



iNM-Wave 2 Release Notes

Wave 2 Primary Release Date: Thursday, 15 May 2025

Wave 2 Primary Release Products: eEAD MVP, first Operational Release

Wave 2 Technical Increments:

- NM Core Technical Maintenance: 20 May 2025
- NM Core B2B Update: 17 June 2025
- eEAD Disaster Recovery Increment: 3 July 2025
- RAD/DNP/CAL Technical Increment: 3 July 2025



DOCUMENT CHARACTERISTICS

Document Title	iNM-Wave 2 Release Notes
Edition Number	1
Edition Validity Date	25-04-2025
Abstract	<p>This document describes the new and modified functions delivered by NM as part of the iNM-Wave 2 software release.</p> <p>This document is available at: https://www.eurocontrol.int/publication/inm-wave-2-release-notes</p>
Classification	White
Status	Final
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Approval	<p>Head of Division NM\INF</p> <p>Head of Division NM\NOM</p>
Accessible via	Internet (www.eurocontrol.int)

The following table records the history of the successive editions of the present document

Edition No.	Edition Validity Date	Reason
1	25/04/2025	First edition

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1 Overview

NM's digital transformation will be progressively implemented through the iNM Programme and delivered in Waves.

Key delivery at Wave2?

We are proud to announce that eEAD will become operational on 15th May introducing new Digital Products, all running on the new cloud-based iNM Digital Platform. This initial deployment, also known as Wave 2, marks the first phase of the overall operational rollout of eEAD.

The second phase of the eEAD, referred to as Wave 2.2, is scheduled for delivery on 15 December 2025. A separate Release Notes will accompany it, detailing all additional eEAD related functionalities.

With an enhanced user interface, the first phase of eEAD will introduce the following key Digital Products and related functionalities to its stakeholders:

- (1) AIS Data Maintenance (ADM), including:
 - a) Data Management capabilities
 - b) Digital NOTAM
- (2) CNOTAM
- (3) Legal Recording (LREC)
- (4) User and Organization Management (UOM)

These eEAD Digital Products will be made available to the EAD stakeholders to begin their transition and migration to the new products and services. In line with the high-level transition plan and as agreed with the stakeholders (see [the high-level transition plan to eEAD](#)), priority will be given to the Aeronautical Information Service Providers (AISPs) impacted by the Commission Implementing Regulation (EU) 2021/116 (CP1), while other clients will follow in subsequent phases.

During the transition and migration process, EUROCONTROL will provide its stakeholders with access to test, transition and pre-operational environments, in line with the transition plan.

2 What is New at Wave 2?

2.1 Wave 2 eEAD Products

Objective	Wave 2 marks the first phase of the eEAD operational release, introducing key capabilities designed to support AISPs in meeting the requirements of the CP1
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	Regulation.
Description	<p>Key Digital Products and related functionalities introduced in Wave 2</p> <p>Per product/module high level features at Wave2:</p> <ol style="list-style-type: none"> 1. AIS Data Maintenance (ADM) <ul style="list-style-type: none"> • AIS Data Change Proposals (DCP), to introduce and manage data changes following one default workflow • Dataset extraction with specific filters, conditions, rules and subscription options; all of which are customizable per user\organization • Visualization of Aeronautical data and D-NOTAM in a graphical environment • Digital NOTAM (D-NOTAM) specific functionalities (see details in 1.1) <p>1.1 D-NOTAM</p> <ul style="list-style-type: none"> • Possibility to encode D-NOTAM according with 24 events scenarios: <ul style="list-style-type: none"> ○ [2.0] [AD.CLS] Aerodrome/Heliport - closure ○ [2.0] [AD.LIM] Aerodrome/Heliport - usage limitation change ○ [2.0] [APE.CLS] Apron portion - closure ○ [2.0] [APE.LIM] Apron portion - usage limitation change ○ [2.0] [APN.CLS] Apron - closure ○ [2.0] [APN.LIM] Apron - usage limitation change ○ [2.0] [ATSA.ACT] Published ATS airspace - activation or deactivation - coding ○ [2.0] [ATSA.NEW] Ad-hoc ATS airspace - creation - coding ○ [2.0] [NAV.UNS] Navaid unserviceable - coding ○ [2.0] [OBL.UNS] Obstacle lights unserviceable - coding ○ [2.0] [OBS.NEW] New obstacle - coding ○ [2.0] [RCP.CHG] Runway centreline point - displacement ○ [2.0] [RDD.CHG] Runway declared distances - change ○ [2.0] [RWE.CLS] Runway portion - closure ○ [2.0] [RWY.CLS] Runway - closure ○ [2.0] [RWY.LIM] Runway - usage limitation change ○ [2.0] [SAA.ACT] Published special activity area - activation ○ [2.0] [SAA.NEW] Ad-hoc special activity area - creation ○ [2.0] [SFC.CON] Surface condition report - coding ○ [2.0] [STAND.CLS] Aircraft stand - closure ○ [2.0] [STAND.LIM] Aircraft stand - usage limitation change ○ [2.0] [TWY.CLS] Taxiway - closure ○ [2.0] [TWY.LIM] Taxiway - usage limitation change ○ [2.0] OTHER <ul style="list-style-type: none"> ○ [AD.LGT] Ground Light System unserviceable - coding ○ [AGS.UNS] Airport Ground Service unserviceable - coding ○ [DEI.IOP] De-icing in operation ○ [FFS.CHG] Rescue and firefighting services change - coding ○ [GNSS.UNS] - GNSS not available - coding ○ [LVP.IOP] Low Visibility Procedures in operation ○ [RTE.CLS] Route portion closure - coding

