C	P1				Active				EC	CAC+
AOI	M21.2				Initial F	ree Route	Airspace			
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

Subject matter and scope

Free Route is an operational concept that enables airspace users to fly as close as possible to what they consider their optimal trajectory without the constraints of a fixed route network structure. Free Route Airspace (FRA) is a specified airspace within which users may freely plan a route between a defined FRA entry point and defined FRA exit point, with the possibility to route via intermediate (published or unpublished) waypoints, without reference to the ATS route network, subject to airspace availability. Within this airspace, flights remain subject to air traffic control.

The Initial FRA implementation may be achieved with some limitations, for example:

- laterally and vertically;

- during specific time periods;

The Initial FRA deployment shall be based on the following system improvements:

For NM systems:

- FPL processing and checking
- Dynamic rerouting
- Calculation and management of traffic load
- · IFPS routing proposal
- Specific ASM improvements for FRA
- Network impact assessment for FRA
- · CACD adaptations for FRA Initial deployment

For AU systems:

• FPL route planning for a complete flight taking into account the differences of limitations (e.g. in terms of opening time and/or flight level constraints) throughout the entire flight

· Long DCT with or without calculated intermediate points

• Capability to take into account different constraint e.g.: ATS, FRA, RAD, scenarios, FL constraints on part of the route only, etc

• FPL route planning for a complete flight taking into account the differences of implementations (FRA with or without partial implementation) throughout the entire flight.

ANSPs may decide which system improvements are needed for Initial FRA. The list below addresses the potential improvement to ATC systems. The choice of the appropriate tool/function to achieve Initial FRA remains a stakeholder decision based on the operational environment and may include any of the following tool/functions as follows:

• FDPS supporting the airspace structure and managing trajectories according to the flight plan;

- CWP and HMI supporting appropriate display and functions as required by operational needs;
- FDPS to calculate ground 4D trajectories within AoI and editing function for 4D trajectories including Cross AoR Points
- (Coordination Point COP management);
- ASM/ATFCM for FRA management;
- MTCD (detecting conflicts between A/C and A/C, and between A/C and airspace);
- · CORA (conflict probe and passive conflict resolution advisor);
- MONA (conformance monitoring aids);
- ATC clearances beyond AoR;
- ATC to ATC Flight Data Exchange (OLDI and/or SYSCO);
- Dynamic sectorisation and constraint management;
- Dynamic Area Proximity Warning (APW) -Integrated with ASM tools;

• Provision/integration of FPL and real-time data related to the FRA traffic to the Military ATS units and or air defence organisations;

• Conflict Detection Tools which include the Tactical Controller Tool (TCT), using the tactical trajectory and managing the clearances along that trajectory.

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 MIL Authorities.

Applicability Area(s) & Timescale(s)

Initial Free Route Airspace

Applicability Area 1	All EU SES States					
Applicability Area 2		Bosnia and Herzegovina, Georgia, Moldova, Montenegro, Morocco, North a, Türkiye, Ukraine, United Kingdom				
Timescales:		From:	By:	Applicable to:		
Initial operational capability		01/01/2015		Applicability Area 1 + Applicability Area 2		
Full Operational Capability / Target Date		31/12/2022	Applicability Area 1 + Applicability Area 2			

References

European ATM Master Plan

OI step -	[AOM-0501]	-Free Routing fo	or Flights bot	h in cruise and	vertically evolving	within low to m	edium comple	exity env	ironment	<u>s</u>
	Enablers -	AAMS-06c AOM19.5	AAMS-09a AOM19.5	AAMS-11 AOM19.5	AAMS-16a	AOC-ATM-10	ER APP ATO 129 ATC12.1	ER A	PP ATC 75	ER APP ATC 77 AOM19.4, AOM19.5
		ER ATC 91 ATC12.1	NIMS-21a FCM10	NIMS-29	NIMS-42 AOM19.5	PRO-085	STD-033	ST	D-061	STD-062
		STD-063	STD-064	SWIM-APS 01a	S- SWIM-APS- 02a	SWIM-APS- 03a	SWIM-APS 04a	-		
OI step -	[AOM-0505]-Free Routing for Flights both in cruise and vertically evolving within high and very high complexity environments in Upper En Route airspace									
	Enablers -	ER APP ATC 129 ATC12.1	ER APP AT 78	C ER ATC 9 ATC12.1	1 NIMS-37 FCM06.1					
OI step -	[CM-0102-A	-Dynamic Secto	orisation bas	ed on complexi	ty					
	Enablers -	CTE-C05a COM11.1, COM11.2	CTE-C058 COM11.1, COM11.2	ER APP AT 15 AOM19.4	C ER APP ATC 93 FCM06.1					
Legend:	WXYZ-001	Covered by S this objective		WXYZ-002 zzz	Covered by SLoA Objective coverir		bjective V	VXYZ- 003		vered in the nentation Plan

