diversion Capability
Tool



NMOC Airport Function

AF Position

- Since summer 2021 an all-year-round service.
- Working position in the centre of the NMOC.
- Back-office up to D-2.
- Ops Room D-1 & Tactical.

Focus windows

- Seasonal
- 8 weeks to 2 weeks
- D-14 to D-2 day
- D-1 and D0 (pre-tact / tactical)



Seasonal Coordination

- Monitoring of 190+ Coordinated and Facilitated airports (EUACA data) plus working closely with larger non-coordinated airports.
- Preparing seasonal operational plans.
 - Summer Greek islands
 - Winter ski destination
- Event planning.
 - World Economic Forum
 - Head-of-State visits
 - Sporting events (Football, Olympic Games)
 - Close relationship with UEFA
- Engagement with the GABA community.



Daily Tasks



Pre-Tactical phase (D-1)

- An Airport D-1 DCB report is provided to NMOC Pre-tact highlighting airport where expected demand exceed the published arrival capacity.
- Actions are reviewed in NMOC briefings and including any advance weather info, revised and prepared for implementation.
- Airport Operators and other stakeholders are informed and the Airport Function is prepared for implementation of actions allocated to it.

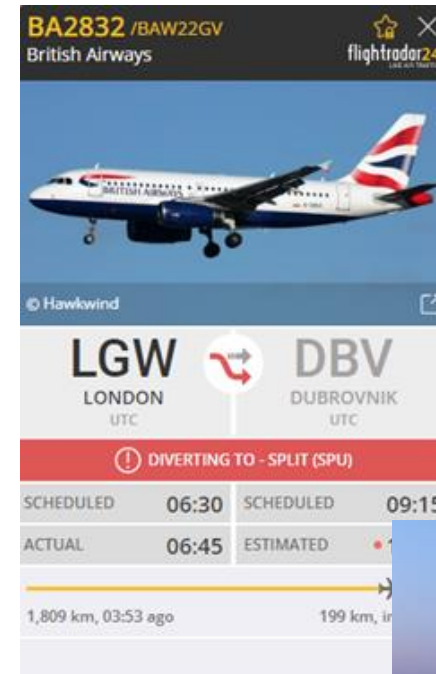


Tactical phase (D0)

- First Rotation prioritization.
- Monitoring of airport slot adherence (when requested by the relevant authority).
- Identification of problematic flights.
- Prediction & mitigation of night curfew issues.
- Support to airports & mitigation of delays.
- Coordinate with airports when adverse operating conditions or special events.
- Support to seasonally small airports (e.g. Greek Islands).
- Monitor Airport Corner Events.
- Airport Hotline.

