

The webinar of the NM24.0 updated scope took place on the 19th of May 2020.

Please find below:

- The recording: https://www.eurocontrol.int/event/eurocontrols-nm240-release-updated-scope-webinar
 (Direct link toward the video: https://youtu.be/FqC3DqH9Yi8)
- The link toward the NM24.0 Release Notes:
 https://www.eurocontrol.int/publication/network-manager-release-notes-planned-implementation-2020-2021
- The slides used during the Presentation (below in this pdf)
- This document is available on the public website (as a pdf) at:
 https://www.eurocontrol.int/publication/network-manager-release-notes-planned-implementation-2020-2021

 You may retrieve the recording of NM24.0 <u>initial scope</u> presentation (11/02/2020) at: https://www.eurocontrol.int/event/eurocontrols-nm240-release-webinar

Supporting European Aviation



NM24.0 Release - updated scope webinar

EUROCONTROL – Network Manager Directorate 19/05/2020

v1.0

Classification TLP: White (Public)





Welcome to the



Presentation to Externals of the additional scope included in NM24.0

Agenda

- 1- Introduction and interface set-up
- 2- NM24.0 additional scope presentation:
 - 2.1- Important notifications related to NM24.0 OPT (operational testing) session
 - 2.2- Addition of scope presentation
- 3- Way forward toward NM24.0 migration

1- Introduction: Recording



Presentation is recorded; recording (audio and slides) will be available on the Eurocontrol public website in a few days:

https://www.eurocontrol.int/publication/network-manager-release-notes-planned-implementation-2020-2021

This URL is available in the NM Release Notes (§1) and in the invitation to this presentation.

1- Introduction



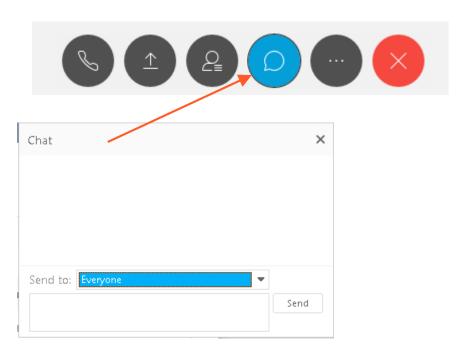
- NM24.0 migration had to be postponed by 2 months due to Covid-19.
- NM took this postponement as an opportunity to add some functionalities into NM24.0.
- Goals of the presentation:
 - Present the topics <u>that have been added</u> to the initial scope of NM24.0.
 We will <u>not</u> present the full scope of NM24.0
 - Recording of the presentation of the initial scope of NM24.0 done in February 2020 is available at https://www.eurocontrol.int/publication/network-manager-release-notes-planned-implementation-2020-2021
 - Operational Project Managers will present their topics.
 - Enable you to assess their impacts on your procedures or systems.
 - Ask questions (today after each topics presentation, or by eMail at <u>nm.releases@eurocontrol.int</u>).
 - ⇒ System testing and Operational Acceptance testing are still on-going, so Release content may slightly change until the Release migration.
 NM Release Notes remain the reference document with regards to the NM Release Content.



1- Introduction: Webex interface set-up

To be done now:

1- Move your mouse on the screen to display the set of icons in the bottom of your screen:



2- Click on the « Chat » icon



1- Introduction: How to ask questions - by chat

- Questions may be asked <u>by chat only</u> at the end of each topic presentation.
- How to ask a question by chat:



1- Type your question in the Chat window

- 2- Select « Everyone » and click on « Send »
- 3- The presenter will read the question and reply to it <u>orally</u>
- 4- If at the end of the answer you still need clarifications, please type them in the Chat window.

You can type your question during the presentation; if required, add the slide number (bottom right of the slide).

Supporting European Aviation



2- NM24.0 – Additional scope presentation





2.1- NM24.0: The OPT (Operational Testing) (Release Notes §4.2.3)



NM24.0 is available for testing with the OPT (operational testing) session!

