

Supporting  
European  
Aviation



# Presentation of NM-26.0

## FB1170: FF-ICE/R1 services Correction & Tuning

v1.1



NETWORK  
MANAGER



# 1- Stakeholder(s) impacted

- Airspace User (Civil)
- AO or CFSP
- Air Navigation Service Provider (ANSP)

FB1170	Service affected				
	Flight Planning	Flow	Aeronautical Information/AS data	Reporting	Other
Internal computation					
Data structure	Yes				
User Interface					
Procedures	Yes				
Training	Yes				
B2B	Yes				
Other					

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

## 2- Background – Why

- FB1170 is an incremental step towards the ICAO FF-ICE/R1 specification and FIXM v4.2.0
- The FF-ICE will eventually replace the current ICAO procedures and processes for the filing of a flight plan, and provide the means for the exchange of flight plan data, including trajectory and aircraft performance.

## 3- New features

- New features:
  - Access to the eFPLs' Performance Profile and Aircraft Take-off Mass
  - NM inclusion of "AO4DT" to indicate the use of eFPL trajectory
  - FF-ICE Notification Service
  - Support eFPLs with ADEP/ADES not having ICAO location indicator
  - eFPL Submission Response and Filing Status updates via Publish/Subscribe
  - Improve clarity of NM feedback
- **As from NM-26, only eFPLs using FIXM v4.2.0 will be supported by NM.**

### 3- New features - Access to the eFPLs' Performance Profile and Aircraft Take-off Mass

- Only users with ANSP certificates will have access to the eFPLs' Flight Specific Performance Data and Weight information (considered sensitive information).
- ~~The existing DAA (Delegated Access Administration) tool can be used by eAUs to control the access to their eFPLs.~~
  - ~~Note: The DAA details are explained in the NOP Portal On-line Help as provided with NM-19.5 ([https://www.nm.eurocontrol.int/HELP/webframe.html#DAA\\_Delegated\\_Access\\_Administration.html](https://www.nm.eurocontrol.int/HELP/webframe.html#DAA_Delegated_Access_Administration.html))~~

### 3- New features - NM inclusion of “AO4DT” to indicate the use of eFPL trajectory

- NM will include the abbreviation "AO4DT" within the Field 18 RMK (Remark) indicator **of both ICAO2012 and ADEXP FPLs formats** to indicate the use of eFPL trajectory
- Examples:
  - ADEXP: -RMK TCAS PAX FLIGHT AO4DT
  - ICAO2012: RMK/TCAS PAX FLIGHT AO4DT

### 3- New features - FF-ICE Notification Service + eFPLs with ADEP/ADES not having ICAO code

- NM will provide the FF-ICE/R1 Notification Service: NM will process the Flight Arrival and Flight Departure information (equivalent to DEP and ARR messages) sent by ANSPs and distribute the associated information.
- NM will support the provision of structured route/trajectory of eFPLs with the ADEP or ADES not having ICAO location indicator (using Aerodrome name and Reference location)
  - *Note: The Reference location information is mandatory*

## 3- New features - eFPL Submission Response and Filing Status updates via Publish/Subscribe

- Submission Response updates following manual intervention:
  - If the eFPL is valid, NM provides a Submission Response of ACK, associated warning(s) (if any), a Filing Status of ACCEPTABLE and the Agreed Trajectory
  - If the eFPL is invalid, NM provides a Submission Response of REJ and the associated error(s) and warning(s) (if any)
- Filing Status updates following the eFPL re-evaluation process:
  - If the eFPL becomes invalid, NM will provide a Filing Status of NOT ACCEPTABLE and the associated error(s) and warning(s) (if any)
  - If the eFPL becomes valid, NM will provide a Filing Status of ACCEPTABLE and the Agreed Trajectory



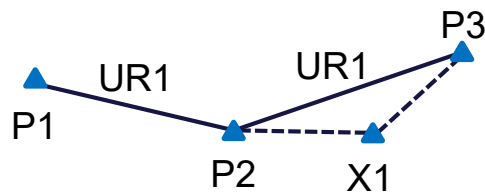
### 3- New features - Improve clarity of NM feedback (Error / Warning messages)

- NM-25.0 (current):

WARN313: TRAJECTORY INFO DISCARDED (NOT ON ROUTE : X1 PT)

NM-26.0: The route will be included:

WARN313: TRAJECTORY INFO DISCARDED (POINT X1 NOT ON SEGMENT P2 UR1 P3)



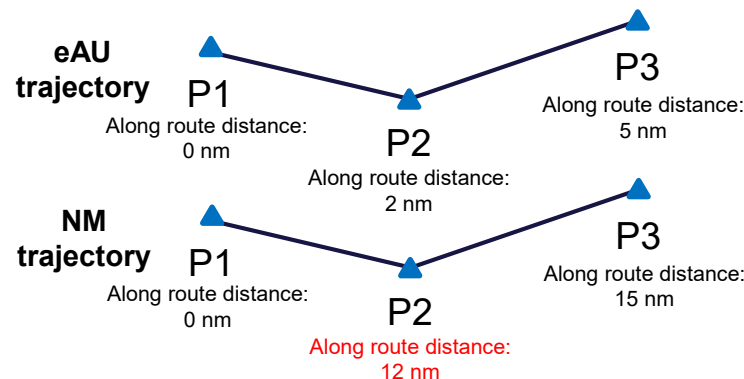
Route/Trajectory Element Start Point	Route to Next Element
P1	UR1
P2	UR1
X1	UR1
P3	UR1

- NM-25.0 (current):

WARN313: TRAJECTORY INFO DISCARDED (INCONSISTENT DISTANCE : ALL INFO DISCARDED)

NM-26.0: The route or trajectory segment that raised the error will be included:

WARN313: TRAJECTORY INFO DISCARDED (ALONG ROUTE DISTANCE INCONSISTENCY BETWEEN P1 AND P2 : ALL TRAJECTORY INFO WAS DISCARDED)



## 4- Impact description

- Users (AO/CFSP) of FF-ICE eFPL will need to adapt their systems to use the new features - *e.g. Users processing eFPLs in FIXM v4.1 have to update their software to FIXM v4.2.0*
- As “AO4DT” will be included in the RMK/ (free-text) of the Field 18, ANSPs that do not need to make use of this information do not have to update their systems.

# Documentation on FIXM and FFICE

- FIXM CCB
  - *FIXM User Manual* (previously *FIXM Implementation Guidance*)  
<https://docs.fixm.aero/>
- ICAO (*draft material*)
  - PANS-ATM (Doc 4444)
  - FF-ICE Manual (Doc 9965)
    - Vol. 1 – FF-ICE Concept
    - Vol. 2 (New) – Implementation Guidance
- NM:
  - *NM B2B Reference Manual*
    - *FF-ICE services, FF-ICE Services Extended Manual and Validation Rules, etc.*
  - *IFPS Users Manual*
  - *EUROCONTROL Network Manager Release Notes NM-26*

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