



# LSSIP 2023 - ESTONIA LOCAL SINGLE SKY IMPLEMENTATION

Implementation Overview

# Foreword

The EUROCONTROL Local Single Sky Implementation (LSSIP) is a long-standing process celebrating its 30<sup>th</sup> anniversary. Its main goal is to improve the overall streamlined planning process in aviation and in ATM, allowing aviation stakeholders to deploy the agreed set of technological and infrastructure evolutions in a timely manner and put the new functionalities into operations in an orchestrated way across Europe.

The usage of the common LSSIP+ tool to gather data from the ATM stakeholders is a very good showcase of our collective efforts, EUROCONTROL and SDM, in advancing the European ATM Network in support of our operational stakeholders, moving towards the single value chain.

The LSSIP process is continuously improving the planning and reporting accuracy and consistency. It ensures the regular monitoring of the implementation of all functionalities.

The operational stakeholders are facing the challenges of traffic growth, capacity and constantly increasing sustainability requirements. The need to maintain a process and platform for the European aviation community which provides a visibility of their plans and progress within the agreed timeline is stronger than ever. The continuous engagement in the LSSIP process shows the commitment towards a robust unified planning and monitoring process of the European ATM modernisation.

The national LSSIP documents not only provide a unified view of the plans and progress of implementation at both National and ECAC levels. They also form the core of the ICAO's Aviation System Block Upgrades (ASBUs) Implementation Monitoring Report within the ICAO EUR Region. Developed by EUROCONTROL on behalf of ICAO, it is based on the reported LSSIP data for all 55 ICAO/EUR States and informs at global level about the European progress of implementation of the Global Air Navigation Plan (GANP).

Moreover, starting this year, the EUR RASP questionnaire, a joint effort between the ICAO EUR Office and EASA, directly supported by EUROCONTROL, has been officially incorporated into the LSSIP mechanism, thereby enhancing the collaboration between our organisations.

I would like to thank all our stakeholders for their continued commitment and significant effort in contributing to the LSSIP process, the production of this LSSIP document and in supporting EUROCONTROL towards our goal of diligently guiding and informing the Aviation community on ATM deployment.

Enjoy reading!

Iacopo Prissinotti Director NM - Network Manager EUROCONTROL

# SESAR Deployment Manager Lookout

This document serves as a testament to our collective efforts in advancing the European ATM Network, and a roadmap for the challenges that lie ahead. We can truly state that this is the result of acting as one team for the modernisation of European aviation.

The SESAR Deployment Programme progress information, collected through the LSSIP+ tool, via the unified monitoring and reporting process is a cornerstone of this document and at the same time directly supports the delivery of the SESAR Deployment Programme Monitoring View 2023.

This drives the re-direction of our work at SDM to guide and support the operational stakeholders in their implementation efforts of CP1 to make sure the ATM industry is able to achieve the target goals. It gives SDM, since the first edition of the Monitoring View in 2015, the opportunity to identify implementation risks and better support stakeholders to accelerate deployment.

I would like to extend my gratitude to all European organisations involved and contributing with data in LSSIP+ tool. As it is only through stakeholders' cooperation, efforts and partnerships' spirit that we will keep pushing deployment forward within the European skies, avoiding delays in the adoption of CP1 and building an ATM industry that can overcome the challenges of the upcoming years.

The two CP1 regulatory target deadlines already surpassed, and the approaching ones, underscore the urgency of our mission to better support stakeholders to accelerate deployment. The significant progress achieved in the status of its implementation is living proof for the joint effort of ATM stakeholders throughout Europe.

Those deadlines serve as a reminder that our work is not just about meeting regulatory requirements, but about shaping the future of aviation in Europe. Every objective we complete, every milestone we achieve, brings us one step closer to that future.

As you dive into this document and SDP Monitoring View 2023, we hope it provides you with a clear understanding of our common journey so far and the path that lies ahead. We look forward to navigating these challenges together, driven by our shared commitment to a safer, more efficient, and sustainable European sky.

Mariagrazia La Piscopia Chief Strategy and Programme SESAR Deployment Manager

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Reference Documents	
LSSIP Documents	https://www.eurocontrol.int/service/local-single-sky-implementation- monitoring
Master Plan Level 3 – Plan Edition 2023	https://www.eurocontrol.int/publication/european-atm-master-plan- implementation-plan-level-3
Master Plan Level 3 – Report Year 2023	https://www.eurocontrol.int/publication/european-atm-master-plan- implementation-report-level-3
European ATM Portal	https://www.atmmasterplan.eu/
STATFOR Forecasts	https://www.eurocontrol.int/statfor
National AIP	https://aim.eans.ee

# Approval Sheet

The following authorities have approved all parts of the LSSIP Year 2023 document, and the signatures confirm the correctness of the reported information and reflect the commitment to implement the actions laid down in the European ATM Master Plan Level 3 (Implementation View) – Edition 2023.

Stakeholder / Organisation	Name	Position	Signature and date
Estonian Transport Administration	Üllar Salumäe	Director of Aviation Division	<u>Üllar Salumäe</u> <sup>Ullar Salumäe (Apr 11, 2024 10:53 GMT+3)</sup>
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Estonian Air Force	Toomas Susi	Active Commander of the Estonian Air Force Brigadier General	<u>Toomas Suidu</u> Toomas Susi (Apr 11, 2024 14:29 GMT+3)
AS Tallinna Lennujaam	Riivo Tuvike	Chairman of Management Board	RIIVO TUVIKO Riivo Tuvike (Apr 15, 2024 16:31 GMT+3)
Estonian Environment Agency	Taimar Ala	Director General	<b>Taimar Ala</b> Taimar Ala (Apr 15, 2024 16:44 GMT+3)

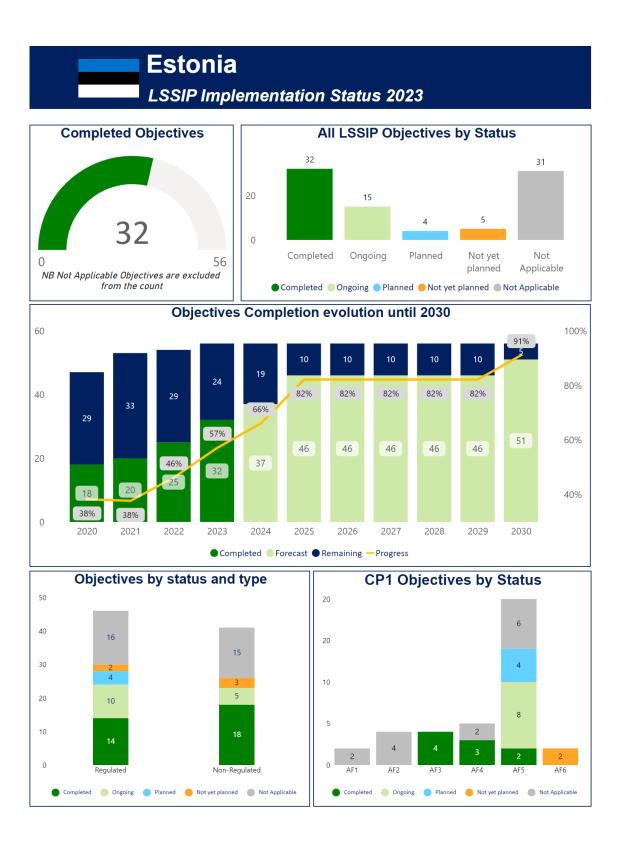
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# **Executive Summary**

# High Level Stats dashboard



# **Traffic and Capacity**



Level of traffic compared to 2019.



Summer En-Route Delay Tallinn ACC



Forecast between 2024-2029

## **Implementation Summary**

#### Summary of the implementation of the objectives

The introduction of a new Voice Communication System was a major project, which was finalised by the first half of 2023 and contributed to the completion of Objectives COM11.1 and COM11.2.

The Objective FCM04.2 Enhanced Short Term ATFCM Measures was fully completed.

All the SWIM related Objectives are planned or ongoing, but there are foreseen delays in implementation due to complex ATM systems. Nevertheless, in 2023 several AIS activities were carried out, which contribute to the implementation of digital NOTAM Service. EANS is also participating in project ACADIA (Acceleration of Aeronautical Digital Information Availability) to ensure accordance.

ITY-ACID Aircraft Identification is still ongoing with an implementation date later than the FOC date due to a delay of neighbouring ANSP-s implementation plans.

The local Objective AOP14.1 Remote Tower Services first stage was fully implemented and is envisaged to be completed for the next aerodrome (EEKE) by 2024.

#### Other 2023 developments:

- Installation of new meteorological systems at EEKA, EEKE, EETN and EETU AD is finished. Certification process is ongoing.
- Implementation of CAT II at Tallinn Airport is ongoing.
- Changes in governmental system. Estonian Transport Administration and Environment Agency moved into area of Ministry of Climate.

Implementing progress of AOM13.1, INF07 has gone very slowly due to constant lack of human resources in Estonian Transport Administration.

# Introduction

The Local Single Sky ImPlementation (LSSIP) documents, as an integral part of the Master Plan (MP) Level 3 (L3)/LSSIP mechanism, constitute a short/medium term implementation plan containing ECAC+ States' actions to achieve the Implementation Objectives as set out by the MP Level 3 and to improve the performance of their national ATM System. This LSSIP document describes the situation in the State at the end of December 2023, together with plans for the next years.

**Chapter 1** provides an overview of the national ATM scope within the State, which is relevant for the implementation activities, as well as an overview of the planning activities by providing different charts on the progress reported by the different stakeholders.

**Chapter 2** provides a comprehensive picture of the situation of Air Traffic, Capacity and ATFM Delay per each ACC in the State. It shows the evolution of Air Traffic and Delay in the last five years and the forecast for the next five years. It also presents the achieved performance in terms of delay during the summer season period and the planned projects assumed to offer the required capacity which will match the foreseen traffic increase and keep the delay at the agreed performance level.

**Chapter 3** provides an overview of the ATM institutional arrangements within the State.

**Chapter 4** provides the main Implementation Projects which contribute directly to the implementation of the MP Operational Improvements and/or Enablers and Implementation Objectives. The LSSIP document covers a high-level list of the projects showing the applicable links. All other details like description, timescale, progress made and expected contribution to the ATM Key Performance Areas provided by the State per each project are available in the LSSIP DB (extraction can be asked to LSSIP FP or LSSIP CP).

**Chapter 5** deals with other cooperation activities beyond Implementation Projects. It provides an overview of the FAB cooperation, as well as all other multinational initiatives, which are out of the FAB scope. The content of this chapter generally is developed and agreed in close cooperation between the States concerned.

**Chapter 6** provides the high-level information on progress and plans of each Implementation Objective. The information for each Implementation Objective is presented in boxes giving a summary of the progress and plans of implementation for each Stakeholder. The conventions used are presented at the beginning of the section.

The information contained in Chapter 6 – Implementation Objectives Progress is deemed sufficient to satisfy State reporting requirements towards ICAO in relation to ASBU (Aviation System Block Upgrades) monitoring.

# 1 National Implementation View

# 1.1 National ATM Scope

## International Membership

Estonia is a member of the following international organisations in the field of ATM:

Organisation	Since	Organisation	Since
EUROCONTROL	2015	* * * * * * * EUROPEAN UNION	2004
PO CEP	1995	EASA European Adation Safety Agency	2004
CO-OACI- Hitedo	1992	OTAN	2004
EUROPEAN DEFENCE AGENCY	2004		1992
	ME THE ME	DRLD TEOROLOGICAL GANIZATION	1992

#### Estonia is part of:

The North European Functional Airspace Block (NEFAB).

In 2023 the GDP decreased by 3,5%, the forecast for 2024 is about 0,4% of deficiency. Main airport covered by LSSIP: EETN AD.

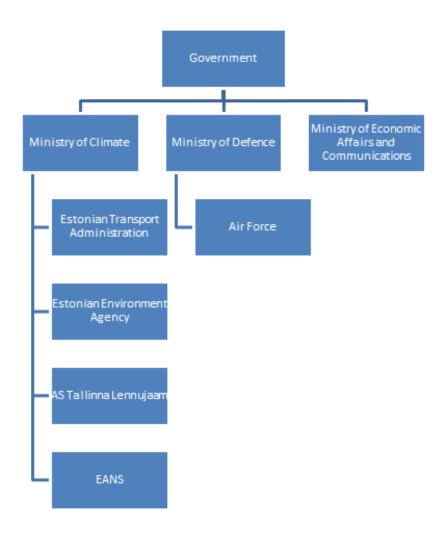
Number of national projects: 4 Number of FAB projects: NIL Number of multinational projects: 3

### Main National Stakeholders

The main National Stakeholders involved in ATM in Estonia are the following:

- Ministry of Climate;
- Ministry of Economic Affairs and Communications;
- Ministry of Defence;
- Estonian Transport Administration;
- Estonian Air Navigation Services (EANS);
- Estonian Environment Agency;
- Estonian Defence Forces Air Force;
- AS Tallinna Lennujaam.

Their activities are detailed in the following subchapters and their relationships are shown in the diagram below.



# 1.2 Implementation Views

#### Progress per SESAR Phase

The figure below shows the progress made so far in the implementation of objectives stemming from different R&D phases (Pre-SESAR, SESAR1 and SESAR 2020).

It shows the average implementation progress for all objectives grouped by SESAR Phase, excluding those for which the State is outside the applicability area as defined on a yearly basis in the European ATM Master Plan (Level 3) 2023, i.e., disregarding the declared "NOT APPLICABLE" LSSIP progress status.

Pre-SESAR Phase (2000 - 2030)	
84 %	
	_
SESAR 1 (2001 - 2030)	
55 %	
SESAR2020 Wave 1 (2021 - 2025)	
100 %	

### Progress per SESAR Essential Operational Changes and Phase

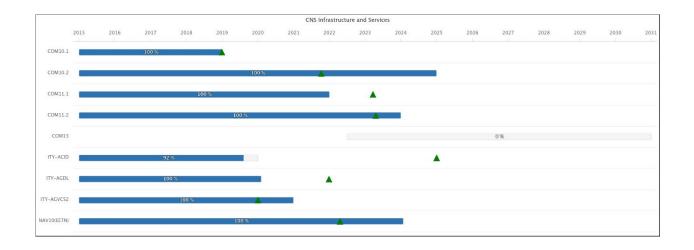
The figure below shows the progress made so far, per SESAR Essential Operational Changes, in the implementation of the SESAR phases. The percentages are calculated as an average, per EOC, of the same objectives as in the previous paragraph.

