



Network Manager
nominated by
the European Commission



Session 10: Regional Contingency Planning

Role of Network Manager in Europe

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Riyadh, 30 August 2016

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

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

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

NETWORK PLANNING

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

CRISIS MANAGEMENT

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

DATA SHARING

AERONAUTICAL SERVICES

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

SAFETY

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

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

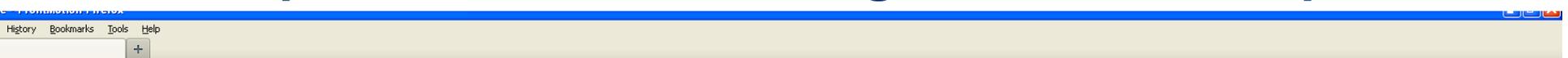
1.7 MIO
TONS OF CO₂

84 MIO
NAUTICAL MILES

SAVED SINCE NM CREATION



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



Getting Started NOP SHOWCASE

on the EUR network

tion on Friday 5 September 2014 at 06:27 U

ICAO

NM to push for sharing risk assessments

Ebola

Supporting role to coordinated response

Bárðarbunga

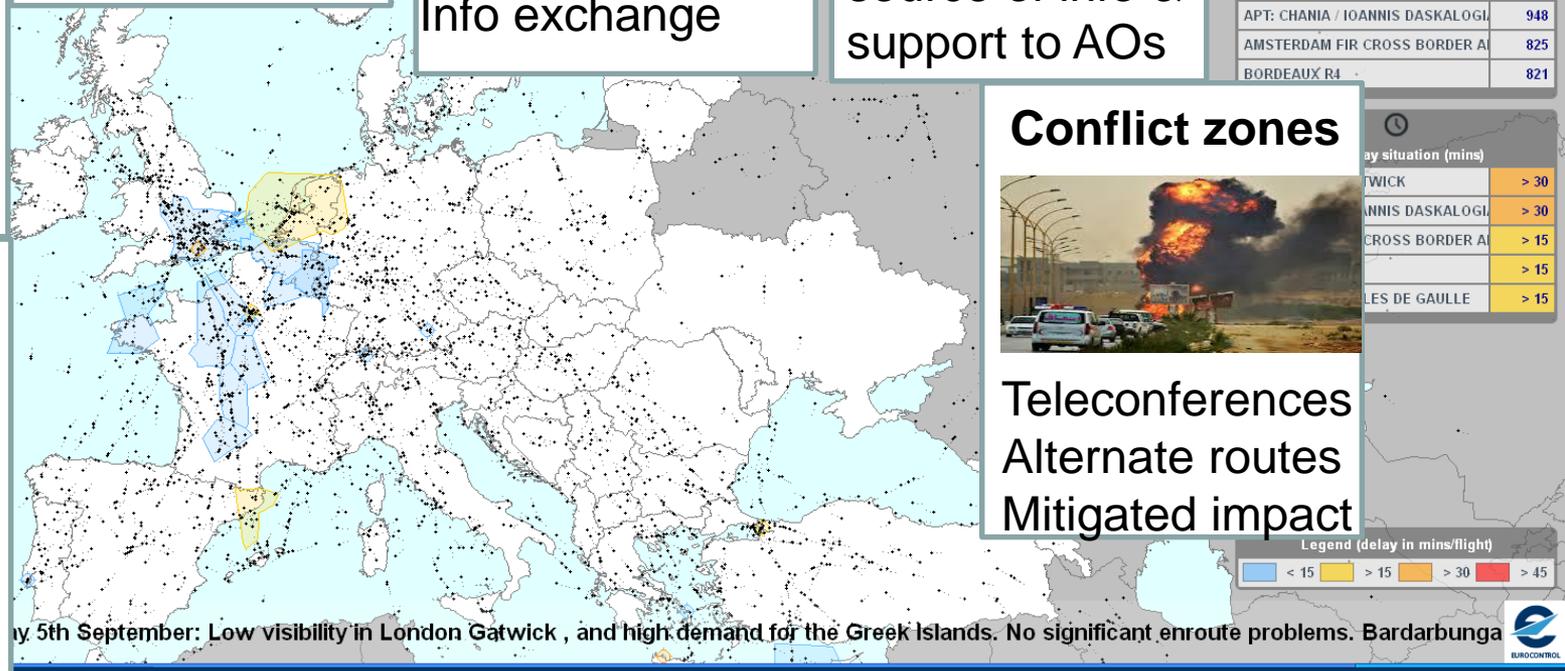
Alert status
NM mechanisms
Readiness

Brussels attacks

Security measures
Info exchange

MH17

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



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

Conflict zones

Teleconferences
Alternate routes
Mitigated impact

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

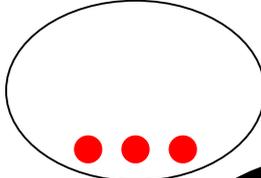


Crisis management - Network Manager (NM) and European Aviation Crisis Coordination Cell (EACCCC)

