SES	AR	Active						LOC		
COM13				Air Traffic S	Services (A <sup>-</sup>	TS) datalinl	k using Sate	Com Class	В	
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

# Subject matter and scope

Communication services in terms of datalink systems and services are required in support of i4D and Aeronautical information data sharing.

The Iris Precursor service establishes the necessary communication infrastructure to support interoperable Oceanic and Continental i4D operations. The Iris Precursor service deploys an aviation communications service based on the existing Inmarsat SwiftBroadband (SBB) service. This would augment existing VHF Datalink (VDL) capability in Europe to improve current Link2000+ and planned I4D ATS datalink services delivery through increased reliability and capacity, and help establish satellite communications as a key component in the future ATM communications landscape.

NOTE FOR MILITARY AUTHORITIES: It is the responsibility of each military authority to review this Objective IN ITS ENTIRETY and address each of the SLoAs that the military authority considers RELEVANT for itself. This has to be done on top and above of the review of "MIL" SLoAs which identify actions EXCLUSIVE to military authorities.

# Applicability Area(s) & Timescale(s)

Applicability Area	All ECAC+ States e	vcent: Albania /	Armonia Rolaiu	m Rosnia and Herzegovina Bulgaria Estonia
(Subject to local needs)	except: Albania, Armenia, Belgium, Bosnia and Herzegovina, Bulgaria, Estonia, Greece, Hungary, Israel, Latvia, Lithuania, Moldova, Montenegro, Morocco, North al, Romania, Serbia, Spain			
Timescales:	From:	Ву:	Applicable to:	
IOC used for Analytics functioning only planning	01/07/2022		Applicability Area	
FOC used for Analytics functioning only planning		31/12/2030	Applicability Area	

# **European ATM Master Plan**

OI step -	[POI-0018-COM]-SatCOM Class B for ATM							
	Enablers -	A/C-33a	CTE-C0	)2f				
Legend:	WXYZ-001	Covered by S this objective	` '	WXYZ-002	Covered by SLoA(s) in another o	bjective	WXYZ- 003	Not covered in the Implementation Plan

# Applicable legislation

None

## **Essential Operational Changes**

**CNS Infrastructure and Services** 

### **SESAR Solution**

#109 - Air Traffic Services datalink using SatCom Class B

#### **ICAO GANP - ASBUs**

- none -

# **Deployment Programme**

- none -

#### **European Plan for Aviation Safety**

- none -

## **Operating Environments**

# Implementation Plan Edition 2022

Airport			
En-Route			
Terminal Airspace			

Air Traffic Services (ATS) datalink using SatCom Class B

# Stakeholder Lines of Action (SLoAs)

SloA ref.	Title	From	Ву
COM13-REG01	Approve compliance with safety requirements		
COM13-ASP01	Install and operate commercial SATCOM systems		
COM13-ASP02	Safety Assessment		
COM13-USE01	Upgrade Aircraft avionics		

Description of finalised and deleted SLoAs is available on the eATM Portal @ https://www.eatmportal.eu/working/depl/essip\_objectives

# **Expected Performance Benefits**

Safety: Improvements through enabling initial i4D operations.

Capacity: 
Operational Efficiency: 
Cost Efficiency: Improvements through enabling initial i4D operations.