	<ul style="list-style-type: none"> ○ [RTE.OPN] Route portion opening - coding ○ [WLF.HZD] Wildlife Hazard <ul style="list-style-type: none"> • Conventional NOTAM Proposal text is generated automatically. • Possibility to simulate the publication of a Conventional NOTAM and the concurrent release of the corresponding D-NOTAM. <p>2. First phase of Conventional NOTAM (C-NOTAM):</p> <ul style="list-style-type: none"> • Creation of NOTAM and NOTAM Proposals • Creation of SNOWTAM and SNOWTAM Proposals • Creation of ASHTAM • Drafts and Templates • In this first phase the distribution of all TAM messages will be done using INO DP <p>3. B2B and B2C Interfaces:</p> <ul style="list-style-type: none"> • B2B (AIMSL): Existing services preserved with no software changes; backwards compatibility ensured • B2C (Thin Client): new, browser-based modern Human-Machin Interface (HMI) <p>4. Admin Tools:</p> <ul style="list-style-type: none"> • Business Rules Profile Management: custom profiles creation, possibility to correlate specific business rules with chosen objects • Released Data Validation: automated verification of released AIS Data against a pre-defined set of Business Rules <p>5. Legal Recording (LREC):</p> <ul style="list-style-type: none"> • Basic investigation view with list of all transactions, • Transaction statistics and details views. <p>6. User and Organization Management (UOM):</p> <ul style="list-style-type: none"> • Client Security Officer (CSO) User Management functions (add/modify/deactivate/list users) • Client Security Officer (CSO) B2B Certificate Management (b2b user and certificate creation/workflow for approval, distribution and revoking) <p>All Wave 2 services are hosted in the Cloud. Detailed descriptions and user guidance will be available via the iNM Wave 2 Help Portal.</p>
<p>Users potentially impacted and/or interested</p>	<ul style="list-style-type: none"> • Data Providers Aeronautical information services (AIS) organizations and military organizations using the EAD service (Clients planned transition to eEAD)
<p>NM applications and services changed</p>	<ul style="list-style-type: none"> • First eEAD Operational Service and Systems to be introduced • No change in Legacy Operational EAD Service or Systems
<p>Impact category on external users</p>	<ul style="list-style-type: none"> • Introduction of a new Human-Machine Interface • Introduction of new Digital Products

Impact description	eEAD B2C and B2B Services and Products will be ready as of 15 th May with the same OPS data on EAD and continuous Data Synchronization in active state. However, there will be no operational impact on stakeholders until they transition to the new eEAD.
Impact on NM Service Specifications	None
Operational deployment plan	No operational deployment plan
Users' early testing	<ul style="list-style-type: none"> • Early adopters are invited to access Wave2 Upgraded ShadowOPS Test System on 31st Mar (for B2C and B2B functionalities) • Other stakeholders will access to Wave2 Test System according to the transition plan
Related documentation	iNM Wave2 Help Portal

