



SUMMARY

ICAO EUR/NAT FF-ICE Workshop
(Paris, 17-19 February 2026)

Abbas Niknejad

Regional officer, ANS, ICAO EUR/NAT office

**INTERNATIONAL
CIVIL AVIATION
ORGANIZATION**



Introduction

- ICAO EUR/NAT FF-ICE Workshop was held at the ICAO EUR/NAT Office in Paris, from 17 to 19 February 2026.
- The Workshop was attended by 67 participants from 20 EUR and NAT States and 8 Organizations/Industries.





ICAO EUR/NAT FF-ICE Workshop

(Paris, France, 17-19 February 2026)

WORK PROGRAMME

(Version 2.2)

DAY 1 (17 February 2026)		
10:00	Session 1.1: Opening / Global provisions Opening/welcome notes FF-ICE Global Concept and Provisions	Elkhan Nahmadov (ICAO) Crystal Kim (ICAO)
11:00	Coffee Break / Group photo	
11:30	Session 1.2: FF-ICE - relationship with SWIM and TBO How FF-ICE is related to other ICAO initiatives (SWIM, TBO, ATFM, etc.) European TBO Roadmap	Crystal Kim (ICAO) Olivia Nunez (SESAR JU)
12:30	Lunch Break	
14:00	Session 1.2: FF-ICE - relationship with SWIM and TBO – Cont'd SWIM concept & implementation in EU Session 1.3: FF-ICE implementation FF-ICE CP1 Mandate	Per Erland Andersen (SDM) Per Erland Andersen (SDM)
15:00	Coffee Break	
15:30	Session 1.4: FF-ICE implementation EUROCONTROL Network Manager's implementation of FF-ICE FF-ICE through scenarios Session 1.5: ANSPs ROMATSA FF-ICE implementation	Donal Lalor (EUROCONTROL) Augustin Gheorghe (EUROCONTROL) Andreea Strat (Romania)
17:00	END OF DAY 1	

DAY 2 (18 February 2026)		
09:30	Session 2.1: ANSPs ANS of the Czech Republic SKEYES Belgium	Vladimir Cizek (Czech Republic) Alexandros Kokkinolambos (Belgium)
11:00	Coffee Break	
11:30	Session 2.2: Operator perspective CFSP approach Airline approach	Ekkehard Pfannenstiel (Lufthansa System) Thomas Eschenhagen (Lufthansa System) Samuel Eberle (Lufthansa Group - Swiss Air) Mateusz Kaminski (Lufthansa Group)
12:30	Lunch Break	
14:00	Session 2.2: Operator perspective – Cont'd IATA ARO approach Session 2.3: FIXM Data exchange model in support of FF-ICE (FIXM)	Carlo Verelst (IATA) Stephane Dubet (France) Hubert Lepori (FIXM CCB)
15:30	Coffee Break	
16:00	Session 2.4: FF-ICE implementation planning FF-ICE Implementation Strategy (Regional Transition Planning) FF-ICE Implementation Planning (FF-ICE Implementation Roadmap)	Crystal Kim (ICAO) Per Erland Andersen (SDM)
17:00	END OF DAY 2	

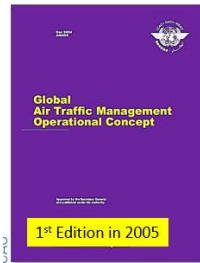
DAY 3 (19 February 2026)		
09:30	Session 3.1: States Roles, experience Experience and lessons learned from FF-ICE implementation EUR and NAT States' experience/opinion - Canada experience/opinion - EUR and NAT States discussion	Donal Lalor / Ioana Coliban (EUROCONTROL) Jason Rossiter (Canada) All
11:00	Coffee Break	
11:30	Session 3.2: FPL2012 cessation – Next steps FPL2012 cessation provisions	Crystal Kim (ICAO)
12:30	Lunch Break	
14:00	Session 3.3: FF-ICE TF TORs, wrap-up and closing FF-ICE TF TORs Wrap-up & closing	Abbas Niknejad (ICAO) All / ICAO EUR/NAT
16:00	END OF WORKSHOP	

1) FF-ICE Global Concept and Provisions (ICAO)



FF-ICE evolution:

01-vision



02-concept

- Detailed concepts & performance framework
- CDM/ATFM (Doc 9971)
 - FF-ICE (Doc 9965)
 - SWIM (Doc 10039)
 - TBO (TBD)
 - Connected Aircraft (TBD)
- ATM System Requirements (Doc 9882)
 - Global Air Navigation System Performance (Doc 9883)

03-planning

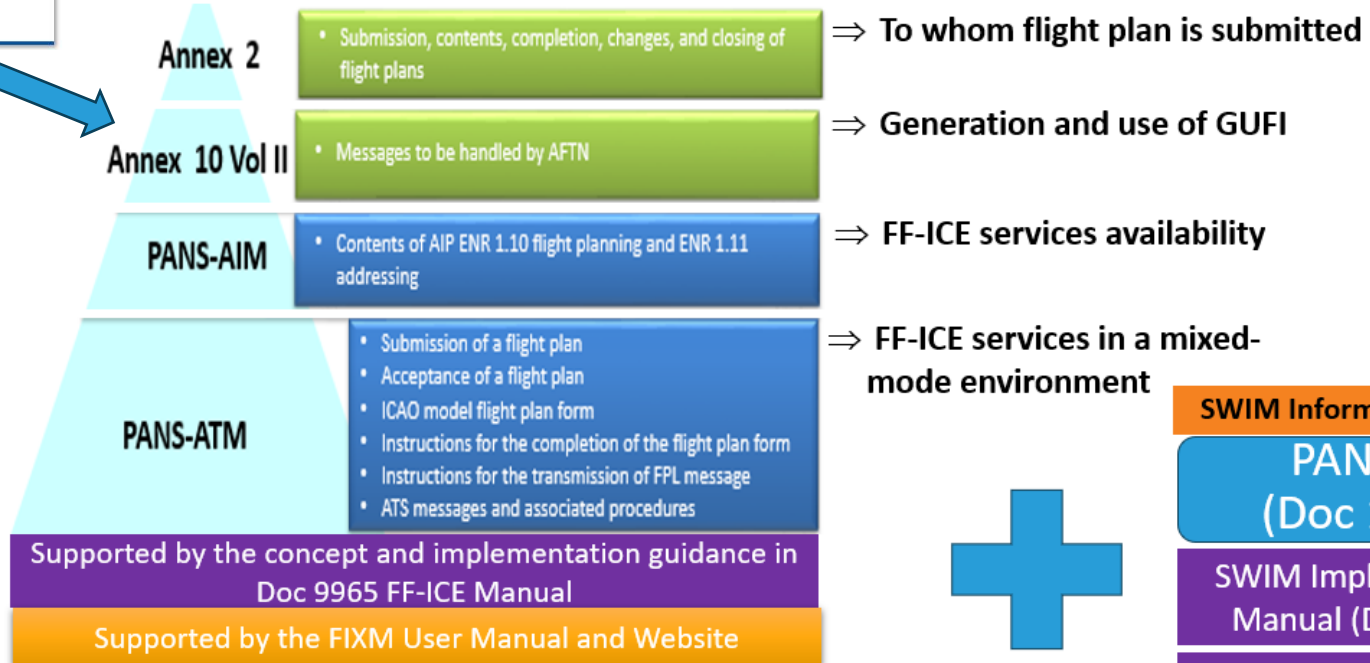


04-standardization



CONCEPT
(GATMOC, GANP, etc.)

IMPLEMENTATION
(SARPs, PANS, FF-ICE Manual, etc.)



