



Network Manager
nominated by
the European Commission



Overview of the Network Manager activities

ATFM TF/1

Director Network Management

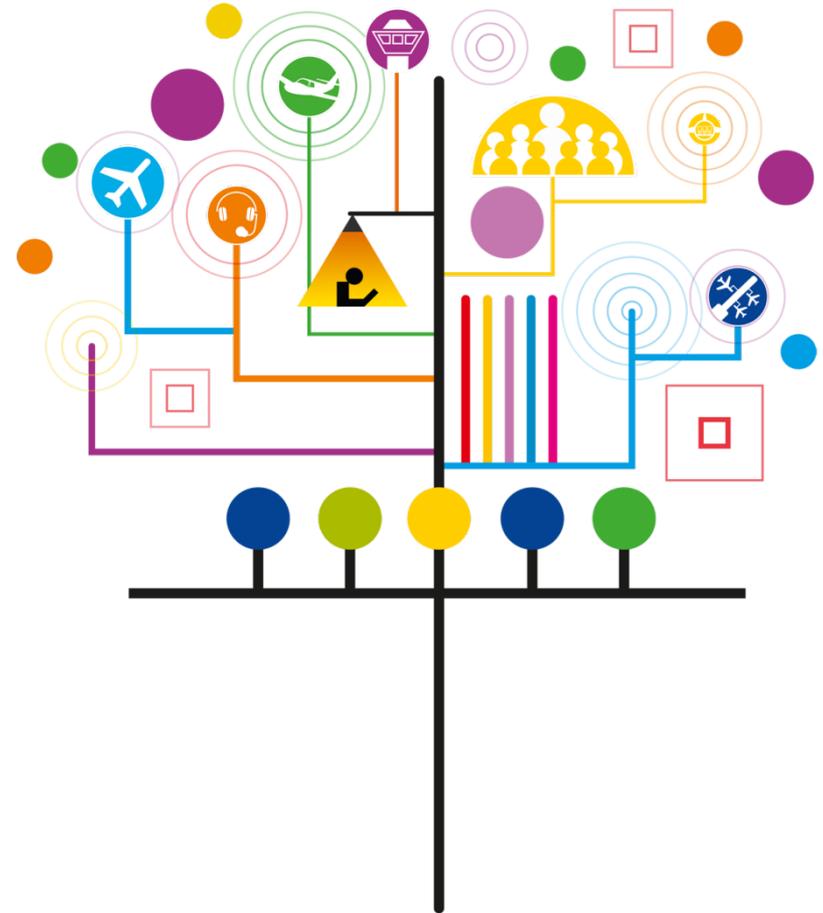
September 2018

The Network Manager

EUROCONTROL nominated Single European Sky Network Manager July 2011

Main role:

- optimise European ATM Network's operations with ANSPs and airports;
- ensure that European ATM meets the performance targets set by EC for SES
- provide a consolidated and coordinated approach to all planning and operational activities of the Network
- enable and deliver added operational performance (capacity, delay reduction, environment, flight efficiency, minimum emissions, ops safety, cost-effectiveness)



Connecting the network for improved performance

Network Management and Network Manager

- Network Management involves:
 - ~2000 airspace users
 - ~ 500 airports
 - 9FABs, 40 European ANSPs, ~70 ACCs, ~700 ATC enroute sectors, ~29000 flights/day
 - Global/interregional operational links
 - Network Manager
- The Network Manager (NM) has:
 - Key role in Flow management (coordinating & applying ATFM measures)
 - Influence on capacity planning and management (CDM)
 - Key role in airspace design, planning and use (including military)
 - Formal role in scarce resources management (R/F spectrum, SSR codes)
 - Key role in crisis management
- The NM
 - is designated by the EC
 - reports to and works under industry-led NMB governance

The Eurocontrol Network Manager is the operational pillar of the Single European Sky

The Network Manager Factsheet



Legal Basis

EUROCONTROL
nominated since
July 2011

NM defined by
EC regulation
N°677/2011

Amended by
EC regulation
N°970/2014

Other regulations:
Performance Scheme (390/2013)
Flight Planning (1033/2006)
ATFM (255/2010) ...