2.2 Other iNM Digital Product Increments under Wave2

2.2.1 RAD Improvements

Objective	To provide usability improvements requested by our stakeholders for RAD Application on iNM Digital Platform
Description	<p>This change addresses mainly bug fixing of the RAD Application based on the users' feedback and decisions taken by the RAD Management Group and endorsed by RNDSG.</p> <ul style="list-style-type: none"> - Read only access External users other than NRCs/LRCs will be allowed read-only access to the RAD Application. - Fixing of incomplete data in the Rolling RAD document and improvement of visualisation. Since Wave 0 the Rolling RAD document has a bug that results, in certain cases, in incomplete data being published. This fix addresses this particular case and will also print all the Valid from Valid until fields in the document.
Users potentially impacted and/or interested	<ul style="list-style-type: none"> • National and Local RAD coordinators • NMOC • Airspace Users or CFSPs
NM applications and services changed	<ul style="list-style-type: none"> • NMP RAD
Impact category on external users	<ul style="list-style-type: none"> • Impact on Human-Machine Interface • Impact on the timeline of data provision

Impact description	Quality improvements of the NMP RAD application
Impact on NM Service Specifications	None
Operational deployment plan	Deployed in operation along with the release migration
Users' testing	OPT test session is planned for selected users
Related documentation	iNM Online help (accessible from the application) RAD User Guide

2.2.1 iNM Disaster Recovery and Technical Maintenance Updates

- (1) iNM Disaster Recovery capability will be introduced for eEAD Digital Products
- (2) iNM Disaster Recovery capability will be activated also for Wave-O Digital Products: RAD, DNP and CAL. Legacy Fallback procedure will be decommissioned in case of a disaster.
- (3) Several technical maintenance updates for Wave-O Digital Products (RAD, DNP, CAL) will be applied (mainly COTS upgrades and fixes)

2.3 NM Core Technical Maintenance Updates under Wave2

2.3.1 NM B2B Changes

Objective	Provide efficiency for Airports in Passenger Demand Service Data calibration via NM B2B updates.
Description	<p>CR_056416-NM B2B Service: Provision of load factors</p> <p>Background:</p> <p>The NM Airport Unit provides the Passenger Demand Support Service to various airport operators through NM B2B Services (since NM MAINT2) and a B2C (Power BI dashboard). This service predicts aircraft load factors and individual passenger counts per flight using outputs generated by machine learning.</p> <p>These outputs rely on continuous data inputs from airport operators, including historical load factors for operated flights. Currently, this data is</p>

	<p>uploaded manually via the Eurocontrol Extranet OneSky and Airport Corner interface.</p> <p>NM offers to Airport operators an automated solution, utilizing NM B2B Services, to replace the existing manual upload process via Airport Corner.</p> <p>Scope: This Change Request (CR) introduces a provision for airport operators to upload historical load factor data via NM B2B Services. The data will be sent to the offline Passenger Demand Repository maintained by the Airport Unit.</p>
Users potentially impacted and/or interested	<ul style="list-style-type: none"> • Airports • Airlines
NM applications and services changed	<ul style="list-style-type: none"> • NM B2B
Impact category on external users	<ul style="list-style-type: none"> • Impact on Machine -Machine Interface • No impact on existing NM B2B client applications as this is a new service.
Impact description	<ul style="list-style-type: none"> • Airport Operators will be able to receive EUROCONTROL data on predicted passenger demand via the NM B2B. The service will be available to the top 200 airports in the NM area. Airport Operators will need to adapt their systems to use the new features.
Impact on NM Service Specifications	None
Operational deployment plan	Deployed in operation along with the release migration
Users' testing	Part of the release OPT (Operational Testing) on PREOPS
Related documentation	New Edition will be added for Wave2 B2B Changes under NM-27.0 B2B documentation link

Objective	Provide flexibility to ANSPs for the efficient usage of NM B2B certificates during centralization of NM B2B service consumption.
Description	<p>CR_056926- NM B2B Service: Make the maximum number of subscription configurable per certificate</p> <p>Background: Some of the ANSPs have already started centralizing their B2B connections in one place and routing the messages internally to the various towers, instead of installing a B2B client in every tower.</p>