Applicability date 28 November 2024
(on voluntary basis)

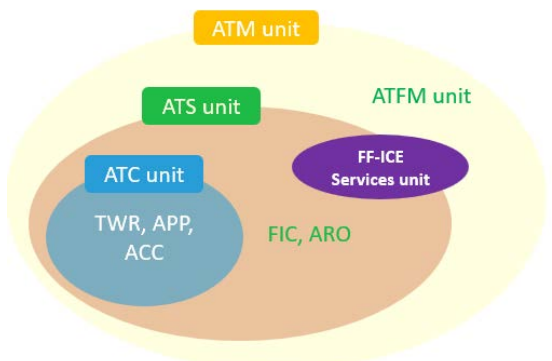


FF-ICE services

- A set of services established for the purposes of
 - facilitating exchange of **FF-ICE**, accurate assessment of demands, appropriate resource planning,
 - optimizing flight planning and execution.

FF-ICE services unit

- A unit **designated by the appropriate ATS authority** for the provision of FF-ICE services.



FF-ICE Services

Planning Service (Optional)

Related Messages:
 Preliminary Flight Plan Message
 Flight Plan Update Message
 Flight Cancellation Message
 Submission Response Message
 Planning Status Message

Filing Service (Mandatory)

Related Messages:
 Filed Flight Plan Message
 Flight Plan Update Message
 Flight Cancellation Message
 Submission Response Message
 Filing Status Message

Trial Service (Optional)

Related Messages:
 Trial Request Message
 Submission Response Message
 Trial Response Message

Flight Data Request Service (Mandatory)

Related Messages:
 Flight Data Request Message
 Submission Response Message
 Flight Data Response Message

Publication Service (Optional)

Related Messages:
 No specific messages defined. Information on flights that match a set of criteria are transmitted to registered subscribers in response to certain events or conditions. An eASP will indicate the events and/or criteria to which a subscriber can subscribe.

Notification Service (Optional)

Related Messages:
 Flight Departure Message
 Flight Arrival Message
 Submission Response Message

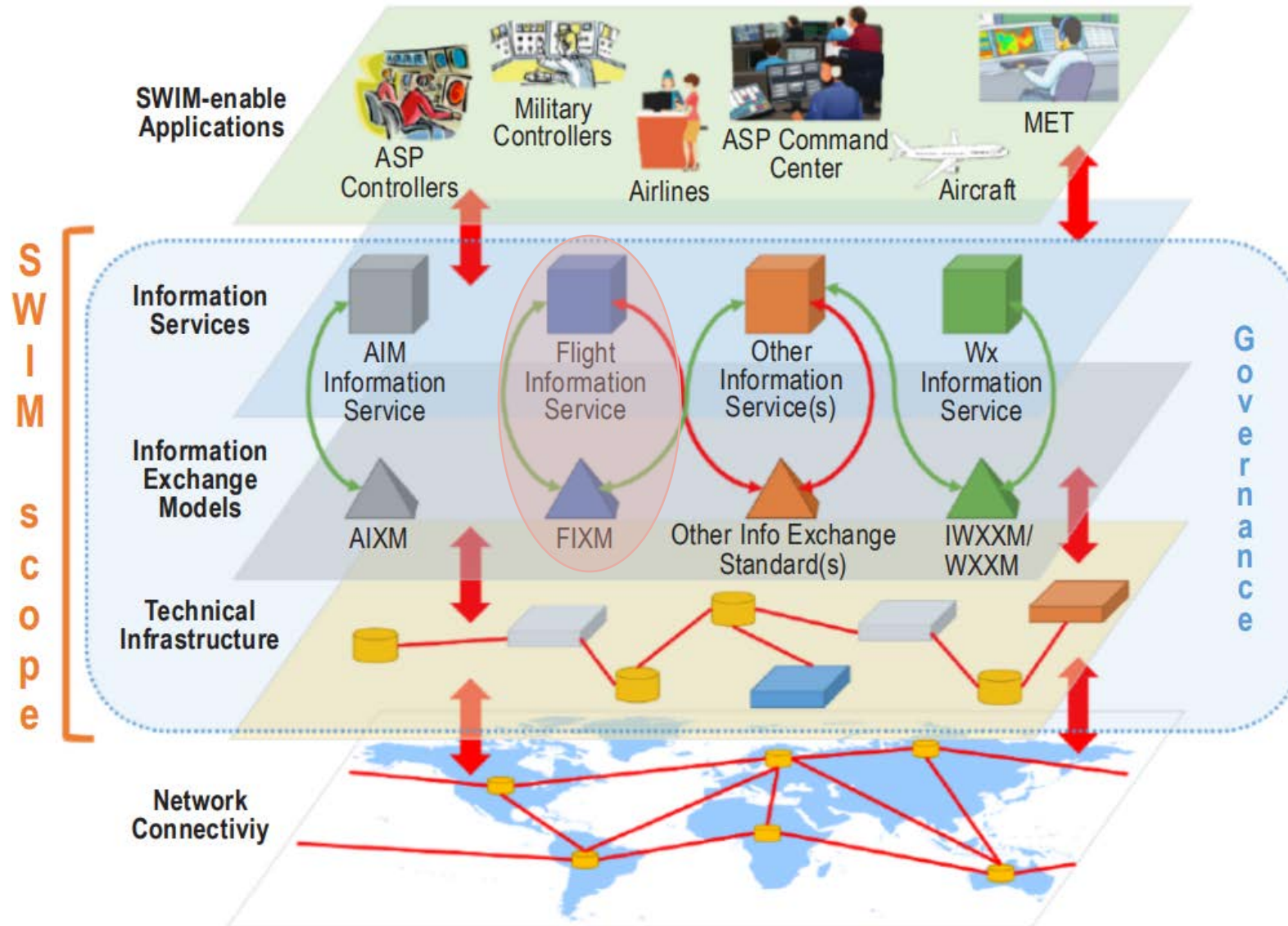
2) How FF-ICE is related with SWIM and TBO (ICAO)



- SWIM enables FF-ICE (No SWIM = no system-wide digital information exchange)
- FF-ICE enables TBO (No FF-ICE = no shared, collaboratively optimized trajectory)
- FF-ICE enhances ATFM (ATFM can exist without FF-ICE, but with FF-ICE it becomes far more predictive and collaborative)

Subject	Depends on SWIM	Depends on FF-ICE
SWIM	-	NO
FF-ICE	Yes	-
ATFM (Basic)	No	No
ATFM (Advanced)	Yes	Yes (strongly enhanced)
TBO	Yes	Yes (essential)

SWIM enables global interoperability required for FF-ICE services₇



3) European TBO Roadmap (SESAR JU)



NETWORK TBO

- **Initial FF-ICE Deployment**
- SWIM standard published by EUROCONTROL and used in operations
- **EU Mandate:** Airspace User uptake period 2024-2025