- NM24.0 OPT session is on-going and will end on the 14th of June 2020.
 - With the NM24.0 OPT you are able to:
 - Test NM24.0 features on <u>your</u> systems with <u>your</u> procedures.
 - Download, install and test the new NM24.0 CHMI.
 - Test the new NM24.0 NOP Portal.
 - Test some new FBs (operational scenario provided in the OPT instructions).
- NM B2B: NM24.0 will be available on PREOPS (**Draft** documentation, including WSDL and XSD is already available) as from the 19 May 14:00 UTC.
- All you need is to already have access to NM systems. No registration required (unless
 you want to exchange FPL messages with the OPT platform).
- NM OPT instructions are available at https://www.eurocontrol.int/publication/operational-testing-instructions

⇒ Questions: nm.opt@eurocontrol.int

2.2- NM24.0: Important notifications (Release Notes §4.1)



- Browsers recommended in NM24.0:
 - FireFox,
 - Chrome.
 - For these recommended browser brands, NM undertakes to investigate and attempt to resolve problems that can be reproduced on the latest stable version of that brand (anything else is on a "best efforts" basis).
 - Please note that Internet Explorer will no more be supported as from NM24.0.
- The recommended operating system is Windows 10.
 Issues reported on CHMI using Windows 7 will be fixed on a best effort basis.
- NM B2B: Decommission of NM B2B NM22.0 webservice.
- NM24.0 B2B full set of documentation (web site, pdf, WSDL, xsd...) is available in Draft on the NM B2B OneSkyTeam.
- Final B2B documentation will be provided with NM24.0 OPS migration (24/06/2020).



Any questions?



2.3- NM24.0 additional scope presentation

Only new features impacting operations and Externals are presented



Topic	Topic Title				
	Operations Improvements				
FB1067 & FB1085	FB1067 & FB1085 iDAP Activation				
CR_047810	AOWIR Apply available via B2B				
CR_047338	Auto-refresh (poll) only the visible tab in CHMI				
	Flight Efficiency initiative				
CR_047018	Delete old group rerouting indicators from a flight when applying a similar group rerouting				
n-CONECT / Operations Improvements					
CR_047936	Adaptation of PORTAL for NES MAP - phase-out of Flash				
n-CONECT					
NCO-14974	Improve Presentation of Updates both in exported Excel files and RAD Application				

Supporting European Aviation



FB1067 & FB1085: iDAP (integrated Digital ATFCM Platform) / Future Helpdesk







1- Stakeholders impacted

- Flow Manager (FMP)
- AO
- Airport (all types)
- Post-ops analyst

	Service affected				
FB1067 FB1085	Flight Planning	Flow	Aeronautical Information/AS data	Reporting	Other
Internal computation					
Data structure		YES		YES	
User Interface		YES			
Procedures					
Training					
B2B		YES		YES	
Other					

Internal computation: Change in the way the various parameters exposed to externals (eg. CTOT) are computed.





NM – eHelpDesk improvements

Summer 2018-19 Experience

- Capacity shortfalls
- Exponential increase of requests
- Jeopardize the Network service

Future Strategy

- Enhance Network support
- Automation
- Integration
- Request classification
- Gradually introducing the B2B channel



Timeline



i-DAP evolutions

NM 23.0

Spring 2019

- Enabling the access for TWR and FMP
- Introduction of the queue management
- Automatic processing of requests

NM 23.5

Fall 2019

- Delegator option for the FMPs that act on behalf of TWR
- Performance improvements

VM 24.0

Summer 2020

- Full integration of the eHelpDesk service in the ETFMS
- Single queue for all requests
- Complete eHelpDesk service available via the B2B
- Critical Flights
- REA flight indication
- Minimum Take Off Time

NM 25.0+

Spring 2021

- New request types (e.g. DCB requests)
- Priority flights via B2B
- Full digitalization of the iDAP service

