



ASBU ELEMENTS

FICE-B2/8

- Functional Description
- Enablers
- Deployment Applicability
- Performance Impact Assessment

FICE

FICE-B2/8 Flight information management service for low-altitude operations Information

Main Purpose ? Operators at the lowest altitudes, outside of manned flight terminal operations, have unique shared operating environment to support beyond visual line of sight operations.

- New Capabilities** ?
- Operators provide intent before operating
 - UTM flight trajectory requirements and exchanges (Block 1)
 - A community network of intent sharing is in place to improve safe operations

Description ? The large number of operations occurring in what has been traditionally a visual flight regime extends well beyond the capability from a CNS, automation and controllers to manage as a traditional IFR environment. From a flight planning management perspective these operations require the operators to share intent before flying so that they strategically de-conflict, provides for the exchange models to support these operations, and a flight management system that complements this shared environment.

Maturity Level ? Validation

- Human Factor Considerations**
1. Does it imply a change in task by a user or affected others? Yes
 2. Does it imply processing of new information by the user? Yes
 3. Does it imply the use of new equipment? Yes
 4. Does it imply a change to levels of automation? Yes

PLANNING LAYERS ?

- Pre-tactical
- Tactical-Pre ops
- Tactical-During ops

OPERATIONS ?

- Departure
- En-route
- Arrival

DEPENDENCIES AND RELATIONS ?

Type of Dependencies	ASBU Element
Relation-operational need	SWIM-B2/3 - SWIM registry

Relation-operational need	SWIM-B2/1 - Information service provision
Relation-operational need	SWIM-B2/2 - Information service consumption
Relation-information need	DAIM-B2/4 - Aeronautical information requirements tailored to UTM

ENABLERS

Enabler Category	Enabler Type	Enabler Name	Description / References	Stakeholders	Year
Information exchange model	Flight and flow information	Flight Information Exchange Model (FIXM) Version 4.2.0	References: PANS-ATM ICAO Doc 4444 - Procedures for Air Navigation Services and ICAO Doc 9965- FF-ICE Manual 2nd Edition.	ANSP ATM network function	2019
Regulatory provisions	SMS	Apply SMS	Apply Safety Management System in accordance with the national requirements and guidance.	ANSP	2013
Operational procedures	Flight and flow information	Procedures for message composition and exchange	PANS-ATM ICAO Doc 4444 - Procedures for Air Navigation Services	ANSP	2018
Ground system infrastructure	Flight and Flow information	Capability to support the assignment/recognition of GUF1	PANS-ATM ICAO Doc 4444 - Procedures for Air Navigation Services	ANSP Airspace user	2018
Ground system infrastructure	Flight and Flow information	FDP system able to process FIXM	PANS-ATM ICAO Doc 4444 - Procedures for Air Navigation Services	ANSP	2018
Ground system infrastructure	Flight and Flow information	FDP system that accesses AMET and DAIM information via SWIM services.	PANS-ATM ICAO Doc 4444 - Procedures for Air Navigation Services	ANSP Airspace user	2018
Ground system infrastructure	Flight and Flow information	FDP System that exposes the flight information to global community via SWIM services.	PANS-ATM ICAO Doc 4444 - Procedures for Air Navigation Services	ANSP	2018
Training	Flight and Flow information	Training requirements for low-altitude unmanned aircraft operations	Training for flight data staff and dispatch regarding the flight management service low-altitude unmanned aircraft operations.	ANSP	2018