Until end 2019,
Seeking
re-designation for
RP3 & RP4



Organisation

Staff: 437 FTE
Operations: 154
Systems: 130
Planning: 66

Annual budget:
€164 million
+ €35 million costs from past
(e.g. pensions)

Sites:
Brussels &
Brétigny-sur-Orge



Scope

NM delivers ATM performance to the pan-European network
in the areas of safety, capacity, environment, flight efficiency
and cost-effectiveness

Functions:
ATFM - European Network Route Design - Scarce resources (TCF & RFF)
Airports - Operational safety – new systems



Governance & Oversight

Governance:
NMB
SSC

EASA has oversight on behalf
of the EC:
3-year cycle; annual report

EASA common requirements regulation:
NM is a pan-European ANSP obliged to obtain
certification by January 2020



Figures

NM area EU/non-EU
average daily flights
+/-29.000

Max Nb of flights yearly
36.000

Delay average 0,88 min

Minutes saved yearly
1.5 mil

Accommodating the growth

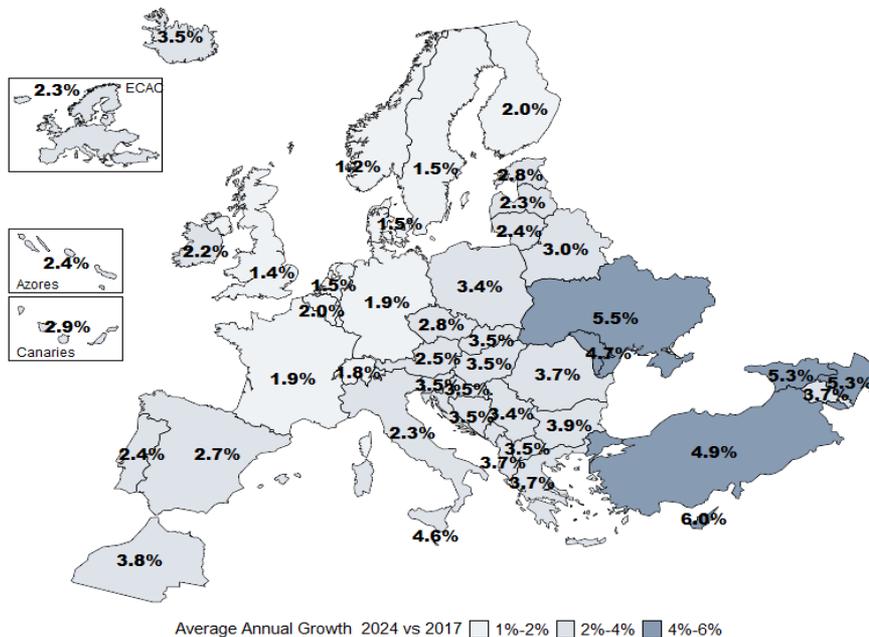


Network efficiency to deliver the growth



Airport integration for Network benefit

FLIGHT FORECAST BY 2024



Network planning to anticipate the growth



Safety Network knowledge to sustain the growth through - Safety System Focus



Manage optimally the Network disruptions and crisis

Pan-European Dimension

Ensuring that it meets its mission and priorities, the Network Manager relies on working closely with ANSPs, airports, civil and military airspace users **across the airspace of 43 States.**

Its Pan-European global view:

- Promotes the EU aviation strategy to the widest possible European scope
- Exports SES standards to non-EU states which have not yet signed agreements with the EU
- Ensures global consistency and interoperability
- Establishes a common cooperation framework
- Achieves international reach to ICAO, FAA and others

The Eurocontrol Network Manager has global reach through a concrete policy of concluding agreements with 3rd country Air Navigation Service Providers - **providing a concrete platform for global ATM cooperation**

Agreements with 3rd country ANSP providers

The EUROCONTROL Network Manager currently has agreements with 19 non-EU non-EUROCONTROL States

The Network Management Board has already provided in principle approval for agreements with :

