



NETWORK OPERATIONS PORTAL (NOP)

The single collaboration and planning tool

Why do we need the NOP?

The **Network Operations Portal (NOP)** allows a common view of the European ATM network situation to be shared with the whole aviation community. It is a means of interactively accessing the European ATFCM network situation, which incorporates the existing information and user requests, provides traffic demand and capacity plans, identifies bottlenecks, and presents the ATFCM and ASM measures planned in order to counterbalance them.

By means of the Network Operations Plan Programme, the Network Manager aims to provide consolidated interactive interfaces to allow collaborative decision-making between all actors involved in the planning of ATFCM operations in order to optimise the efficient use of available resources. EUROCONTROL's implementation of the NOP addresses the need for a single entry point to ATM operations, bringing together various EUROCONTROL tools and services.

In order to address different customers and needs, the NOP is available for **human-machine access** in both a public and a protected environment. Elements of the NOP are also available via a dedicated NM B2B by means of automated system-to-system access.

The NOP serves two main purposes:

- monitoring of the **real-time status** of **traffic, airspace** and **air traffic flow and capacity management measures**; and
- **collaborative planning** of **pan-European operations** from the strategic to the tactical phases, thus optimising the use of available ATM capacity.

The NOP enables partners to **anticipate or react more efficiently** to any event. It provides a means for all actors, civil and military, to increase their knowledge of the ATM situation, from the strategic phase to real-time operations in order to make informed decisions. Its extensive reporting facilities are a solid foundation on which operations planning and the performance monitoring and reporting functions of the **Network Manager** will be built.

The Interactive Rolling NOP provides dynamic and efficient interfaces to support the network planning process, while still based on the existing ATM operational concepts.

In summary, the NOP provides full **transparency** with regard to the current and expected European air traffic situation, thanks to constantly validated information and strong collaboration processes.

Our objective: to support the Single European Sky

- Support the SES rules and new operational roles and processes: Network Manager, FABs (Functional Airspace Blocks), Performance.
- Extend the scope of operations to gate-to-gate to enhance network efficiency.
- Customise functions for each business category to make processes easier for the users.
- Deploy "SWIM-ready" (System-Wide Information Management) technology which enables interoperability between different tools.

Facts and Figures

- More than 7,200 accesses are open for professional aviation users, meaning approximately 4,000 regular monthly users are registered on the protected Network Operations Portal.
- On average there are 4,800,000 daily hits and the most accessed areas are related to Flights, FPL validation and ANM/AIM.
- A record of public interest: there were more than 13 million hits on peak days during the volcanic ash crisis in April/May 2010, proving the need for a common view in crisis situations.
- Aviation community recognition: EUROCONTROL received the 2011 Jane's ATC Award for its "Contribution to European Air Traffic Management" with the NOP.

Share information and collaborate via the Network Operations Portal (human-machine interface)

Discover a few NOP functions by browsing the ATFCM operations tabs



Tactical phase (Day of operations)

MONITOR THE NETWORK SITUATION



Real-time delay situation and forecast for the next few hours: Map and key indicators.

GET THE LATEST ATFCM HEADLINE NEWS

Date	Event
03/11/2012	Disruption of traffic in south west of Europe
02/11/2012	General Strike in Greece 6th and 7th of November - UPDATE
02/11/2012	Tactical update 8900
01/11/2012	Tactical update 1100 UTC
31/10/2012	Storm Sandy - update 31/10 at 2300

In the Headline News, view up-to-date information about the ATFCM events having a significant impact on network operations and NM actions – maintained in real time by NM Operations staff.

BE IN CONTACT WITH REAL-TIME OPS SUPPORT



Get in contact with the E-Helpdesk for assistance with slot-related matters, extensions and ATFCM issues affecting your flights – maintained in real time by NM Operations staff.

TRAFFIC COUNTS



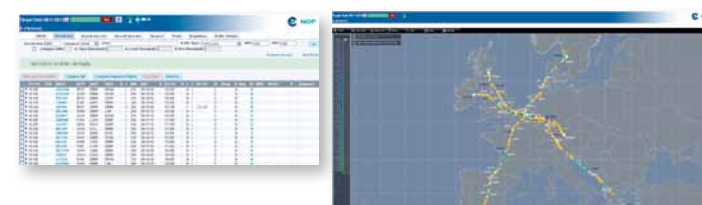
Monitor traffic using hourly entry counts (traffic entering the sector per hour) or occupancy counts (traffic that will occupy the sector every minute)

FIND OUT MORE ABOUT THE NETWORK OPERATIONS WEATHER ASSESSMENT



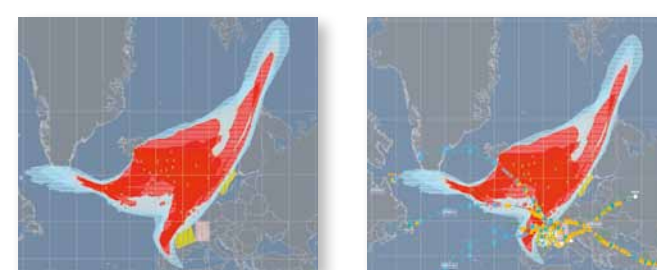
Get a Network Weather outlook for the ECAC area and alerts regarding severe weather that may affect ATM capacity.

MONITOR FLIGHT INFORMATION



Query live updates on flight information from our Network Operations systems.