ATC TBO

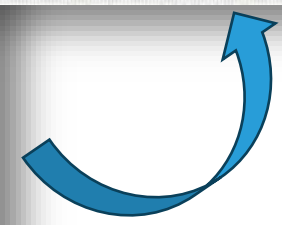
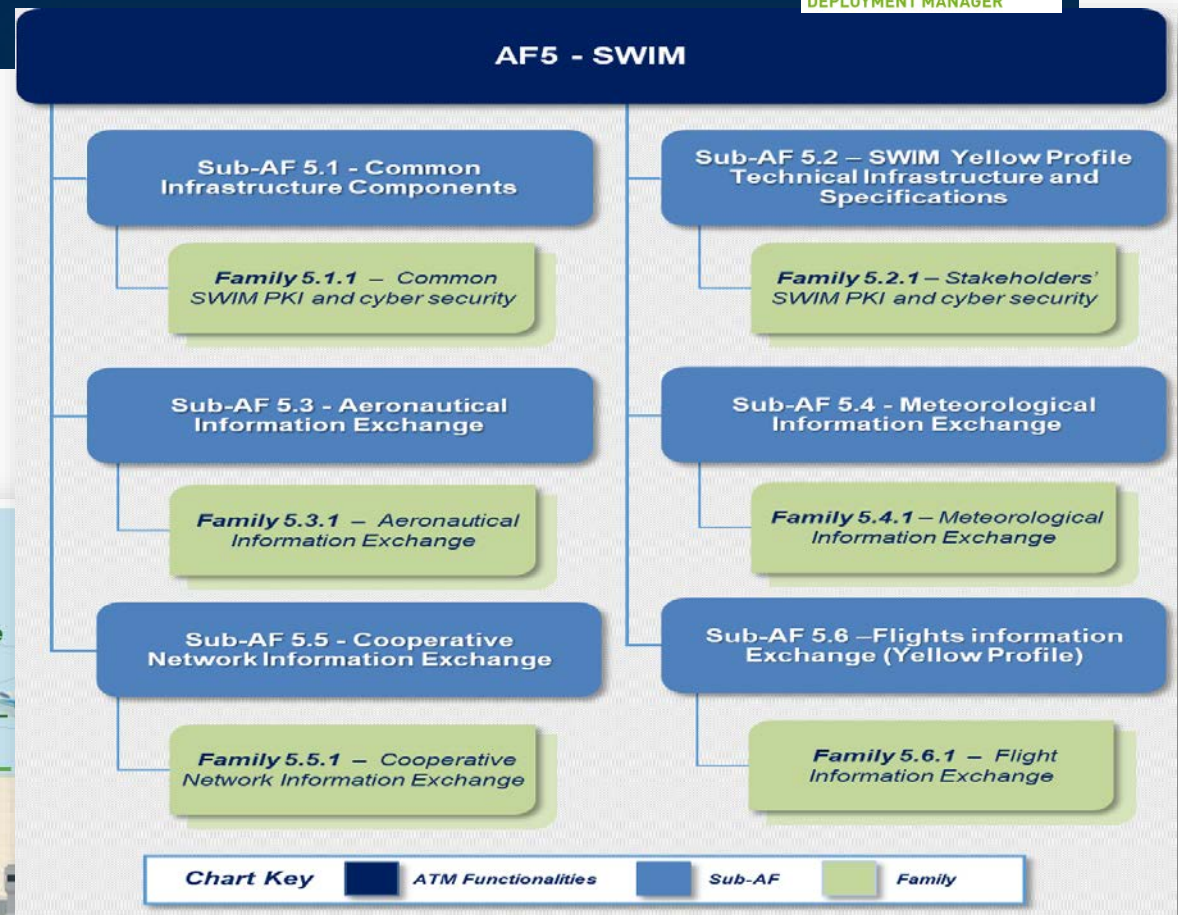
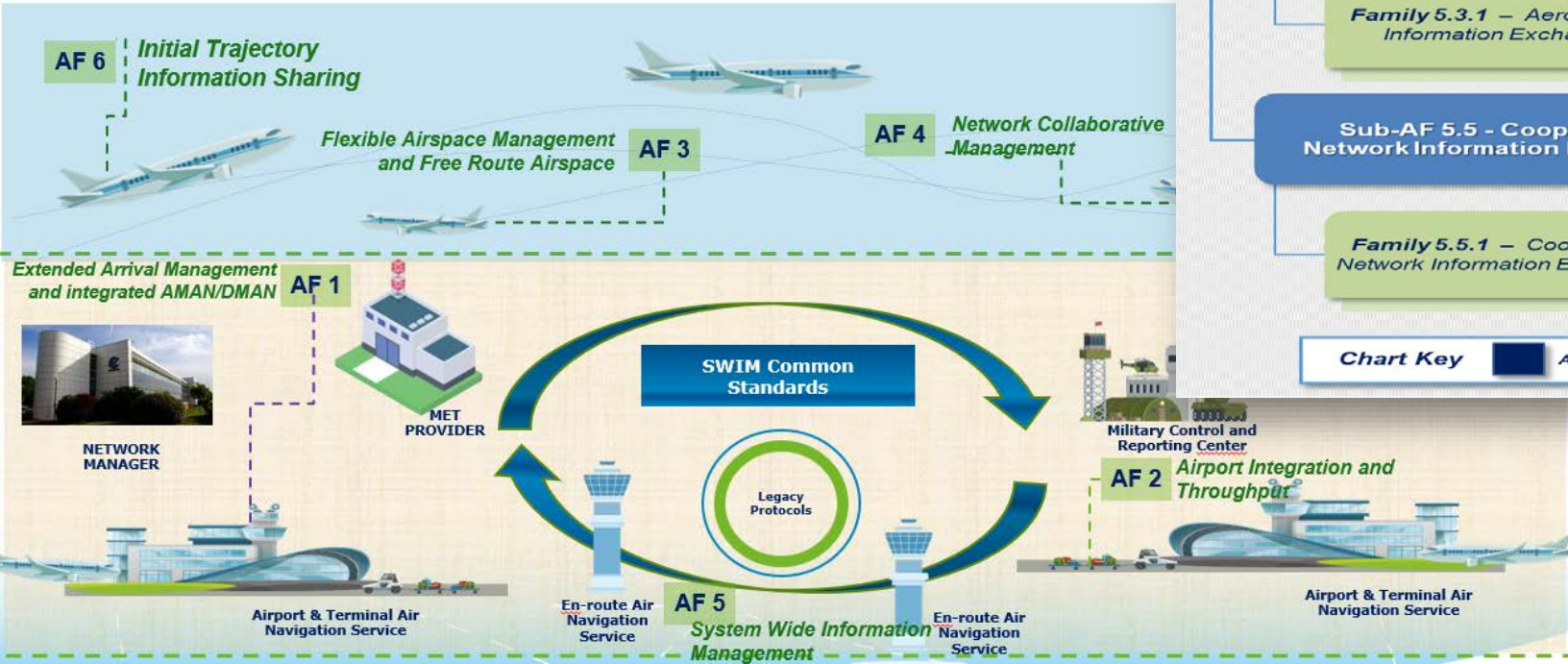
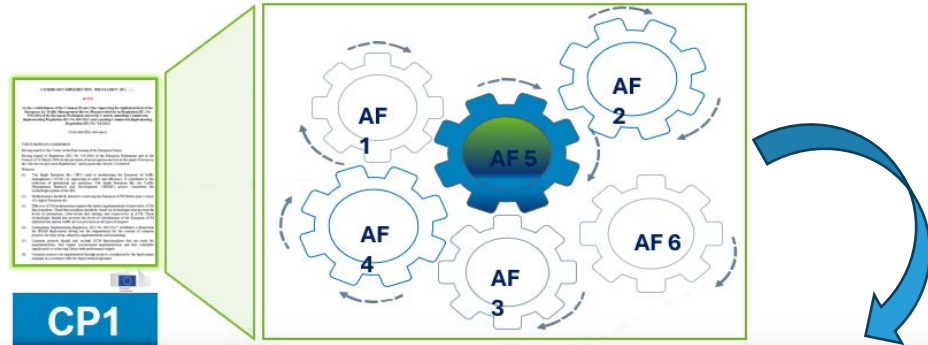
- EPP/initial trajectory information sharing
- Already operational in 1 ACC (Maastricht)
- EU NM/ANSP uptake period 2024-2027
- **EU Mandate:** all new aircraft must be equipped from 2028



REGIONAL TBO

- Intra-European trajectory synchronisation for enhanced ground-ground messages
- Supporting NM/airport connectivity
- **EU mandate:** ASD-C used to improve NM trajectory (in addition to radar data) by 2028

4) EU SWIM Implementation Programme (SESAR SDM)



5) CP1 SWIM Regulatory Requirements (SESAR SDM)