	<p>It is an optimal solution for resource consumption and cost saving reasons for our stakeholders and NM. Today NM B2B has a global maximum number of subscription limitation for all stakeholders. NM would like to provide flexibility to configure different maximum numbers of subscriptions per certificate, allowing B2B consumers who would like to do so to centralize their B2B connections.</p> <p>Scope: This technical NM B2B Change Request (CR) introduces configurable maximum number of subscriptions per certificate.</p>
Users potentially impacted and/or interested	<ul style="list-style-type: none"> ANSP
NM applications and services changed	<ul style="list-style-type: none"> NM B2B
Impact category on external users	<ul style="list-style-type: none"> No impact for NM B2B users on NM B2B systems (no adaptation is required by stakeholders)
Impact description	<ul style="list-style-type: none"> With this technical change, interested ANSPs could request from B2B Office to update their B2B certificate configuration and ask higher number of maximum subscriptions per certificate.
Impact on NM Service Specifications	None
Operational deployment plan	Deployed in operation along with the release migration
Users' testing	Part of the release OPT (Operational Testing) on PREOPS
Related documentation	Not applicable, Internal NM User Guides

2.3.2 Operating System Upgrade for NM Core Service: RHEL8.10 upgrade

- (4) This is one of the regular Operating System Maintenance activities. No Impact on NM stakeholders.
- (5) It will be performed during monthly TACT and IFPS maintenance windows described in schedule.

3 Schedule Details

3.1 Timetable for Wave2 Deployments on OPS:

System/SW Updated	Schedule	Remark	Impact during deployment/migration
Primary Wave2 Deployment			
eEAD System OPS Opening:	15/05/2025 at 08:00 UTC	Products operational: ADM, NOTAM, AIMSL, LREC, UOM, Full EAD OPS Data uploaded. EAD Data Sync fully active.	No impact on EAD OPS Services for Stakeholders during deployment Only EAD Data User services will be utilized by eEAD until stakeholder eEAD OPS transitions are completed
Wave2 Minor Technical Iteration: Digital Product Technical Upgrades			
eEAD Upgrade	03/07/2025 21:00-23:59 UTC (draft)	eEAD Disaster Recovery activated	No access to eEAD Service
RAD/DNP/CAL Upgrade	03/07/2025 21:00-23:59 UTC (draft)	RAD Functional Improvements RAD/DNP/CAL Disaster Recovery activated	No access to RAD/DNP/CAL service
Wave2 Minor Technical Iteration: NM Core System			
NM Core Technical Regular Maintenance Window for OS Upgrade: Platform OS, TACT, ENV, IFPS	20/05/2025 21:00-22:00 UTC	RHEL8.10 OS Platform Upgrade, Upgraded Systems: TACT, ENV to new OS (8.10) Build	Normal TACT maintenance window, no additional impact/unavailability.
	27/05/2025 00:00-01:00 UTC	Upgraded Systems: IFPS to new OS (8.10) Build	Normal IFPS maintenance window, no additional impact/unavailability.
NM B2B Changes	17/06/2025 21:00-22:00 UTC	Patch B2B System during regular maintenance window.	Only NM B2B Service shortly to be impacted during patching, no unavailability. No new NM B2B Version (only new edition under NM-27.0 B2B documentation)

3.1.1 EAD OPS Service Impact

- (6) Wave2 iNM eEAD OPS Deployment in May has no direct impact on the Stakeholder EAD OPS Service Usage.
- (7) During May deployment, only EAD Data User services will be utilized by iNM eEAD System.
- (8) Wave2 eEAD will start to send data to EAD OPS systems, only after the completion of first cluster of organization eEAD OPS transition steps, ~Sep (ref [transition plan](#))

3.2 Release Webinar or Stakeholder Events-Trainings

- (9) No Release webinar planned.
- (10) eEAD Trainings are scheduled in coordination with Eurocontrol Aviation Learning Centre (ALC) starting May, all summer for our stakeholders between 12th May and 29th Aug.
- (11) Virtual trainings will also be offered between September and December, also in coordination with the Eurocontrol ALC