Environment: -

**COM13** 

Security: - Detailed SLoA Descriptions

		From:	By:			
COM13-REG01	Approve compliance with safety requirements	-	-			
Action by:	Regulatory Authorities		I			
Description & purpose:	Regulatory Authorities need to ensure that the safety requirements are implemented in line with the safety assessment performed.					
Supporting material(s):	ICAO - Doc 9925 - ICAO Manual for Class B (Inmarsat SBB and IRIDIUM Next)  Url : https://store.icao.int/					
	ICAO - Doc 9896 - Manual for the ATN using IPS Standards and Protoco	ols - Edition 2.0 / 2015				
	Url: https://store1.icao.int/					
	EUROCAE - ED-243B - Minimum Operational Performance Standards for Systems (NGSS) 03/2020	or Avionics Supporting N	Next Generation Satellite			
	Url: https://eshop.eurocae.net/eurocae-documents-and-reports/ed-243b	<u>/</u>				
	EUROCAE - ED-242B - MASPS for AMS(R)S Data and Voice Communi	cations supporting RCP	and RSP 03/2020			
	Url: https://eshop.eurocae.net/eurocae-documents-and-reports/ed-242b	<u>/</u>				
	ICAO - Annex 10 - Aeronautical Telecommunications					
	Url: http://store1.icao.int/					
Finalisation criteria:	1 - Safety requirements in place approved.					
001110 10001		From:	By:			
COM13-ASP01	Install and operate commercial SATCOM systems	-	-			
Action by:	ANS Providers					
Description & purpose:	Air Navigation Service Providers to install and operate commercial SATO provide service redundancy to the existing terrestrial datalink VDL2, both					
Supporting material(s):	ICAO - Doc 9925 - ICAO Manual for Class B (Inmarsat SBB and IRIDIU)	M Next)				
	Url: https://store.icao.int/					
	EUROCAE - ED-242B - MASPS for AMS(R)S Data and Voice Communi	cations supporting RCP	and RSP 03/2020			
	Url: https://eshop.eurocae.net/eurocae-documents-and-reports/ed-242b	<u>/</u>				
	EUROCAE - ED-243B - Minimum Operational Performance Standards for Systems (NGSS) 03/2020	or Avionics Supporting N	Next Generation Satellite			
	Url: https://eshop.eurocae.net/eurocae-documents-and-reports/ed-243b	<u>/</u>				
	ICAO - Doc 9896 - Manual for the ATN using IPS Standards and Protoco	ols - Edition 2.0 / 2015				
	Url: https://store1.icao.int/					
	ICAO - Annex 10 - Aeronautical Telecommunications					
	Url: http://store1.icao.int/					

COM13 Air Traffic Services (ATS) datalink using SatCom Class B
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ATM Master Plan relationship:	[CTE-C02f]-Future Satcom for ATM: SATCOM Class B in Multilink						
Finalisation criteria:	1 - The SATCOM system is installed and operational.						
COM13-ASP02	Safety Assessment	From:	By: -				
Action by:	ANS Providers						
Description & purpose:	A safety assessment of the changes shall be developed in coordination and synchronization with all concerned stakeholders. This safety assessment shall be delivered to the competent authority.						
Supporting material(s):	ICAO - Doc 9925 - ICAO Manual for Class B (Inmarsat SBB and IRIDIUM Next)  Url: https://store.icao.int/ ICAO - Doc 9896 - Manual for the ATN using IPS Standards and Protocols - Edition 2.0 / 2015  Url: https://store1.icao.int/  EUROCAE - ED-243B - Minimum Operational Performance Standards for Avionics Supporting Next Generation Satellite Systems (NGSS) 03/2020  Url: https://eshop.eurocae.net/eurocae-documents-and-reports/ed-243b/  EUROCAE - ED-242B - MASPS for AMS(R)S Data and Voice Communications supporting RCP and RSP 03/2020  Url: https://eshop.eurocae.net/eurocae-documents-and-reports/ed-242b/  ICAO - Annex 10 - Aeronautical Telecommunications  Url: http://store1.icao.int/						
ATM Master Plan relationship:	[CTE-C02f]-Future Satcom for ATM: SATCOM Class B in Multilink						
Finalisation criteria:	1 - Safety assessment developed and delivered to the competent author	rity.					
COM13-USE01	Upgrade Aircraft avionics	From:	By: -				
Action by:	Airspace Users		l l				
Description & purpose:	·						
Supporting material(s):	EUROCAE - ED-243B - Minimum Operational Performance Standards for Avionics Supporting Next Generation Satellite Systems (NGSS) 03/2020  Url: https://eshop.eurocae.net/eurocae-documents-and-reports/ed-243b/  EUROCAE - ED-242B - MASPS for AMS(R)S Data and Voice Communications supporting RCP and RSP 03/2020  Url: https://eshop.eurocae.net/eurocae-documents-and-reports/ed-242b/						
ATM Master Plan relationship:	[A/C-33a]-Class B SATCOM						
Finalisation criteria:	1 - Aircraft avionics upgraded.						