3- New features



- The eHelpDesk improvements FB contains following change requests:
 - Critical Flights

Indication of REA Flights

Earliest take off time provision



EUROCONTROL

3- New features (1)

Critical Flights

- Some flights schedules are key for airspace users operation plan.
- Reducing the ATFM delay is critical for their business.
- Related to slot improvement requests

The new features will permit:

- Aircraft Operators can optionally mark their flights as "Critical"
- A tick-box will be available to indicate the criticality
- Number of critical flights will be limited depending on the Network situation (minimum = 1)
- Counter of remaining critical flights & B2B availability is under NM25.0 scone

As a result:

Critical flights will be highlighted (magenta colour) in the queue



3- New features (2)

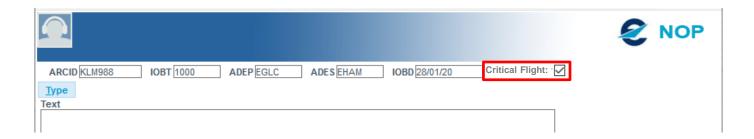


- REA Flights
 - Requests for Flights is REA status are preferentially treated by NMOC
 - These requests will be highlighted in the details area of the request
 - No impact on the system behaviour, only the highlighting for the operators
- Request for Improvement minimum take off time provision
 - eHelpDesk users will be able to optionally provide the earliest take off time that they can make and help the operator when finding the most suitable improvement.
 - This can:
 - Increase the likelihood of getting the improvement
 - Reduce the time of response

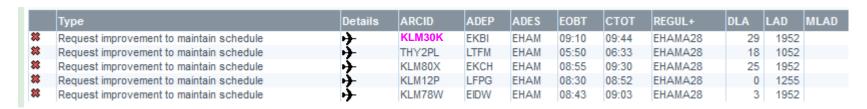
EUROCONTROL

4- Impact of the change (1)

- Critical Flights
 - New tick-box available for the AOs to indicate flights that are critical for the operations (no impact on current procedures)



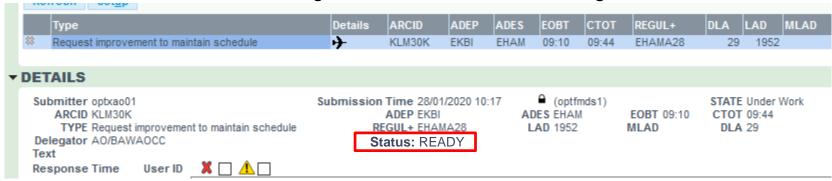
 Critical flights will be highlighted in the queue and on the NOP flight list (Aircraft ID will be bold with magenta colour)



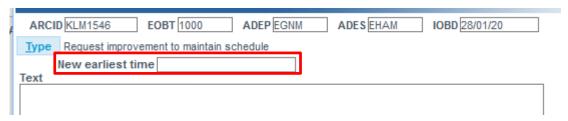


4- Impact of the change (2)

- Ready Flights
 - In the details area of the flight, it will be indicated if the flight is in REA status



Request for Improvement (Earliest take off time provision)







In order to summarize the state of the request, the B2B MCDM states will be used in iDAP. The picture on the left summarizes all MCDM states of the request:

MCDM State
N Not required
D Draft
P Proposed
C Coordinated
M for iMplementation
I Implemented
A Abandoned
R inteRrupted
F Finished

<u>Draft:</u> The initiator is drafting the proposal. Request is not visible by the NMOC

<u>Proposed:</u> The initiator proposes the measure/flight request for its assessment and approval by the NMOC. Request is now visible in the NMOC queue.

<u>Coordinated:</u> Measure is being reviewed by NMOC staff (equivalent to the LOCKED in eHelpDesk). Initiator can no longer modify/cancel the request.

For Implementation: Proposal has been accepted, but requires action. (e.g. regulation is in APPLYING state)

<u>Implemented:</u> The proposal has been reviewed and accepted. It is already applied in the system.