Applicable legislation

COMMISSION IMPLEMENTING REGULATION (EU) 2021/116 of 1 February 2021 on the establishment of the Common Project One supporting the implementation of the European Air Traffic Management Master Plan provided for in Regulation (EC) No 550/2004 of the European Parliament and of the Council, amending Commission Implementing Regulation (EU) No 409/2013 and repealing Commission Implementing Regulation (EU) No 716/2014 ct

Essential Operational Changes

Fully Dynamic and Optimised Airspace

SESAR Solution

#32 - Free Route through the use of Direct Routing, #33 - Free Route through Free Routing for Flights both in cruise and vertically evolving above a specified Flight Level, #66 - Automated Support for Dynamic Sectorisation

Operating Environments

Initial Free Route Airspace

En-Route Network

Terminal Airspace

Stakeholder Lines of Action (SLoAs)

SloA ref.	Title	From	Ву
AOM21.2-ASP01	Implement Initial FRA procedures and processes in support of the network dimension	01/01/2015	31/12/2022
AOM21.2-ASP02	Implement Initial FRA system improvements	01/01/2015	31/12/2022
AOM21.2-ASP03	Implement Initial FRA procedures and processes in support of the local dimension	01/01/2015	31/12/2022
AOM21.2-ASP04	Safety Assessment	01/01/2015	31/12/2022
AOM21.2-ASP05	Training	01/01/2015	31/12/2022
AOM21.2-ASP06	Operational use	01/01/2015	31/12/2022
AOM21.2-USE01	Implement Initial FRA system improvements	01/01/2015	31/12/2022
AOM21.2-USE02	Implement Initial FRA procedures and processes	01/01/2015	31/12/2022
AOM21.2-USE03	Training	01/01/2015	31/12/2022
AOM21.2-USE04	Operational use	01/01/2015	31/12/2022
AOM21.2-NM01	Implement Initial FRA system improvements	01/01/2015	31/12/2022
AOM21.2-NM02	Implement Initial FRA procedures and processes	01/01/2015	31/12/2022
AOM21.2-NM03	Safety Assessment	01/01/2015	31/12/2022
AOM21.2-NM04	Training	01/01/2015	31/12/2022
AOM21.2-NM05	Operational use	01/01/2015	31/12/2022

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

Expected Performance Benefits

Safety:	Although the main benefits impact the environment, FRA implementation has the ambition to at least maintain the current level of safety.
Capacity:	Increased capacity through better airspace utilisation to and reduced controller workload.
Operational Efficiency:	Savings in route distances and fuel efficiency through increased use of preferred flight profiles.
Cost Efficiency:	-
Environment:	Reductions in emissions through use of optimal routes.
Security:	-

Detailed SLoA Descriptions

AOM21.2-ASP01	Implement Initial FRA procedures and processes in support of the network dimension	From: 01/01/2015	By: 31/12/2022				
Action by:	ANS Providers						
Description & purpose:	Conduct the following actions: • Identify the FRA airspace volume (Lateral and Vertical) and applicable • Identify FRA entry and exit points, arrival transition point and departure • Adapt Airspace design and ensure FRA horizontal and vertical connect • Validate airspace design with NM; • Network overview - connectivity consistency of FRA application; • ATFCM FRA procedures; • Adapt RAD applicability; • Validate RAD with NM.	transition point, and int	ermediate points;				
	Note :This SLoA needs to be synchronised between ANSPs and NM.						
Supporting material(s):	EUROCONTROL - European Route Network Improvement Plan (ERNIP Methodology - Guidelines - 2.0 / 12/2018 Url : https://www.eurocontrol.int/publication/european-route-network-imp	, i					
ATM Master Plan relationship:	[PRO-148]-ASM Procedures for identifying and promulgating 'Free Route						
Finalisation criteria:	 The local FRA airspace has been identified in coordination with the N been updated accordingly. The local ATFCM procedures have been updated in cooperation with 						
AOM21.2-ASP02	Implement Initial FRA system improvements	From:	By:				