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



State focal points



Members

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

NOP Network Operations Portal

22/08/2016 09:07 18 UTC

TARGET DATE: 22/08/2016

22/08/2016 SET

Username: siv LOGOUT

SIMULATIONS CUSTOMISATION HELP

D (TACTICAL)

'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...

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'



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

Tactical PreTactical

News

Ongoing News

Update

Initial Network Plan

New dates for the NM20.5 session

Subscribe Drafts Create

Network Events

Monday, 22 Aug

Month Day

Show only state

Select Types

Create Subscribe Search

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 procedure requirements or general request preferred media is the CCMS-Web application. Alternatively, a web file available.

More i

Contacts

Depending on the nature of your enquiry you can

information provided in the Crisis Management section of the protected NOP Portal is strictly at the users own risk. EUROCONTROL shall not be liable for any loss or damage, be it direct or indirect, arising from the use of the information, its incorrectness or its unavailability.

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,

Iran 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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CLOSURES AND WARNINGS

Latest update - 17 AUG 2016



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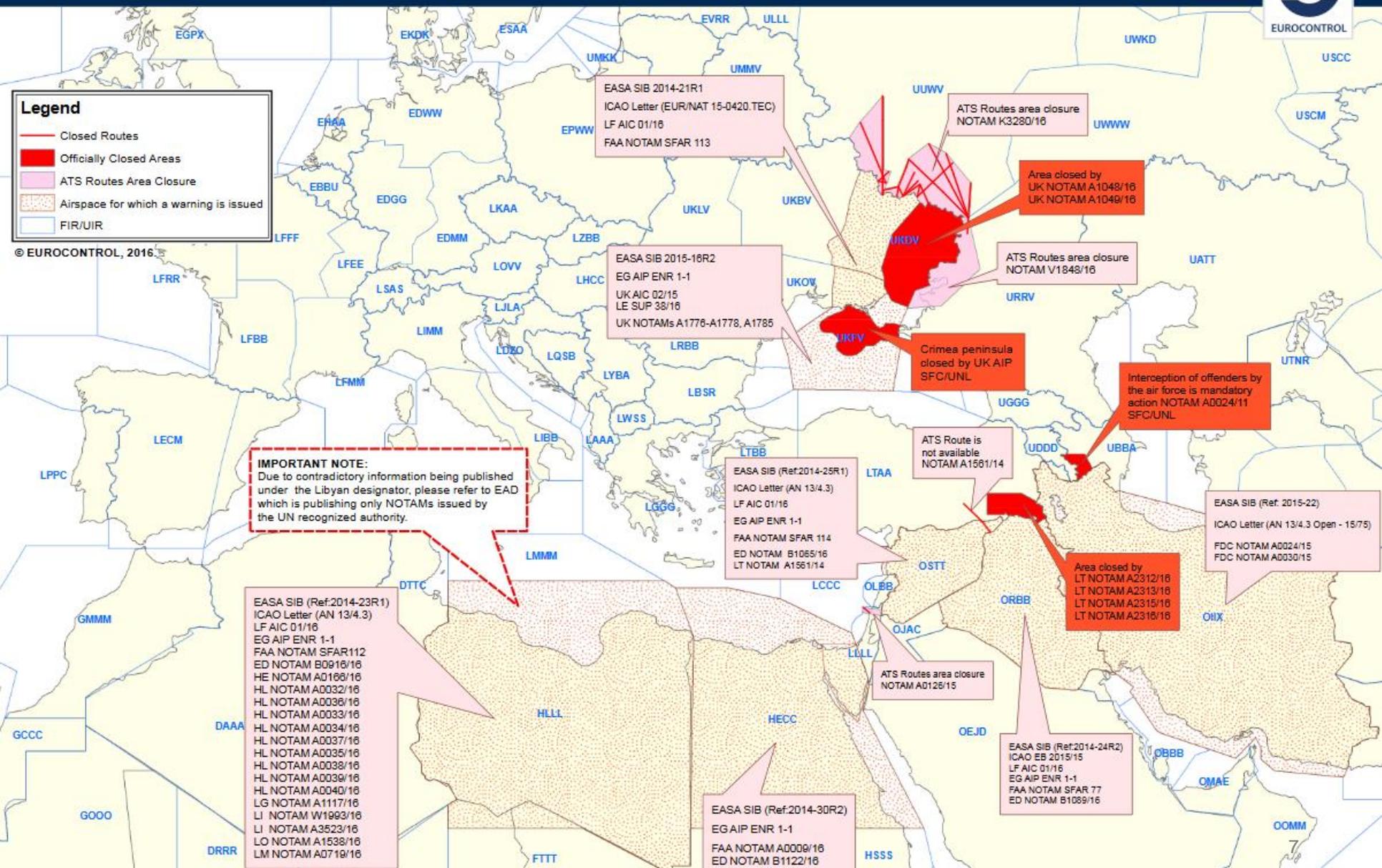