Abandoned: Proposal is revoked by the originator.

Interrupted: The proposal is rejected (automatically or manually by the NMOC)



4- iDAP request states

Matching table below summarizes the link between current NOP request states and the B2B request states.

*During the NM 24.0, NOP will include both request states, but as of NM 25.0, only B2B terminology will be used

B2B State	NOP State
Draft	N/A
Proposed	Submitted
Coordinated	Locked
Implemented	Replied
Abandoned	Recalled
Interrupted	Unable





More about B2B validation process: https://www.eurocontrol.int/service/network-manager-business-business-b2b-web-services

Steps to implement iDAP via the B2B:

- Request PreOps access for the service you are interested on.
- Build your own tool
- Validate the tool with Eurocontrol Operations and Technical Teams
- Request access to Ops

User:	Type of Request:	Today	NM 24.0+
TWR	Slot Exension	NOP	NOP & B2B
	Slot Improvement	NOP	NOP & B2B
FMP	Exclusion from Reg	NOP & B2B	NOP & B2B
	Slot Exension	NOP & B2B	NOP & B2B
	Slot Improvement	NOP & B2B	NOP & B2B
AO	Slot Extension	NOP	NOP & B2B
	Slot Improvement	NOP	NOP & B2B
	Rerouting	NOP	NOP & B2B
	Slot swap	NOP	NOP & B2B
	Other	NOP	NOP & B2B

5 - How to use the service and best practices



TELEPHONE	 It is strongly recommended to reduce to the minimum the use of the telephone coordination. The telephone coordination shall not be used to request improvements, exclusions from regulations or extensions requests before COBT-20 (exceptional reasons permit TWR to contact afterwards).
INTERFACE	 It is strongly recommended to use the electronic coordination means (B2B/NOP) to transmit the necessary requests. This has a beneficial effect on the treatment of most urgent requests. FMP using electronic desk shall choose between B2B or B2C interface and never use the two channels simultaneously.
PROCEDURES	 Review the ATFCM manuals to understand when and where you are entitled to request helpdesk assistance. Remember that helpdesk requests have limited possibilities subject to Network capacity constraints.
TRAINING	Train your operational staff with the new features and remind the procedures and operational best practices.









6- Questions



Any questions?



OPT session: nm.opt@eurocontrol.int

Supporting European Aviation



CR_047810: AOWIR Apply available via NM B2B





EUROCONTROL

1- Stakeholders impacted

- Airspace User (Civil) incl. AO
- CFSP

CR_047810	Service affected				
	Flight Planning	Flow	Aeronautical Information/AS data	Reporting	Other
Internal					
computation					
Data structure					
User Interface					
Procedures					
Training		Yes			
B2B	Yes	Yes			
Other					

Internal computation: Change in the way the various parameters exposed to externals (eg. CTOT) are computed.

2- Background – Why



- Why was it developed and the business need?
 - At AO/CFSPs request, adding the Apply AOWIR in the NM B2B web service.
 - A functionality alignment between NOP Portal and the B2B web services.
- What was the problem it intends to solve?
 - The need for the AO/CFSPs using the B2B services to have the whole functionality implemented in B2B – not to be forced to copy the route on NOP Portal, try and then re-file it via B2B service.
- What are the benefits?
 - Reduce the workload on AO/CFSPs side, especially during special operational circumstances.
- What are the possible next steps?
 - Nothing foreseen for the time being.

3- New features



- B2B FlightPreparation port type:
 - New

applyRerouting(ReroutingApplyRequest/ReroutingApplyReply)

- Authorisation:
 - Use case: b2b.FlightPreparation
 - **User role**: b2b_flight_preparation_role
- Overload protection:
 - applyRerouting: Max 30 calls per minute

However: from IFPS Users Manual, to be considered:



The user of the AOWIR function shall be able to make a series of consultations in order to assess different scenarios. Although it is possible to make unlimited consultations for a suitable re-routing it shall only be possible to apply three re-routes per flight maximum.