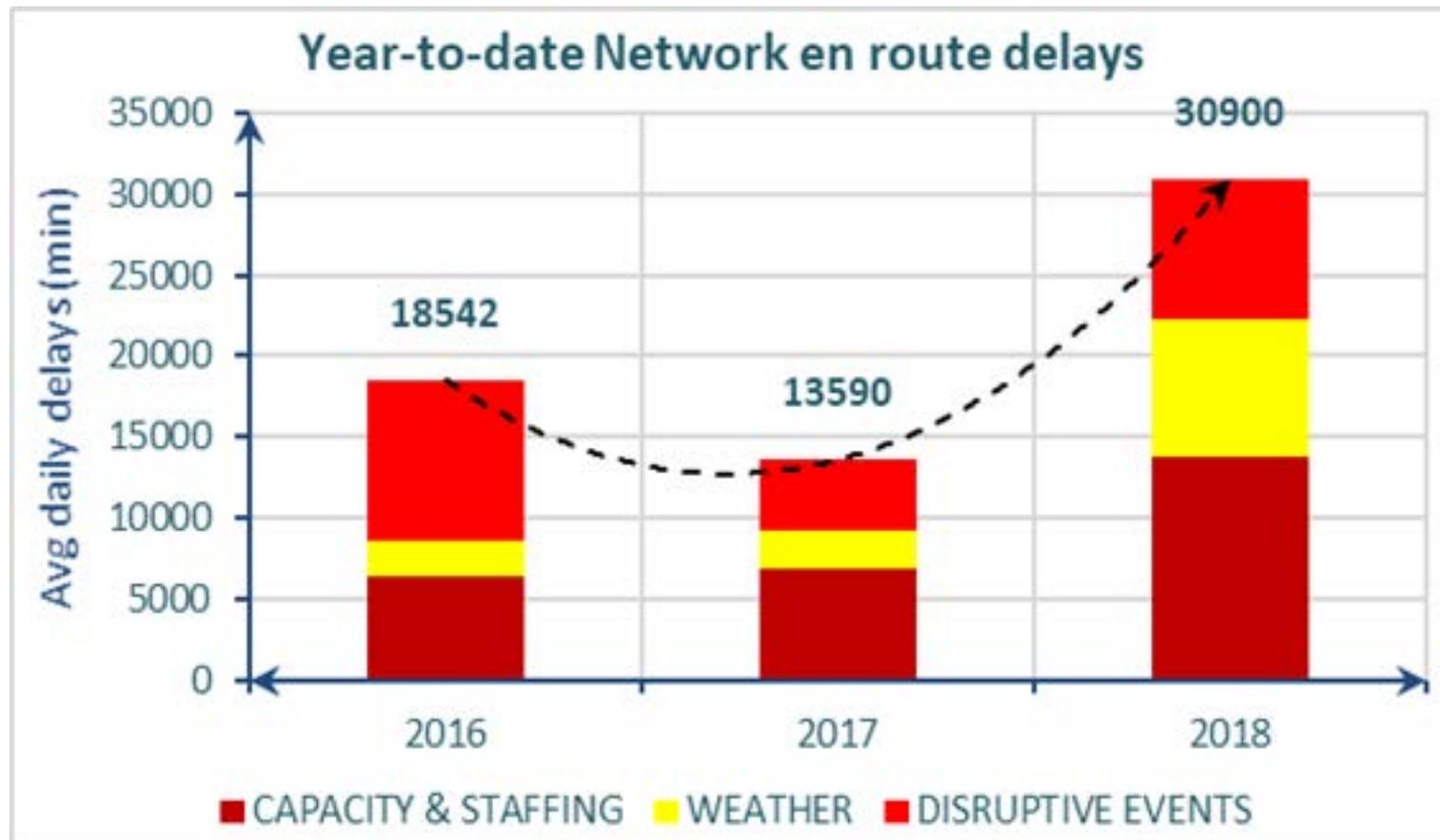
- USA (FAA)
- Algeria (ENNA)
- Tunisia (OACA)

The Network Manager has also been invited by the EC to initiate dialogue for a future cooperation with Azerbaijan (AZANS)”

Current topical issues

- Summer lack of capacity; Karlsruhe, strikes, weather
- Full implementation of Free Route airspace across Europe
- SJU Airspace study - Q4 /18
- EASA findings following NM system outage: complete stop on development/testing impacting operations, CAPs discussed with EASA - end May
- NMD reorganisation following new Network Functions and increase in scope for NM
- Ectl response to renomination proposal

Network enroute delays



Enroute delays Jan – May: 2016 – 2017 - 2018

NM Strategic issues

- Update of Network Functions Regulation in 2018
- Needs more teeth to drive Network ops concepts/ capacity improvements; local measures without assessment of network effects counterproductive
- Integrate/host common network support services
- Redesign NM technical platform - ready for SESAR deployments
- Long term investment programme (2020 - 2029) financed through loans