MONITOR AIRSPACE AFFECTED BY UNEXPECTED EVENTS



View the changing situation of the airspace affected by volcanic ash (or other crisis events) and its impact on flights and sectors.

CONTINGENCY

Follow the contingency procedure to be carried out in the event of a long term failure of the Network Operations systems.

Pretactical phase (Day-7 to Day-1)

CONSULT THE EUROPEAN OPERATIONS DAILY PLANS

- View the day before flight (D-1) the Network Daily Plan agreed among all partners and published by NM Operations as support for local, FAB and network collaborative daily planning: events, agreed measures, ACC updates, NAT and the Network Operations Weather Assessment.
- View also the Daily Plans elaborated by FABs.

QUERY FLIGHTS, MEASURES, AIRPORT AND AIRSPACE DATA

Query flight information, active measures and airspace data from the Network Operations systems.

VIEW AGREED SCENARIOS FOR THE PERIOD



Consult axis (south-west, north-east, etc.), special, critical and military events.

EASE YOUR FLIGHT PLANNING AND PRE-DEPARTURE ASSISTANCE

- View Flights impacted by measures – Get re-routing proposal with “what if re-route function” (for AOs).
- Validate your flight plan before filing it with the IFPS (IFPUV), taking into account the network situation and route availability.
- Generate routes.

And there's more

The following features are also available via the NOP:

- ATFCM events and the measures taken by the Network Manager to minimise their impact;
- your filed flight plan and all related messages;
- the Airspace Use Plan and updates to it (AUP/ UUP);
- ATFCM messages (AIM, ANM);
- downloading of user documentation;
- access to EUROCONTROL services and tools.

Strategic phase (Before Day-7)

CONSULT THE NETWORK OPERATIONS STRATEGIC PLAN

View the ACC and airport pages, special events, etc.

CONSULT THE CALENDAR OF EVENTS

View ATFCM events and general events.

PARTICIPATE IN THE CDM PROCESS

Participate in collaborative decision-making (CDM) via the regular conferences, both online and telephone, accessible via the Tele/WebEx conferences's portlets.

ACCESS QUICKLY A SELECTION OF EUROCONTROL WEBSITES AND TOOLS OF INTEREST TO OPERATIONS STAFF

Examples: EAD website, AIS Agora, SkyView2, STATFOR, NEVAC, SAAM, CSST, SAFA, charts.

AIRSPACE STRUCTURE

Consult the Airspace structure and changes coordinated within the RNDSG.

ACC PLANNING

View the ACC planning per ACC.

AIRPORT PLANNING

View the Airport planning per Airport..

Post-Operations phase

VIEW POST-OPERATIONS KEY INDICATORS AND NETWORK OPERATIONS REPORTS

- View network performance indicators for flights, delays, delay causes, slot window compliance, suspended flights, etc.
- Consult daily, weekly, monthly reports.
- View yearly network operations, winter and summer reports.
- View past Network Operations Plans.

CREATE YOUR OWN ONLINE REPORTS (VIA NMIR)

Create your own reports based on archived data and derived performance & quality indicators.

REPORTS CLAIMS (OPERATIONAL INCIDENTS)

Access the Claim Management System to report Operational Incidents.

Practical - Network Operations Portal

Log-in

The **NOP** is accessible via the EUROCONTROL, Network Management and Network Operations webpages. Two versions are available: with public access or with protected access reserved for registered users equipped with a specific token. This token is a software device that the user has to download on his/her workstation according to EUROCONTROL's instructions during the subscription process. To take advantage of the full range of interactive options, users should access the Portal with the token.

Who can subscribe and how?

While the **Public Network Operations Portal** is available to anyone: access to the Protected Network Operations Portal is restricted to organisations which are actively engaged in ATFCM operations, aircraft operations – and related support services. The access to the Protected NOP is subject to eligibility conditions, to conditions of use and to the signing of a NM Agreement. The subscription forms for the NOP are accessible via the customer support area of the EUROCONTROL Network Management website and via the Network Operations Library. Consult the NOP description in the NM Catalogue accessible from the Network Management homepage.

NOP interactive map

- Plot a Flight.
- Display Regulations.
- Filter map information to get basic aeronautical data.
- In the event of a crisis (e.g. volcanic ash), get **details regarding** the airspace and flights potentially affected.



Technical information

Based on SWIM principles

The **architecture** of the **NM services** is made up of three layers: **client**, **service** and **back-end**. The Network Operations Portal, NM B2B Services and NOP Access Layer together form the service layer. This service layer follows a service-oriented architecture: it facilitates the building of high-level services from the network operations back-end systems and the publication of these services with standards which guarantee interoperability. It also provides security, high availability, and effective service management.

This architecture is provided to support the interoperability requirements of the SWIM network within SESAR.

Training

Concerning the **NOP**, both online courses and classroom courses have been developed. The calendar for these is accessible via the "Training" quick links on the EUROCONTROL and Network Management homepages.

Technical helpdesk

To report technical incidents, call the CSO Helpdesk.

Tel.: 00 32 2 745 1997

nm.cso.help-desk@eurocontrol.int

Portal Assistance

To **report a problem** with Portal usage, or to **provide feedback** on your user experience please send an email to the NOP Office: nop.office@eurocontrol.int

The Network Operations Portal Support Team, will get back to you. If you have an **urgent Operational request**, please follow the procedures in place to reach the NM OPS staff.