4- Impact of the change



- The applyRerouting is considered as Write service. Therefore, an operational validation will be performed before the operations (like any other NM B2B Write service);
- This CR is part of the NM Release OPT (Operational Testing Session). As well, once the PREOPS instance is migrated to NM24.0, the new features are available on this platform before the operational NM24.0 migration.

5- Questions



Any questions?



Supporting European Aviation



CR_047338: Auto-refresh (poll) only the visible tab in CHMI







1- Stakeholders impacted

- Any CHMI / CIFLO / CIAO / CITO / CIAM user:
 - Flow Manager (FMP)
 - Airspace Manager (AMC)
 - Airspace User (Civil) incl. AO
 - Airspace User (Military)
 - Post-ops analyst
 - CFSP
 - Non-CDM Airport
 - CDM-Airport
 - Advanced ATC TWR Airport
 - Air Navigation Service Provider (ANSP)

CR_047338	Service affected				
	Flight Planning	Flow	Aeronautical Information/AS data	Reporting	Other
Internal computation					
Data structure					
User Interface	Yes	Yes	Yes	Yes	
Procedures					
Training					
B2B					
Other					

Internal computation: Change in the way the various parameters exposed to externals (eg. CTOT) are computed.

2- Background – Why

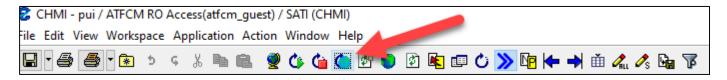


- Many CHMIs are sending big bunch of queries to NM systems, caused by the automatic refresh (poll) of many windows in several workspaces. For example, a user may have:
 - 15 tabs (workspaces),
 - Each tabs containing 5 to 10 windows (Traffic Volumes counts).
- Refreshing the data in tabs not shown to the user is not always useful and creates unnecessary workload on NM systems.

3- New feature



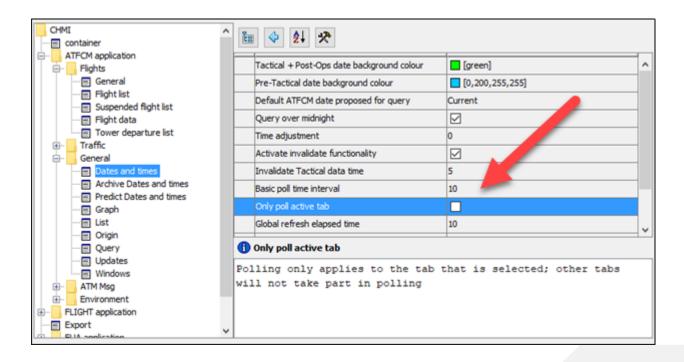
- By default in NM24.0, the non-visible workspaces of the CHMI / CIFLO / CIAO / CITO and CIAM will no more be automatically refreshed in the background.
- The workspace will be automatically refreshed (polled) when the user will select it and make it visible.
- A new button "global polling" (and corresponding menu item) will activate/deactivate the polling of all windows in the current workspace.





4- Impact of the change

- No tangible impact on a large majority of users as the tab will be refreshed automatically when selected.
- Users who nevertheless need windows in all tabs to be polled (i.e. NM23.5 behavior) can force this by <u>not</u> checking the user preference "ATFCM → General → Date and times → Only poll active tab"



5- Questions



Any questions?



Supporting European Aviation



CR_047018: Delete old group rerouting indicators from a flight when applying a similar group rerouting







Airspace User (Civil) - incl. AO

1- Stakeholders impacted

CFSP

CR_047018	Service affected					
	Flight Planning	Flow	Aeronautical Information/AS data	Reporting	Other	
Internal		Yes				
computation						
Data structure						
User Interface						
Procedures						
Training						
B2B						
Other						

Internal computation: Change in the way the various parameters exposed to externals (eg. CTOT) are computed.