	41.28 %			
			100 %	
Airport and TMA p				
		75.25 %		
		74.25%		
0 %				
CNS Infrastructure				
[			38.4 %	
		75 %		
0 %				
Fully Dynamic and	l Optimised Airspace			
		76.67%		
(			100 %	
			100 %	
Trajectory Based (	Operations			
			100 %	
	33.33 %			
0 %		_		
0.76				
Virtualisation of Se	ervice Provision			
	ervice Provision			
0%)	ervice Provision 40 %			
0%)				
0%	40 %			
0% 0% Digital AIM and ME	40 %			
0%) 0% Digital AIM and ME	40 %			
0%       0%       Digital AIM and ME       C10%       0%	40 %			
Digital AIM and ME	40 %	SESAR1	SESAR 2020 Wave 1	SESAR 2020 Wave 2

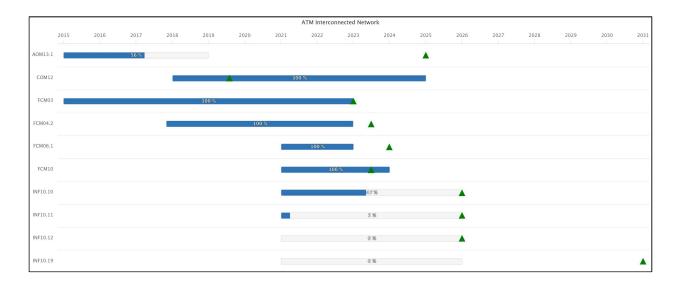
### **Objective Progress per SESAR Essential Operational Changes**

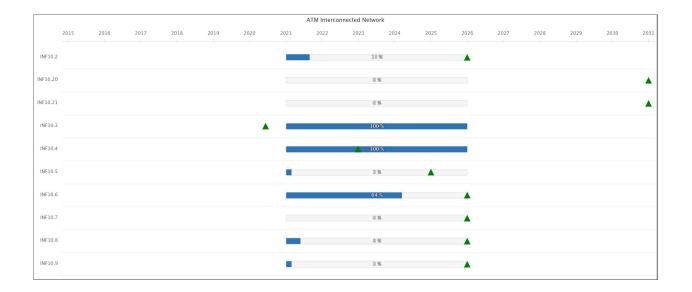
Progress achieved
 Progress remaining to 100%
 Implementation Date
 IOC Initial Operational Capability
 FOC Full Operational Capability













						Digital AIM and M	ET Services					
2	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
INF07	-		6 %									



#### No implementation objectives are available yet for this EOC.

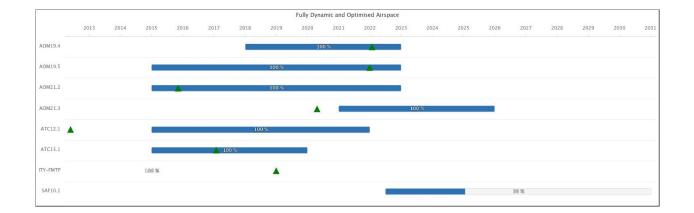


	Virtualisation of Service Provision										
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
AOP14.1(EETN)						40 %					











							Traj	ectory Based O	perations							
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
ATC02.8						10	0 %									
ATC02.9							10	0 %								
ATC23														0%		
ATC25														0 %		



No implementation objectives are available yet for this EOC.

#### ICAO ASBU Implementation Progress – Blocks 0 and 1

The figure below shows the progress made so far in the implementation of the ICAO ASBU Blocks 0 and 1, according to ICAO Global Air Navigation Plan 7<sup>th</sup> Edition (2022). The overall percentage is calculated as an average of the relevant Objectives contributing to each of the relevant ASBU Blocks; this is a summary of the table explained on the next page – ICAO ASBU Implementation Progress.

Block 0 (2000 - 2030)	
86 %	
Block 1 (2007 - 2030)	
87 %	

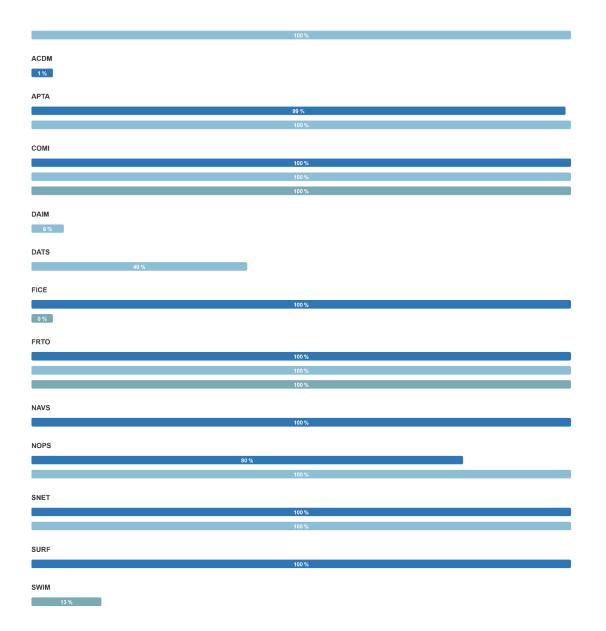
#### ICAO ASBU Implementation Progress

The tables below show for each ASBU Elements belonging to a particular ASBU Thread and Block, the overall status, the final date foreseen for completion and the percentage of progress achieved in the current cycle.

The set of Block 0 and Block 1 ASBU elements to be monitored in ICAO EUR Region has been approved through written consultation by European Aviation System Planning Group (EASPG) in April 2021, based on the conclusions of the EUR Global Air Navigation Plan (GANP) Transition Project Team. The set of monitored Elements has been subsequently amended following the publication of the 7<sup>th</sup> version of the GANP, endorsed in October 2022.

Results below were determined using the LSSIP Year 2023 declared statuses and progress of the relevant Implementation objectives in accordance with the updated mapping.

Note: Only the ASBU elements that are linked to an active implementation Objective are shown



# **ATM Deployment Outlook**

#### State Objectives

✓ Deployed in 2023

- Interactive Rolling NOP
  - [FCM10] 100 % progress
- Improve Runway Safety by Preventing Runway Excursions [SAF11.1] 100 % progress
- Collaborative Flight Planning [FCM03] 100 % progress
- Voice over Internet Protocol (VoIP) in En-Route [COM11.1] 100 % progress
- Voice over Internet Protocol (VoIP) in Airport/Terminal
   [COM11.2] 100 % progress
- Enhanced Short Term ATFCM Measures [FCM04.2] 100 % progress
- Automated Support for Traffic Complexity Assessment and Flight Planning interfaces [FCM06.1] 100 % progress

#### By 2024

Aeronautical Information Exchange - Airspace Reservation (ARES)

 [INF10.5] 3 % progress

 Harmonise Operational Air Traffic (OAT) and General Air Traffic (GAT) Handling

 [AOM13.1] 56 % progress

 Aircraft Identification

 [ITY-ACID] 92 % progress

#### By 2025

- Aeronautical Information Exchange - Aerodrome mapping service [INF10.7] 0 % progress - Aeronautical Information Exchange - Aeronautical Information Features service [INF10.8] 8 % progress - Meteorological Information Exchange - Aerodrome Meteorological information Service [INF10.10] 47 % progress - Electronic Terrain and Obstacle Data (eTOD) [INF07] 6 % progress - Stakeholders' SWIM PKI and cyber security [INF10.2] 13 % progress - Meteorological Information Exchange - Network Meteorological Information [INF10.12] 0 % progress - Aeronautical Information Exchange – Digital NOTAM service [INF10.6] 64 % progress - Meteorological Information Exchange - Volcanic Ash Mass Concentration information service [INF10.9] 3 % progress - Meteorological Information Exchange - En-Route and Approach Meteorological information service [INF10.11] 5 % progress

Source: EUROCONTROL LSSIP+ DB

## By 2027+

- Flight Information Exchange (Yellow Profile) - Data Publication Service

[INF10.21] 0 % progress

- Flight Information Exchange (Yellow Profile) - Notification Service

[INF10.20] 0 % progress

- Implement measures to reduce the risk to aircraft operations caused by airspace infringements [SAF10.1] 30 % progress
- Flight Information Exchange (Yellow Profile) Flight Data Request Service

[INF10.19] 0 % progress

Source: EUROCONTROL LSSIP+ DB

#### **Airport Objectives Tallinn Airport**



- Deployed in 2023
- Continuous Descent Operations (CDO)

[ENV01] 100 % progress

# By 2024

#### - Remote Tower Services

[AOP14.1] 40 % progress

- RNAV 1 in TMA Operations

[NAV03.1] 97 % progress

Source: EUROCONTROL LSSIP+ DB

# By 2027+

#### - Airport Collaborative Decision Making (A-CDM)

[AOP05] 1 % progress

# Overall situation of Implementation Objectives

Main Objectives	Торіс	Progress at the end of 2023	Status	20	23	202	24	2025	2	026	20	27	20	28	20	29	>2029
AOM13.1	Harmonise Operational Air Traffic (OAT) and General Air Traffic (GAT) Handling	56%	Ongoing														
AOM19.4	Management of Predefined Airspace Configurations	100%	Completed														
AOM19.5	ASM and A-FUA	100%	Completed														
AOM21.1	Direct Routing	0%	Not Applicable														
AOM21.2	Initial Free Route Airspace	100%	Completed														
AOM21.3	Enhanced Free Route Airspace Operations	100%	Completed					*									
AOP04.1(EETN)	Advanced Surface Movement Guidance and Control System A-SMGCS Surveillance Service (former ICAO Level 1)	100%	Completed														
AOP04.2(EETN)	Advanced Surface Movement Guidance and Control System (A-SMGCS) Runway Monitoring and Conflict Alerting (RMCA) (Airport Safety Support Service = former ICAO Level 2)	100%	Completed					*									
AOP05(EETN)	Airport Collaborative Decision Making (A- CDM)	1%	Ongoing														
AOP10(EETN)	Time-Based Separation	0%	Not Applicable		*												
AOP11.1(EETN)	Initial Airport Operations Plan	0%	Not Applicable		*												
AOP11.2(EETN)	Extended Airport Operations Plan	0%	Not Applicable									*					
AOP12.1(EETN)	Airport Safety Nets	0%	Not Applicable					*									
AOP13(EETN)	Automated Assistance to Controller for Surface Movement Planning and Routing	0%	Not Applicable					*									
AOP14.1(EETN)	Remote Tower Services	40%	Ongoing														2030
AOP15	Enhanced traffic situational awareness and airport safety nets for the vehicle drivers	0%	Not Applicable														2030
AOP16	Guidance assistance through airfield ground lighting	0%	Not Applicable														2030

Main Objectives	Торіс	Progress at the end of 2023	Status	20	23	2	024	20	25	20	26	20	27	20	)28	20	29	>2029
AOP17	Provision/integration of departure planning information to NMOC	0%	Not Applicable															2030
AOP18	Runway Status Lights (RWSL)	0%	Not Applicable															2030
AOP19(EETN)	Departure Management Synchronised with Pre-departure sequencing	0%	Not Applicable															
AOP21	Wake Turbulence Separations for Arrivals based on Static Aircraft Characteristics (S- PWS-A)	0%	Not Applicable															2030
AOP23(EETN)	Integrated runway sequence for full traffic optimization on single and multiple runway airports	0%	Not yet planned															2030
AOP25(EETN)	De-icing management tool	0%	Not yet planned															2030
AOP26	Reduced separation based on local Runway Occupancy Time (ROT) characterisation	0%	Not Applicable															2030
ATC02.2	Implement ground based safety nets - Short Term Conflict Alert (STCA) - level 2 for en-route operations	100%	Completed															
ATC02.8	Ground-Based Safety Nets	100%	Completed															
ATC02.9	Short Term Conflict Alert (STCA) for TMAs	100%	Completed															
ATC07.1(EETN)	AMAN Tools and Procedures	0%	Not Applicable															
ATC12.1	Automated Support for Conflict Detection, Resolution Support Information and Conformance Monitoring	100%	Completed															
ATC15.1	Information Exchange with En-route in Support of AMAN	100%	Completed															
ATC15.2(EETN)	Arrival Management Extended to En-route Airspace	0%	Not Applicable				*											
ATC16	Implement ACAS II compliant with TCAS II change 7.1	100%	Completed															
ATC18	Multi-Sector Planning En-route - 1P2T	0%	Not Applicable															2030
ATC19(EETN)	AMAN/DMAN Integration	0%	Not Applicable										*					

Main Objectives	Торіс	Progress at the end of 2023	Status	20	23	20	)24	20	25	20	26	20	27	20	)28	20	29	>2029
ATC20	Enhanced STCA with down-linked parameters via Mode S EHS	0%	Not Applicable															2030
ATC23	Initial Air-Ground Trajectory Information Sharing (Ground Domain)	0%	Not yet planned										*					
ATC25	Initial Trajectory Information Sharing ground distribution	0%	Not yet planned										*					
ATC26(EETN)	Point Merge in complex TMA	0%	Not Applicable															2030
COM10.1	Migrate from AFTN to AMHS (Basic service)	100%	Completed															
COM10.2	Extended AMHS	100%	Completed				*											
COM11.1	Voice over Internet Protocol (VoIP) in En- Route	100%	Completed															
COM11.2	Voice over Internet Protocol (VoIP) in Airport/Terminal	100%	Completed		*													
COM12	New Pan-European Network Service (NewPENS)	100%	Completed				*											
COM13	Air Traffic Services (ATS) datalink using SatCom Class B	0%	Not yet planned															2030
ENV01(EETN)	Continuous Descent Operations (CDO)	100%	Completed		*													
ENV02(EETN)	Airport Collaborative Environmental Management	100%	Completed															2030
ENV03(EETN)	Continuous Climb Operations (CCO)	0%	Not Applicable															2030
FCM01	Implement enhanced tactical flow management services	100%	Completed															
FCM03	Collaborative Flight Planning	100%	Completed															
FCM04.2	Enhanced Short Term ATFCM Measures	100%	Completed															
FCM06.1	Automated Support for Traffic Complexity Assessment and Flight Planning interfaces	100%	Completed															
FCM10	Interactive Rolling NOP	100%	Completed		*													
FCM11.1(EETN)	Initial AOP/NOP Information Sharing	0%	Not Applicable		*													
FCM11.2(EETN)	AOP/NOP integration	0%	Not Applicable										*					
INF07	Electronic Terrain and Obstacle Data	6%	Ongoing															

Main Objectives	Торіс	Progress at the end of 2023	Status	2	023	Z	2024	20	25	20	26	20	27	20	28	20	29	>2029
	(eTOD)																	
INF10.10	Meteorological Information Exchange - Aerodrome Meteorological information Service	47%	Ongoing						*									
INF10.11	Meteorological Information Exchange - En-Route and Approach Meteorological information service	5%	Ongoing						*									
INF10.12	Meteorological Information Exchange - Network Meteorological Information	0%	Planned						*									
INF10.13	Cooperative Network Information Exchange - ATFCM Tactical Updates Service (Airport Capacity and Enroute)	0%	Not Applicable						*									
INF10.14	Cooperative Network Information Exchange – Flight Management Service (Slots and NOP/AOP integration)	0%	Not Applicable						*									
INF10.15	Cooperative Network Information Exchange – Measures Service (Traffic Regulation)	0%	Not Applicable						*									
INF10.16	Cooperative Network Information Exchange - Short Term ATFCM Measures services (MCDM, eHelpdesk, STAM measures)	0%	Not Applicable						*									
INF10.17	Cooperative Network Information Exchange – Counts service (ATFCM Congestion Points)	0%	Not Applicable						*									
INF10.19	Flight Information Exchange (Yellow Profile) - Flight Data Request Service	0%	Planned						*									
INF10.2	Stakeholders' SWIM PKI and cyber security	13%	Ongoing						*									
INF10.20	Flight Information Exchange (Yellow Profile) - Notification Service	0%	Planned						*									
INF10.21	Flight Information Exchange (Yellow Profile) - Data Publication Service	0%	Planned						*									