3.3 Stakeholder Operational Test Plan for Wave2

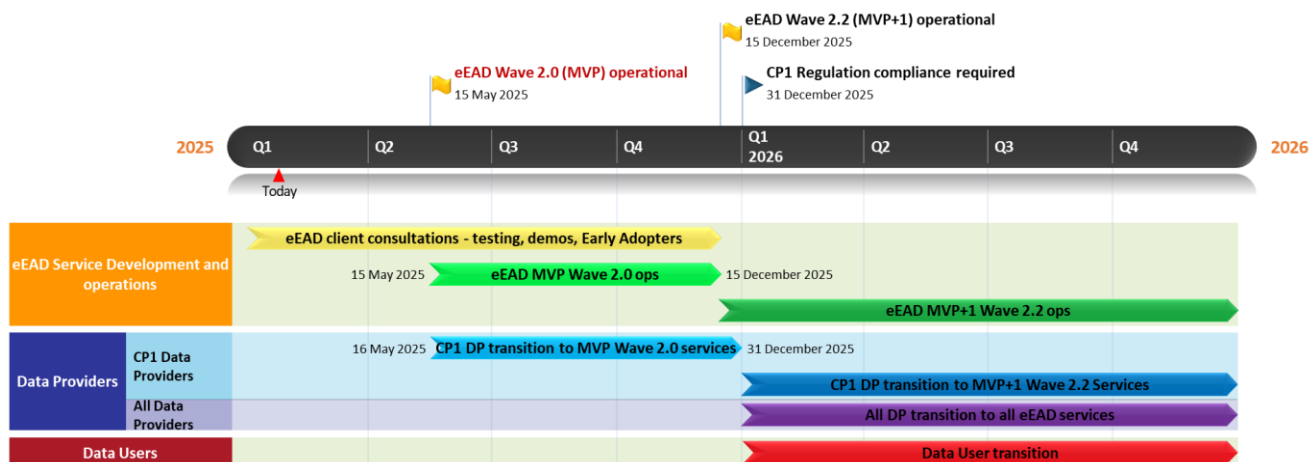
3.3.1 eEAD Wave2 Testing

- (12) ShadowOPS Test Environment has been updated as Wave2 Test System to showcase the first phase of the eEAD capabilities to the stakeholders.
- (13) End of March, it is opened first to Early Adaptors. But there is a plan soon to open to all CP1 stakeholders. Date to be confirmed.
- (14) Wave2 Test Environment showcase B2C ad B2B eEAD capabilities according to the interest of our stakeholders.

3.3.2 NM B2B Service Operational Testing

- (15) There is NM B2B PREOPS session planned for Wave2 before OPS Migration. **NM B2B PREOPS platform will be upgraded on 19th May** to Wave2, 4w before OPS migration.
- (16) NM offers a pre-operational (PREOPS) platform that NM B2B users can use for testing purposes. The software to be released in the new NM release is deployed on the PREOPS platform around 4 weeks before its deployment in operations, so that users can start working on the new API prior to operational deployment. PREOPS services remain available after the operational release.
- (17) The PREOPS platform is not the operational platform. The quality of the PREOPS services may be lower than the quality of the operational services. In particular, the availability is not guaranteed 24/7, as support is only available during office hours. Additionally, the quality of the data on the PREOPS platform depends on the specific service groups (please see the NM B2B Reference Manuals for further details).

