



Network Manager
nominated by
the European Commission



Session 10: Regional Contingency Planning

Role of Network Manager in Europe

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THE NETWORK MANAGER IN 2015

CONNECTING THE NETWORK TO DELIVER IMPROVED PERFORMANCE



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**ATFM DELAY
TARGET SET
FOR RP2:**

0.5 MINUTE
PER FLIGHT

2015
0.73 MINUTE
PER FLIGHT

AIRSPACE DESIGN & CAPACITY PLANNING

WE WORK WITH ALL OUR STAKEHOLDERS TO TACKLE BOTTLENECKS, TO 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 AT >40% (IT IS A MAJOR CONTRIBUTOR TO ATFM DELAYS)

ENVIRONMENT

MINIMISING FUEL BURN AND EMISSIONS

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

MANAGE SCARCE RESOURCES

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

CRISIS MANAGEMENT

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

SAFETY

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

DATA SHARING

AERONAUTICAL SERVICES

- PROVIDING INFORMATION FOR THE FLIGHT: FROM AIRSPACE CLOSURES TO WEATHER
- B2B WEB SERVICES REQUESTS REACH 1 MILLION PER DAY

THE NETWORK

2.27  MILLION PASSENGERS PER DAY

27,000  FLIGHTS PER DAY

1,940  AIRCRAFT OPERATORS

520  AIRPORTS

68  CONTROL CENTERS

43  EU / NON-EU STATES

NETWORK PLANNING

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

FLOW MANAGEMENT SINCE 1995

WE MANAGE SURGES IN AIR TRAFFIC SO AS TO MINIMISE IMPACT ON THE NETWORK. FLOW MANAGEMENT MINIMISES FUEL BURN AND EMISSIONS BY HOLDING AIRCRAFT ON THE GROUND SO AS TO AVOID CONGESTION IN THE AIR

20 MIO
MINUTES

SAVED SINCE NM CREATION

FLIGHT EFFICIENCY

WE OFFER AIRCRAFT OPERATORS THE MOST EFFICIENT ROUTES

30,000
TONS OF FUEL

1.7 MIO
TONS OF CO₂

84 MIO
NAUTICAL MILES

SAVED SINCE NM CREATION



The Network Manager: 24/7 actor in coordinating & managing response to crises affecting aviation in Europe

History Bookmarks Tools Help

www.nm.eurocontrol.int/PORTALWALL/gateway/spec/nopshowcase.html

Getting Started NOP SHOWCASE


on the EUR network

tion on Friday 5 September 2014 at 06:27 U




by 5th September: Low visibility in London Gatwick , and high demand for the Greek Islands. No significant enroute problems. Bardarbunga

Bárðarbunga




Alert status
NM mechanisms
Readiness

Brussels attacks




Security measures
Info exchange

MH17



Airspace status:
NM ultimate
source of info &
support to AOs

ICAO



NM to push for
sharing risk
assessments

Ebola



Supporting role
to coordinated
response

Conflict zones



Teleconferences
Alternate routes
Mitigated impact

Current situation

Planned flights	Airborne	Landed
23,382	4,034	2,021

Flights delayed more than 30 mins	Total amount of delays today (mins)
79	11,615

Today's top 5 accumulated delays (mins)

NIH+KOH+LXH+LNH FL335+	2,226
APT: LONDON GATWICK	1,402
APT: CHANIA / IOANNIS DASKALOGI	948
AMSTERDAM FIR CROSS BORDER A	825
BORDEAUX R4	821

ay situation (mins)

WICK	> 30
NNIS DASKALOGI	> 30
CROSS BORDER A	> 15
	> 15
LES DE GAULLE	> 15

Legend (delay in mins/flight)

< 15	> 15	> 30	> 45
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Crisis management - Network Manager (NM) and European Aviation Crisis Coordination Cell (EACCCC)

Coordinate management of response to the network crisis affecting aviation in Europe

NM
&
EACCCC

EACCCC activated to support the NM in political aspects of network crises



Members



State focal
points

Crisis management – progress so far



- Key players – NM with support of EACCC
- NM improved its ops processes, mitigates sudden capacity/demand imbalance
- EACCC established links to the State Focal Points
 - Coordination between network and national level
 - Information and communication messages synchronised
 - Recommendations for strategic or political actions prepared
- Positive results:
 - Robust safety risk assessment methodology → harmonisation
 - Strong European wide coordination
 - Encouraging information sharing process



EUROCONTROL/Network Manager supporting ICAO



ICAO UNITING AVIATION

A UNITED NATIONS SPECIALIZED AGENCY

'ICAO Conflict Zone Information Repository' - input to...

