



iNM Wave 2.4 Release Notes

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Wave 2.4 Release Products: eEAD Release for stable B2C functions and data synchronization



DOCUMENT CHARACTERISTICS

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

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1 Overview

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

Key Objectives at iNM Wave 2.4

iNM Wave 2.4 is an eEAD Release that delivers the set of B2C functions required for clients to achieve compliance with the Regulation 2021/116 Common Project One (CP1), enhancing the earlier iNM Wave with this scope further in terms of stability, reliability and performance. In addition, the connection between eEAD and EAD will enable full synchronization between the two systems..

The key objectives of Wave 2.4 are:

- To provide the B2C functions required for clients to achieve compliance with the CP 1 Regulation
- To allow the eEAD – EAD data synchronization.

Wave 2.4 marks the beginning of the client transition activities, providing the core B2C functions required to support compliance with the CP1 Regulation. Clients belonging to the first transition group will conduct the first phases of their transition using this software release. Their transition process will be completed with the Wave 2.5 release of eEAD, for which additional Release Notes will be provided.

While Wave 2.5 will introduce new capabilities, especially for B2B, the core B2C functions delivered in Wave 2.4 will remain unchanged between the two releases.

2 What is New at Wave 2.4

2.1 Wave 2.4 eEAD Product Updates

Objective	iNM Wave 2.4 main objective is to deliver a stable, reliable and performant set of functions required by B2C clients to achieve compliance with the CP1 Regulation. Wave 2.4 release will also ensure a stable and continuous synchronisation between EAD OPS and eEAD OPS environments supporting stakeholders with their transitions, service by service.
Description	<p>Value of the Wave 2.4 :</p> <ul style="list-style-type: none"> • Provides the set of functions for B2C clients to support compliance with the applicable regulation. • Ensures robustness of the synchronisation mechanisms between eEAD and EAD SDD/INO operational data.

	<p><u>eEAD Product based key highlights in Wave 2.4:</u></p> <ol style="list-style-type: none"> 1. Conventional NOTAM (C-NOTAM): <ul style="list-style-type: none"> • Main Objective: Ensure that the availability of Conventional NOTAM management functions for B2C clients. • Ensure initial load of all valid NOTAM data into eEAD-CNOTAM and continuous synchronization of NOTAMs into CNOTAM from EAD-INO OPS. • Resolved approximately 40 CNOTAM synchronisation defects between CNOTAM and INO, improving consistency, integrity, and completeness between the two systems. 2. AIS Data Maintenance (ADM) <ul style="list-style-type: none"> • Main Objective: ensure that the availability of Data Management and Digital NOTAM management functions for B2C clients in a prescribed workflow • Ensure continuous download of WW SDD data from EAD-OPS into eEAD-ADM. <ul style="list-style-type: none"> ○ Critical to monitor one-directional synchronization with EAD-SDD OPS data which is evolving continuously with actual operational data modification use cases. • In Wave 2.4, synchronization between eEAD-ADM and EAD-SDD are ready to be monitored. <p>Detailed descriptions of eEAD Products and user guides are available via the iNM Help Portal, links below.</p>
Users potentially impacted and/or interested	<ul style="list-style-type: none"> • Wave 2.4 marks the beginning of the client transition activities and delivers the core B2C functions required for CP1 compliance. The transition of this first group of clients will be finalized with the eEAD Wave 2.5 release, for which additional Release Notes will be provided. The core B2C functions introduced in Wave 2.4 will remain unchanged in Wave 2.5. • No OPS EAD-SDD/INO data modifications are planned through the eEAD in Wave 2.4.
NM applications and services changed	<ul style="list-style-type: none"> • eEAD Systems Updated : CNOTAM (Conventional Notam) system • No change in the current EAD Service or Systems
Impact category on external users	No Impact
Impact description	NA
Impact on NM Service Specifications	None

Operational deployment plan	26 th May 2026 Wave 2.4 deployment and activation of the synchronization between - OPS eEAD-ADM – OPS EAD-SDD - OPS eEAD-CNOTAM – OPS EAD-INO , more details in Deployment Timetable
Users' early testing	EAD clients will use Wave 2.4 in the initial phases of the transition.
Related documentation	https://help.nmui.eurocontrol.int/home/en-gb/ for the eEAD User Guides and Training Workbooks