In 3 years time

- With stronger mandate for RP3, NM taking leadership of definition/implementation capacity/delay network solutions, flight efficiency
- Start of new network technical system development
- New enhanced EAD
- Global model for regional NM role
- Full CNS infrastructure monitoring
- Common network support services operational
- Staff regeneration in full swing
- Efficiencies to repay investment loan

SES and the Network Manager

- NM the heartbeat of the SES
- Evolving network ops concepts, network connectivity systems
- Delivering cost efficiencies to the users
- Impartial and transparent activities in the interest of network efficiency
- NM – delivering its responsibilities to the Single European Sky, to date and in the future

THE NETWORK MANAGER IN 2017

CONNECTING THE NETWORK TO DELIVER IMPROVED PERFORMANCE

ATFM EN-ROUTE
DELAY TARGET SET
FOR REFERENCE
PERIOD (RP)2:

0.5 MINUTE
PER FLIGHT

2017
0.88 MINUTE
PER FLIGHT

AIRSPACE DESIGN & CAPACITY PLANNING

WE WORK WITH ALL OUR STAKEHOLDERS TO TACKLE BOTTLENECKS, CREATE AN EFFICIENT, FLEXIBLE AND DYNAMIC AIRSPACE STRUCTURE AND TO EXTRACT MAXIMUM CAPACITY FROM THE NETWORK

OPERATIONS CENTRE

- KEEPING THE NETWORK RUNNING 24/7
- REDUCING DELAYS
- CIVIL-MILITARY COORDINATION
- WORKING TO REDUCE WEATHER IMPACT (WEATHER IS A MAJOR CONTRIBUTOR TO ATFM DELAYS)

2017: ANOTHER
RECORD YEAR WITH
10.6 MIOS FLIGHTS
(A 4.4% INCREASE
COMPARED WITH 2016)

ENVIRONMENT
MINIMISING FUEL BURN
AND EMISSIONS

THE NETWORK	
3.49	MILLION PASSENGERS PER DAY
29,057	FLIGHTS PER DAY
4,500	AIRSPACE USERS
530	AIRPORTS
68	CONTROL CENTERS
43	EU / NON-EU STATES

AIRPORTS IN THE NETWORK

AIRPORT COLLABORATIVE DECISION MAKING
AIRPORTS WORK BETTER WHEN ALL SERVICES, FROM ATC TO BAGGAGE-HANDLING, ARE CONNECTED WITH EACH OTHER AND THE NETWORK

AIR TRAFFIC FLOW MANAGEMENT

WE BALANCE DEMAND AND AVAILABLE CAPACITY, AVOIDING INFLIGHT HOLDING AND OVERLOADED SECTORS

NETWORK PLANNING

- NETWORK STRATEGIC PLAN
- NETWORK PERFORMANCE PLAN
- NETWORK OPERATIONS PLAN

MANAGE SCARCE RESOURCES

ENHANCED FREQUENCY MANAGEMENT PROCEDURES & TOOLS TO REDUCE THE TIME & COST OF SATISFYING NEW FREQUENCY REQUESTS

DATA SHARING

AERONAUTICAL SERVICES
• PROVIDING INFORMATION FOR THE FLIGHT: FROM AIRSPACE CLOSURES TO WEATHER

SAFETY

- MITIGATING THE TOP 5 OPERATIONAL SAFETY ISSUES IN THE NETWORK
- SUPPORTING SAFE OPERATIONS ACROSS EUROPE

CRISIS MANAGEMENT

WE COORDINATE THE MANAGEMENT OF RESPONSES TO ANY CRISIS WHICH IMPACTS ON AVIATION IN EUROPE

THE NETWORK MANAGER CARRIES OUT AIR TRAFFIC MANAGEMENT NETWORK FUNCTIONS FOR THE EUROPEAN COMMISSION, ON BEHALF OF EUROCONTROL WHICH WAS NOMINATED FOR THIS TASK. WORKING WITH ITS STAKEHOLDERS, THE NETWORK MANAGER DEVELOPS AND RUNS THE EUROPEAN ATM NETWORK (COVERING 43 COUNTRIES), WITH THE AIM OF MEETING THE SINGLE EUROPEAN SKY'S PERFORMANCE TARGETS.