Developed and consulted by all stakeholders



Vision for EU Digital Sky

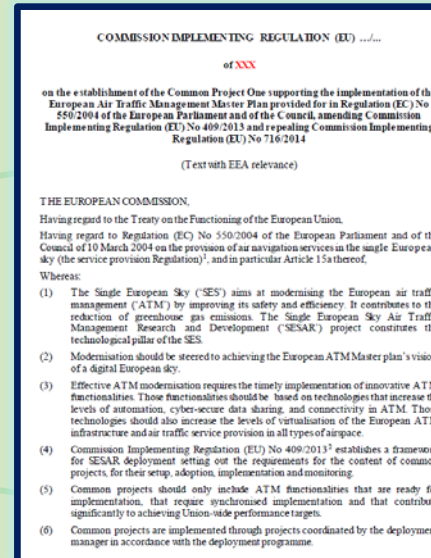
Essential Operational Changes

PILOT COMMON PROJECT REG. (EU) N.716/2014



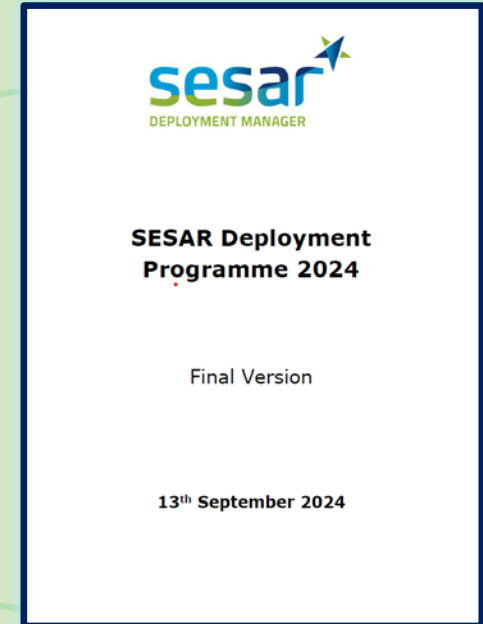
2014 - 2021

COMMON PROJECT ONE REG. (EU) N.116/2021



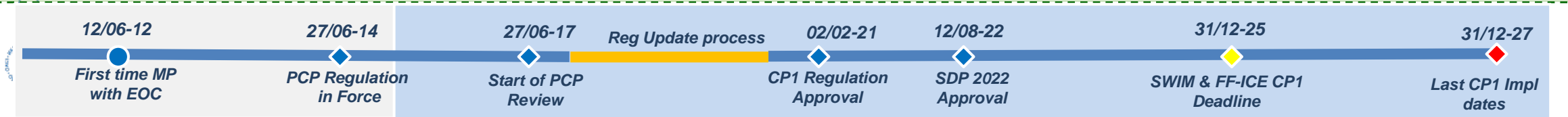
2021-2027

SESAR DEPLOYMENT PROGRAMME (SDP)



Workplan for CP1 Deployment

SAO



6) EUROCONTROL NM FF-ICE Implementation (EUROCONTROL)



FF-ICE Services



Planning Service

- Operator share early flight intent
- Assist operator determine optimal route/trajectory

Not yet implemented by EUROCONTROL



Trial Service

- Evaluate eFPL before submission
- Evaluate alternative
- "What-if" investigations



Publication Service

- Obtain information relevant to operations and maintain awareness of changes

Services implemented by EUROCONTROL



Filing Service

- Flight plan submit
- Flight plan update
- Flight plan cancellation



Flight Data Request Service

- Request specific flight data
- Equiv. to RQP & RQS



Notification Service

- Notify flight events
- Arrival & Departure notifications

Services implemented by EUROCONTROL

FF-ICE New Information

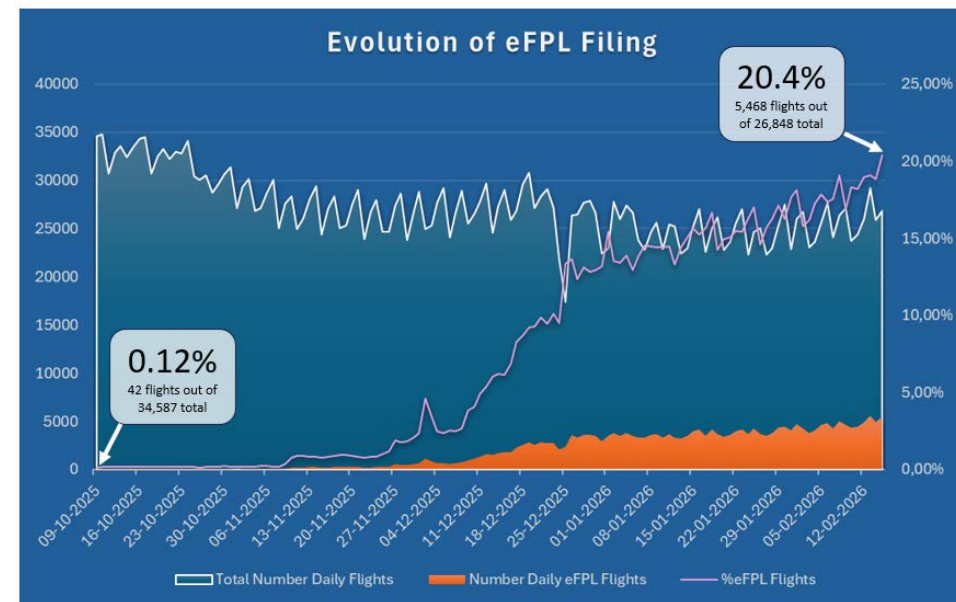
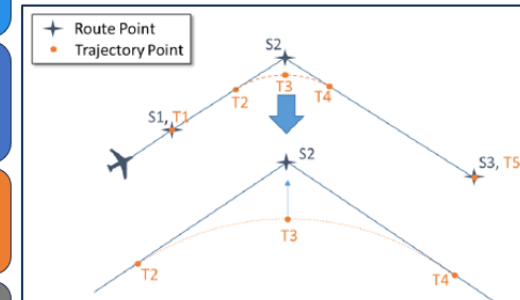
Operator Flight Plan Version

Flight Specific Performance Data

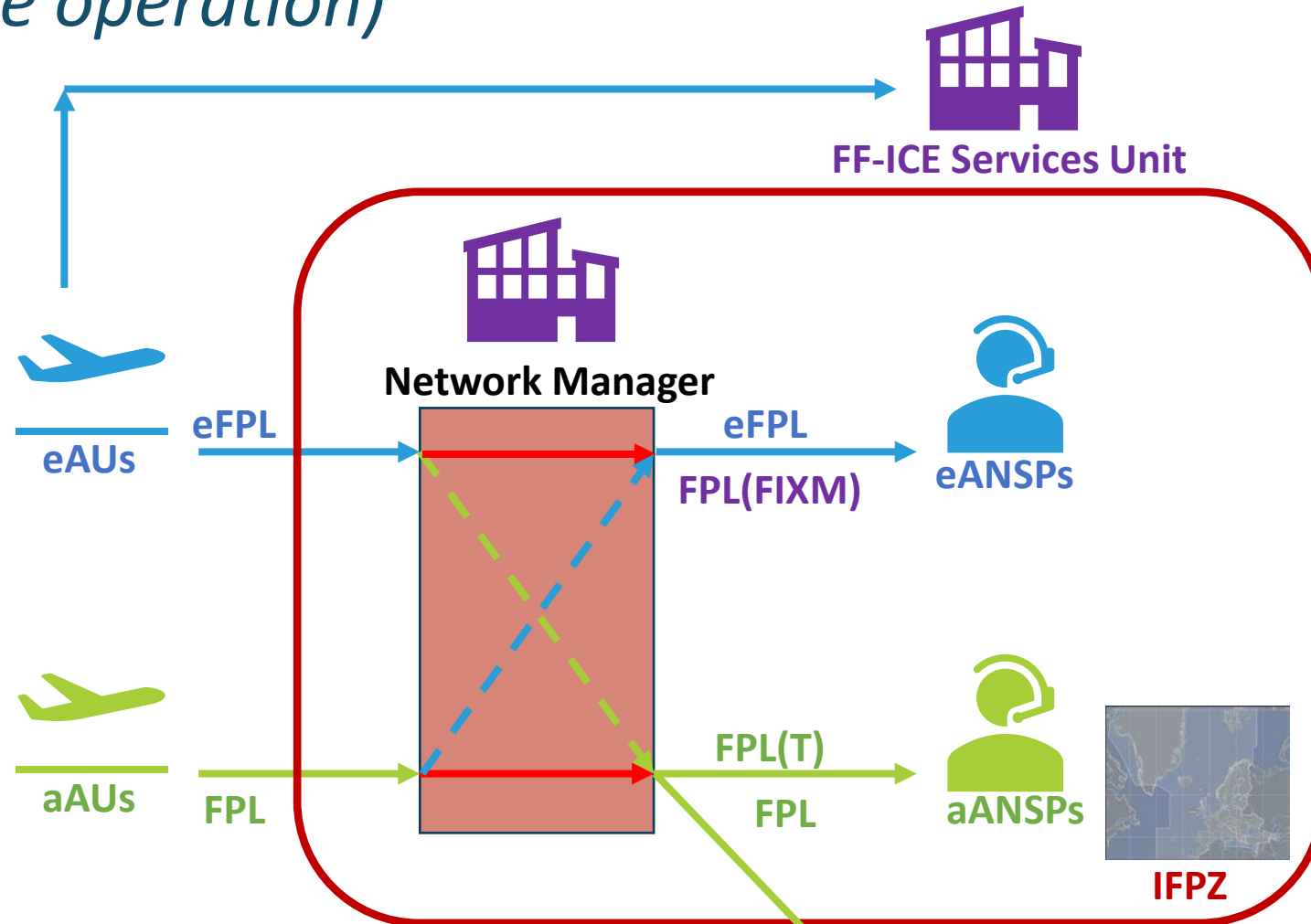
- Climb & descent speed schedule
- Climb & descent performance profiles