Explore + Subscribe +

ICAO / Conflict Zone Information Repository / ICAO Conflict Zone Information Repository

ICAO Conflict Zone Information Repository

Select a state to view all posts affecting its territory or choose ALL POSTS to see all posts

Select a State...


Risks and threats posed to civil aviation operations over or near conflict zones

SAMs

MANPADS

States' own source of information related to risks to civil aviation

Select a State...

**NOP**
Network Operations Portal

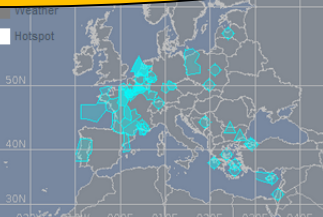
22/08/2016
09:07 18 UTC

TARGET DATE: 22/08/2016
22/08/2016 SET
D (TACTICAL)

SEARCH
Username: siv LOGOUT

Closures and warnings
Legal Notice: The information (including documents, text, maps or graphics contained in the Crisis Management section of the protected NOP Portal) is for general information purposes only. It is publicly available information that has been generated by the States and authorities concerned by the information or as indicated in the information, or information that has been created by EUROCONTROL on the basis of information generated by States or

... NM 'Closures and warnings'



Hotspot

50N 40N 30N 02D 01E 00E 01DE 02DE 03DE 04DE

Network Interactive Map Network Static Map Network Static Map (IE7/8)

Axis Management

There is no axis defined for the selected date.

ATFCM Measures (Scenarios)

Scenarios aim at the optimisation of capacity across the European Network of ACCs. Network Operations NMC works actively to minimise the number of ATFM regulations, consistent with the protection of ATC sectors

Scenario List

Enhanced Airport Event Information

The information published below shows data provided by the participating airports that have identified an event that may have an impact on airport capacity or demand.

The information is displayed by EUROCONTROL for the purpose of raising awareness of potential impacting events and to support informed decision making and CDM between aviation partners.

Click [here](#) for background information.

AIRPORT EVENTS LIST

Contingency

The status of the Network Manager operations is NORMAL.

NM ATFCM Contingency Plan Summer 2016

valid 27th March 2016 - 29th October 2016

This document addresses the contingency procedure to be carried out in the event of a long term failure of Network

Tele/WebEx conferences
Tele/WebEx conferences
Customers will be invited via AIM News to join a Tactical Briefing towards adhoc situations as they

These conferences may be in the web conference via WebEx or a teleconference via InterCall.

* For the WebEx conference click [here](#)

* For the teleconference dial +32 2891 0103. TI PIN will be published via AIM and/or Headline New

Claims
Central Claim Management System (CCMS)
CCMS allows users to raise claim Network Manager: operational req user requirements or general req preferred media is the CCMS-Web application. Alternatively, a web fi available.

Contacts
Depending on the nature of your enquiry you can

Link to the Map
Link to the List
The referenced documents in above LIST can be found below: Please read the General information document per area: middle east, Ukraine, Libya.