Main Objectives	Торіс	Progress at the end of 2023	Status	20	23	20	)24	20	25	20	26	20	27	20	28	20	29	>2029
INF10.23	Flight Information Exchange (Yellow Profile) - Extended AMAN SWIM Service	0%	Not Applicable						*									
INF10.3	Aeronautical Information Exchange - Airspace structure service	100%	Completed						*									
INF10.4	Aeronautical Information Exchange - Airspace Availability Service	100%	Completed						*									
INF10.5	Aeronautical Information Exchange - Airspace Reservation (ARES)	3%	Ongoing						*									
INF10.6	Aeronautical Information Exchange – Digital NOTAM service	64%	Ongoing						*									
INF10.7	Aeronautical Information Exchange - Aerodrome mapping service	0%	Ongoing						*									
INF10.8	Aeronautical Information Exchange - Aeronautical Information Features service	8%	Ongoing						*									
INF10.9	Meteorological Information Exchange - Volcanic Ash Mass Concentration information service	3%	Ongoing						*									
ITY-ACID	Aircraft Identification	92%	Ongoing															
ITY-AGDL	Initial ATC Air-Ground Data Link Services	100%	Completed															
ITY-AGVCS2	8,33 kHz Air-Ground Voice Channel Spacing below FL195	100%	Completed															
ITY-COTR	Implementation of ground-ground automated co-ordination processes	100%	Completed															
ITY-FMTP	Common Flight Message Transfer Protocol (FMTP)	100%	Completed															
NAV03.1(EETN)	RNAV 1 in TMA Operations	97%	Ongoing															2030
NAV03.2(EETN)	RNP 1 in TMA Operations	0%	Not Applicable															2030
NAV10(EETN)	RNP Approach Procedures to instrument RWY	100%	Completed			*												
NAV11.1	Implement precision approach procedures using GBAS CAT II based on GAST C	0%	Not Applicable															2030
NAV12	ATS IFR Routes for Rotorcraft Operations	0%	Not Applicable															2030

Main Objectives	Торіс	Progress at the end of 2023	Status	20	23	20	24	202	.5	20	26	20	27	20	28	20	29	>2029
SAF10.1	Implement measures to reduce the risk to aircraft operations caused by airspace infringements	30%	Ongoing															2030
SAF11.1	Improve Runway Safety by Preventing Runway Excursions	100%	Completed															2030

#### LEGEND:

*	Full Operational Capability (FOC) date
	The Planned Implementation Date as reported in the LSSIP DB for each objective

# **Traffic and Capacity**

# 1.3 National ATM Structure

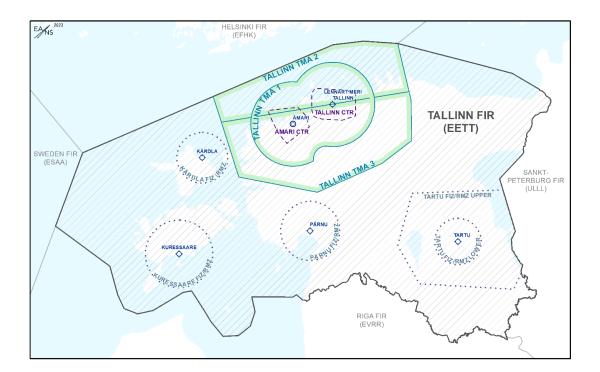
### Geographical description of the FIR(s)

The geographical scope of this document addresses the Estonia 'Tallinn Flight Information Region' FIR:

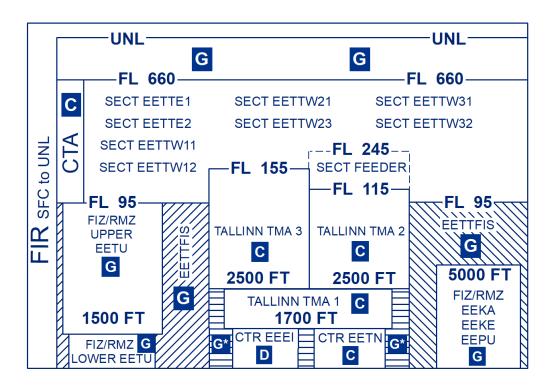
Tallinn FIR is surrounded by FIRs of 4 States, namely Helsinki FIR and Helsinki TMA in the north, St. Petersburg FIR in the east, Riga FIR/TMA in the south and Sweden FIR-s in the west.

St. Petersburg belongs to the Russian Federation, a non- ECAC State.

The Control Area (CTA) covers the geographical limits of the Tallinn FIR from FL 95 up to FL 660. Control Zones (CTR-s) are implemented around 2 airports, namely Tallinn and Ämari (Military). In addition, there are Kärdla, Kuressaare, Pärnu and Tartu FIZ.



#### Airspace Classification and Organisation



FIR: SFC - UNL

CTA: FL 95 - FL 660

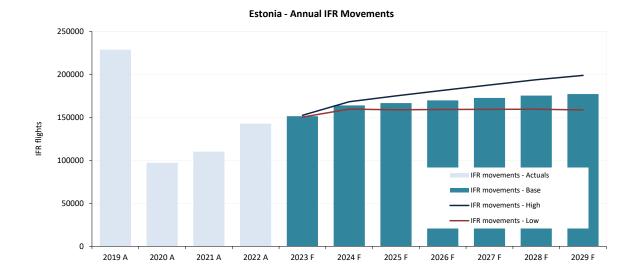
In accordance with national regulations, only the Imperial System is used in Estonia.

#### ATC Units

The ATC units in the Estonian airspace, which are of concern to this LSSIP, are the following:

ATC Unit	Number	of sectors	Associated FIR(s)	Remarks
	En-route	ТМА		
TALLINN ATCC	2+1	1	Tallinn CTA (Class C)	+ 1 Feeder sector suite operational regularly as from Nov 2005
Tallinn APP		1	Tallinn TMA	Collocated with Tallinn ACC

# Evolution of Traffic in Estonia



EUROCONTROL Forecast Update 2023-2029 - October 2023 2020 A 2021 A 2022 A 2023 F 2024 F 2025 F 2027 F 2028 F 2029 F IFR Movements (Growth) 6.8% 10.0% 4.0% 3.7% 3.4% 3.3% 2.6% High Estonia Base -58% 13% 30% 6.1% 8.3% 1.7% 1.9% 1.7% 1.6% 1.0% 6.2% -0.5% 0.1% -0.5% Low 5.4% 0.3% 0.0% 3.6% 2.1% High 10% 9.1% 3.4% 2.9% 2.7% ECAC -55% 25% 48% 10% 6.9% 1.7% 2.0% 1.7% 1.7% 1.0% Base Low 8.8% 5.9% -0.1% 0.5% 0.3% 0.4% -0.3%

#### 2023

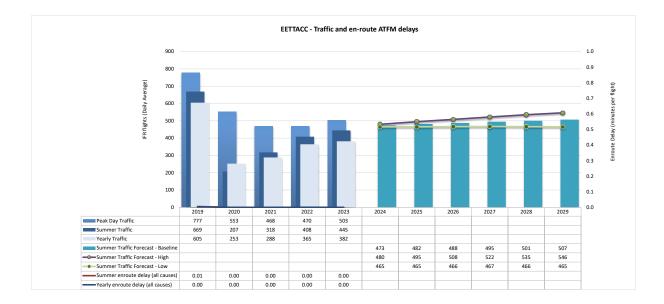
Traffic in Estonia increased by 5% compared to 2022 and recovery was at 65% of 2019.

#### 2024-2029

The EUROCONTROL Seven-Year forecast predicts an average annual increase between 0.9% and 4.5% during the planning cycle, with an average baseline growth of 2.7%.

# Tallinn ACC

## Traffic and en-route ATFM delays 2019-2029



# 2023 performance

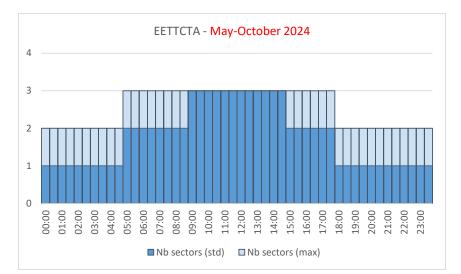
Tallinn	Traff	ic		En-route (min. pei			Capacity			
ACC	2023 vs.2022	% of 2019	All rea	sons	ACC Reference Value	Capacity Gap?	Baseline			
Year	+5%	63%	0.0	0	0.03	No				
Summer	+9%	66%	0.0	0			51			
Summer 2023 performance	e assessment		•							
The average delay per fligh	t was zero in Sum	mer 2023.								
Operational actions					Achieved	C	Comments			
Review and analysis of exis AREA)	ting FRA connecti	ng routes (FIN	IEST		Ongoing	Pending FINEST	state-level agreement			
FINEST: review and update	of necessary proc	cedures			Ongoing	Pending FINEST	state-level agreement			
Baltic three-state CIV-MIL n	neetings				Ongoing	All military exer are properly coo	cises in Baltic Sea region ordinated			
Possible modifications acco	ording to KPIs and	customer fee	dback		Ongoing					
Modernization of Tallinn TM	MA and CTR				Ongoing		ion planned for spring modernisation to be g spring 2024			
Dynamic sectorisation in Ta	Illinn FIR				Ongoing	Simulations are ongoing to find additional configurations for summe 2024, based on 2023 airblocks				
Harmonized ATC procedure	s between Finlan	d and Estonia			Ongoing	Pending FINEST state-level agreement				
FINEST: review and update	of necessary ATN	l procedures			Ongoing	Pending FINEST	state-level agreement			
VCS update 23 MAR 2023					Yes					
Maximum configuration: 3	EETT / 10 FINEST	*			T state-level agreement					

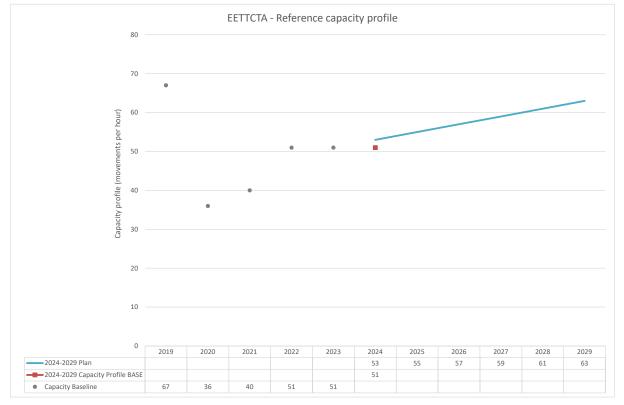
### Planning Period – Summer 2024-2029

The planning focuses on the summer season to reflect the most demanding period of the year from a capacity perspective. This approach ensures consistency with the previous planning cycles.

The measures for each year are the measures that will be implemented before the summer season.

		Summer	Capacity Plan			
	2024	2025	2026	2027	2028	2029
Free Route Airspace		Follo	w up of and possible m	odifications to support A	TFCM	
Airspace Management		F	INEST: review and updat	te of necessary procedure	es	
Advanced FUA			Baltic three-state	e CIV-MIL meetings		
		Possible	e modifications accordin	ng to KPIs and customer f	eedback	
Airport & TMA Network Integration	Modernization of Tallinn CTR	Modernization of Tallinn TMA				
Cooperative Traffic Management			FINEST	review and update as ne	ecessary	
			Comn	non FMP for Estonia and	Finland	
			Dynamic Cro	ss-border sectorisation E	stonia/Finland	
Airspace	Dynamic sectorisation in Tallinn FIR					
		FINES	T: review and update of	airspace as necessary af	ter the FINEST implemer	itation
Procedures			Harmonized ATC	C procedures between Fir	nland and Estonia	
Flocedules			FINEST: review	and update of necessary	ATM procedures	
Staffing			ATCO cross bord	er operations between Fi	nland and Estonia	
Technical	ATM system upgrade and interface with LARA (spring 2024)					
			One configurat	ion for FINEST managed I	oy common FMP	
Capacity		FINEST capacity based on CAPAN. Pending FINEST cross-border service with 1FDP				
				NEST capacity annual revi NEST cross-border servic		1
Significant Events						
Max sectors	4 EETT	4 EETT 10 FINEST*	4 EETT 10 FINEST*	4 EETT 10 FINEST*	4 EETT 10 FINEST*	4 EETT 10 FINEST*
Planned Annual Capacity Increase	3%	3%	3%	3%	3%	3%
Capacity Profile - Base Annual % Increase	0%					
Capacity Plan v. Profile - Base	4%					
Annual Reference Value (min)	0.02					
Additional information	* Pending FINEST cros	s-border service with 1F	DP			





#### 2024-2029 Outlook

No capacity issues are foreseen for Tallinn ACC for the period 2024-2029.

# 2 National ATM Environment

## Main National Stakeholders

## Civil Regulator(s)

#### **General Information**

Civil Aviation in Estonia is the responsibility of the Ministry of Climate. The different national entities having regulatory responsibilities in ATM are summarised in the table below. The Estonian Transport Administration is further detailed in the following sections.

Activity in ATM:	Organisation responsible	Legal Basis
Rulemaking	Ministry of Climate	Rulemaking: Ministry of Climate. Statutes of Ministry of Climate (Regulation of Government of the Republic of Estonia No 71 of 29. June 2023)
Safety Oversight	The Estonian Transport Administration (Estonian NSA) (From 01.01.2021)	Safety Oversight: Estonian Transport Administration Aviation Act Statutes of Estonian Transport Administration (Regulation of the Minister of Economic Affairs and Infrastructure No 82 of 03. December 2020)
Enforcement actions in case of non-compliance with safety regulatory requirements	Estonian NSA	Aviation Act Statutes of Estonian Transport Administration (Regulation of the Minister of Economic Affairs and Infrastructure No 82 of 03. December 2020)
Airspace	Estonian NSA	Aviation Act Statutes of Estonian Transport Administration (Regulation of the Minister of Economic Affairs and Infrastructure No 82 of 03. December 2020)
Economic	MoEA&C	Statutes of Ministry of Climate (Regulation of Government of the Republic of Estonia No 71 of 29. June 2023)
Environment	Ministry of Environment	Statutes of Climate (Regulation of Government of the Republic of Estonia No 71 of 29. June 2023)
Security	Estonian NSA	Aviation Act Statutes of Estonian Transport Administration (Regulation of the Minister of Economic Affairs and Infrastructure No 82 of 03. December 2020)
Accident investigation	Estonian Safety Investigation Bureau (ESIB)	Aviation Act Statues of Ministry of Economic Affairs and

	Communication
	(Regulation of Government of the Republic of Estonia No 323 of 10. December 2002)

#### **Estonian Transport Administration**

The Estonian Transport Administration (Estonian NSA) is in the jurisdiction of the Ministry of Climate, and it is the Estonian Safety Supervisory Authority, responsible for exercising state supervision over the compliance with the requirements deriving from legal acts regulating the field of activity of Estonian NSA. It has enforcement powers, and it is the extra-judicial body, which conducts proceedings in matters of misdemeanours. Estonian NSA participates in the drafting of legal acts concerning its area of activities, makes proposals on the amendments of those legal acts, such as the improvement of Estonian-language aviation terminology, participates in the development of policies, strategies, development plans, prepares and implements projects in its area of activities, including international projects. The Estonian NSA is institutionally separated from the Estonian Service Providers.