EUROCONTROL

Legend

- Closed Routes
- Officially Closed Areas
- ATS Routes Area Closure
- Airspace for which a warning is issued
- FIR/UIR

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IMPORTANT NOTE:
Due to contradictory information being published under the Libyan designator, please refer to EAD which is publishing only NOTAMs issued by the UN recognized authority.

EASA SIB 2014-21R1
ICAO Letter (EUR/NAT 15-0420.TEC)
LF AIC 01/16
FAA NOTAM SFAR 113

ATS Routes area closure
NOTAM K3280/16

Area closed by
UK NOTAM A1048/16
UK NOTAM A1049/16

EASA SIB 2015-16R2
EG AIP ENR 1-1
UK AIC 02/15
LE SUP 38/16
UK NOTAMs A1778-A1778, A1785

ATS Routes area closure
NOTAM V1848/16

Crimea peninsula
closed by UK AIP
SFC/UNL

Interception of offenders by
the air force is mandatory
action NOTAM A0024/11
SFC/UNL

ATS Route is
not available
NOTAM A1561/14

EASA SIB (Ref:2014-25R1)
ICAO Letter (AN 13/4.3)
LF AIC 01/16
EG AIP ENR 1-1
FAA NOTAM SFAR 114
ED NOTAM B1065/16
LT NOTAM A1561/14

EASA SIB (Ref: 2015-22)
ICAO Letter (AN 13/4.3 Open - 15/75)
FDC NOTAM A0024/15
FDC NOTAM A0030/15

Area closed by
LT NOTAM A2312/16
LT NOTAM A2313/16
LT NOTAM A2315/16
LT NOTAM A2316/16

EASA SIB (Ref:2014-23R1)
ICAO Letter (AN 13/4.3)
LF AIC 01/16
EG AIP ENR 1-1
FAA NOTAM SFAR112
ED NOTAM B0916/16
HE NOTAM A0166/16
HL NOTAM A0032/16
HL NOTAM A0036/16
HL NOTAM A0033/16
HL NOTAM A0034/16
HL NOTAM A0037/16
HL NOTAM A0035/16
HL NOTAM A0038/16
HL NOTAM A0039/16
HL NOTAM A0040/16
LG NOTAM A1117/16
LI NOTAM W1993/16
LI NOTAM A3523/16
LO NOTAM A1538/16
LM NOTAM A0719/16

ATS Routes area closure
NOTAM AD126/15

EASA SIB (Ref:2014-24R2)
ICAO EB 2015/15
LF AIC 01/16
EG AIP ENR 1-1
FAA NOTAM SFAR 77
ED NOTAM B1089/16

EASA SIB (Ref:2014-30R2)
EGAIP ENR 1-1
FAA NOTAM A0009/16
ED NOTAM B1122/16

Preparing for the next crisis

European Aviation Crisis Coordination Cell (EACCC)



Exercise, exercise, exercise, ...