3 Schedule Details

3.1 Timetable for Wave 2.4 Deployments on OPS:

System/SW Updated	Schedule	Remark	Impact during deployment/migration
Primary Wave 2.4 Deployment			
eEAD System Go Live Activation:	26/05/2026	Products operational: ADM, NOTAM, AIMSL, LREC, UOM, This milestone includes completion of the following activities: - Initial Data Load into eEAD-ADM with WW-SDD data over EAD-OPS - Initial Data Reconciliation/ Synchronization of CNOTAM with EAD OPS INO data - Activate continuous data synchronization	No impact for Stakeholders during the deployment and activation of Wave 2.4.

3.1.1 EAD OPS Service Impact

- (1) Wave 2.4 delivers the set of B2C functions required for clients to achieve compliance with the Regulation 2021/116 Common Project One (CP1). A first group of EAD clients will initiate the transition to the Wave 2.4 release. Wave 2.4 eEAD OPS is planned to download INO and SDD data with continuous synchronization of modifications, no human intervention required.

3.2 Release Webinar or Stakeholder Events-Trainings

- (2) No Release webinar planned.
- (3) Wave2.4 transition trainings will start on 1st June according to the stakeholder training plan.
- (4) Regular SSG Events with the updates in eEAD.

3.3 Stakeholder Operational Test(OPT) Plan for Wave 2.4

3.3.1 eEAD Wave 2.4 Testing

- (5) Wave2.4 Ph2 Client Transition OPT Test system is already available as of May 2026, and access details are communicated to the stakeholders

4 iNM High Level Wave Roadmap

iNM current provisional roadmap:



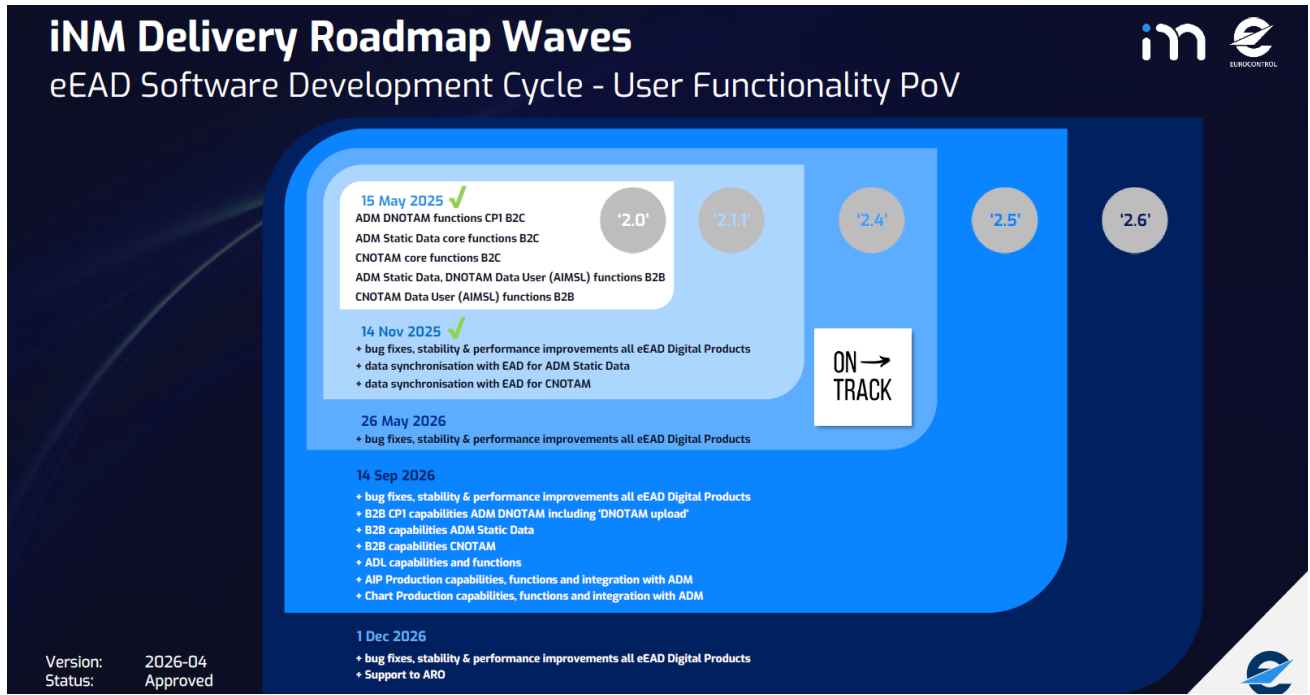
The roadmap above is provisional, subject to change and pending further validation. (2026-05 updated version)

- (1) 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.
- (2) 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.
- (3) 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.
- (4) 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.
- (5) 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.