Annual Report published:	Y	Annual Safety report of 2023 has been published here.
National Civil Aviation Master Plan (CAMP):	Ν	<ul> <li>National CAMP is referenced in ICAO resolutions below:</li> <li>A39-23: No Country Left Behind (NCLB) Initiative (Draws the attention of Contracting States requesting technical cooperation and technical assistance to the advantages to be derived from well-defined projects based on civil aviation master plans)</li> <li>A39-25: Aviation's contribution towards the United Nations 2030 Agenda for Sustainable Development (Urges Member States to enhance their air transport systems by effectively implementing SARPs and policies while at the same time including and elevating the priority of the aviation sector into their national development plans, thereby leading to the attainment of the SDGs)</li> <li>A39-26: Resource Mobilization (Requests the Secretary General to develop guidance material to assist States in including and elevating the priority of the aviation master plans and civil aviation sector into their national development plans and developing robust air transport sector strategic plans and civil aviation sector into their national develop guidance material to assist States in including and elevating the priority of the aviation master plans, thereby leading to the attainment of the SDGs)</li> </ul>

The Estonian Transport Administration website is: <u>https://transpordiamet.ee/en</u>

The organization chart is available in Annex D.

#### **Estonian Air Navigation Services - EANS**

#### Service provided

In accordance with international standards the controlled airspace is divided into 3 air traffic control units to fulfil different tasks: Tower Control Unit, Approach Control Unit and Area Control Centre. In addition to these services the ATS units also provide alerting service and flight information service.

The services of EANS are:

- Provision of Air Traffic Service;
- Publication, exchange and dissemination of Aeronautical Information Aeronautical Information Services;
- Technology: ATM Systems, Navigation, Radio Communication, Surveillance;
- Consultancy Services and expertise in the field of aviation;
- Development activities.

	EANS							
Governance:	MoEA	&C Ownership: 100% State (MoEA&C)						
Services provided	Y/N	Comment						
ATC en-route	Y							
ATC approach	Y							
ATC Aerodrome(s)	Y	Tallinn		CTR.				
AIS	Y							
CNS	Y							
MET	N	Estonian Environment Agen	<u>icy</u>					
ATCO training	Y	EANS provides OJT and com	plementary training	g.				
Others				AD. There is a plan to start provision of s by using Remote TWR (rAFIS) concept.				
Additional information:	-							
Provision of services in other State(s):	N							
Annual Report published:	Y	This is the annual report	covering yearly act	ivities of the ANSP.				

Further information is available on the EANS website: http://www.eans.ee/en

The organisation chart is available in Annex D.

#### ATC systems in use

Main ANSP part of any technology alliance <sup>1</sup>	Y FINEST
DPS	
Specify the manufacturer of the ATC system currently in use:	Thales
Upgrade <sup>2</sup> of the ATC system is performed or planned?	Software and hardware upgrade planned 2024
Replacement of the ATC system by the new one is planned?	Not planned
ATC Unit	ACC/APP

#### SDPS

Specify the manufacturer of the ATC system currently in use:	Thales
Upgrade of the ATC system is performed or planned?	Software and hardware upgrade planned 2024
Replacement of the ATC system by the new one is planned?	Not planned
ATC Unit	ACC/APP

#### Airports

#### **General information**

The main airports of Estonia: Tallinn, Tartu, Kuressaare, Kärdla, Pärnu airports, and Kihnu, Ruhnu airfields are operated by AS Tallinna Lennujaam. It is a 100% State owned stock company under the supervision of the Ministry of Climate.

#### Airport(s) covered by the LSSIP

Referring to the List of Airports in the European ATM Master Plan Level 3 Implementation Plan Edition 2023– Annex 2, it is up to the individual State to decide which additional airports will be reported through LSSIP for those Objectives. The airport that is covered in this LSSIP is Tallinn Airport (non CP1).

https://airport.ee/en/corporate/lennart-meri-tallinn-airport-estonias-aerial-gateway/

The EUROCONTROL Public Airport Corner also provides information for Tallinn Airport: <a href="https://ext.eurocontrol.int/airport\_corner\_public/">https://ext.eurocontrol.int/airport\_corner\_public/</a>

The organisation chart is available in Annex D.

<sup>&</sup>lt;sup>1</sup> Technology alliance is an alliance with another service provider for joint procurement of technology from a particular supplier (e.g., COOPANS alliance)

<sup>&</sup>lt;sup>2</sup> Upgrade is defined as any modification that changes the operational characteristics of the system (SES Framework Regulation 549/2004, Article 2 (40))

### **Meteorological Service Providers**

#### **Estonian Environment Agency**

Estonian Environment Agency, which is responsible for all activities carried out by national civil meteorological and hydrological service. The Estonian Environment Agency is responsible for provision of meteorological service (forecasting and weather warning services) for international and domestic aviation within Tallinn Flight Information Region (FIR), except EEEI AD CTR (MIL). The Weather Forecasting Department is a part of the Estonian Environment Agency (ESTEA).

Estonian Environment Agency's objective is contribution towards the safety, regularity and efficiency of international air navigation by supplying the operators, flight crew members, air traffic service units, search and rescue services units, airport managements and other customers concerned with the conduct or development of international air navigation with the meteorological information.

The contacts of the Estonian Environment Agency and the Weather Forecasting Department can be found at <u>https://keskkonnaagentuur.ee/en</u>.

#### Service provided

Estonian Environment Agency provides 24/7 forecasting and weather warning service to Kuressaare, Kärdla, Pärnu, Tallinn, Tartu aerodromes and within Tallinn FIR. Additionally, they provide weather observation service for Estonian Civil Airports.

The organisation chart is available in Annex D.

### **Military Authorities**

The Military Authorities in Estonia concerned with ATM are:

- Ministry of Defence;
- Estonian Military Aviation Authority;
- Defence Forces Air Force Staff;
- Ämari Airbase.

They report to the Ministry of Defence.

Their regulatory, service provision and user role in ATM are detailed below.

Estonian Military Aviation Authority is responsible for setting, monitoring and enforcing safety standards through military aviation regulations.

Estonian Defence Forces Air Force Staff is responsible for the safety, monitoring of military aviation tasks and participation in decision making progress concerning airspace management.

Ämari Airbase is responsible for air navigation service at Ämari military airfield and within Ämari control zone.

Co-ordination between civil air navigation service providers and the military authorities is ensured through Letters of Agreements (LoAs).

Further information is available on the Estonian Defence Forces website: <u>https://mil.ee/en</u>.

The organisation chart is available in Annex D.

## **Regulatory role**

## Regulatory framework and rulemaking

ΟΑΤ		GAT			
OAT and provision of service for OAT governed by national legal provisions?	Y	Provision of service for GAT by the Military governed by national legal provisions?	Y		
Level of such legal provision: Ministry of Defence	Level of such legal provision: Ministry of Defence, Estonian NSA				
Authority signing such legal provision: Minister of Defe	ence	Authority signing such legal provision: Ministry of Defe	ence		
These provisions cover:		These provisions cover:			
Rules of the Air for OAT	Y				
Organisation of military ATS for OAT	Y	Organisation of military ATS for GAT	Y		
OAT/GAT Co-ordination	Y	OAT/GAT Co-ordination	Y		
ATCO Training	Y	ATCO Training	Y		
ATCO Licensing	Y	ATCO Licensing	Y		
ANSP Certification	NA	ANSP Certification	Y		
ANSP Supervision	NA	ANSP Supervision	Y		
Aircrew Training	Y	ESARR applicability	NA		
Aircrew Licensing	Y				
Additional Information: -		Additional Information: -			
Means used to inform airspace users (other than milita about these provisions:	ry)	Means used to inform airspace users (other than milita about these provisions:	ry)		
National AIP	NA	National AIP	Y		
National Military AIP	NA	National Military AIP	NA		
EUROCONTROL eAIP	NA	EUROCONTROL eAIP	NA		
Other:	Y	Other:	-		

## Oversight

OAT	GAT
NSA (as per SES reg. 550/2004) for GAT services provided by the military is CAA. NSA for OAT is MoD	NSA (as per SES reg. 550/2004) for GAT services provided by the military is Estonian Transport Administration.
Additional information: -	Estonian Transport Administration is responsible for the certification for GAT.

#### **Service Provision role**

		OAT	GAT	
Services Provided:			Services Provided:	
En-Route	Ν	En-Route Military fly GAT, the service is provided by EANS	En-Route	Ν
Approach/TMA	Ν	EANS	Approach/TMA	Ν
Airfield/TWR/GND	Y		Airfield/TWR/GND	Y
AIS	Y		AIS	Ν
MET	Y		MET	Y
SAR	Y		SAR	Y
TSA/TRA monitoring	Y		FIS	Y
Oth	ner:	-	Other:	-
Additional Information:			Additional Information:	

Military ANSP providing GAT services SES certified?	Y	If YES, since:	01.05.2017	Duration o Certificate:	f the	NIL		
Certificate issued by:	Estonian Administr	Transport ration	If NO, is this fac with SES regula	•	EC in acc	ordance	NA	
Additional Information: Military provides service to GAT in Ämari CTR.								

### User role

IFR inside controlled airspace, Military aircraft can fly?	OAT only	N	GAT only	Ν	Both OAT and GAT	Y
--	----------	---	----------	---	------------------	---

If Military fly OAT-IFR inside controlled airspace, specify the available options:					
Free Routing	Y	Within specific corridors only	Ν		
Within the regular (GAT) national route network	Y	Under radar control	Y		
Within a special OAT route system	Ν	Under radar advisory service	Ν		

If Military fly GAT-IFR inside controlled airspace, specify existing special arrangements:						
No special arrangements Y Exemption from Route Charges					Ν	
Exemption from flow and capacity (ATFCM) measures			Ν	Provision of ATC in UHF		Ν
CNS exemptions: RVSM N 8.33 N			Mode S	N	ACAS	N
Others: Provision of ATC in UHF available only by Ämari TW						WR.

#### Flexible Use of Airspace (FUA)

Military in Estonia applies FUA requirements as specified in the Regulation No 2150/2005: Y

FUA Level 1 implemented: Y

FUA Level 2 implemented: Y

FUA Level 3 implemented: Y

# 3 Implementation Projects

The tables below present high-level information about the main projects currently ongoing in Estonia. The details of each project are available in the LSSIP DB.

## 3.1 National projects

Name of project:	Organisation(s):	Schedule:	Progress Description:	Links:
Implementation of UTM software	EANS (EE), Estonian Transport Administration (EE), Frequentis AG	Tallinn CTR started in 2023, services at Tartu and other regional airports will be added in the following years. UTM services for authority users (emergency services, police etc) are	Additional services are added to the UTM system in 2024 March, together with mobile applications for pilots. Project to provide UTM services in Tartu airport begins in II quarter of 2024 with implementation planned for late 2024. Preparations for getting data from national drone registry started in 2023 and will continue throughout 2024. Discussions and workshops to design UTM services for authority users started in early 2024.	-
Navigation Infrastructure Rationalisation	EANS (EE), Estonian Transport Administration (EE	2024 IQ	Implementation and activities are ongoing, project is planned to be implemented by the first quarter of 2024.	L3: NAV03.1
Tallinn Airport A-CDM implementation project	EANS (EE), TALLINN AIRPORT Ltd. (EE)		Delayed. Due to Covid-19 economic crisis, resources are minimized.	L3: AOP05

Name of project:	Organisation(s):	Schedule:	Progress Description:	Links:
rTWR Implementation	· ·	and Kuressaare aerodrome should be operational in IIQ 2024.	Two airports' (Kuressaare and Tartu) remote tower installations are ready, governing body Estonian Transportation Administration has issued aeronautical equipment certificate separately for both installations. Service validation activities for Kuressaare aerodrome's remote tower are starting in November 2023. Kuressaare remote tower is expected to be operational in IIQ 2024.	-

# 3.2 FAB projects

NIL

## 3.3 Multinational projects

Name of project:	Organisation(s):	Schedule:	Progress Description:	Links:
Borealis FRA Implementation (Part 2) (2015_227_AF3_A; 2015_227_AF3_B)	AVINOR AS (NO), AirNav Ireland-ATS Provider (IE), EANS (EE), Fintraffic ANS (FI), LFV (SE), LGS (LV), NATS (UK), Naviair (DK)		Work in progress	L3: AOM21.2
CONCERTO Solution 2	Borealis Alliance, DLR, EANS (EE), EUROCONTROL, IcelandAir, Thales		Project started 2023. Implementation planned 2023-2026	-
EANS Support to ACADIA (2022_014_AF5)	EANS (EE), EUROCONTROL		Implementation plan established and subtask 2 achieved.	L3: INF10.7, INF10.6, INF10.8

# 4 Cooperation Activities

## 4.1 FAB Coordination

#### NEFAB

The main objectives of ANSPs cooperation in the framework of NEFAB are coordination of efforts, sharing of resources and synergy.

This cooperation includes:

- Coordinated cooperation with States to support NEFAB Committees and Council;
- Analysis and monitoring of SES requirements, coordinating with EU initiatives;
- Common representation of the NEFAB ANSPs at the NMB;
- Cooperation and information sharing between NEFAB ANSPs on CANSO and NM working groups activities;
- Coordinated contribution to NDOP, NDTECH and development of network services.

## 4.2 Multinational Cooperation Initiatives

#### **Borealis FRA**

The Borealis Alliance is the industrial partnership between 9 European ANSPs - LFV (Sweden), ANS Finland (Finland), Avinor (Norway), Isavia ANS (Iceland), Naviair (Denmark), EANS (Estonia), IAA (Ireland), LGS (Latvia) and NATS (UK). The objective of the Alliance is to enable joint initiatives to improve flight efficiency and reduce environmental impact, delivered across the whole area in a move which will also streamline cost of services and operational/technical infrastructure.

Alliance continues to work on Free Route Airspace (FRA) Programme execution to create a multi-FAB FRA by establishing interfaces between FRA areas in 3 FABs and Iceland. FRA implementation is still on-going in UK and is expected to complete in 2028.

Meanwhile, the IAA expanded Free Route Airspace (FRA) in 2017 to include Low Level airspace from FL075. In 2019 the Borealis Alliance commenced cross-border FRA between the Maastricht UAC area of responsibility, the DK/SE FAB and the northern part of Germany; and remains open to considering other cross-border proposals should they arise.

Successful FRA implementation in NEFRA airspace enabled the removal of ATS routes in Estonia and Finland. Some other States also consider removal of ATS routes.

#### FINEST

FINEST is a bilateral cooperation programme between Estonia EANS and Fintraffic ANS intended to respond to the demands of increased air traffic and Single European Sky requirements.

The objective of FINEST is to achieve optimal performance in the areas of service provision, cost-efficiency, capacity, flight efficiency, continuity and safety. This has been expected to be achieved by providing dynamic cross-border service with common technical system infrastructure from two locations.

The project was kicked off in 2018 and since then, both EANS and Fintraffic ANS have been working together, involving also other parties in both countries, to both legally and technically make the service provision in the shared airspace happen. FINEST is planned to be launched in phases. ANSP-s have harmonized the ATM System parameters in 2020, have installed the upgraded version of ATM System TopSky on both sides in spring 2021. At the beginning of 2022 EANS finalized airspace changes which is the enabler for the cross border FINEST project and harmonized operational procedures.

Due to geopolitical situation the approval for the project from MoDs have been delayed as additional concerns were raised. Throughout the year 2023 the dialogue with owners and MoDs were kept open to define the way for approval in the changed geopolitical situation. The cross-border service provision shall be initiated after the final approval from both Sates.

# 5 Detailed Objectives Implementation progress

Objective/Stakeholder Progress Code:				
Completed	Not yet planned			
Ongoing	Not Applicable			
Planned	Missing Data			

In 2023, there was a greater focus on meeting the requirements of CP1, and several activities were completed. Yet some projects have got a delay, and some have been postponed (Due to luck of human resource and budget-related issues).