Take-off Mass

4D Trajectory



Transition from FPL2012 to FF-ICE (Mixed-mode operation)



eAUs/eANSPs: stakeholders enabled for FF-ICE
 aAUs/aANSPs: stakeholders not enabled for FF-ICE



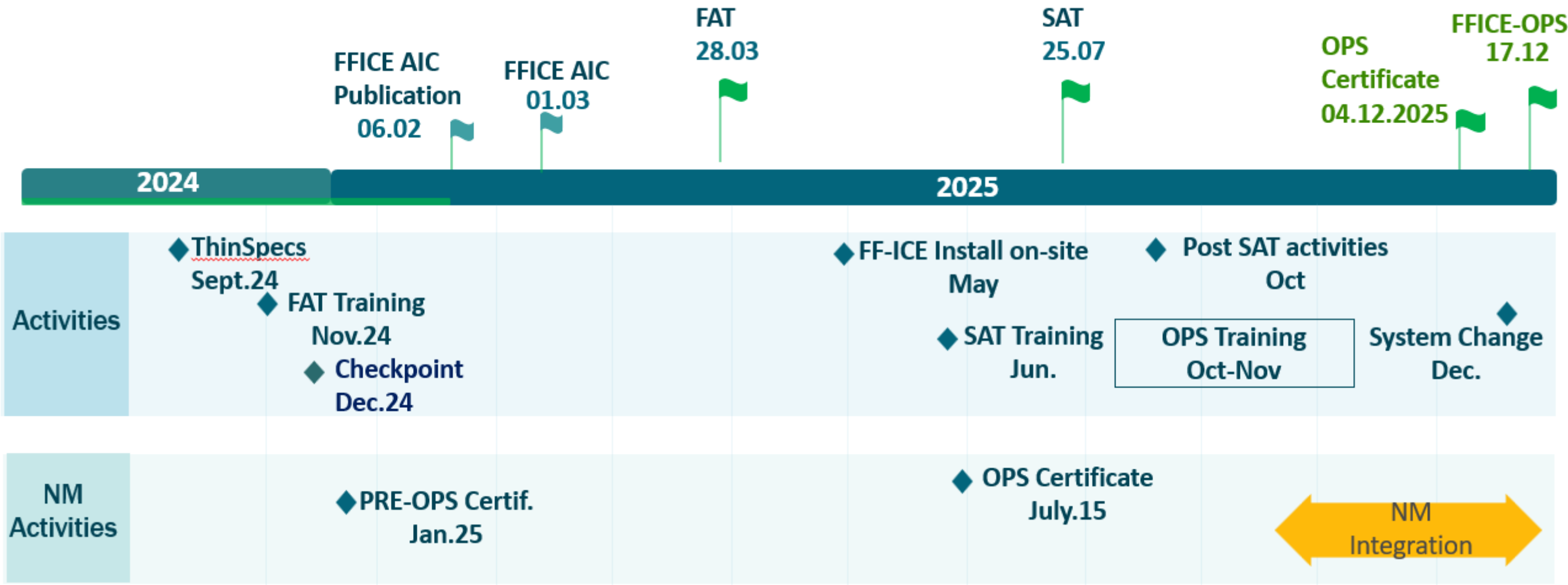
- Internet (B2B)
- AFTN
- No format change
- - - → Conversion to FIXM
- - - → Translation to FPL

7) FF-ICE through scenarios (EUROCONTROL)



- EUROCONTROL presented scenarios on mixed-mode environment (eASPs, aASPs)
- Take aways:
 - FF-ICE lay the groundwork for collaboration – no more ‘fire and forget’
 - The first Filed Flight Plan may not be version “1”
 - AUs are recommended to use Trial before any eFPL or eFPL Update submission
 - Mixed mode can be challenging

8) ROMATSA FF-ICE Implementation (Romania)



9) ANS of Czech Republic FF-ICE Implementation (Czech Republic)



What is needed for ANSP FF-ICE implementation in Europe – under NMOC umbrella

- Local ATM system upgrade
 - To receive/send FF-ICE data – to be able to use NMOC B2B FF-ICE services
 - Publication – distribution of FF-ICE flight plans
 - Notification – new services for DEP, ARR provision
 - Data Request – RQP replacement + new FPL download functionality
 - Data processing (FDPS, HMI)
 - To modify local FDPS to be able to process FIXM flight plans (both converted FPL2012 into FIXM and eFPL), together with processing of legacy FL2012 AFTN data
 - FDPS modifications (e.g. trajectory algorithm, HMI changes)
- NMOC support for FF-ICE implementation - ANSP:
 - FF-ICE B2B services
 - Transition period support – conversion/translations between FF-ICE flight plans and ICAO2012 flight plans
 - PREOPS platform support – features for test and development

Two formats of NMOC distribution to ANSP:

- **eFPL (Electronic Flight Plans)** - include detailed data like 4D trajectory and performance metrics – filed as FF-ICE flight plan by AO.
- **FIXM converted FPL2012** – includes FPL2012 items + NMOC calculated trajectory - filed as FPL2012 by AO

Lessons learned (Czech Republic)

- Test and validation against PREOPS started during Spring 2025, detailed operational tests started from Nov 25 (first OPS certificate), results:
 - Completeness of OPS FFICE messages against legacy flight plan messages - correct (nearly 100 percent after Jan 17, after we made last subscription update, small non-blocking problems with DEP events)
 - Issues have been identified within contents of FIXM messages, not consistent with legacy AFTN messages (ICAO od ADEXP format). Communicated with NMOC, workaround was found for all of them
 - Some issues which exist today (hopefully will be fixed in future) and have to be managed manually via FDO – higher load on FDO position
- Data request services need improvement; we will temporarily use AFTN RQP messages.
- Systems have to be able to process both – FFICE and FPL2012 messages, it makes architecture more complicated
- Implementation of new technology – not all our activities were done optimally, also sometimes it was not easy to understand NMOC requirements
- PENS capacity limits => not on the same level as communication via internet, issue mainly for FlightData service
- All findings/issues were communicated with NMOC (B2B and FFICE Teams), thanks them for their support
- Current score of flight plans filed as FFICE eFPL flying over ANS CR airspace increased from 15 to 20 percent during last 3 months:
 - Dec 3:1722 FPLs/50 eFPLs,
 - Jan 3:1977 FPLs/287 eFPLs,
 - Feb 3: 1485 FPLs/294 eFPLs

10) SKEYES FF-ICE Implementation (Belgium)

FF-ICE UPGRADE

INFRASTRUCTURE

SWIM INFRASTRUCTURE

- **Technical Infrastructure:** The SWIM TI is a collection of software and hardware used to allow the provision of information services.
- **Information Exchange Models:** The exchange of FF-ICE data is done via the Flight Information Exchange Model (FIXM).
- **Information Services:** The FF-ICE services, including the Data Publication Service, Flight Data Request Service, Notification Service are provided by the NM.
- **SWIM Services:** The FF-ICE services are registered, defined and described in the SWIM Registry.