Created on 18/05/2024 21:29

Initial Free Route Airspace

		01/01/2015	31/12/2022				
Action by:	ANS Providers						
Description & purpose:	Deploy the ATC tools/functions deemed appropriate: • COP management • ASM/ATFCM for FRA management • MTCD						
	MONA ATC clearances beyond AoR						
	 ATC to ATC Flight Data Exchange (Basic OLDI and SYSCO) Dynamic sectorization and constraint management 						
	• Dynamic Area Proximity Warning (APW) • Tactical Controller Tool (TCT)						
Supporting material(s):	EUROCONTROL - SPEC-139 - EUROCONTROL Specification for Medi 03/2017	um-Term Conflict Dete	ction - Edition 2.0 /				
	Url : https://www.eurocontrol.int/publication/eurocontrol-specification-me						
	EUROCONTROL - SPEC-142 - EUROCONTROL Specification for Moni Url : https://www.eurocontrol.int/publication/eurocontrol-specification-mo	-) / 03/2017				
	EUROCONTROL - GUID-176 - EUROCONTROL Guidelines for On-Line 07/2020		DI) - Edition 1.1 /				
	Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-line-data-interchange-oldi EUROCONTROL - SPEC-106 - EUROCONTROL Specification for On-Line Data Interchange (OLDI) - Edition 5.0 /						
	07/2020						
	Url : https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi EUROCONTROL - GUID-161 - EUROCONTROL Guidelines for Area Proximity Warning - Part I to III - Edition 1.0 / 01/2017						
	Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-area-proximity-warning						
ATM Master Plan relationship:	[AAMS-16a]-Airspace management functions equipped with tools able to deal with free-routing						
elationship.	[ER APP ATC 75]-Enhance FDP for Direct Route and Free Route Operations						
	[ER APP ATC 78]-Update FDP to support 4D trajectory direct segments in free routing airspace beyond local AoR						
Finalisation criteria:	1 - The ATC system has been updated according to the specifications re	i					
AOM21.2-ASP03	Implement Initial FRA procedures and processes in support of the local dimension	From: 01/01/2015	By: 31/12/2022				
Action by:	ANS Providers						
Description & purpose:	Take the following actions:						
	Adapt the LoA with adjacent ATS units;						
	 Publish relevant data for FRA in AIP; Chart FRA operations; 						
	• •	e routes operation.					
	 Develop airspace management procedure for the implementation of free routes operation; Review ASM Procedures for 'Free Route' areas;; 						
	 Review ASM Procedures for Pree Route areas, Develop ATC procedures to cover free route co-ordination and transfer of control, trajectory change in a free route 						
	environment, alignment of procedures for conflict detection in FRA environment; ;						
	environment, alignment of procedures for conflict detection in FRA environment		nange in a free route				
			hange in a free route				
	environment, alignment of procedures for conflict detection in FRA environment		nange in a free route				
Supporting material(s):	environment, alignment of procedures for conflict detection in FRA enviro • Validate airspace design, RAD and ASM procedures with NM. Note :This SLoA needs to be synchronised between ANSPs and NM. EUROCONTROL - European Route Network Improvement Plan (ERNIP Methodology - Guidelines - 2.0 / 12/2018	onment; ;) Part 1 - European Air	space Design				
	 environment, alignment of procedures for conflict detection in FRA enviro • Validate airspace design, RAD and ASM procedures with NM. Note :This SLoA needs to be synchronised between ANSPs and NM. EUROCONTROL - European Route Network Improvement Plan (ERNIP Methodology - Guidelines - 2.0 / 12/2018 Url : <u>https://www.eurocontrol.int/publication/european-route-network-imp</u> 	onment; ;) Part 1 - European Air <u>rovement-plan-ernip-pa</u>	space Design				
ATM Master Plan	 environment, alignment of procedures for conflict detection in FRA enviro • Validate airspace design, RAD and ASM procedures with NM. Note :This SLoA needs to be synchronised between ANSPs and NM. EUROCONTROL - European Route Network Improvement Plan (ERNIP Methodology - Guidelines - 2.0 / 12/2018 Url : https://www.eurocontrol.int/publication/european-route-network-imp [PRO-085]-ATC procedures to cover issues such as hand-off, transfer of necessitated by changes in airspace availability, weather constraints and 	onment; ;) Part 1 - European Air rovement-plan-ernip-pa f control, and for definir d other non-nominal ever	space Design <u>art-1</u>				