4.1 iNM eEAD Roadmap : User Functionality Evolution

(6) iNM Program defines evolution of eEAD User Functionalities with following Roadmap:



The above is a provisional illustration – Subject to change and pending validation (2026-04 updated last version)

5 Technical Details and Compliance

5.1 Recommended Browsers, Operating Systems and HW Specifications

Recommended Browser requirements:

- (1) For NM web applications (eEAD Digital Products, NMUI Digital Products), NM recommends primarily following browsers:
 - Google Chrome
 - Mozilla Firefox
 - Microsoft Edge
 - Apple Safari
- (2) NM recommends that browsers be updated frequently (up to 3 months recommended).
- (3) For these recommended browser brands and versions, NM undertakes to investigate and attempt to resolve problems that can be reproduced on the latest stable version of that brand.
- (4) For any other browser brand or version, issues will be analysed & resolution attempted on a best effort basis.

Recommended Operating System (OS) requirements:

- (5) For all NM client applications, NM recommends the following operating system (OS):

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

Important:

- (6) 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.

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)
- (7) Please note that **eEAD B2C Products are not required to be installed on client Terminals/HW at Wave 2.4**, since it is **web-based** application to be used over the browsers installed on the Terminal.

- (8) However, starting Wave 2.5 in September 2026, AIP Client remains as FAT clients and will be installed on client terminals. It will impact only AIP Client users.

5.2 Technical Documentation

5.2.1 eEAD Service Specific Technical Documentation about accessibility

- (9) There are three user guides describing different areas of accessibility and technical requirements for local systems.

- (10) **User Access and Technical Guide for eEAD OPS and Test Access:**

Link: [User Access and Technical Guide for iNM eEAD OPS and Test](#)

It is **overall access and technical details guide**. This access guide document describes:

- Primary network access methods(Internet vs PENS) and conditions for eEAD OPS and Test Systems Access
- Focuses on how to configure local network for eEAD access over Internet, lists all test and OPS eEAD system access addresses to be configured in the local network.
- HW, OS, Browser technical requirement list
- eEAD B2C Login Guide via MFA, Prerequisites, First Time Okta Account Activation
- eEAD B2B Access Overview, B2B Certificate Generation, B2B AIMSL/AMQPS Technical Access Details
- EAD Test System1 access guide

- (11) **eEAD PENS User Access Guide for eEAD OPS:**

Link: [eEAD PENS User Access Guide for eEAD OPS](#)

This access guide document describes:

- Focuses specifically on eEAD OPS access over the PENS network.
- EAD VPN usage, Eurocontrol Network, B2B and B2C service access design over PENS network and local network configuration guidelines for ANSP Network Team.

- (12) **NM Secure Internet Access Solution:**

- Link: [NM Secure Internet Access Solution](#)

This access guide document describes:

- How Eurocontrol introduced a Secure Internet Access Technical Solution to enable access to selected NM B2C digital services over the public Internet

5.3 NM Service Specifications

- (13) NMD has created specifications that define the following services provided by the Network Manager:
 - i) Airspace data
 - ii) Flight planning
 - iii) Flow and Capacity Management
 - iv) Central Code Allocation Management (CCAMS)
 - v) eEAD service
- (14) 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.
- (15) The NM Service Specifications will be in due time available upon request to nm.sqs@eurocontrol.int

6 Contact

- (16) **For all eEAD Service specific operational and technical questions and requests** on eEAD Operational Test-Transition Systems (OPT) and later OPS eEAD System, please contact with eEAD Servicedesk from below address:

<http://servicedesk.ead.eurocontrol.int>

We will appreciate clearly to describe on which eEAD system the problem occurs.

- (17) **For Release Notes notifications;** 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



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