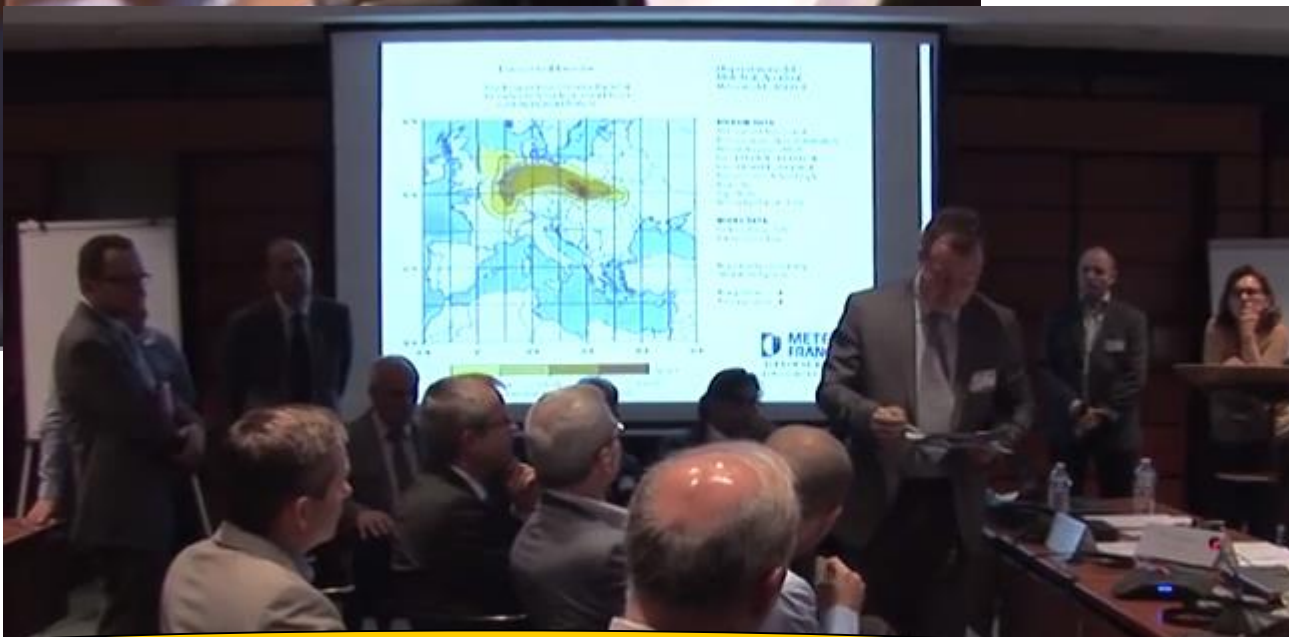
EASA SIB database (for conflict zone)
Azerbaijan A0024/11,
Egypt EASA 2014-30R2, A0009/16, AIP ENGLAND B1122-16
Iran ICAO Letter, EASA 2015-22, A0024, A0030/15,
Iraq SFAR77, EB2015/15, FAA Info, EASA 2014-24R2, AIC FRANCE, AIP ENGLAND, B1089/16
Israel A0126/15.
Libya ICAO Letter, A0007/15, EASA 2014-23R1, SFAR112, AIC FRANCE, A0166/16, A1117/16, A3523/16, B0916/16, A0032/16, A0033/16, A0034/16, A0035/16, A0036/16, A0037/16, A0038/16, A0039/16, A0040/16, AIP ENGLAND, A1538/16, W1993/16, A0719/16
Syria SFAR114, ICAO Letter, A1561/14, AIC FRANCE, EASA 2014-25R1, AIP ENGLAND, B1065/16.
Turkey A2312/16, A2313/16, A2315/16, A2316/16.
Ukraine ICAO EUR/NAT15-0420, AIC UKRAINE, A1776/15, A1777/15, A1778/15, A1785/15, SFAR113, K1733/15, V8012/15, AIC FRANCE, EASA 2015-16R2, EASA 201421R1, AIP SUP SPAIN, A1048/16, A1049/16, K3280/16, V1848/16, AIP ENGLAND,



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Preparing for the next crisis

European Aviation Crisis Coordination Cell (EACCC)



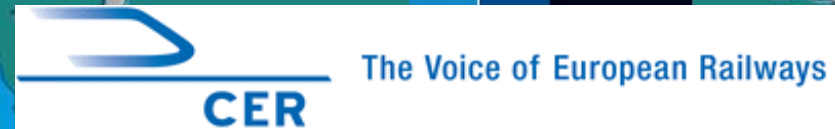
Exercise, exercise, exercise, ...