ATM Master Plan relationship:	 environment, alignment of procedures for conflict detection in FRA enviro • Validate airspace design, RAD and ASM procedures with NM. Note :This SLoA needs to be synchronised between ANSPs and NM. EUROCONTROL - European Route Network Improvement Plan (ERNIP Methodology - Guidelines - 2.0 / 12/2018 Url : https://www.eurocontrol.int/publication/european-route-network-imp [PRO-085]-ATC procedures to cover issues such as hand-off, transfer of necessitated by changes in airspace availability, weather constraints and [PRO-148]-ASM Procedures for identifying and promulgating 'Free Route 	onment; ;) Part 1 - European Air rovement-plan-ernip-pa f control, and for definir d other non-nominal even e' areas	space Design <u>art-1</u>				
ATM Master Plan relationship:	 environment, alignment of procedures for conflict detection in FRA enviro • Validate airspace design, RAD and ASM procedures with NM. Note :This SLoA needs to be synchronised between ANSPs and NM. EUROCONTROL - European Route Network Improvement Plan (ERNIP Methodology - Guidelines - 2.0 / 12/2018 Url : https://www.eurocontrol.int/publication/european-route-network-imp [PRO-085]-ATC procedures to cover issues such as hand-off, transfer of necessitated by changes in airspace availability, weather constraints and 	onment; ;) Part 1 - European Air rovement-plan-ernip-pa f control, and for definir d other non-nominal events e' areas the charts.	space Design <u>art-1</u>				
ATM Master Plan relationship: Finalisation criteria:	 environment, alignment of procedures for conflict detection in FRA enviro • Validate airspace design, RAD and ASM procedures with NM. Note :This SLoA needs to be synchronised between ANSPs and NM. EUROCONTROL - European Route Network Improvement Plan (ERNIP Methodology - Guidelines - 2.0 / 12/2018 Url : https://www.eurocontrol.int/publication/european-route-network-imp [PRO-085]-ATC procedures to cover issues such as hand-off, transfer of necessitated by changes in airspace availability, weather constraints and [PRO-148]-ASM Procedures for identifying and promulgating 'Free Routt 1 - The FRA airspace has been described and published in the AIP and 2 - The Letters of Agreement have been updated if necessary. 3 - The ASM and ATC procedures have been updated to take on board to procedures to take on board to take on board to take on board to procedures have been updated to take on board to procedu	onment; ;) Part 1 - European Air rovement-plan-ernip-pa f control, and for definir d other non-nominal events e' areas the charts.	space Design <u>art-1</u>				
ATM Master Plan relationship:	 environment, alignment of procedures for conflict detection in FRA enviro • Validate airspace design, RAD and ASM procedures with NM. Note :This SLoA needs to be synchronised between ANSPs and NM. EUROCONTROL - European Route Network Improvement Plan (ERNIP Methodology - Guidelines - 2.0 / 12/2018 Url : https://www.eurocontrol.int/publication/european-route-network-imp [PRO-085]-ATC procedures to cover issues such as hand-off, transfer of necessitated by changes in airspace availability, weather constraints and [PRO-148]-ASM Procedures for identifying and promulgating 'Free Routt 1 - The FRA airspace has been described and published in the AIP and 2 - The Letters of Agreement have been updated if necessary. 	onment; ;) Part 1 - European Air rovement-plan-ernip-pa (control, and for definir d other non-nominal events e' areas the charts. the FRA impact.	space Design art-1 ig trajectory changes ents				
ATM Master Plan relationship: Finalisation criteria: AOM21.2-ASP04	 environment, alignment of procedures for conflict detection in FRA enviro • Validate airspace design, RAD and ASM procedures with NM. Note :This SLoA needs to be synchronised between ANSPs and NM. EUROCONTROL - European Route Network Improvement Plan (ERNIP Methodology - Guidelines - 2.0 / 12/2018 Url : https://www.eurocontrol.int/publication/european-route-network-imp [PRO-085]-ATC procedures to cover issues such as hand-off, transfer of necessitated by changes in airspace availability, weather constraints and [PRO-148]-ASM Procedures for identifying and promulgating 'Free Routt 1 - The FRA airspace has been described and published in the AIP and 2 - The Letters of Agreement have been updated if necessary. 3 - The ASM and ATC procedures have been updated to take on board to procedures to take on board to take on board to take on board to procedures have been updated to take on board to procedu	onment; ;) Part 1 - European Air rovement-plan-ernip-pa f control, and for definir d other non-nominal even e' areas the charts. the FRA impact. From:	space Design art-1 ig trajectory changes ents By:				