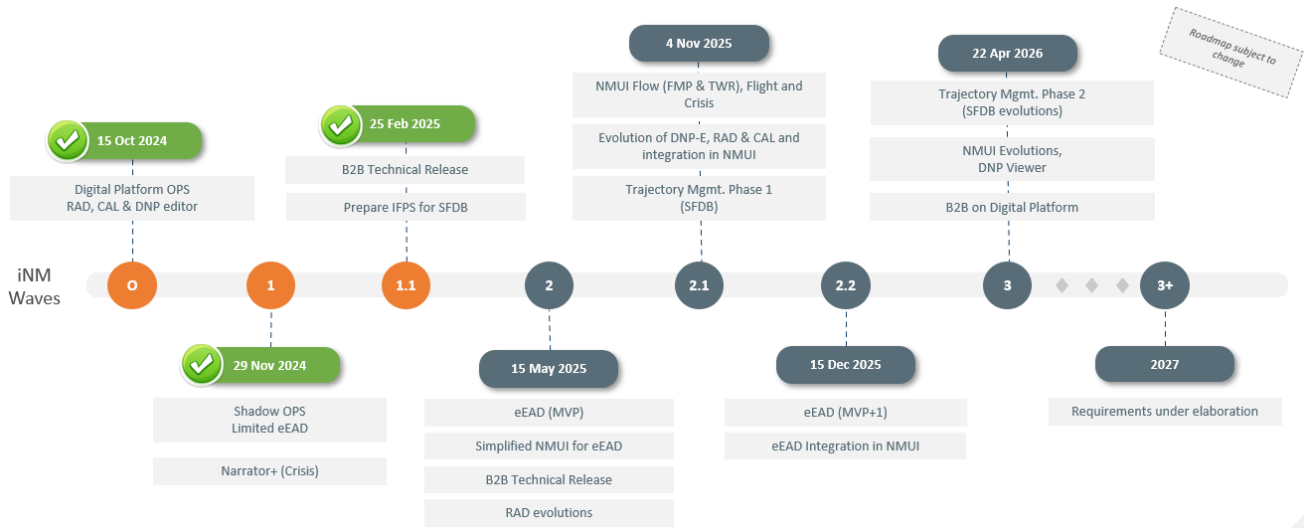
3.4 High Level eEAD Stakeholder Transition Plan



- (18) The EAD clients will be transitioned to the eEAD system, grouped by priority.
- (19) The first priority is the transition of Data Providers subject to the CP1 regulation in 2025, who will move to the services made available in phase 1 of the eEAD.
- (20) As of 2026, the transitions will continue to the services delivered in phase 2, covering all remaining non-CP1 Data Providers and Data Users of the EAD.
- (21) In 2025, the CP1 Data Providers are organized into three clusters, with all clients one cluster expected to progress through the transition phases in alignment.
- (22) Each transition is composed of 5 phases, where the Phase 5 is transition into operations, i.e. in the eEAD production environment.
- (23) The transition planning is constantly updated with the client and updates coordinated within the NM.

4 iNM High Level Wave Roadmap

iNM current provisional roadmap:



The above is a provisional illustration – Subject to change and pending validation

- (24) The EUROCONTROL Network Manager (NM) has embarked on a digital transformation journey to replace its core legacy systems which have successfully ensured flow and network management for over 25 years.
- (25) Known as iNM – the integrated Network Management programme will put in place a range of innovative Digital Products enabling EUROCONTROL, in its capacity as the Network Manager designated by the European Commission, to maximise the efficiency, safety and sustainability of the European aviation network through a new generation of cutting-edge, resilient and scalable operational systems.
- (26) The iNM programme envisages, by 2030, the incremental renewal of all the NM's main operational systems, resulting in a new digital architecture that will harness the power of innovation and enable NM to deliver ever more integrated business services and products to its stakeholders.
- (27) iNM will enable NM to transform its business services, resulting in three key deliverables:
 - a) A unique dynamic airspace system that eliminates overlaps and inconsistencies between legacy systems and databases.
 - b) A Single Flight Manager System (SFDB) to seamlessly manage both flight & flow domains.
 - c) One API for internal and external human machine interfaces.
- (28) NM Strategic Development Programmes will be also delivered under iNM Waves. They are aiming to achieve the strategic objectives of the [NSP](#) (Network Strategy Plan), and fully aligned with the ATM functionalities defined in the CP1 (Common Projects One) implementing regulation and the corresponding SESAR Deployment Programme.

5 NM B2B Focus

- (1) This section provides general information related to NM B2B Documentation.
- (2) Most NM B2B resources can be found from links in central NM B2B web page:
<https://www.eurocontrol.int/service/network-manager-business-business-b2b-web-services>, including the NM B2B access request form.
- (3) The entire NM B2B documentation, including technical, business, and operational aspects, can be found [here](#).