CYBER 13 – scenario & participants



**Day 1
crisis**

**Day 2
recovery**



**The Community of European Railway
and Infrastructure Companies**

Observers



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NUCLEAR 14 – scenario & participants

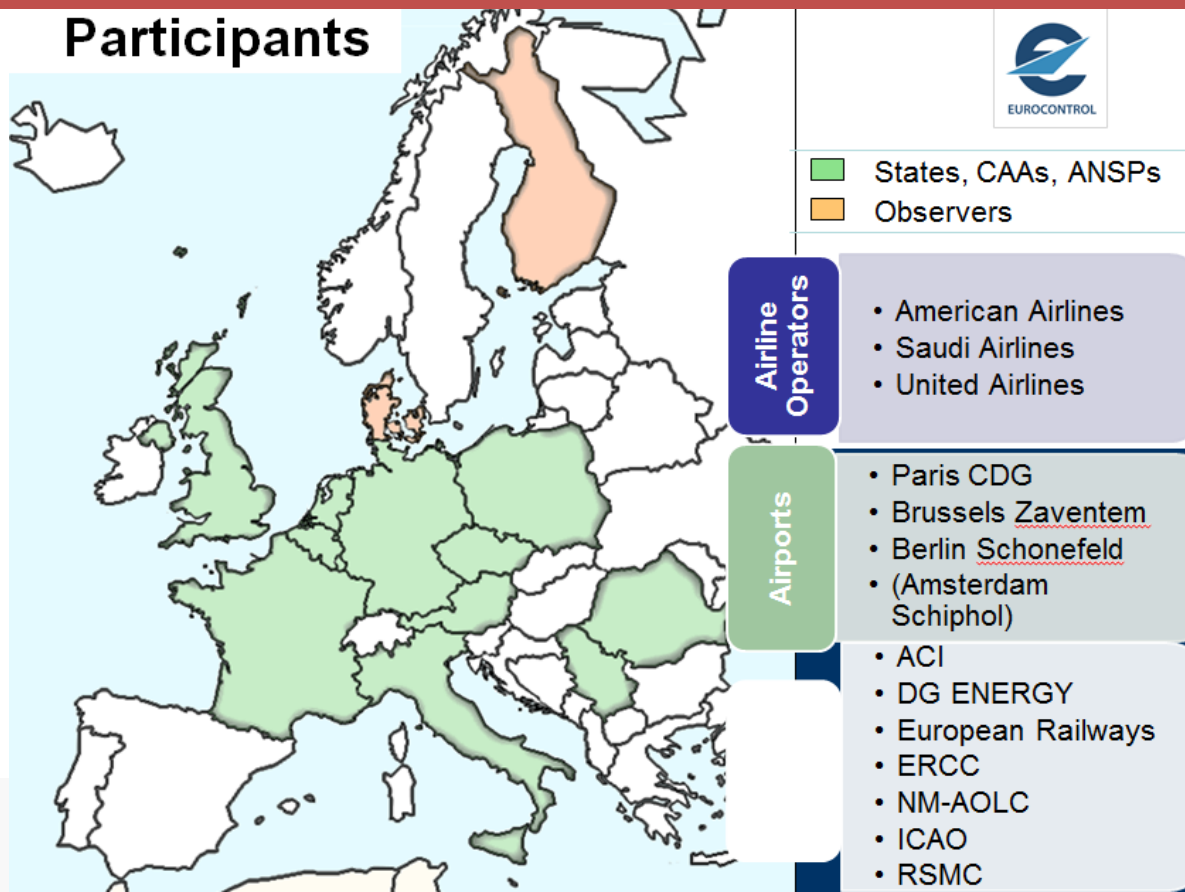
T0 Fatal incident at a Nuclear Power plant (NPP)

T0 + 1h State authorities order evacuation of the vicinity of the NPP

T0 + 2h NPP meltdown → airspace above (30km radius closed)

T0 + 2h45 NM receives the dispersion model output → forecast SFC-500m (RSMC)

Participants



SECURITY 15 - – scenario & participants



- Held on 2-3 February 2016

Bombs going off at 2 European airports simultaneously

Unclear if these bombs were just targeting the airport

Aviation all over Europe under threat

How will the different states (directly affected and other) react to the threat?

- 18 States + EACCC
- Security and aviation experts from airports, airlines, EC & NM



ICAO volcanic ash exercise: VOLCEX 16 - 11 & 12 October 2016



Getting ready for
the next eruption

Regional Search & Rescue Initiative



- More than 10 States from Central & Southeast Europe
- Link to ICAO initiative to promote enhancement of SAR facilities & services within EUR Region and adjacent regions
- Next step: establishment of a Regional SAR Committee
 - provide support to members in building Aeronautical SAR capacities
 - enhance cross-border cooperation among State in this area





Network Manager adds value to network performance!

NM - connecting you to the network!