## Main Objectives

AOM13.1	Harmonise Operational Air Traffic (OAT) and General AirTraffic (GAT) Handling <u>Timescales:</u> Initialoperationalcapability:01/01/2012Full operational capability:31/12/2018	56	Ongoing
Activity should	d be completed by the end 2024.		31/12/2024
REG (By:12/20			
Estonian Air Fo	prce (MIL)	40%	Ongoing
	onal military aviation regulations are in force. Review of IFR ation procedures is postponed to 2024.	-	31/12/2024
	sport Administration	40%	Ongoing
-	late status. The activity was not completed in 2023 due to f HUM resources.	-	31/12/2024
ASP (By:12/20	18)		
EANS		100%	Completed
Objective activ	vities completed by EANS.	-	28/02/2022
Estonian Air Fo	prce (MIL)	100%	Completed
Estonian natio	nal military aviation regulations are in force. TRG is done.	-	31/12/2021
MIL (By:12/20	18)		
Estonian Air Fo	prce (MIL)	20%	Ongoing
a flexible syste	Il connect national route structures and arrangements to form em facilitating OAT-IFR cross-border flights across Europe and armonized military flight planning for OAT cross-border	-	31/12/2024
SDP 3.1.2 AOM19.4	Management of Predefined Airspace Configurations <u>Timescales:</u> Initialoperationalcapability:01/01/2018Full Operational Capability / Target Date:31/12/2022	100	Completed
Objective com	-		27/01/2022
ASP (By:12/20	22)		
EANS		100%	Completed

Working Level Agreed

	Manage	ment of Predefined	d Airspace Config	urations		
SDP 3.1.2	<u>Timescal</u>	les:			100	Completed
AOM19.4	Initial	operational	capability:	01/01/2018	100	Completed
	Full Oper	rational Capability /	/ Target Date: 31,	/12/2022		
Objective completed.		-	27/01/2022			

SDP 3.1.1 AOM19.5	ASM and A-FUA <u>Timescales:</u> Initial Operational Capability: 01/01/2014 Full Operational Capability / Target Date: 31/12/2022	100	Completed
FINEST w Nonetheless, a is already com ATC system	of the objective is "late", since project relates to the ras postponed from the co-operational according to the last feedback received from SDM AF3 Experts apliant even if using a local ASM and not having any automat at the moment, but manually triggering reserved areas and exchange shall be there for AF5 target date (31.12.2025).	State side. (27 Feb 2023): EANS ted connection with	31/12/2021
ASP (By:12/202	22)	100%	
EANS	and common ACM system with EINEST CROSS RDRV convice	100%	Completed
but project po implemented. Nonetheless, a (27 Feb 2023):	ned common ASM system with FINEST CROSS BDRY service, ostponed. Fully completed when LARA-Topsky interface is according to the last feedback received from SDM AF3 Experts EANS is already compliant even if using a local ASM and not tomated connection with ATC system at the moment, but	-	31/12/2021

SDP 3.2.1 AOM21.2	Initial Free Route AirspaceTimescales:Initialoperationalcapability:01/01/2015Full Operational Capability / Target Date:31/12/2022	100	Completed
	-	2045	42/44/2045
ASP (By:12/20)	rspace was implemented within NEFAB area on 12 November	2015.	12/11/2015
EANS	,	100%	Completed
NEFAB Free Ro	oute Airspace was implemented on 12 November 2015.	Borealis FRA Implementation (Part 2)	12/11/2015
SDP 3.2.2 AOM21.3	Enhanced Free Route Airspace OperationsTimescales:InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	100	Completed
Completed.	-		23/04/2020
ASP (By:12/20)	25)		25, 04, 2020

EANS

Completed

100%

SDP 3.2.2 AOM21.3	Enhanced Free Route Airspace Operations <u>Timescales:</u> InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	100	Completed
operations - The TMAs w Helsinki - - Flight Le - Published Co procedures,	ouring countries with which they have cross-border FRA (being) implemented: Latvia, Finland, Sweden. with which FRA connectivity to TMAs (being) implemented: TMA ja Tallinn TMA. Time limitations: NIL evel: FL095+ excl Tallinn TMA ja Helsinki TMA onstraints: restrictions Estonian AIP ENR3.3, ENR1 FRA General ENR 3.5, ENR4.4 (FRA relevance). onsibility: Tallinn FIR, NEFRA	-	23/04/2020

AOP04.1	Advanced Surface Movement Guidance and Control SystemA-SMGCS Surveillance Service (former ICAO Level 1) <u>Timescales:</u> Initialoperationalcapability:01/01/2007Full operational capability:31/12/2020	100	Completed
	EETN - Tallinn Airport		
A-SMGCS Lev	el 1 system is implemented on 10 February 2011.		31/12/2013
REG (By:12/20	10)		
Estonian Trans	port Administration	100%	Completed
Transponder o	perating procedures are published in the AIP.	-	31/12/2013
ASP (By:01/20	21)		
EANS		100%	Completed
A-SMGCS syst 2011.	em on the Tallinn airport is implemented on February, 10	-	28/02/2011
APO (By:01/20	21)		
TALLINN AIRPO	DRT Ltd.	100%	Completed
A-SMGCS syste	em on the Tallinn airport is implemented on February 10 2011.	-	28/02/2011

AOP04.2	Advanced Surface Movement Guidance and Control System(A-SMGCS)RunwayMonitoringandConflictAlerting(RMCA)(Airport Safety Support Service = former ICAO Level2)Timescales:Initialoperationalcapability:01/01/2021Full operationalcapability:31/12/2025	100	Completed
	EETN - Tallinn Airport		
A-SMGCS Leve	el II system at Tallinn Airport is implemented on 10 February 2	011.	28/02/2011
ASP (By:12/20	25)		
EANS		100%	Completed
A-SMGCS Lev February 2011	el II system at the Tallinn airport is implemented on 10	-	28/02/2011
APO (By:12/20	25)		
TALLINN AIRPO	ORT Ltd.	100%	Completed
A-SMGCS Leve 2011.	el II system at Tallinn Airport is implemented on 10 February	-	28/02/2011

AOP05	<u>Timescal</u> Initial	ollaborative Decis es: operational ational capability: 3	capability:	<b>DM)</b> 01/01/2004	1	Ongoing
EETN - Tallinn Airport						

AOP05	Airport Collaborative Decision Making (A-CDM)Timescales:Initialoperationalcapability:01/01/2004Full operational capability:31/12/2020	1	Ongoing
	inn airport postponed the implementation of A-CDM at Tallinn lemented in the frame of project Airport 4.0.	aerodrome. A-CDM	31/12/2030
ASP (By:01/202	21)		
EANS		0%	Not yet planned
	mentation of A-CDM is currently not planned, and a more sis is planned in 2025.	Tallinn Airport A- CDM implementation project	-
APO (By:01/20	21)		
TALLINN AIRPO	DRT Ltd.	2%	Ongoing
The full imple analysis is plar	mentation of A-CDM is currently not planned. More detailed ned in 2025.	Tallinn Airport A- CDM implementation project	31/12/2030
	Time Deced Concretion		

AOP10	Time-Based Separation <u>Timescales:</u> - not applicable -	0	Not Applicable
	EETN - Tallinn Airport		
No operationa	al need to implement TBS in EETN		-
REG (By:01/20	24)		
Estonian Transport Administration 0%		0%	Not Applicable
No operational need to implement TBS in EETN -			-
ASP (By:12/20	24)		
EANS		0%	Not Applicable
No operationa	l need to implement TBS in EETN	-	-

SDP 2.2.1 AOP11.1	Initial Airport Operations Plan <u>Timescales:</u> - not applicable -	0	Not Applicable		
	EETN - Tallinn Airport				
N/A for EETN AD, according to bilateral meeting Bilateral meeting NEFAB					
ASP (By:12/202	23)				
EANS 0%		Not Applicable			
N/A.		-	-		
APO (By:12/2023)					

SDP 2.2.2 AOP11.2	Extended Airport Operations Plan <u>Timescales:</u> - not applicable -	0	Not Applicable		
	EETN - Tallinn Airport				
Outside of applicability area, EETN is non-CP1 Airport.					
ASP (By:12/202	27)				
EANS 0%		Not Applicable			
Outside of applicability area		-			
APO (By:12/2027)					

SDP 2.2.2 AOP11.2	Extended Airport Operations Plan <u>Timescales:</u> - not applicable -	0	Not Applicable
TALLINN AIRPORT Ltd.		0%	Not Applicable
EETN is non-Cl	P1 Airport.	-	-

SDP 2.3.1 AOP12.1	Airport Safety Nets <u>Timescales:</u> - not applicable -	0	Not Applicable		
	EETN - Tallinn Airport				
	N/A for EETN AD, according to bilateral meeting and MPL3 Plan 2022_Technical Annex_v1.1_ANNEX 3 – APPLICABILITY TO AIRPORTS				
ASP (By:12/202	25)				
EANS		0%	Not Applicable		
N/A.		-	-		
APO (By:12/20	25)				

AOP13	Automated Assistance to Controller for Surface Movement Planning and Routing <u>Timescales:</u> - not applicable -	0	Not Applicable		
	EETN - Tallinn Airport				
No operationa	al need in EETN		-		
REG (By:12/20	25)				
Estonian Transport Administration		0%	Not Applicable		
No operational need in EETN -		-	-		
ASP (By:12/202	ASP (By:12/2025)				
EANS		0%	Not Applicable		
No operationa	l need in EETN	-	-		

SDP 2.1.1 AOP19	Departure Management Synchronised with Pre-departure sequencing <u>Timescales:</u> - not applicable -	0	Not Applicable		
EETN - Tallinn Airport					
EETN is non-CP1 Airport -					
ASP (By:12/20	22)				
EANS		0%	Not Applicable		
Outside of applicability area		-			
APO (By:12/2022)					

ATC02.8	Ground-Based Safety NetsTimescales:Initialoperationalcapability:01/01/2009Full operational capability:31/12/2021	100	Completed
- System is ready for use, but no demand, thereof ATC TRG NA also. Planned activation date is unknown.			
ASP (By:12/20	21)		
EANS		100%	Completed

ATC02.8	Ground-Based Safety NetsTimescales:Initialoperationalcapability:01/01/2009Full operational capability:31/12/2021	100	Completed
due to no oper	M functions are technically available in ATM system, however, rational demand and low ground structure, there is no need to V and APM functions. APW function is implemented.	-	31/12/2022

ATC07.1	AMAN Tools and Procedures <u>Timescales:</u> - not applicable -	0	Not Applicable	
	EETN - Tallinn Airport			
There is no operational need for basic AMAN. No forecast indicating the need. However, EANS is using AMAN for Helsinki inbound traffic and affected by ESSA extended AMAN plans.				
ASP (By:01/2020)				
EANS		0%	Not Applicable	
need. Howeve	perational need for basic AMAN. No forecast indicating the r, we are using AMAN for Helsinki inbound traffic and affected ded AMAN plans.	-	-	

ATC12.1	Automated Support for Conflict Detection, ResolutionSupport Information and Conformance MonitoringTimescales:Initialoperationalcapability:01/01/2015Full operational capability:31/12/2021	100	Completed	
MTCD, resolu implement TC	tion support function and MONA are available since 2012. I T.	No definite plans to	31/05/2012	
ASP (By:12/2021)				
EANS		100%	Completed	

ATC15.1 Timescales: Initial operational capability: 01/01/2012 Full operational capability: 31/12/2019		Informat	ion Exchange with	En-route in Supp	port of AMAN			
	АТС	215.1	Initial	operational	· · · · ·	01/01/2012	100	Completed

In En-Route operations, information exchange mechanisms, tools an implemented.	nd procedures are	31/01/2017
ASP (By:12/2019)		
EANS	100%	Completed
In En-Route operations, information exchange mechanisms, tools and procedures are implemented.	-	31/01/2017

SDP 1.1.1 ATC15.2	Arrival Management Extended to En-route Airspace <u>Timescales:</u> - not applicable -	0	Not Applicable		
	EETN - Tallinn Airport				
N/A for EETN	AD, EETN AD is non-CP1.		-		
ASP (By:12/2024)					
EANS 0%		Not Applicable			
Tallinn Airport	is not listed in CP1 Geographical Scope.	-	-		

SDP 1.2.1 ATC19	AMAN/DMAN Integration <u>Timescales:</u> - not applicable -	0	Not Applicable	
	EETN - Tallinn Airport			
N/A for EETN	AD, Tallinn Airport is not listed in CP1 Geographical Scope.		-	
ASP (By:12/2027)				
EANS		0%	Not Applicable	
No planned activities. Tallinn Airport is not listed in CP1 Geographical Scope			-	
APO (By:12/2027)				
TALLINN AIRPO	DRT Ltd.	0%	Not Applicable	
Not planned, 1	allinn Airport is not listed in CP1 Geographical Scope.	-	-	

SDP 6.1.2 ATC23	Initial Air-Ground Trajectory Information Sharing (Ground Domain)Timescales:InitialOperationalCapability:01/01/2024Full Operational Capability / Target Date:31/12/2027	0	Not yet planned	
- The objective is not planned yet.			-	
ASP (By:12/2027)				
EANS 0%		Not yet planned		
The objective	is not planned yet.	-	-	

SDP 6.3.1 ATC25	Initial Trajectory Information Sharing ground distribution <u>Timescales:</u> InitialOperationalCapability:01/01/2024Full Operational Capability / Target Date:31/12/2027	0	Not yet planned	
Not yet planne		-		
ASP (By:12/2027)				
EANS		0%	Not yet planned	
Not yet plann ACDLS.	ed. Currently we are looking into the possibility to join the	-	-	

COM10.2	Extended AMHSTimescales:InitialOperationalCapability:01/12/2011Full Operational Capability:31/12/202401/12/2011	100	Completed
AMHS capabil ASP (By:12/202	- ty is available, tested, validated, but not in use yet. 24)		12/10/2021
EANS		100%	Completed

		compreted
Capability is available, tested, validated, but not in use. There is no need for		12/10/2021
enhanced capability.	-	12/10/2021

COM11.1	Voice over Internet Protocol (VoIP) in En-Route <u>Timescales:</u> Initial operational capability: Full operational capability: 31/12/2021	01/01/2013	100	Completed
The VCS proje ASP (By:12/20	- ct was completed by 23. March 2023.			23/03/2023

EANS	100%	Completed
The VCS project completed. The new MAIN VoIP VCS and B-up VCS are	_	23/03/2023
operational.	-	23/03/2023

COM11.2	Voice over Internet Protocol (VoIP) in Airport/TerminalTimescales:Initialoperationalcapability:01/01/2013Full operational capability:31/12/2023	100	Completed
	e completed, related to the development of the Aerodrome Flight Information Service is certified on 20.04.	remote tower. 2023.	20/04/2023
ASP (By:12/20	23)		
EANS		100%	Completed
Activities are o	ompleted, related to the development of remote tower.	-	20/04/2023

COM12	New Pan-European Network Service (NewPENS)Timescales:Initialoperationalcapability:01/01/2018Full operational capability:31/12/2024	100	Completed	
	-			
	signed. EANS migrated to NewPENS in July 2019. AD has anno e no plans to migrate into the NewPENS.	ounced on JAN 2021,	31/07/2019	
ASP (By:12/2024)				
EANS		100%	Completed	
EANS migrated	d to NewPENS in July 2019.	-	31/07/2019	
APO (By:12/2024)				
TALLINN AIRPO	DRT Ltd.	0%	Not Applicable	