6 Contact

- (4) The new eEAD Service Desk will be available as of 15th May 2025 and User manual and access links will be distributed by 15th May.
- (5) Therefore, starting from the 15th of May, all questions and requests for support on eEAD should be submitted through the new eEAD Service Desk.
- (6) Users who wish to automatically receive by email the new editions of the NM Release Notes (and other communications related to the NM software releases) are invited to register at:
 - a) <http://www.eurocontrol.int/network-operations/self-registration-form>
(Within the form, choose "Subscribe to receive e-mail notifications when the NM Release Notes are updated" in the field "Purpose of the request".
 - b) Questions or comments related to this document should be sent to:
nm.releases@eurocontrol.int

7 Technical Details and Compliance

7.1 Recommended Browsers, Operating Systems and HW Specifications

Recommended Browser requirements:

- (1) For NM web applications (eEAD, NMP, Portal), NM recommends primarily following browsers:

Recommended Browser Brands	Comment/Versions
Google Chrome	Last not deprecated version 109 or later (released January 2023)
Mozilla Firefox	Last not deprecated version 115 or later (released July 2024)
Microsoft Edge	Last not deprecated version 126 or later (released August 2023)
Apple Safari	Last not deprecated version 17.5 or later (released May 2024)

- (2) 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
- (3) For any other browser brand or version, issues will be analysed & resolution attempted on a best effort basis.

Recommended Operating System (OS) requirements:

- (4) For all its client applications (web applications (like eEAD, NMP, Portal etc) and CHMI), NM recommends the following operating system (OS):

Microsoft Windows	Microsoft Windows 10 64-bit Microsoft Windows 11 64-bit
macOS	macOS 12, macOS 13, macOS 14

Important:

- - **Microsoft Windows 10** end of support: 14 October 2025
- (5) For this recommended OS, NM undertakes to investigate and attempt to resolve problems – For any other OS or OS version, issues will be analysed, and resolution attempted on a best effort basis.
- (6) Please note that Microsoft Windows 11 64-bit has been added explicitly to the supported OS list.
- (7) NM application updated installation instructions with Windows11 will be soon available and distributed to the relevant ANSP/FMPs who are already receiving these instructions from NM.

Recommended hardware requirements for eEAD:

The following computer specifications are recommended for an optimal eEAD experience:

- **CPU:** Intel Core i5 (11th Gen or newer), or AMD Ryzen 5 5600 or newer as an alternative
 - **RAM:** 16GB
 - **Storage:** 512GB NVMe SSD
 - **Display:** Full-HD (1920x1080)
- (8) Please note that **eEAD B2C Products are not required to be installed on client Terminals/HW at Wave2**, since it is web-based application to be used over the browsers installed on the Terminal.
- (9) However, starting Wave 2.2 in December 2025, New Briefing Box and AIP Client remain as FAT clients and will be installed on client terminals. It will impact only Briefing Box and AIP Client users.

Recommended hardware requirements for NMP:

- (10) We plan to publish in next Release Notes editions in May, HW requirements about NMP Future products (Flight/Flow) in Wave2.1 for optimum best experience (like recommended Display, CPU, RAM, GPU-Graphical Processing Unit).

7.2 Technical Documentation

7.2.1 eEAD Service Specific Technical Documentation about accessibility

- (11) Initial User Access and Technical Guides has been published in [iNM Wave2 eEAD Help Portal](#) with 2 technical documentation for eEAD Client Security Officer interest:
- [Wave2 User Access and Technical Guide for iNM eEAD OPS and Test](#)
 - [Wave2 eEAD PENS User Access Guide for eEAD OPS](#)
- (12) First version will evolve according to initial stakeholder feedback. We will keep you posted for all updates that should be taken care.

7.3 NM Service Specifications

- (13) NMD has created specifications that define the following services provided by the Network Manager:
- **eEAD service**
 - Airspace data
 - Flight planning
 - Flow and capacity management
 - Central Code Allocation Management (CCAMS)
- (14) Please note that as of iNM Wave 2, the eEAD Service Specification is created for the EAD service provided through the eEAD Digital Products.
- (15) These NM Service Specifications cover at a high-level the functionality, performance and interfaces with the environment as well as the definition of the degraded modes of the service

delivery. They support the agreements between the NM as service provider and other organisations and aviation undertakings as users of the services listed above.

- (16) The NM Service Specifications will be in due time available upon request to nm.sqs@eurocontrol.int

7.4 Statement of Compliance (SOC)

- (17) This section will be updated in next edition according to the updated Statement of Compliance (SoC).



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