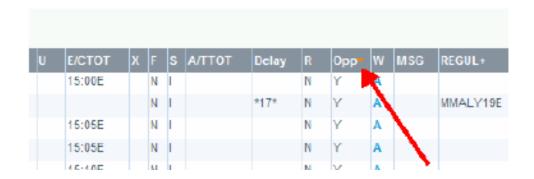




- Before NM24.0 release, information stored in the OPP column of the CHMI or NOP Portal flight lists was not reflecting the latest (scheduled) Group Rerouting tool (GRRT – opportunity tool) calculation.
- Whenever GRRT would identify an alternative route, this information would be stored presented in CHMI or NOP Portal OPP column.
- However, if in the following run(s) no alternative route was found, OPP column would still keep indication generated in the previous run in which an alternative was highlighted



- With this improvement, the user will only see the latest (best) outcome of the GRRT calculations.
- If proposals to reroute a flight are coming from more than one GRRT template, and if in the last run at least one of templates provides an alternative route, the OPP column will show "Y". There will be no indication when no alternatives have been selected by the last run of any of the GRRT templates.



NOTE: CHMI Archive data will store only the last status of the OPP column.

4- Impact of the change



 This CR will improve the user experience by providing more up to date GRRT calculations in the CHMI or NOP Portal.

5- Questions



Any questions?



Supporting European Aviation



CR_047936: Adaptation of PORTAL for NES MAP Phase-out of Flash





1- Stakeholders impacted



- Flow Manager (FMP)
- Airspace Manager (AMC)
- Airspace User (Civil) and (Military) incl. AO
- Airspace User ENV data provider
- Management (for example in crisis management, performance management)
- Post-ops analyst
- Non-CDM Airport
- CDM-Airport
- Advanced ATC TWR Airport
- ARO

NOP Portal Protected Users

Network operations monitoring and reporting Flight Plan filing and management Strategic & Operations planning

CR_047936	Service affected					
	Flight Planning	Flow	Aeronautical Information/AS data	Reporting	Other	
Internal						
computation						
Data structure						
User Interface	Yes	Yes	Yes			
Procedures	Yes	Yes	Yes			
Training	Yes	Yes	Yes			
B2B						
Other						

Internal computation: Change in the way the various parameters exposed to externals (eg. CTOT) are computed.

EUROCO

2- Background – Why

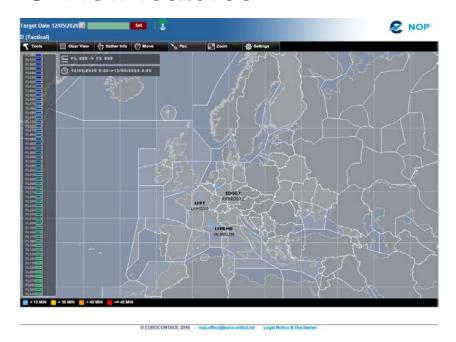
- CR Technologically driven
 - Large browser providers will no longer support Flash from end of year 2020.
 - The current NM23.5 Interactive map is based on Flash technology.
- Service need
 - Maintain the main NOP Portal Interactive map features.
 - Provide a map replacement coded differently.
- Solution considerations
 - Get advantage of existing developments for the same/very similar tasks.
 - Avoid to redevelop the same map.
- Potential next steps
 - Usage & feedback.
 - Evolution in NM ecosystem (NES) applications.