		, (PP)
AD has no plans to migrate into the NewPENS.	-	

F	iitial operational ull operational capability	capability:	01/07/2007	100	Completed
	an operational capability	EETN - Tallinn	Airport		
CDO and P-RNAV procedures were implemented in Tallinn TMA 30 May 2013. Performance monitoring is done.				31/12/2023	
ASP (By:12/2023)					
EANS				100%	Completed
monitoring by	ed P-RNAV and CDO tech ANSP side is mance.eu/ and also in co	done via Euro	ocontrol site	-	31/12/2023
APO (By:12/2023	APO (By:12/2023)				
TALLINN AIRPOR	۲ Ltd.			100%	Completed
Monitoring of pe	rformance is established	, data received from	n EANS.	-	31/12/2017

FCM03	Collaborative Flight Planning <u>Timescales:</u> InitialoperationalFull operational capability:31/12/2022	01/01/2000	100	Completed
	-			

-

Functionality installed and available but problems so far at NM within automatically processing and firmly specifying the use of AFP-messages in the Free Route Airspace environment causes that full FoC implementation of collaborative flight planning. Though all functionality has been installed according to spec, the interoperability between Thales TopSky and NM system has not been achieved due to complicated FRA operations environment, not fully covered at NM.		
ASP (By:12/2022)		
EANS	100%	Completed
Functionality installed and available but problems so far at NM within automatically processing and firmly specifying the use of AFP-messages in the Free Route Airspace environment causes that full FoC implementation of collaborativeflightplanning.Though all functionality has been installed according to spec, the interoperability between Thales TopSky and NM system has not been achieved due to complicated FRA operations environment, not fully covered atNM.	-	01/01/2023

SDP 4.1.1 FCM04.2	Enhanced Short Term ATFCM MeasuresTimescales:Initialoperationalcapability:01/11/2017Full Operational Capability / Target Date:31/12/2022	100	Completed
- STAM is in operational use in accordance to NM CHMI and related training package. ASP (By:12/2022)			30/06/2023
EANS		100%	Completed
EANS is using completed.	NM STAM software tool, and all the needed trainings are	-	30/06/2023

SDP 4.3.1 FCM06.1	Automated Support for Traffic Complexity Assessment andFlight Planning interfacesTimescales:InitialOperationalCapability:01/01/2021Full Operational Capability / Target date:31/12/2022	100	Completed
- ANSP EANS relies to NM system support & development and is using CHMI and NMP Flow application. Processing of APL and ACL messages is completed.			
application. Processing of	APL and ACL messages is completed.	HMI and NMP Flow	31/12/2023
application.	APL and ACL messages is completed.	HMI and NMP Flow	31/12/2023
application. Processing of	APL and ACL messages is completed.	HMI and NMP Flow	31/12/2023 Completed

SDP 4.2.1 FCM10	Interactive Rolling NOP <u>Timescales:</u> InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2023	100	Completed	
Which brings	- Objective FCM10 does not apply to Tallinn Airport, therefore SLoA FCM10-APO01 is marked N/A. Which brings FCM10 to 'Completed'. 30/06/2023			
ASP (By:12/20	23)			
EANS		100%	Completed	
CHMI updates	and related trainings done.	-	30/06/2023	
APO (By:12/20	23)			

SDP 4.2.1 FCM10	Interactive Rolling NOP <u>Timescales:</u> Initial Operational Capability: 01/01/2021 Full Operational Capability / Target Date: 31/12/2023	100	Completed
TALLINN AIRPO	ORT Ltd.	0%	Not Applicable
According to not apply to Ta	NEFAB Bilateral meeting information, objective FCM10 does allinn Airport.	-	-
	which AOD (NOD to ferror them Charting		
SDP 4.2.2 FCM11.1	Initial AOP/NOP Information Sharing <u>Timescales:</u> - not applicable -	0	Not Applicable

EETN - Tallinn Airport			
EETN AD is non-CP1, N/A according to MPL3 Plan 2023 Technical Annex, Annex 3. Nevertheless A-CDM for EETN AD is still in plans, more detailed information is expected to come on 2025.			
ASP (By:12/2023)			
ASI (Dy.12/2023)			
EANS	0%	Not Applicable	
Outside applicability area.	-	-	
APO (By:12/2023)			

SDP 4.4.1 FCM11.2	AOP/NOP integration <u>Timescales:</u> - not applicable -	0	Not Applicable
	EETN - Tallinn Airport		
EETN AD is no	EETN AD is non-CP1 Airport, N/A according to MPL3 Plan 2023 Technical Annex 3		
ASP (By:12/202	27)		
EANS		0%	Not Applicable
Outside applic	Outside applicability area		-
APO (By:12/2027)			

INF07	Electronic Terrain and Obstacle Data (eTOD)Timescales:Initial operational capability:01/11/2014Full operational capability:31/12/2018	6	Ongoing	
Electronic TOE	) should be established by 31 December 2024.	esources in NSA.	31/12/2025	
REG (By:01/20)	19)			
Estonian Trans	port Administration	8%	Ongoing	
	ate status due to constant lack of human resources in NSA. I should be established by 31 December 2024.	-	31/12/2024	
ASP (By:01/202	ASP (By:01/2019)			
EANS		5%	Ongoing	
No progress compared to last year, EANS cannot continue any activity before Attional TOD Policy is available.		-	31/12/2025	
APO (By:01/20	APO (By:01/2019)			
TALLINN AIRPO	DRT Ltd.	5%	Ongoing	
All AO related available.	activities will be performed after National TOD Policy is	-	31/12/2025	

SDP 5.2.1 INF10.2	Stakeholders' SWIM PKI and cyber securityTimescales:InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	13	Ongoing
Process is slow			31/12/2025
ASP (By:12/20)			
EANS		8%	Ongoing
EANS will be u	sing the EACP solution.	-	31/12/2024
APO (By:12/20	25)		
TALLINN AIRPORT Ltd. 0%		0%	Not yet planned
AD has not yet decided, with what to go further and how. Discussions with other local Stakeholders are ongoing.		-	-
MET (By:12/20	)25)		
Estonian Environment Agency 18%		18%	Ongoing
NIL		-	31/12/2025
SDP 5.3.1 INF10.3	Aeronautical Information Exchange - Airspace structureservice <u>Timescales:</u> InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	100	Completed

LARA adapted/in use.		10/06/2020
ASP (By:12/2025)		
EANS	100%	Completed
LARA is used according to their installation.	-	10/06/2020

SDP 5.3.1 INF10.4	Aeronautical Information Exchange - Airspace AvailabilityServiceTimescales:InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	100	Completed
	-		

ANSP has ASM system LARA which provides the AUP/UUP to NM.		31/12/2022
ASP (By:12/2025)		
EANS	100%	Completed
EANS has ASM system LARA which provides the AUP/UUP to NM. EANS is		
participating in LARA user group and also following the activities of "ASM	-	31/12/2022
SWIM" project activities to ensure the compliance of LARA tool.		

SDP 5.3.1 INF10.5	Aeronautical Information Exchange -AirspaceReservation (ARES) <u>Timescales:</u> InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	3	Ongoing
LARA is in use. ARES info is visible to all LARA customers who have access to LARA. ANSP is waiting for release v5, when LARA will enable to implement the full scope of ARES exchanges via SWIM.		31/12/2024	
ASP (By:12/2025)			
EANS		3%	Ongoing

	ARES info is visible to all LARA customers who have access to		
	s are used according to their installation. Waiting for release A will enable to implement the full scope of ARES exchanges	-	31/12/2024
	Aeronautical Information Exchange – Digital NOTAM		
SDP 5.3.1	service		
INF10.6	Timescales:	64	Ongoing
	Initial Operational Capability: 01/01/2021 Full Operational Capability / Target Date: 31/12/2025		
planned to be	-	elopments, systems	31/12/2025
ASP (By:12/20	25)		
EANS		0%	Planned
started in 202	cipating in project ACADIA to ensure accordance. Activities 3 and objective is planned to be in operational use by 2025.	EANS Support to ACADIA	31/12/2025
AIS (By:12/202	5)	000/	
EANS	insting in ansight ACADIA to any up according a Astivities and	80%	Ongoing
ongoing in the	ipating in project ACADIA to ensure accordance. Activities are project plan.	EANS Support to ACADIA	31/12/2025
	Aeronautical Information Exchange - Aerodrome mapping		
	service		
SDP 5.3.1	Timescales:	0	Ongoing
INF10.7	Initial Operational Capability: 01/01/2021 Full Operational Capability / Target Date: 31/12/2025		
- · · · ·			
Outside Nevertheless in the scope.	of the area of ANSP is participating in the ACADIA project and aerodrome ma	applicability. pping service is also	
			31/12/2025
•			31/12/2025
AIS (By:12/202		10%	
AIS (By:12/202 EANS	25)	10%	Ongoing
AIS (By:12/202 EANS	25) ipating in the ACADIA project and aerodrome mapping service		
AIS (By:12/202 EANS EANS is partici	25) ipating in the ACADIA project and aerodrome mapping service	10% EANS Support to	Ongoing
AIS (By:12/202 EANS EANS is partici is also in the s	25) ipating in the ACADIA project and aerodrome mapping service cope.	10% EANS Support to	Ongoing
AIS (By:12/202 EANS EANS is partici	25) ipating in the ACADIA project and aerodrome mapping service cope. Aeronautical Information Exchange - Aeronautical Information Features service <u>Timescales:</u>	10% EANS Support to	Ongoing
AIS (By:12/202 EANS EANS is particl is also in the s SDP 5.3.1	25) ipating in the ACADIA project and aerodrome mapping service cope. Aeronautical Information Exchange - Aeronautical Information Features service	10% EANS Support to ACADIA	Ongoing 31/12/2025
AIS (By:12/202 EANS EANS is particities also in the s SDP 5.3.1 INF10.8	25) ipating in the ACADIA project and aerodrome mapping service cope. Aeronautical Information Exchange - Aeronautical Information Features service <u>Timescales:</u> Initial Operational Capability: 01/01/2021 Full Operational Capability / Target Date: 31/12/2025	10% EANS Support to ACADIA	Ongoing 31/12/2025 Ongoing
AIS (By:12/202 EANS EANS is particities also in the s SDP 5.3.1 INF10.8	25) ipating in the ACADIA project and aerodrome mapping service cope. Aeronautical Information Exchange - Aeronautical Information Features service <u>Timescales:</u> Initial Operational Capability: 01/01/2021 Full Operational Capability / Target Date: 31/12/2025 - part of ACADIA project.	10% EANS Support to ACADIA	Ongoing 31/12/2025
AIS (By:12/202 EANS EANS is partici is also in the s SDP 5.3.1 INF10.8 Activities are	25) ipating in the ACADIA project and aerodrome mapping service cope. Aeronautical Information Exchange - Aeronautical Information Features service <u>Timescales:</u> Initial Operational Capability: 01/01/2021 Full Operational Capability / Target Date: 31/12/2025 - part of ACADIA project.	10% EANS Support to ACADIA	Ongoing 31/12/2025 Ongoing
AIS (By:12/202 EANS EANS is particle is also in the s SDP 5.3.1 INF10.8 Activities are ASP (By:12/20) EANS	25) ipating in the ACADIA project and aerodrome mapping service cope. Aeronautical Information Exchange - Aeronautical Information Features service <u>Timescales:</u> Initial Operational Capability: 01/01/2021 Full Operational Capability / Target Date: 31/12/2025 - part of ACADIA project.	10% EANS Support to ACADIA 8	Ongoing 31/12/2025 Ongoing 31/12/2025
AIS (By:12/202 EANS EANS is particle is also in the s SDP 5.3.1 INF10.8 Activities are ASP (By:12/20) EANS	25) ipating in the ACADIA project and aerodrome mapping service cope. Aeronautical Information Exchange - Aeronautical Information Features service <u>Timescales:</u> Initial Operational Capability: 01/01/2021 Full Operational Capability / Target Date: 31/12/2025 - part of ACADIA project. 25)	10% EANS Support to ACADIA 8 8	Ongoing 31/12/2025 Ongoing 31/12/2025 31/12/2025
AIS (By:12/202 EANS EANS is particular is also in the s SDP 5.3.1 INF10.8 Activities are ASP (By:12/20) EANS Activities part	25) ipating in the ACADIA project and aerodrome mapping service cope. Aeronautical Information Exchange - Aeronautical Information Features service <u>Timescales:</u> Initial Operational Capability: 01/01/2021 Full Operational Capability / Target Date: 31/12/2025 - part of ACADIA project. 25)	10% EANS Support to ACADIA 8 8	Ongoing 31/12/2025 Ongoing 31/12/2025 31/12/2025

	Meteorological Information Exchange - Volcanic Ash Mass		
SDP 5.4.1 INF10.9	Concentration information service <u>Timescales:</u> Initial       Operational       Capability:       01/01/2021         Full Operational Capability / Target Date:       31/12/2025	3	Ongoing
Implementati	on should be via ANSP co-operation ready for 31.12.2025.		31/12/2025
ASP (By:12/20	25)		
EANS		0%	Planned
	ng system upgrades to consume SWIM MET services, depends	-	31/12/2025
on MET servic MET (By:12/20			- , ,
	onment Agency	3%	Ongoing
	ng system upgrades to provide SWIM MET services, potential	370	Oligoling
cooperation v Volcanic Ash N information w expects to be the UK MET	vith NamCon countries to be clarified during 2024. For the Mass Concentration Information Service, it is clarified that this vill be provided in SWIM format by the VAACs. The VAACs fully operational by 2024; ESTEA as MET Provider will contact Office and Meteo France in order to discuss the service lew of the future consumption of the information.	-	31/12/2025
SDP 5.4.1 INF10.10	MeteorologicalInformationExchange-AerodromeMeteorological information Service <u>Timescales:</u> InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	47	Ongoing
SWIM MET ANSP is s ASP (By:12/20	implementation should be ready serving AD and its users as demanded by IR (EU) 2017/373 usin 25)	on 2025. g TAC/IWXXM.	31/12/2025
EANS		0%	Planned
-	IET service provider.	-	31/12/2025
APO (By:12/20	25)		
TALLINN AIRPO		0%	Planned
	nnujaam (Tallinn Airport Ltd.) is not MET service provider, the vided by Environmental Agency (Keskkonnaagentuur) from	-	31/12/2024
MET (By:12/20	025)		
Estonian Envir	onment Agency	53%	Ongoing
MET ANSP is so TAC/IWXXM.	erving AD and its users as demanded by IR (EU) 2017/373 using	-	31/12/2025
SDP 5.4.1 INF10.11	Meteorological Information Exchange - En-Route and Approach Meteorological information serviceTimescales:InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	5	Ongoing
SWIM implem	entation should be ready in 2025.		31/12/2025
ASP (By:12/20	-		-, -, -, -, -, -, -, -, -, -, -, -, -, -
EANS		0%	Planned
	ng system upgrades to consume SWIM MET services.	-	31/12/2025
MET (By:12/20			
Estonian Envir	onment Agency	7%	Ongoing
	ning to provide services accordingly SWIM MET services.		

We are planning to provide services accordingly SWIM MET services, 31/12/2025 potential cooperation within NamCon countries for development.