ATM Master Plan relationship: Finalisation criteria: AOM21.2-ASP04 Action by:	 environment, alignment of procedures for conflict detection in FRA enviro Validate airspace design, RAD and ASM procedures with NM. Note :This SLoA needs to be synchronised between ANSPs and NM. EUROCONTROL - European Route Network Improvement Plan (ERNIP Methodology - Guidelines - 2.0 / 12/2018 Url : https://www.eurocontrol.int/publication/european-route-network-imp [PRO-085]-ATC procedures to cover issues such as hand-off, transfer of necessitated by changes in airspace availability, weather constraints and [PRO-148]-ASM Procedures for identifying and promulgating 'Free Route 1 - The FRA airspace has been described and published in the AIP and 2 - The Letters of Agreement have been updated if necessary. 3 - The ASM and ATC procedures have been updated to take on board if Safety Assessment 	onment; ;) Part 1 - European Air rovement-plan-ernip-pa f control, and for definir d other non-nominal eve e' areas the charts. the FRA impact. From: 01/01/2015	space Design art-1 ing trajectory changes ents By: 31/12/2022				
ATM Master Plan relationship: Finalisation criteria: AOM21.2-ASP04 Action by: Description & purpose:	 environment, alignment of procedures for conflict detection in FRA enviro • Validate airspace design, RAD and ASM procedures with NM. Note :This SLoA needs to be synchronised between ANSPs and NM. EUROCONTROL - European Route Network Improvement Plan (ERNIP Methodology - Guidelines - 2.0 / 12/2018 Url : https://www.eurocontrol.int/publication/european-route-network-imp [PRO-085]-ATC procedures to cover issues such as hand-off, transfer of necessitated by changes in airspace availability, weather constraints and [PRO-148]-ASM Procedures for identifying and promulgating 'Free Route 1 - The FRA airspace has been described and published in the AIP and 2 - The Letters of Agreement have been updated if necessary. 3 - The ASM and ATC procedures have been updated to take on board to Safety Assessment ANS Providers The safety assessment of the changes must be developed and delivered EUROCONTROL - European Route Network Improvement Plan (ERNIP Methodology - Guidelines - 2.0 / 12/2018 	onment; ;) Part 1 - European Air rovement-plan-ernip-pa f control, and for definir d other non-nominal events the charts. the FRA impact. From: 01/01/2015 d to the competent author) Part 1 - European Air	space Design art-1 ag trajectory changes ents By: 31/12/2022 ority. space Design				
Supporting material(s): ATM Master Plan relationship: Finalisation criteria: AOM21.2-ASP04 Action by: Description & purpose: Supporting material(s): Finalisation criteria:	 environment, alignment of procedures for conflict detection in FRA enviro. Validate airspace design, RAD and ASM procedures with NM. Note :This SLoA needs to be synchronised between ANSPs and NM. EUROCONTROL - European Route Network Improvement Plan (ERNIP Methodology - Guidelines - 2.0 / 12/2018 Url : https://www.eurocontrol.int/publication/european-route-network-imp [PRO-085]-ATC procedures to cover issues such as hand-off, transfer of necessitated by changes in airspace availability, weather constraints and [PRO-148]-ASM Procedures for identifying and promulgating 'Free Routt 1 - The FRA airspace has been described and published in the AIP and 2 - The Letters of Agreement have been updated if necessary. 3 - The ASM and ATC procedures have been updated to take on board of Safety Assessment ANS Providers The safety assessment of the changes must be developed and delivered EUROCONTROL - European Route Network Improvement Plan (ERNIP) 	onment; ;) Part 1 - European Air rovement-plan-ernip-pa f control, and for definir d other non-nominal event e' areas the charts. the FRA impact. From: 01/01/2015 d to the competent author) Part 1 - European Air rovement-plan-ernip-pa	space Design art-1 ag trajectory changes ents By: 31/12/2022 ority. space Design				