Elaboration of SWIM Infrastructure

EXCHANGE MODELS

FLIGHT INFORMATION EXCHANGE MODEL

- **FIXM Core:** FIXM Core version 4.3.0 provides globally harmonized data structures, supplemented by FIXM Extensions and restricted by FIXM Applications.
- **FIXM FF-ICE Application:** FIXM Applications, such as the, the FF-ICE Application version 1.1.0 are specific flight data structures used for specific contexts.
- **NM Extension:** The *NM Extension* is an extension to FIXM that provides the elements exchanged regionally in Europe.
- **TopSky-ATC One Extension:** Enables the export of specific data by the TopSky-ATC One system.

Elaboration of FF-ICE Data Exchanges

SYSTEM UPGRADES

FF-ICE SERVICES

- **System Identification:** The systems requiring upgrades or deployment to ensure FF-ICE capability have been identified. These include the main ATC system, the TWR system, and the Traffic Complexity Tool.
- **FF-ICE Data Consumption:** The FF-ICE services to be consumed by each system have been defined in accordance with the CPI Regulation and aligned with the specific functional requirements of each system.
- **FF-ICE Data Processing:** The FF-ICE data items to be consumed, processed and used for operational purposes by each system have been detailed and elaborated.

TECHNICAL INFRASTRUCTURE

SWIM Infrastructure

DATA EXCHANGES

Core, Applications, and Extensions

FF-ICE DATA

Data Elaboration

Risks and challenges (Belgium)

TECHNICAL AND OPERATIONAL CONCERNS

- **Complexity of Mixed Mode Operations:** The ATM system must simultaneously process both FF-ICE and legacy data during the transition period, increasing system and operational complexity.
- **Absence of Route Information in eFPL:** In cases where the eFPL does not contain a Route Text, the method for route decoding and subsequent handling by the FDO remains unclear.
- **FDO Workload and eFPL Decoding:** The process for decoding and presenting eFPLs to FDOs may introduce additional workload, especially when modifying routes or issuing Flight Data Requests without a GUF1, leading to multi-step retrieval processes.
- **Pre-OPS Validation:** Clarification is needed on whether the Pre-OPS environment provides sufficient end-to-end testing before OPS activation and if it receives representative OPS flight plans to support validation and shadow operations.
- **Contingency Use of Legacy Capabilities:** Analysis is required on whether TWR and Traffic Complexity systems will retain legacy message-handling capabilities and whether legacy fallback channels will remain available.

11) CFSPs and AUs perspective (Lufthansa Group)

Challenges and concerns

- Integration in NM tools
- Data Issues (NM, CFSP)
- ANSPs readiness
- Agreed Trajectory
- Planning Service
- Trial Service (e.g. missing proposed routes)
- Legacy messages (e.g. DLA/CNL) from external tools (e.g. Ops Control application)
- Customer procedures (e.g. adjustments of waypoints in SID/STAR)
- Mixed-mode filing (ICAO2012 sent to NM from ANSPs outside IFPZ)
- Warnings without ORM* (e.g. OBJECT_EXISTS, OBJECT_NOT_FOUND)
- Activation by operator and city-pairs (e.g. different filing method per OPR/FIR)

Technical Harmonization
(SWIM-related / FF-ICE-related)

Business Harmonization

12) IATA Perspective (IATA)



- IATA position: “*Strong support for FF-ICE*”
 - *Key enabler for TBO; addresses FPL2012 shortcomings; consistency Aus/ATM; pre-requisite for post-departure trajectory negotiations*
- IATA supports FPL2012 cessation by 2034
- IATA highlighted the importance of SWIM and digital data exchange
- Favors large-scale implementation of FF-ICE
- IATA will support FF-ICE implementation

13) Evolution of ARO (France)

- AROs in current environment are the ANSP PoC for pilots
- AROs and their processes will be significantly by FF-ICE implementation.
- Future of AROs in full FF-ICE environment ... TBD & up to States decisions within the future FF-ICE and ATFM network

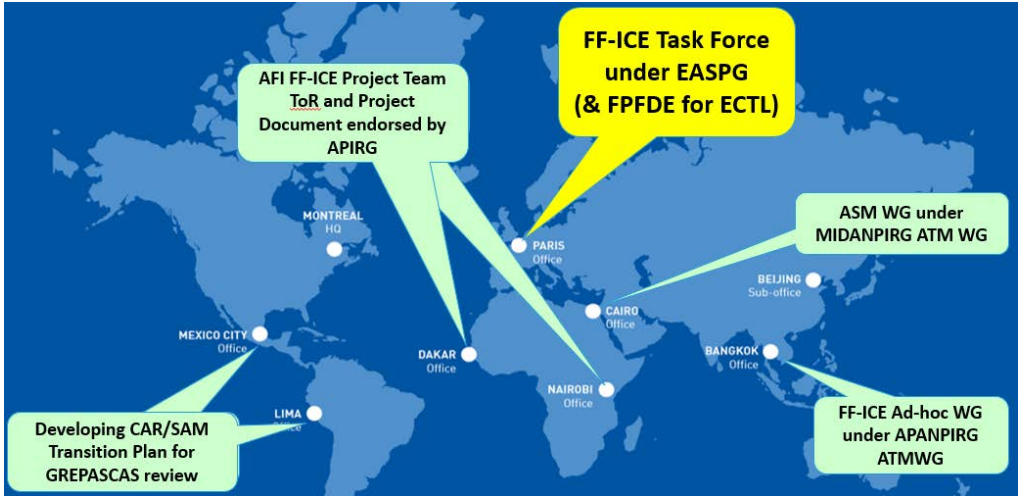


15) FF-ICE Implementation Strategy (ICAO)



- Engage and raise awareness all stakeholders
- Deliver ICAO provisions and guidance both for FF-ICE and SWIM
- No more changes to FPL2012 requirements
- Set the global target date for sunseting FPL2012

- In-depth national/regional engagements and demonstrations/tabletop
- National/regional Implementation/transition plan



Regional Planning Considerations

- ✓ **FF-ICE Services Unit**
 - Cross-Regional, Regional, Sub-regional, National
 - Separate, or combined with other functions
- ✓ **Involve airspace users and their services providers from the get-go**
- ✓ **Interfaces and interaction between FF-ICE services unit and ATS units**
- ✓ **Technical and operational standardization on global or regional levels**
- ✓ **Strategy and timeline to use translation and conversion capabilities**
- ✓ **Funding and timelines to upgrade relevant systems**

16) EU FF-ICE/R1 Implementation Plan (SESAR SDM)



NETWORK MANAGER



European FF-ICE/R1 Implementation roadmap



2022-122-SESAR Deployment Manager FPA SGA MOVE/E3/SUB/2022-122/SI2.875834

Deliverable 0.1



1.1.1. FF-ICE Release 1 Implementation

Instructions and context

This document is informed by **xxxx** contribution (INF.20, INF.21). Since 2023, SDM has developed a detailed and comprehensive pan-European of previous year's LSSIP inputs were integrated into Edition 2 (available here).

Last year, to provide a system-level perspective introduced in the LSSIP, utilising the 'Local Soc and systems. This year, SDM will continue to rather than requesting direct input into the LS into this single document for completion, stress from this document directly aligns with the core the LSSIP tool entries on your behalf, following

A **[highlighted]** text has been added for each

Introduction

[Please review and update existing text to]

FF-ICE/R1 selected architecture approach

[Please review and update existing diagram]

In the case of **xxxx**, the approach is covering all Data Publication Service.