SDP 5.4.1 INF10.12	MeteorologicalInformationExchange-NetworkMeteorological InformationTimescales:InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	0	Planned
	-		
MET services.	implementation should be ready in 2025. ATS ANSP is plannin	g to consume SWIN	31/12/2025
ASP (By:12/20	25)		
EANS		0%	Planned
	ng system upgrades to consume SWIM MET services.	-	31/12/2025
MET (By:12/20			01,11,1010
	onment Agency	0%	Not Applicable
ESTEA do not provide the se	contribute in EUMETNET CBCF, so we are not mandated to rvice.	-	-
SDP 5.5.1 INF10.13	CooperativeNetworkInformationExchange-ATFCMTactical UpdatesService (Airport Capacity and Enroute)Timescales:InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	0	Not Applicable
Not applicable ASP (By:12/20			- Not
EANS		0%	Applicable
Applies only if	local complexity tool is used. N/A for this monitoring cycle.	-	-
SDP 5.5.1 INF10.14	CooperativeNetworkInformationExchange– FlightManagement Service (Slots and NOP/AOP integration)Timescales:InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	0	Not Applicable
exempted	- nstructions, Estonia is not mandated to implement iAOP/eAO from the implementation bjective is reported as Not Applicable,	DP (Tallinn Airport is of (i)AOP).	-
ASP (By:12/20	25)		
EANS		0%	Not Applicable
iAOP/eAOP, th	instructions as Estonia is not mandated to implement his Objective can be reported as Not Applicable.	-	-
APO (By:12/20	25)		
TALLINN AIRPO		0%	Not Applicable
Not planned e	ither.	-	-

SDP 5.5.1 INF10.15	Cooperative Network Information Exchange – MeasuresService (Traffic Regulation) <u>Timescales:</u> InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	0	Not Applicable	
Not applicable	).		-	
ASP (By:12/20	ASP (By:12/2025)			

EANS	0%	Not Applicable
Applies only if local complexity tool is used. N/A for this monitoring cycle.	-	-

SDP 5.5.1 INF10.16	Cooperative Network Information Exchange - Short TermATFCM Measures services (MCDM, eHelpdesk, STAMmeasures) <u>Timescales:</u> InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	0	Not Applicable
Not applicable			_
ASP (By:12/202			
EANS		0%	Not Applicable
Applies only if	local complexity tool is used. N/A for this monitoring cycle.	-	-

SDP 5.5.1 INF10.17	CooperativeNetworkInformationExchange– Countsservice (ATFCM Congestion Points)Timescales:InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	0	Not Applicable
Not applicable	-		
Not applicable. ASP (By:12/2025)			-
EANS 0%		Not Applicable	
Applies only if	Applies only if local complexity tool is used. N/A for this monitoring cycle		-

SDP 5.6.1 INF10.19	Flight Information Exchange (Yellow Profile) - Flight DataRequest ServiceTimescales:InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	0	Planned
			31/12/2030
ASP (By:12/20			
EANS		0%	Planned

SDP 5.6.1 INF10.19Flight Information Exchange (Yellow Profile) Request Service Timescales: Initial Operational Capability: Full Operational Capability / Target Date: 31/12	<b>0</b> 01/01/2021	Planned
Planned to consume NM B2B services:         - ARO briefing systems by 2024 - activities ongoing.         - ATM systems: TWR systems 2028 (according to CP1 not an ob ACC 2030 - activities planned. ATM system provider not fully de - rTWR: TBD (according to CP1 not an obligation).         ARO systems:         The system will be extended to support the submission of FPL at messages via NM B2B using their FF-ICE services.         The following transformations are done from current message service:         FilingService:         FPL: FiledFlightPlanRequest         CHG: FlightPlanUpdateRequest         CNL: FlightPlanUpdateRequest         CNL: FlightPlanCancellationRequest         FilingService:         FPL validation only: TrialRequest         FlightDataRequestService:         RQP: FlightDataRequest         RQS: FlightDataRequest         NotificationService:         DEP: FlightDataRequest         ARR: FlightArrivalRequest         When in the Center Terminal a message with above type is sen then the corresponding B2B service is used for transmitting the FFICE service instead of AFTN/AMHS message.         A system parameter allows to enable/disable the submission or NM B2B. When disabled the messages.	t to the IFPS, data via f the data via	31/12/2030
Elight Information Exchange (Vellow Brofile)	Notification	

SDP 5.6.1 INF10.20	Flight Information Exchange (Yellow Profile) - NotificationService <u>Timescales:</u> InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	0	Planned
Planned accor ASP (By:12/20 EANS	- rding to SP activities. 25)	0%	31/12/2030 Planned

SDP 5.6.1 INF10.20	Flight Information Exchange (Yellow Profile) - NotificationServiceTimescales:InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	0	Planned
<ul> <li>ARO briefing</li> <li>ATM system activities plan</li> <li>rTWR: TBD (n</li> <li>ARO systems: The system w messages via The following service:</li> <li>FilingService:</li> <li>FPL: FiledFligh CHG: FlightPla</li> <li>DLA: FlightPla</li> <li>CNL: FlightPla</li> <li>CNL: FlightPla</li> <li>CNL: FlightPla</li> <li>RQP: FlightDataReq</li> <li>RQP: FlightDataReq</li> <li>RQP: FlightDataReq</li> <li>RQP: FlightDataReq</li> <li>RQP: FlightDataReq</li> <li>RQS: FlightDataReq</li> <li>ARR: FlightDataReq</li> <li>ARR: FlightArr</li> <li>When in the C</li> <li>then the correct</li> <li>FFICE service in</li> <li>A system para</li> <li>NM B2B. When</li> </ul>	<pre>ill be extended to support the submission of FPL and update NM B2B using their FF-ICE services. transformations are done from current message input to  tPlanRequest unUpdateRequest nUpdateRequest nCancellationRequest only: TrialRequest usetService: taRequest taRequest ervice: partureRequest</pre>		31/12/2030
	Flight Information Exchange (Yellow Profile) - Data		

SDP 5.6.1 INF10.21	Flight Information Exchange (Yellow Profile) - DataPublication ServiceTimescales:Initial Operational Capability:01/01/2021Full Operational Capability / Target Date:31/12/2025	0	Planned
Planned accor			31/12/2030
ASP (By:12/20	25)		
EANS		0%	Planned

SDP 5.6.1 INF10.21	Flight Information Exchange (Yellow Profile) - DataPublication ServiceTimescales:InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	0	Planned
ARO systems v ARO systems: The system wil messages via N The following t service: FilingService: FPL: FiledFlight CHG: FlightPlan DLA: FlightPlan CNL: FlightPlan TrialService: FPL validation FlightDataRequ RQP: FlightDat RQS: FlightDat RQS: FlightDat NotificationSen DEP: FlightDep ARR: FlightArri When in the Corte FFICE service in A system paran NM B2B. When	Issume NM B2B services (ATM systems and ARO briefing). vill be ready by 2025, ATM systems by 2030. Il be extended to support the submission of FPL and update IM B2B using their FF-ICE services. transformations are done from current message input to tPlanRequest hUpdateRequest hUpdateRequest hCancellationRequest only: TrialRequest uestService: aRequest aRequest artureRequest	-	31/12/2030

SDP 5.6.1 INF10.23	Flight Information Exchange (Yellow Profile) - ExtendedAMAN SWIM ServiceTimescales:InitialOperationalCapability:01/01/2021Full Operational Capability / Target Date:31/12/2025	0	Not Applicable		
- N/A as there are no domestic airports to which this applies (EETN AD is not CP1 AD).					
ASP (By:12/2025)					
EANS		0%	Not Applicable		
N/A as there a	re no domestic airports to which this applies.	-	-		

ITY-ACID	Aircraft Iden <u>Timescales:</u> Entry into System capa	force of		Regulation:	13/12/2011	92		Ongoing
EANS have se	nt template fo	r Mode S Dec	laratio	- n to NM on 30	0/01/2020, coi	nfirming that M	ode S	
is im	plemented	in	Та	allinn	FIR	above	FL95.	31/12/2024
System will be	e fully implem	ented when r	neighbo	ouring ANSP-s	have the capa	ability as well.		
LSSIP Yea	ır 2023 Estonia			59	)		W	orking Level Agre

ITY-ACID	Aircraft Identification <u>Timescales:</u>	92	Ongoing	
	Entry into force of the Regulation: 13/12/2011 System capability: 02/01/2020			
ASP (By:01/20				
EANS		92%	Ongoing	
EANS have sent template for Mode S Declaration to NM on 30/01/2020, confirming that Mode S is implemented in Tallinn FIR above FL95. According to the response from NM, the system can only be implemented when neighbouring countries are ready. Will be fully implemented when neighbouring ANSP-s have the capability.				
	Initial ATC Air-Ground Data Link Services			
ITY-AGDL	Timescales:Entryintoforce:06/02/2009ATSunitoperationalcapability:05/02/2018Aircraft capability:05/02/2020	100	Completed	
- Estonia implemented CPDLC in Tallinn FIR in June 2018. LOF and NAN implementation finished 30.12.2021.				
REG (By:02/20	18)			
Estonian Trans	sport Administration	100%	Completed	
	ure the processing and the distribution of the information on apability by the IFPS.	-	30/04/2018	
ASP (By:02/20				
EANS		100%	Completed	
28.06.2018).	on was finished in June 2018 (SITA 06.04.2018, ARINC Procedures implementing the Next Authority process is with Sweden, Finland (2021) and Latvia (2021).	Air-ground data link implementation	30/12/2021	
MIL (By:01/20	19)			
Estonian Air Fo	prce (MIL)	0%	Not Applicable	

Data link capability is not required.

	ITY-AGVCS2	8,33 kHz Air-Ground Voice Channel Spacing below FL195 <u>Timescales:</u> Entry into force: 07/12/2012 New and upgraded radio equipment: 17/11/2013 New or upgraded radios on State aircraft: 01/01/2014 Interim target for freq. conversions: 31/12/2014 All radio equipment: 31/12/2017 All frequencies converted: 31/12/2018 State aircraft equipped, except those notified to EC: 31/12/2018 State aircraft equipped, except those exempted [Art 9(11)]: 31/12/2020	100	Completed
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rammin in radio renewed according to implementing Regulation (EO) NO 1075/2012 in December	
2015. 31 frequencies converted on 02/01/2020. Estonia has 61 frequencies, from which 49 are	02/01/2020
converted as of 03/01/2020 (was reported to SAFIRE Data base). 9 frequencies are exempted	02/01/2020
(shall be converted on 2027), 3 are international frequencies, which should not be converted.	
REG (By:12/2018)	

KEG (DY:12/2018)		
Estonian Transport Administration	100%	Completed
Tallinn FIR radio renewed according to Implementing Regulation (EU) No 1079/2012 in December 2015. Frequency converted on 02/01/2020.	-	02/01/2020
ASP (By:12/2018)		

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ITY-AGVCS2	8,33 kHz Air-Ground Voice Channel Spacing below FL195Timescales:Entryintoforce:07/12/2012New and upgraded radio equipment:17/11/2013New or upgraded radios on State aircraft:01/01/2014Interim target for freq. conversions:31/12/2014Allradioequipment:31/12/2017Allfrequenciesconverted:31/12/2018State aircraft equipped, except those notified to EC:31/12/2018State aircraft equipped, except those exempted [Art 9(11)]:31/12/2020	100	Completed
EANS		100%	Completed
Frequency cor	nverted on 02/01/2020.	-	02/01/2020
MIL (By:12/20	20)		
Estonian Air Fe	orce (MIL)	100%	Completed
All of the State	e aircraft are equipped with 8,33 kHz radios.	-	31/12/2018
APO (By:12/20	)18)		
TALLINN AIRPO	ORT Ltd.	100%	Completed
REF EST	orking channels on EETN AD, what are converted accordingly. AIP AD 2.EETN, EETN AD 2.18. equipped vehicles do not communicate with aircrafts.	-	02/01/2020
Estonian Air Fe	orce (MIL)	0%	Not Applicable
	ed frequency requirements will maintain the 122,100 MHz 5 kHz channel spacing until a suitable alternative is found.	-	-

	Common Flight Message Transfer Protocol (FMTP)		
	<u>Timescales:</u>		
	Entry into force of regulation: 28/06/2007		
	All EATMN systems put into service after 01/01/09:		
ITY-FMTP	01/01/2009	100	Completed
	All EATMN systems in operation by 20/04/11: 20/04/2011		
	Transitional arrangements: 31/12/2012		
	Transitional arrangements when bilaterally agreed between		
	ANSPs: 31/12/2014		

A common flight message transfer protocol (FMTP) is implemented during a major system upgrade. However, IPver6 is not fully implemented. Connections with Malmö and Stockholm of Sweden are operational since August 2015.					
ASP (By:12/2014)					
EANS	100%	Completed			
Completed					
MIL (By:12/2014)					
Estonian Air Force (MIL) 0%					
Military ATC do not provide RADAR services	-	-			

	RNAV 1 in TMA Operations <u>Timescales:</u>		
	Initial operational capability: 01/01/2001		
NAV03.1	One SID and STAR per instrument RWY, where established: 25/01/2024 All SIDs and STARs per instrument RWY, where established: 06/06/2030	97	Ongoing
	EETN - Tallinn Airport		

RNAV 1 procedures and CDA in Tallinn TMA implemented on 30 May 2013. Estonia's PBN Implementation (transition) plan has successfully passed consultation with Estonian Stakeholders and with Network Manager (NM). The Plan has also been commented by IATA. PBN Implementation Plan Ver 1.0 document was approved by CAA and communicated to the neighbouring ATC Centres. Navigation infrastructure rationalization project was delayed due to economic crises caused by COVID 19, project is ongoing.				
REG (By:06/2030)	1			
Estonian Transport Administration	100%	Completed		
	Navigation			
The transition plan for PBN is approved by NSA in DEC 2020.	Infrastructure	31/12/2020		
	Rationalisation			
ASP (By:06/2030)				
EANS	96%	Ongoing		
Estonia's PBN Implementation (transition) plan has successfully passed consultation with Estonian Stakeholders and with Network Manager (NM). The Plan has also been commented by IATA. PBN Implementation Plan Ver 1.0 document was approved by CAA and communicated to the neighbouring ATC Centres.	Navigation Infrastructure Rationalisation	21/03/2024		
Navigation infrastructure rationalisation project is ongoing.				