Initial Free Route Airspace

		From:	By:					
AOM21.2-ASP05	Training	01/01/2015	31/12/2022					
Action by:	ANS Providers							
Description & purpose:	All relevant staff must be duly trained.							
Supporting material(s):	EUROCONTROL - European Route Network Improvement Plan Methodology - Guidelines - 2.0 / 12/2018							
	Url : https://www.eurocontrol.int/publication/european-route-network-improvement-plan-ernip-part-1							
Finalisation criteria:	1 - Training has been completed.		_					
AOM21.2-ASP06	Operational use	From: 01/01/2015	By: 31/12/2022					
Action by:	ANS Providers	I						
Description & purpose:	Initial FRA is in operational use once the systems have been imp assessment has been delivered and approved, and the training		in place, the safety					
Supporting material(s):	EUROCONTROL - European Route Network Improvement Plan Methodology - Guidelines - 2.0 / 12/2018	(ERNIP) Part 1 - European Air	rspace Design					
	Url : https://www.eurocontrol.int/publication/european-route-netw	vork-improvement-plan-ernip-pa	art-1					
Finalisation criteria:	1 - Initial FRA is put into service.							
AOM21.2-USE01	Implement Initial FRA system improvements	From:	By:					
	implement initial i tvv system improvements	01/01/2015	31/12/2022					
Action by:	Airspace Users							
Description & purpose:	 Adapt as necessary the flight Planning system to support FRA as follows: Provide the capability to take into account the different constraints, e.g.: ATS, FRA, RAD, scenarios, FL constraints part of the route only; Ensure FPL route planning for a complete flight taking into account the differences of implementation (FRA with or without partial implementation) throughout the entire flight. 							
	Note :No supporting material identified (subject to stakeholder analysis of the local needs)							
ATM Master Plan relationship:	[AOC-ATM-10]-Modification of AOC/WOC-ATM trajectory manages service requested by NOP for pre-flight trajectory with dynamic results of the service requested by NOP for pre-flight trajectory with dynamic results of the service requested by NOP for pre-flight trajectory with dynamic results of the service requested by NOP for pre-flight trajectory with dynamic results of the service requested by NOP for pre-flight trajectory with dynamic results of the service requested by NOP for pre-flight trajectory with dynamic results of the service requested by NOP for pre-flight trajectory with dynamic results of the service requested by NOP for pre-flight trajectory with dynamic results of the service requested by NOP for pre-flight trajectory with dynamic results of the service r	<u>gement system (or new system outing</u>	ns) to allow quality of					
Finalisation criteria:	1 - Flight Planning system has been adapted as necessary.							
AOM21.2-USE02	Implement Initial FRA procedures and processes	From: 01/01/2015	By: 31/12/2022					
Action by:	Airspace Users							
Description & purpose:	 Take the following actions: Develop and apply operational Procedures for free route; Develop and apply operational Procedures to take into account 	t airspace and traffic constraint	s when planning a route					
Supporting material(s):	EUROCONTROL - European Route Network Improvement Plan Methodology - Guidelines - 2.0 / 12/2018	(ERNIP) Part 1 - European Air	rspace Design					
	Url : https://www.eurocontrol.int/publication/european-route-netw	vork-improvement-plan-ernip-pa	art-1					
Finalisation criteria:	1 - Procedures taking into account Free Route Airspace operation	ons have been promulgated.						
AOM21.2-USE03	Training	From:	By:					
		01/01/2015	31/12/2022					
Action by:	Airspace Users							
Description & purpose:	All relevant staff must be duly trained.							
Finalisation criteria:	1 - Training has been completed							
		From:	By:					
AOM21.2-USE04	Operational use	Applicability Area 1: 01/01/2015	Applicability Area 31/12/2022					
Action by:	Airspace Users							
Description & purpose:	Initial FRA is in operational use once the systems have been imp assessment has been delivered and approved, and the training		in place, the safety					
Supporting material(s):	EUROCONTROL - European Route Network Improvement Plan Methodology - Guidelines - 2.0 / 12/2018							
Finalisation criteria:	Url : https://www.eurocontrol.int/publication/european-route-netw 1 - Initial FRA is put into service.	<u>vork-improvement-plan-emlp-p</u>	<u>an-1</u>					
mansation criteria:		From:	By:					
AOM21.2-NM01	Implement Initial FRA system improvements	Tion.	by.					