Notification Service	Flight Data request Service
SWIM Infrastructure	
(Low/No SWIM)	

FF-ICE/R1 Service deployment overview

[Please review and update the three tables below to reflect locations since previous iteration. Please add a comment to required.]

To ensure reporting is as representative as possible, an explain. The checkpoints are identically named as those within the LSSIP.

If there are ATM systems using the SWIM Services via a central marked as 'N/A', because the systems will not directly be connected to NM B2B. All check SWIM Infrastructure.]

Checkpoint 1	Checkpoint 2	Checkpoint 3
Start of implementation	Start of implementation and testing on NM pre-ops	Start validation testing on NM pre-ops
Start of technical implementation	Start of (standalone) testing on NM Preops	Start of validation with NM to go Ops approval. Preconditions to start validation are met.

Checkpoint explanation

Please complete the following

- ANSP implementation of:
 - Notification Service
 - Flight Data Request Service
 - Data Publication Service
- ARO implementation of:
 - Notification Service
 - Flight Data Request Service
 - Filing Service

FF-ICE/R1 ATS Reporting Office (ARO)

We kindly invite your participation in this service as its potential implementation and required.

The survey consists of two parts:

- A set of questions targeting specific SDM would like to understand in further
- A set of tables reflecting the 'deployment the ANSP implementation. At each checkpoint will, or has been reached additional row to the tables and comments

- Has the state decided to modify the enabling the submission of eFPLs (to implement that upgrade)?
 - Yes
 - No
- Who is the supplier of your FF-ICE?
 - EUROCONTROL (eEAD)¹
 - EUROCONTROL (NMUI)²
 - Industry (please state supplier³)
 - Internal development

(e.g. hybrid solution) - [please elaborate]
- If not EUROCONTROL, will the ARO adaptation of the existing Flight plan?
 - Adaptation of the existing Flight plan
 - Deployment of a new system
- Do the military currently file flight plan?
 - Yes
 - No

Performance Profile

- Do/will you have the capability of filing an eFPL?
 - Yes
 - No
- If the answer to the previous question Performance Profile in your eFPL?
 - Yes

ARO FF-ICE/R1 Implementation Dates

Flight Data Request Service

Location	Checkpoint 1	Checkpoint 2	Checkpoint 3	Checkpoint 4	Checkpoint 5
ARO System	Start of implementation	Start of implementation and testing on NM pre-ops	Start validation testing on NM pre-ops	DM1: Connectivity End of testing (Connectivity readiness)	DM2: Operational use Request of flight plan, supplementary flight plan and flight status information is done via the Flight Data Request Service provided by the Network Manager
Comment					
Additional comments					
[Please include any further comments you would like to provide regarding the checkpoint dates or the implementation process.]					

Notification Service

Location	Checkpoint 1	Checkpoint 2	Checkpoint 3	Checkpoint 4	Checkpoint 5
ARO System	Start of implementation	Start of implementation and testing on NM pre-ops	Start validation testing on NM pre-ops	DM1: Connectivity End of testing (Connectivity readiness)	DM2 Operational use: Departure and arrival information is shared using the notification service provided by the Network Manager
Comment					
Additional comments					
[Please include any further comments you would like to provide regarding the checkpoint dates or the implementation process.]					

Filing Service

Location	Checkpoint 1	Checkpoint 2	Checkpoint 3	Checkpoint 4	Checkpoint 5
ARO System	Start of implementation	Start of implementation and testing on NM pre-ops	Start validation testing on NM pre-ops	DM1: Connectivity End of testing (Connectivity readiness)	DM2 Operational use: eFPLs are submitted using the Filing Service
Comment					
Additional comments					
[Please include any further comments you would like to provide regarding the checkpoint dates or the implementation process.]					

17) Experience and lessons learned from FF-ICE implementation (EUROCONTROL)



- Collaboration – Regional groups and stakeholders
- Importance of testing
- Communication/information; regulatory requirements, AIP, etc.
- Managing the change/transition and the challenges of mixed-mode operation
- Awareness and support
- NM B2B provides secure communication channel to external systems
- Highlighted lessons learned
- ECTL developed specimen for AIP ENR 1.10, 1.11 and AIC
- ECTL initiated PfA to the ICAO EUR Supplementary Procedures to EASPG/6
- *FF-ICE is a paradigm change not a flight plan format change*

18) Canada's FF-ICE Implementation

(NAV CANADA)



- NAV CANADA plans for TBO, airspace modernization and Digital Facilities (DAATS)
- Canada's FF-ICE transition timeline is 2029, with FPL2012 sunset 2032
- FF-ICE/R1 implementation in the domestic airspace is more mature than the Canada's NAT oceanic airspace
- FF-ICE services in R1: filing service, trial service and flight data request service
- eAUs desired route trajectory is evaluated against: restrictions, flight constraints and ATFM measures

NAV CANADA's FF-ICE in the NAT Oceanic area

(NAV CANADA)

Implementation Status:

- FF-ICE integration under beginning stages of development planning.
- GAATS+ not within scope of current centralized Canadian iTEC FDP development.
- FIXM support not available/required for R1/R2.
- Central FDP will translate FF-ICE FPLs to FP2012 and transmit to oceanic GAATS+ FDP.

North Atlantic (NAT) FF-ICE Use Cases

In each of these cases, FF-ICE SERVICES would be utilized to support:

1. Notification to users for pre-departure flights via re-evaluation process,
2. Publication to ATCO to support airborne implementation (early R2 process),
3. Publication to downstream users (i.e. EC NM).

19) FPL2012 cessation provisions (ICAO)



Two Streams of Activities for FF-ICE Provision Update

(Ongoing within an ICAO expert group – ATMRPP)

Cessation of FPL2012

- Refine FF-ICE/R1 provisions based on the lessons learned, as necessary
- Defining the mandatory services to enable cessation of FPL2012
- Remove the requirements related to mixed mode operations

Post Departure FF-ICE Services (FF-ICE/R2)

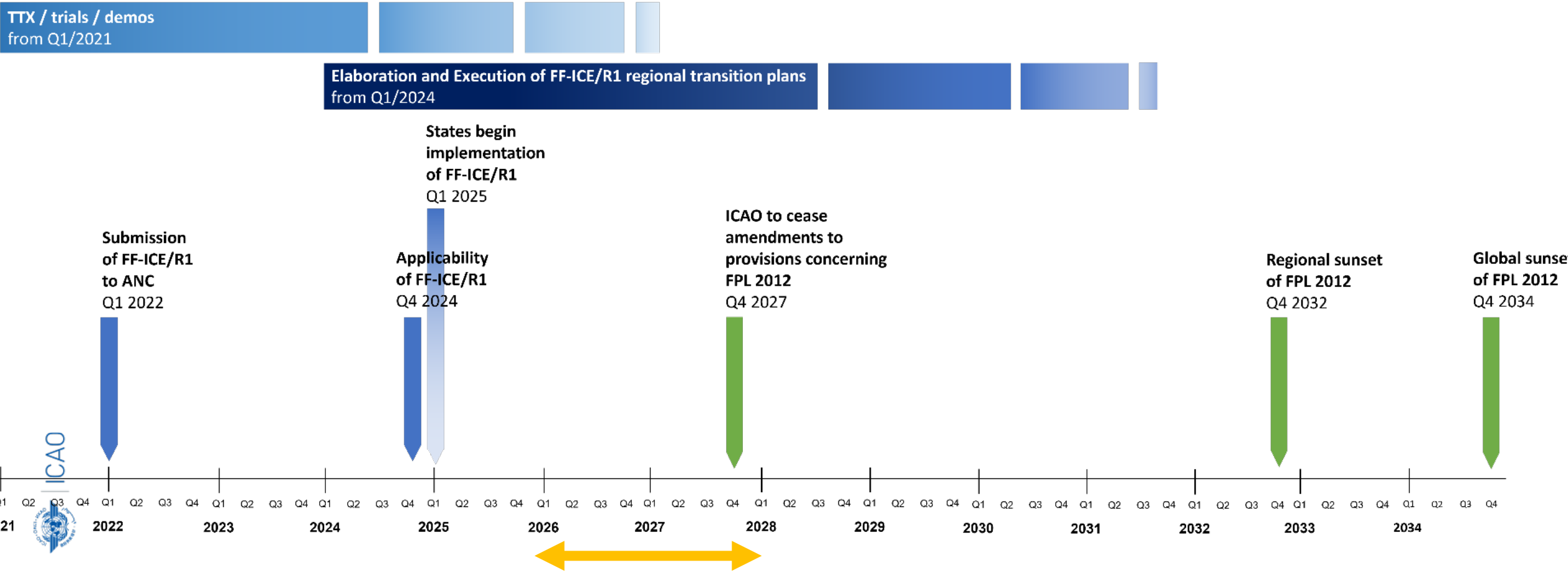
- Identify the need for changes to the FF-ICE services or messages
- Determine the level of standardization required (right balance between flexibility vs uniformity)