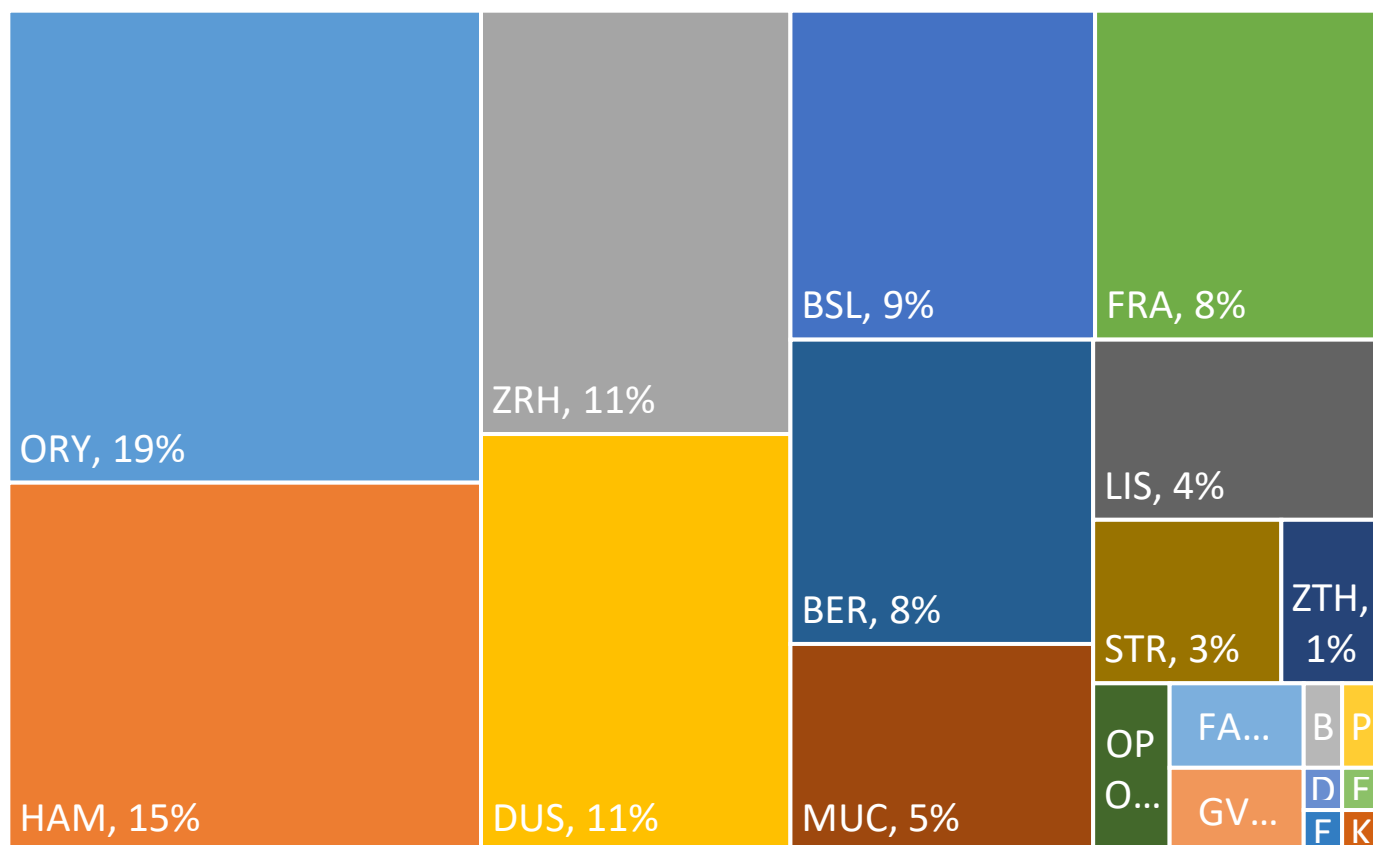
Airport Curfew Watch

- Airport Function monitors the flow of aircraft throughout the day and will identify evening arrivals that are at risk of a curfew infringement.
- Focus on airfields with known 'hard' curfews.
- Liaise with Airport Operators.
- Look for ATFM improvements and coordinate with NM Flow.