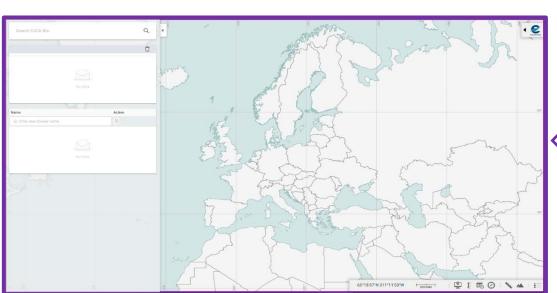
EUROCONTROL

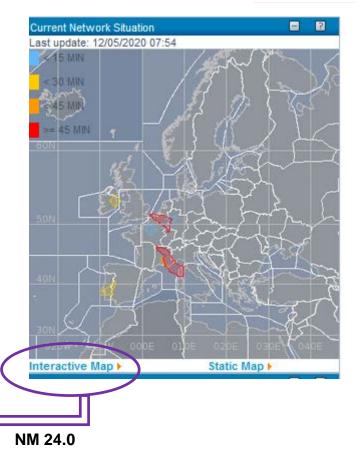
3- New features

- NOP Portal Interactive map with different look & feel.
- Same functionalities as the current map(s):
 - Retrieving and displaying plotting :
 - Basic CACD entities (routes, areas, points, aerodromes, ...) in a new or existing map,
 - · Displaying flights,
 - Etc.
 - Mouse actions (zooming, panning, ...)
 - Controls and indications :
 - Coordinates, scale, timeline, measuring, vertical view, ...
 - Actions on the map :
 - Details tooltip, remove from map, ...

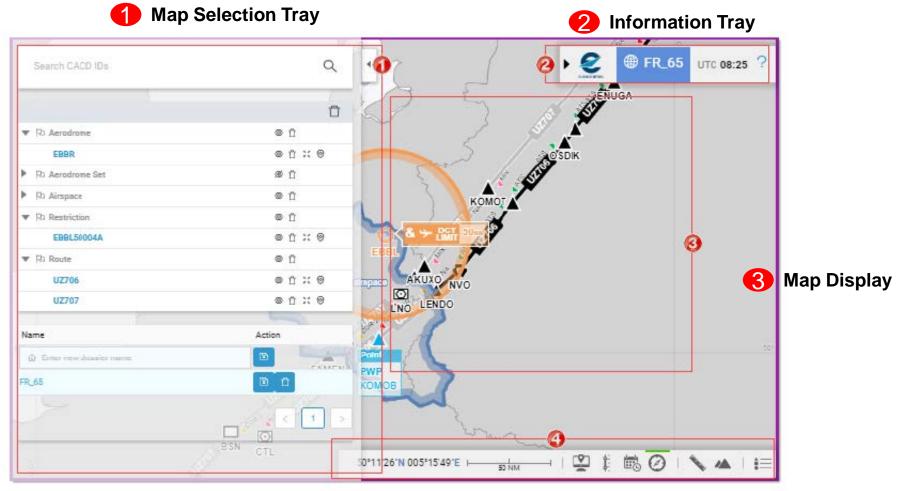






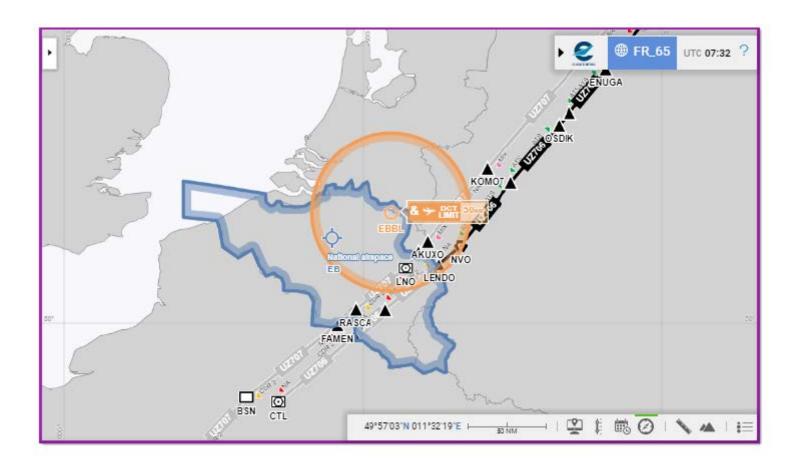






Controls





4- Impact of the change



- Software being finalized.
- Available in OPT from 20th May to 14th June (end OPT).
- Support documentation (HELP in the NOP Portal) being written/updated.