Initial Free Route Airspace

		Applicability Area	Applicability Area 1				
		1: 01/01/2015	31/12/2022				
Action by:	NM						
Description & purpose:	Upgrade NM system to support the following: • IFPS routing proposal • Specific ASM improvements for FRA • Network impact assessment for FRA • CACD adaptations for FRA Initial deployment						
	Note :This SLoA needs to be synchronised between ANSPs, AUs a	nd NM.					
Supporting material(s):	EUROCONTROL - European Route Network Improvement Plan (Ef Methodology - Guidelines - 2.0 / 12/2018 Url : https://www.eurocontrol.int/publication/european-route-network	, ,					
ATM Master Plan relationship:	[AAMS-16a]-Airspace management functions equipped with tools al [NIMS-29]-Network DCB sub-system enhanced for Network Operati						
Finalisation criteria:		1 - The required adaptations of NM systems (IFPS and Airspace Management tools) to FRA have been deployed					
		From:	By:				
AOM21.2-NM02	Implement Initial FRA procedures and processes	01/01/2015	31/12/2022				
Action by:	NM						
	 Identify the FRA airspace volume (Lateral and Vertical) and applicable time; Identify FRA entry and exit points, arrival transition point and departure transition point, and intermediate points; Adapt Airspace design and ensure FRA horizontal and vertical connectivity; Network overview-connectivity consistency of Initial FRA application; ATFCM FRA procedures; Adapt RAD applicability; Validate airspace design, RAD and ASM procedures with ANSPs. 						
Supporting material(s):	Note :This SLoA needs to be synchronised between ANSPs and NM. EUROCONTROL - European Route Network Improvement Plan (ERNIP) Part 1 - European Airspace Design Methodology - Guidelines - 2.0 / 12/2018						
	Url : https://www.eurocontrol.int/publication/european-route-network-improvement-plan-ernip-part-1 EUROCONTROL - European Route Network Improvement Plan (ERNIP) Part 2 - European ATS Route Network - Version 2019-2024 - June 2019 / 07/2019 Url : https://www.eurocontrol.int/publication/european-route-network-improvement-plan-ernip-part-2 EUROCONTROL - European Route Network Improvement Plan (ERNIP) Part 3 - Airspace Management Handbook - Guidelines for Airspace Management - 5.5 / 11/2017						
TM Master Plan	Url : https://www.eurocontrol.int/publication/european-route-network		art-3				
elationship:	[PRO-148]-ASM Procedures for identifying and promulgating 'Free I	Route' areas					
Finalisation criteria:	1 - European Airspace has been updated with the integration of the 2 - Route Availability Document has been updated accordingly.	coordinated FRA definition	l.				
		From:	By:				
	Safety Assessment	01/01/2015	31/12/2022				
AOM21.2-NM03							
	NM						
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