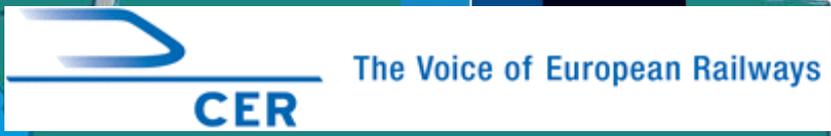
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CYBER 13 – scenario & participants



**Day 1
crisis**

**Day 2
recovery**



The Community of European Railway and Infrastructure Companies

Observers



NUCLEAR 14 – scenario & participants

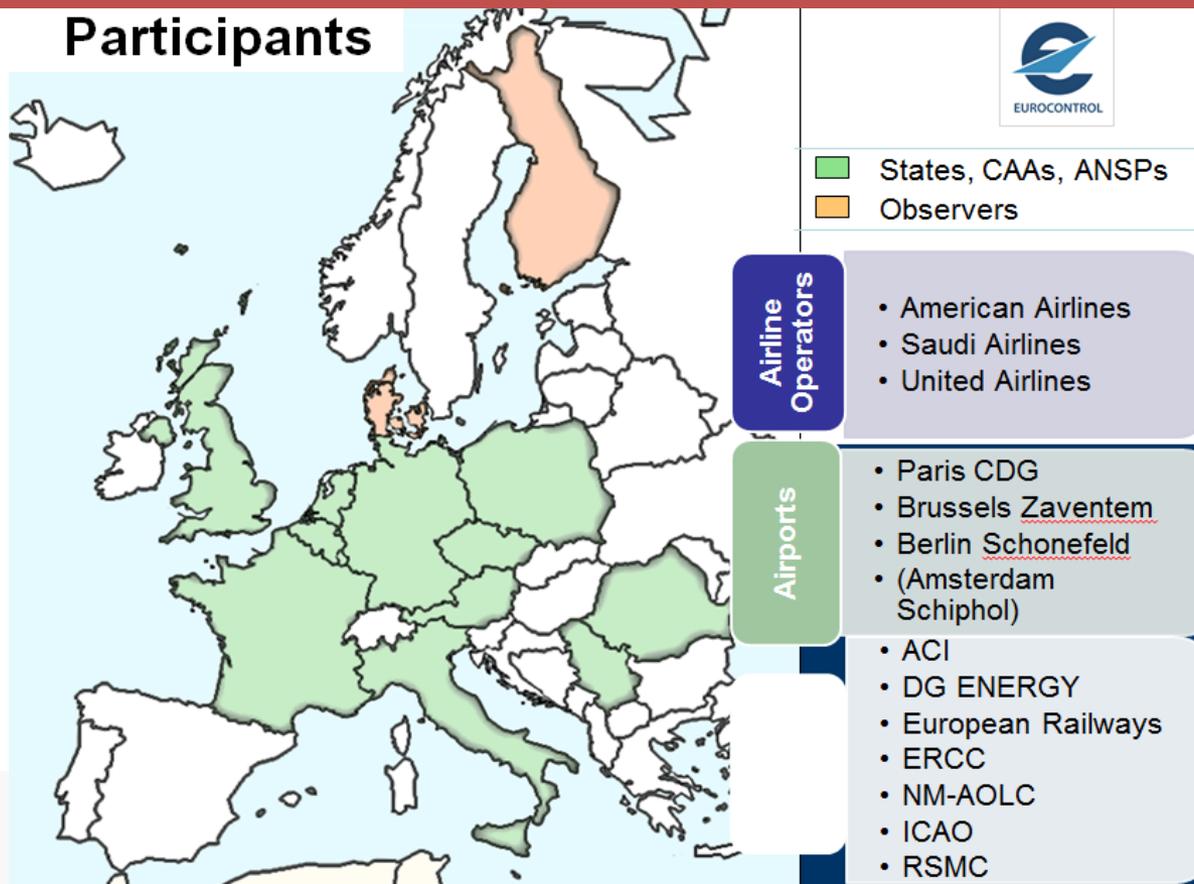
T0 Fatal incident at a Nuclear Power plant (NPP)