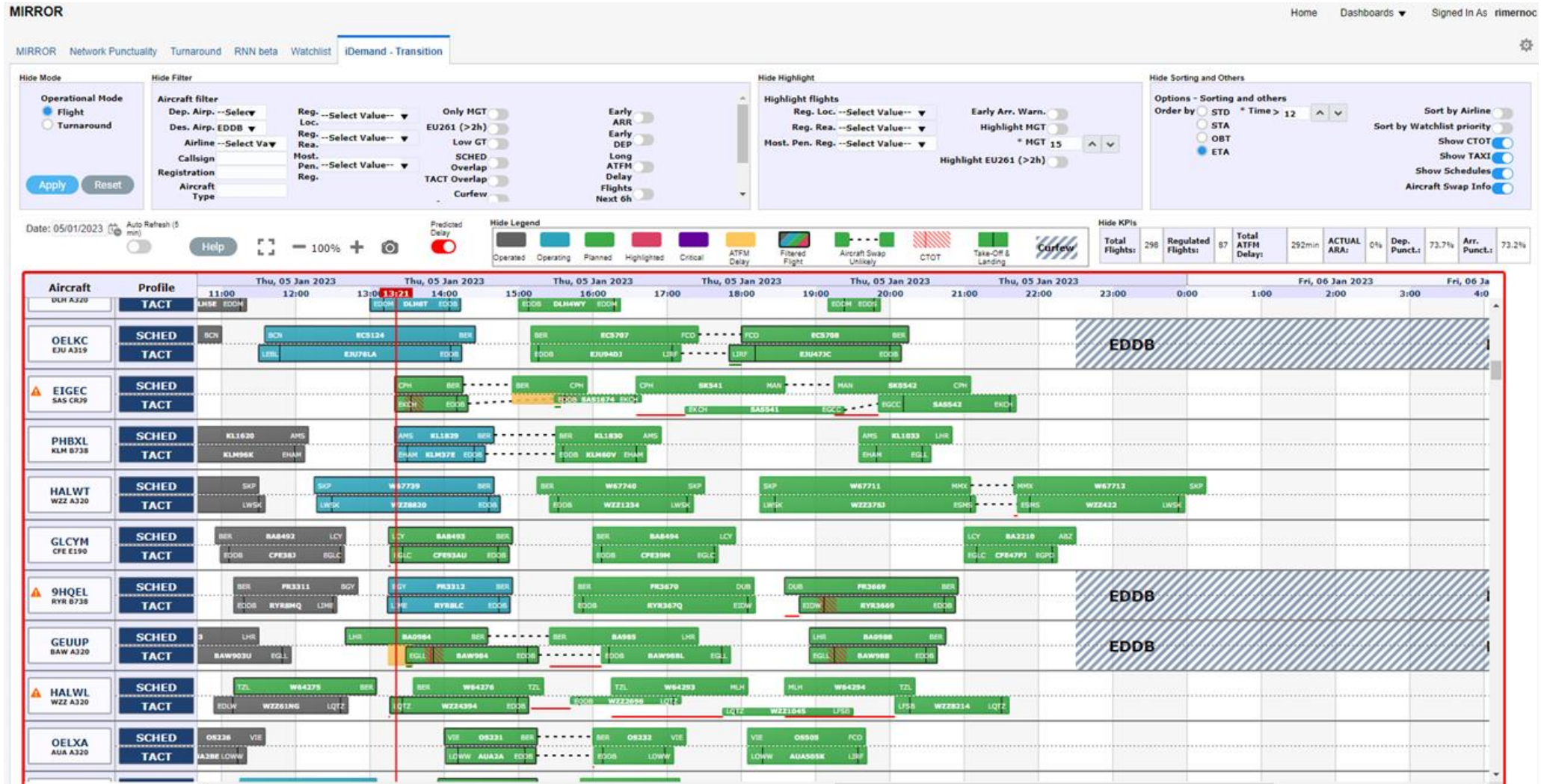
Airport Curfew Watch

Jun-Aug 2023 share of Airport Function night curfew alerts by airport




- On 78 days (out of 92) curfew alerts were sent out.
- On average 9 alerts/day (excl. days without alerts).
- 10 airports generated +95% of the curfew alerts.

Airport Function Tools (MIRROR)



Airport Function Tools (Airport Corner)

- Contacts (phone / email)
- Runway capacity
- Events




Airport Corner
Data Services


Contacts

STRATEGIC EVENTS DIVERSION CAPABILITIES CONTACTS SERVICES

Airport: **EGLL / LHR - London Heathrow** (last update date: 24/05/2023 18:04 UTC)

Local

Airport Chief Executive Officer (CEO) / Managing Director 

 Confidential
Yes

STRATEGIC EVENTS DIVERSION CAPABILITIES CONTACTS SERVICES

EHAM / AMS - Amsterdam Schiphol

Ongoing

Title	Description	Start Date (UTC)	End Date (UTC)	Impact(s) ?
RWY 18L-36R closed due to maintenance	RWY 18L/36R closed due to maintenance + Taxiways closed; TWY E2, TWY E3, TWY E4 btn B/E5 and TWY G4.	22/05/2023 05:00	31/05/2023 17:00	Yes

Not Started

Title	Description	Start Date (UTC)	End Date (UTC)	Impact(s) ?
RWY 18C-36C closed due to maintenance	RWY 18C/36C closed due to maintenance on Thursday and Wednesday between 1330-2030 UTC. If the runway is needed; NT 2 hours.	01/06/2023 13:30	02/06/2023 20:30	No
Due to major maintenance RWY 06/24 CLSD	major maintenance of RWY 06/24	02/2024	04/2024	No information reported

APOC-NMOC-APOC Communication

Anything that is happening on airport that will affect the network.

Anything that is happening in the network that will have an affect on the airport.

Regular tactical updates (verbal comms).

Collaborative planning for next days.

Airport Operators have a direct input to the tactical decisions of NMOC.

Supplements the formal ATC communication lines.

Additional information about an event or situation.

Common situational awareness (MIRROR tool).

Airport Operator NM Weekly Briefing

- A verbal briefing presentation is scheduled every week
- Every Thursday at 15:00 CET during the summer season.
- Bi-weekly verbal / virtual briefing during winter season
- These briefings do not last more than 30 minutes. Airports are strongly encouraged to attend. Any request for invitation can be addressed to
- nm.airports@eurocontrol.int or bruno.desart@eurocontrol.int
- A pdf briefing report is updated every week and available for download on the Airport Corner and Airport Corner for Airlines.

NMOC Airport Function – Summer 2025



Airport Function Key to integrate Airports

- Permanent NMOC Position
- New Validation integrated within NMOC Competency Scheme



Airport Function Consolidation

- Direct access to NM systems (ETFMS, NOP, SIMEX, MIRROR, etc)
- Enhanced support to Airports
- Provide assistance to AOs
- Expand Daily tasks: A-CDM issues, Diversion Capability, Cross-border Wx



Added value: **Airports Operations Expertise** in NMOC.

- Airport Function Position is available 0600-2200 CET all year.
- NM.Airports@eurocontrol.int
- Airport Hotline: +32 2 729 1190 / VCS: +32 2 745 1903

Thank you

www.aci-europe.org

www.airportcarbonaccreditation.org