5- Questions



Any questions?



Supporting European Aviation



NCO-14974: Improve Presentation of Updates both in exported Excel files and RAD Application







1- Stakeholders impacted

- NM RAD Team
- ANSPs
 - National RAD Coordinator (NRC)
 - Local RAD Coordinator (LRC)

NCO-14974	Service affected					
	Flight Planning	Flow	Aeronautical Information/AS data	Reporting	Other	
Internal computation						
Data structure						
User Interface			Yes			
Procedures						
Training						
B2B						
Other						

Internal computation: Change in the way the various parameters exposed to externals (eg. CTOT) are computed.

EUROCONTROL

2- Background – Why

- The changes in the RAD publications are marked using different text formatting.
- In the RAD Application logic is built in, i.e. *diff*-component, to do this text formatting.
- The initial implementation of this component was comparing char-by-char and so text was formatted char-by-char.

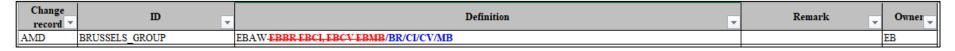


 The business need is to do the text formatting word-by-word. So that it is more readable and more aligned with the past and manual way of text formatting.



3- Updated features

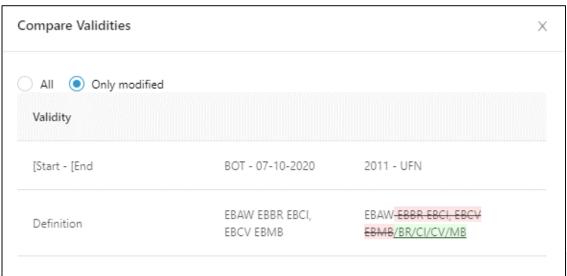
Exported files



Query Result List



- DMR (Data Modification Request) View
- Compare Validities



Etc.





- For all stakeholders the representation and consequently readability of the data is improved.
- This means less time to decipher what was really changed or, in other words, immediately see the real changes.

5- Questions



Any questions?



Supporting European Aviation



NM24.0 Way Forward





NM24.0: The OPT (Operational Testing) (Release Notes §4.2.3)



NM24.0 is available for testing with the OPT (operational testing) session!

- NM24.0 OPT session is on-going and will end on the 14th of June 2020.
 - With the NM24.0 OPT you are able to:
 - Test NM24.0 features on <u>your</u> systems with <u>your</u> procedures.
 - Download, install and test the new NM24.0 CHMI.
 - Test the new NM24.0 NOP Portal.
 - Test some new FBs (operational scenario provided in the OPT instructions).
- NM B2B: NM24.0 will be available on PREOPS (**Draft** documentation, including WSDL and XSD is already available) as from the 19 May 14:00 UTC.
- All you need is to already have access to NM systems. No registration required (unless
 you want to exchange FPL messages with the OPT platform).
- NM OPT instructions are available at https://www.eurocontrol.int/publication/operational-testing-instructions

⇒ Questions: nm.opt@eurocontrol.int

nm.releases@eurocontrol.int 61

Way forward to NM24.0 migration



- NM24.0 migration is planned to start on the 23/06/2020 (last 1 week)
 - Detailed Release migration plan may be found in the NM Release Notes (§4.2.4).
 - As for any release, the date of migration is subject to the output from final technical and operational testing.
 - Any change will be communicated via the NM Release Notes.
- To receive information on the Release (including NM Release Notes updates, OPT information, presentations, etc.): subscribe to the mailing (cf. §1 of the NM Release Notes)

Any question related to the Release: nm.releases@eurocontrol.int

nm.releases@eurocontrol.int 62



Any questions?



nm.releases@eurocontrol.int 63

Many thanks for your participation!