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



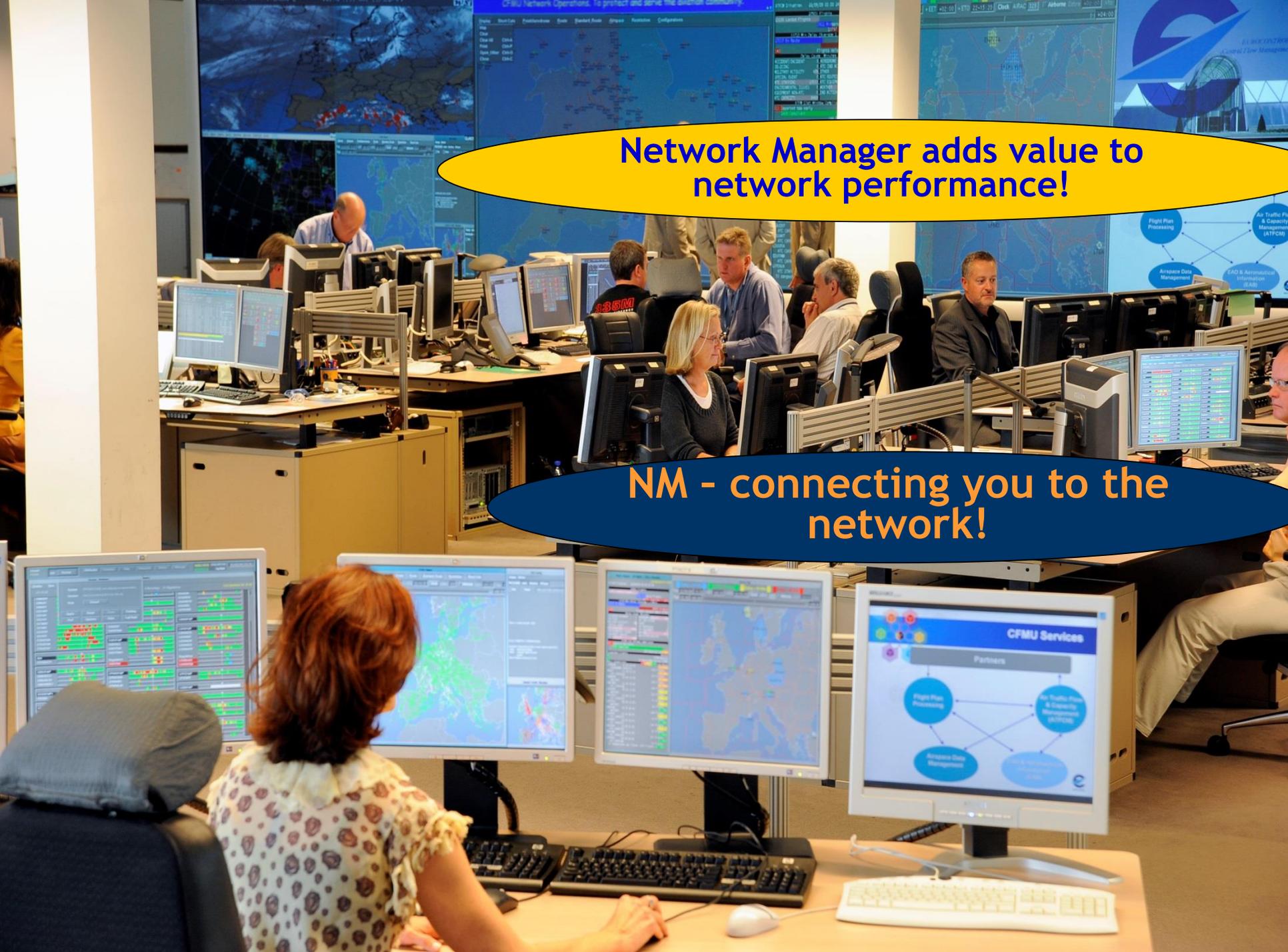
Getting ready for
the next eruption

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!