Cessation of FPL2012 – Guiding principles (ATMRPP)

(ICAO)

1. **After 2034**, the use of Repetitive Flight Plan is decommissioned.
2. **After 2034**, exclusive use of FF-ICE R1 services and eFPL format means that:
 - i) FF-ICE service units are designated by all Member States and information related to those services are published in State's AIPs.
 - ii) Those designated FF-ICE service units have implemented the following list of FF-ICE R1 services as a minimum (**Filing Service, Flight Data Request Service, and Notification Service**).
 - iii) Current flight plan format (FPL2012) is decommissioned.
 - iv) FF-ICE R1 services implementation (e.g. message exchanges between, eAU and FF-ICE services unit) have been thoroughly tested, including degraded and error modes.
3. **Impact of FPL2012 cessation on ATS messages:**
 - i) Notification Service provisions are upgraded to convey ALR and RCF information.
 - ii) FPL, CHG, CNL, DLA, RQP, RQS, SPL, DEP, ARR, ALR and RCF have equivalence in FFICE R1 services and are decommissioned.
 - iii) CPL, EST, CDN, ACP, LAM and other AIDC messages don't have equivalence in FF-ICE R1 services and need to remain in operational use, together with current supporting systems.

Indicative Timelines



20) ICAO FF-ICE Task Force TORs (ICAO)



Flight and Flow – Information for a Collaborative Environment (FF-ICE) Task Force (TF)

Establishment 2025 – EASPG Conclusion 6/3

Objective

The ICAO EUR FF-ICE TF is established by the European Aviation System Planning Group (EASPG) with the primary objective to support the planning for implementation of Flight and Flow – Information for a Collaborative Environment - Release 1 (FF-ICE/R1) (provision and consumption). The ICAO EUR FF-ICE TF will work in close collaboration with the EUROCONTROL Network Manager Flight Plan and Flight Data Evolutions Sub-Group - FPFDE SG).

The Task Force aims to ensure regional interoperability, harmonization, and alignment with the ICAO Global Provisions, as well as coordination with EUROCONTROL, SESAR Deployment Manager (SDM), EASA, and other Regions to meet the target date of 2034 for FF-ICE/R1 implementation.

Terms of Reference

- Monitor developments in ICAO global provisions related to FF-ICE/R1 and keep abreast of the developments in FF-ICE implementation in other regions (i.e. APAC, AFI, MID, etc.).
- Work in close collaboration with the EUROCONTROL Flight Plan and Flight Data Evolution Subgroup (FPFDE SG), SDM and other relevant European bodies/groups to ensure a harmonized approach to FF-ICE/R1 implementation in the EUR Region.
- Through a common initiative with the FPFDE SG, maintain the regional roadmap for FF-ICE/R1 implementation.
- Monitor and assist the FF-ICE TF Members, in developing national FF-ICE/R1 implementation plans, ensuring alignment with the regional roadmap.
- Address interoperability issues within the EUR Region and with other ICAO Regions (APAC, AFI and MID) through joint workshops, as necessary.
- Foster collaboration among FF-ICE TF Members (ANSPs, airspace users (AUs), and other stakeholders) to ensure coordinated implementation.
- When needed, recommend updates to the ICAO EUR Supplementary Procedures (Doc 7030) and the Regional Air Navigation Plan (ANP).
- Regularly review implementation progress of the FF-ICE/R1 by the EUR States, identify challenges, and propose corrective measures to ensure the regional roadmap is on track.
- Ensure that FF-ICE/R1 implementation supports and aligns with the ICAO Trajectory-Based Operations (TBO);
- Ensure timely development and implementation of System-Wide Information Management (SWIM) in support of FF-ICE/R1 services; and
- Facilitate knowledge-sharing and when required, plan and support Regional and Interregional workshops, seminars and trainings to promote and foster FF-ICE/R1 implementation.

Working Arrangements

The Task Force will conduct its work by consensus.

Meetings will generally be held twice annually, with additional meetings or teleconferences arranged as needed. The meetings will be held conjointly with the EUROCONTROL Network Manager FPFDE SG to ensure consistency.

Temporary project teams may be established by the Task Force, if needed, to address specific tasks, with defined timelines. These teams will be dissolved upon completion of their work.

The Chairperson of the FF-ICE TF will be elected according to EASPG guidelines.

The Task Force will report to the PCG and EASPG, providing regular updates on progress, challenges, and recommendations for FF-ICE/R1 implementation.

Composition

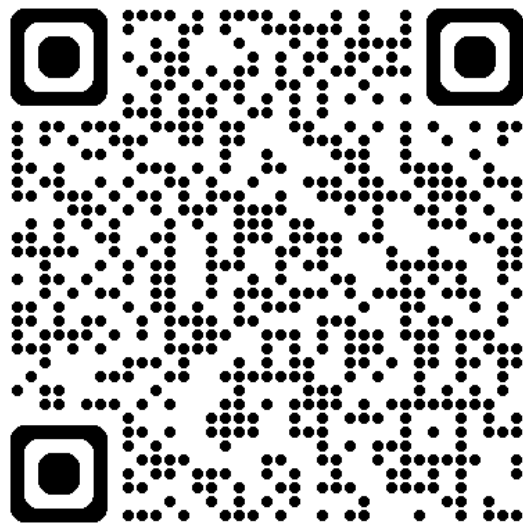
Experts nominated by relevant EUR States (Albania, Algeria, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Georgia, Iceland, Israel, Kazakhstan, Kyrgyzstan, Moldova, Montenegro, Morocco, North Macedonia, Russian Federation, Serbia, Tajikistan, Tunisia, Turkiye, Turkmenistan, Ukraine, United Kingdom and Uzbekistan), Canada, United States, Organizations (SESAR Deployment Manager (SDM), EUROCONTROL, EASA, IATA, CANSO), Data Houses (Lufthansa Systems, Jeppesen and NAVBLUE) and other relevant stakeholders.

DRAFT
Drafted by EASPG PCG/07
(Larnaca, 27-29 May 2025)

Next steps (ICAO)

- Discussion on the outcomes of the FF-ICE Workshop by the relevant EASPG and NAT SPG contributory bodies;
 - EUR ANSISG, EASPG PCG
 - NAT IMG, POG and TIG
 - Interregional EUR/NAT and MID SWIM Seminar (Tbilisi, 23-25 June 2026)
- Keeping pace with the upcoming global developments-ATMRPP on FPL2012 sunset and FF-ICE/R2
- When appropriate, State Letter on National Plans of FF-ICE implementation to EUR and NAT States
- Continued collaboration with Flight Plan and Flight Data Evolution Subgroup (FPFDE SG)
- Kick-off the ICAO FF-ICE TF, when initial steps are mature

Presentations of the ICAO EUR/NAT FF-ICE



<https://www.icao.int/EURNAT/meetingdocs?fid=15804>

Thank You