NAV03.2	RNP 1 in TMA Operations <u>Timescales:</u> - not applicable -	0	Not Applicable	
	EETN - Tallinn Airport	·		
	ntention to Implement it because it is not justified particula	arly in terms of the	-	
	atio as RNAV1 is considered to be sufficient.			
REG (By:06/20	30)			
Estonian Trans	sport Administration	0%	Not Applicable	
There is no intention to Implement it because it is not justified particularly in terms of the cost/benefit ratio as RNAV1 is considered to be sufficient.				
ASP (By:06/20	30)			
EANS	Not Applicable			
	ention to Implement it because it is not justified particularly in ost/benefit ratio as RNAV1 is considered to be sufficient.	-	-	

NAV10	RNP Approach Procedures to instrument RWY         Timescales:         Initial       operational       capability:       01/06/2011         Instrument RWY ends without precision approach in EU SES         States.:       03/12/2020         Instrument RWY ends served by precision approach.:         25/01/2024         EETN - Tallinn Airport	100	Completed
aerodromes.	ocedures are published and implemented at EETN, EEKE, EE nsition plan has been drafted and submitted to CAA and MIL.	KA, EEPU and EETU	21/04/2022
The national P	sport Administration BN plan is approved by NSA in DEC 2020.	-	Completed 31/12/2020
ASP (By:01/202 EANS	24)	100%	Completed

NAV10	RNP Approach Procedures to instrument RWYTimescales:Initialoperationalcapability:01/06/2011Instrument RWY ends without precision approach in EU SESStates.:03/12/2020Instrument RWY ends served by precision approach.:25/01/2024	100	Completed
EETU	cedures are published and implemented at EETN, EEKE, EEKA, and EEPU aerodromes. ntation (transition) plan is approved by ECAA.	RNP APCH procedures implementation on EETN aerodrome	21/04/2022

NAV12	ATS IFR Routes for Rotorcraft OperationsTimescales:ORotorcraft RNP0.3, RNP1 or RNAV1 ATS routes above FL150, where03/12/20200One rotorcraft RNP0.3, RNP01 or RNAV1 SID and STAR per instrument RWY, where established.: 25/01/2024 Rotorcraft RNP0.3, RNP1 or RNAV1 ATS routes below FL150, where0All rotorcraft RNP0.3, RNP01 or RNAV1 SIDs and STARs per instrument RWY, where established.: 25/01/20240					
Tallinn FIR is F	- RA. ATS IFR routes for rotorcraft operation implementation a	re not planned				
REG (By:06/20	· ·	ie not plained.				
Estonian Trans	sport Administration	0%	Not Applicable			
	RA. ATS IFR routes for rotorcraft operation implementation are	_				
	o demand, too exiguous IFR rotocraft traffic.					
ASP (By:06/20	30)					
EANS		0%	Not Applicable			
LLR procedure implement.	es only in Tallinn CTR are completed. No other plans to	-	-			

# Additional Objectives for ICAO ASBU Monitoring

AOM21.1	Direct Routing (Outside Applicability Area) <u>Timescales:</u> - not applicable -						0		Not Applicable
Estonia FRA is implen	is nenter	outside	for	the	objective	арр	licability	area.	-
ASP (By:12/20									
EANS							0%		Not Applicable
FRA is implem	nentec	l.					-		-

ATC02.2	Alert (ST <u>Timescale</u> Initial	nt ground based s CA) - level 2 for en e <u>s:</u> operational ational capability:	-route operation capability:		100	Completed
STCA Level II function was implemented in 2012 and safety assessment was performed. Safety oversight was conducted on time.						
		-			•	31/12/2012
		-			•	31/12/2012
oversight		-			•	<b>31/12/2012</b> Completed

ATC02.9	Short Term Conflict Alert (STCA) for TMAsTimescales:Initialoperationalcapability:Null operational capability:01/01/2018Full operational capability:31/12/2020	100	Completed				
STCA function	is implemented.		31/12/2012				
ASP (By:12/20	ASP (By:12/2020)						
EANS		100%	Completed				
STCA function	is implemented.	-	31/12/2012				

ATC16	Impleme	nt ACAS II complia				
	<u>Timescales:</u> 100					Completed
	Initial	operational	capability:	01/03/2012	100	completed
	Full operational capability: 31/12/2015					
			-			
ACAS II compliant with TCAS II change 7.1 is implemented on time.						
REG (By:12/20	15)					
Estonian Transport Administration					100%	Completed
ECAA has supervised compliance with regulatory provisions for ACAS II (TCAS						31/12/2015
ll version 7.1).					-	51/12/2015
ASP (By:03/20	12)					
EANS					100%	Completed
The ATC staff was trained in December 2015.					-	31/12/2015
MIL (By:12/20	15)					
Estonian Air F	Estonian Air Force (MIL)				100%	Completed
Estonian Air Force M-28 transport-type aircraft are TCAS II 7.1 equipped.					-	04/01/2019
				C.A.		Northing a Louis L Anna

COM10.1	Migrate from AFTN to AMHS (Basic service)Timescales:InitialOperationalCapability:01/12/2011Full Operational Capability:31/12/2018	100	Completed			
Existing COM centres are upgraded to provide AMHS capability or implement EATMP Communications Gateway (ECG).						
ASP (By:12/20	18)		Completed			
EANS						
The migration	took place in August 2016.	-	31/12/2018			
FCM01	Implement enhanced tactical flow management servicesTimescales:Initialoperationalcapability:01/08/2001Full operational capability:31/12/2006	100	Completed			
- Since May 2008, Estonia is in the IFPS zone. Currently only the FMP is connected to NM. During the major system upgrade, all the requirements were implemented in 2012. FSA, CPR format tuning and testing completed. NM/ETFMS supplies with flight plan related updates that are only available shortly before departure.						
ASP (By:07/20	14)					
EANS		100%	Completed			
	functionalities are installed during system upgrade. Tuning, A revision completed.	-	30/06/2015			
ITY-COTR	Implementation of ground-ground automated co- ordination processes <u>Timescales:</u> Entry into force of Regulation: 27/07/2006 For putting into service of EATMN systems in respect of notification and initial coordination processes: 27/07/2006 For putting into service of EATMN systems in respect of Revision of Coordination, Abrogation of Coordination, Basic Flight Data and Change to Basic Flight Data: 01/01/2009 To all EATMN systems in operation by 12/2012: 31/12/2012	Completed				
- Implementation of G-G automated co-ordination has been finalised within Eurocat 2000 upgrade project in 2012.						
ASP (By:12/20	12)					
EANS		100%	Completed			
automated co been perform		-	31/12/2012			
MIL (By:12/20	12)					
Estonian Air F		0%	Not Applicable			
	ired as EAF currently provides only ADI service. Other ground- nated coordination is planned.	-	-			

#### Local Objectives

Note: Local Objectives are addressing solutions that are considered beneficial for specific operating environments, therefore for which a clear widespread commitment has not been expressed yet. They are characterised with no deadline and voluntary applicability area.

Remote Tower Services		
AOP14.1 Applicability and timescale: Local	40	Ongoing
EETN - Tallinn Airport		
EANS(notEETNAD)runsrTWRimplementationproject The Remote Tower Center is in Tallinn, in EANS headquarters. Two airports' (Kuressaare and Tartu) remote tower installations are ready, governing body Estonian Transportation Administration has issued aeronautical equipment certificate separately for both installations. Remote tower for Tartu aerodrome went fully operational in April 2023, since then the service has been provided only from the remote tower center in Tallinn. Service validation activities for Kuressaare aerodrome's remote tower started in November 2023. Kuressaare remote tower is expected to be operational in March 2024. Future: The Remote Tower Centre is planned for all four Estonian regional aerodromes (Tartu, Kuressaare, Kärdla and Pärnu (not planned for EETN AD)). For daily service provision.		31/03/2024
REG (By:)		
Estonian Transport Administration		Ongoing
EANS (not EETN AD) runs rTWR implementation project. - The Remote Tower Center is in Tallinn, in EANS headquarters. Two airports' (Kuressaare and Tartu) remote tower installations are ready, governing body Estonian Transportation Administration has issued aeronautical equipment certificate separately for both installations. Remote tower for Tartu aerodrome went fully operational in April 2023, since then the service has been provided only from the remote tower center in Tallinn. Service validation activities for Kuressaare aerodrome's remote tower (rAFIS) started in November 2023. Kuressaare remote tower is expected to be operational in March 2024. - Future: The Remote Tower Centre is planned for all four Estonian regional aerodromes (Tartu, Kuressaare, Kärdla and Pärnu (not planned for EETN AD)). - For daily service provision.	-	31/03/2024
ASP (By:)		
EANS		Ongoing
EANS (not EETN AD) runs rTWR implementation project. - The Remote Tower Center is in Tallinn, in EANS headquarters. Two airports' (Kuressaare and Tartu) remote tower installations are ready, governing body Estonian Transportation Administration has issued aeronautical equipment certificate separately for both installations. Remote tower for Tartu aerodrome went fully operational in April 2023, since then the service has been provided only from the remote tower center in Tallinn. Service validation activities for Kuressaare aerodrome's remote tower were starting in November 2023. Kuressaare remote tower is expected to be operational in March 2024. - The Remote Tower Centre is planned for all four Estonian regional aerodromes – Tartu, Kuressaare, Kärdla and Pärnu (not planned for EETN AD). - For daily service provision.	-	31/03/2024
APO (By:)		
TALLINN AIRPORT Ltd.		Ongoing

AOP14.1	Remote Tower Services <u>Applicability and timescale: Local</u>	40	Ongoing
EANS (not EETN AD) runs rTWR implementation project. Project is connected			
to Tallinn Airpo	orts Ltd-s activities, since all regional airports are under Tallinn	-	31/03/2024
Airport Ltd.			

AOP15	Enhanced traffic situational awareness and airport safety nets for the vehicle drivers <u>Applicability and timescale: Local</u>	0	Not Applicable	
	-			
Not planned.			-	
REG (By:04/20	19)			
Estonian Transport Administration		Not Applicable		
Not planned			-	
APO (By:)	APO (By:)			
TALLINN AIRPORT Ltd.		Not Applicable		
Not planned		-		

AOP16	Guidance assistance through airfield ground lighting <u>Applicability and timescale: Local</u>	0	Not Applicable
Natulannad	-		
Not planned.			-
ASP (By:)			
EANS		Not Applicable	
Not planned			-
APO (By:)			
TALLINN AIRPORT Ltd.		Not Applicable	
Not planned.		-	-

AOP17	Provision/integration of departure planning information to NMOC <u>Applicability and timescale: Local</u>	0	Not Applicable	
should be imp	EANS and Tallinn airport postponed the implementation of A-CDM at Tallinn aerodrome. A-CDM should be implemented in the frame of project Airport 4.0 and implementation probably not earlier than 31.12.2030.			
EANS			Not Applicable	
aerodrome. A-	nn airport postponed the implementation of A-CDM at Tallinn CDM should be implemented in the frame of project Airport nentation probably not earlier than 31.12.2030.	-	-	

AOP18	Runway Status Lights (RWSL) <u>Applicability and timescale: Local</u>	0	Not Applicable
	-		
Traffic density does not justify the implementation of the Objective and we`ll keep status N/A.			-

REG (By:)

AOP18	Runway Status Lights (RWSL)           Applicability and timescale: Local	0	Not Applicable
Estonian Transport Administration		Not Applicable	
Traffic density	does not justify the implementation of the Objective.	-	-
ASP (By:)			
EANS			Not Applicable
Traffic density	does not justify the implementation of the Objective.	-	-
APO (By:)			
TALLINN AIRPORT Ltd.		Not Applicable	
Traffic density	does not justify the implementation of the Objective.	-	-

AOP21	Wake Turbulence Separations for Arrivals based on Static         Aircraft Characteristics (S-PWS-A)         Applicability and timescale: Local	0	Not Applicable
No operation			-
ASP (By:)			
EANS			Not Applicable
No operation	al needs at the moment.	-	-

AOP23	Integrated runway sequence for full traffic optimization on single and multiple runway airports Applicability and timescale: Local	0	Not yet planned	
	EETN - Tallinn Airport			
N/A for EETN AD, Tallinn Airport is not listed in CP1 Geographical Scope. AD has not planned it (yet).			-	
ASP (By:)				
EANS		Not yet planned		
Depends on Tallinn airport plans			-	
APO (By:)	APO (By:)			
TALLINN AIRPORT Ltd.		Not yet planned		
Not yet planned		-		

AOP25	De-icing management tool Applicability and timescale: Local	0	Not yet planned	
	EETN - Tallinn Airport	·		
Development	according to SP-s activities.		-	
ASP (By:)				
EANS		Not yet planned		
Further plans depend on EETN airport			-	
APO (By:)	APO (By:)			
TALLINN AIRPORT Ltd.		Not yet planned		
Not yet planne	ed.	-	-	

AOP26	Reduced separation based on local Runway Occupancy Time (ROT) characterisation <u>Applicability and timescale: Local</u>	0	Not Applicable	
	-			
N/A, not planned either.			-	
ASP (By:)	ASP (By:)			
EANS		Not		
EAINS			Applicable	
Local objective, not planned		-		

ATC18	Multi-Sector Planning En-route - 1P2T <u>Applicability and timescale: Local</u>	0	Not Applicable
- N/A, but objective might come into the plans, in case FINEST realizes.			
ASP (By:01/20	30)		
EANS			Not Applicable
N/A		-	-

ATC20	EHS	Enhanced STCA with down-linked parameters via Mode S         EHS       0         Applicability and timescale: Local				
Estonia SFL via Mode is identified.	is -S EHS is imple	outside emented. No need	۔ of for enhancemo	applicability ent of STCA with selec	area. cted flight level	-
REG (By:01/20	030)					
Estonian Tran	Estonian Transport Administration					
Estonia is out	side of applica	bility area.			-	-
ASP (By:01/20	)30)					
EANS					Not Applicable	
	S EHS is imple t level is ident	mented. No need fo fied.	or enhancemei	nt of STCA with	-	-

ATC26	Point Merge in complex TMA Applicability and timescale: Local	0	Not Applicable
	EETN - Tallinn Airport		
Not planned.			-
ASP (By:)			
EANS			Not
LANS			Applicable
No plans to im	plement.	-	-

COM13	Air Traffic Services (ATS) datalink using SatCom Class B <u>Applicability and timescale: Local</u>	0	Not yet planned		
-					
Subject to loca	Subject to local need, It has not yet been decided whether ANSP will participate in the test phase.				
REG (By:)	REG (By:)				
Estonian Transport Administration			Not Applicable		

COM13	Air Traffic Services (ATS) datalink using SatCom Class B <u>Applicability and timescale: Local</u>	0	Not yet planned
N/A, and it ha test phase.	N/A, and it has not yet been decided whether ANSP will participate in the test phase.		-
ASP (By:)			
EANS			Not yet planned
NYP, lack of re	sources at the moment.	-	-

ENV02	Airport Collaborative Environmental Management Applicability and timescale: Local	100	Completed			
	EETN - Tallinn Airport					
Tallinn Airpor	Tallinn Airport has implemented Collaborative Environmental Management (CEM).       31/12/2					
ASP (By:)						
EANS			Completed			
Completed		-	31/12/2016			
APO (By:)						
TALLINN AIRPO	DRT Ltd.		Completed			
Completed		-	31/12/2016			

ENV03	Continuous Climb Operations (CCO) <u>Applicability and timescale: Local</u>	0	Not Applicable
	EETN - Tallinn Airport		
Not applicable	e at State level. Nevertheless, EETN AD has got the noise aba	atement procedures,	
what	are applicable below	the	-
altitude of 30	00 ft AMSL. REF EST AIP EETN AD 2.21.		
ASP (By:)			
EANS			Not
LANS			Applicable
Not applicable	at State level.	-	-
APO (By:)			
TALLINN AIRPO			Not
			Applicable
Not applicable	at State level.	-	-

NAV11.1	Implement precision approach procedures using GBAS CAT II based on GAST C Applicability and timescale: Local	0	Not Applicable
C	-		[
Subject to loc	al need, not planned.		-
REG (By:)			
Estonian Tran	Estonian Transport Administration		Not Applicable
ANSP has no p	plans to implement.	-	-
ASP (By:)			
EANS		Not Applicable	
	plans to implement precision approach procedures using GBAS In GAST C. Considering the traffic capacity, it is not reasonable.	-	-

SAF10.1	Implement measures to reduce the risk to aircraft operations caused by airspace infringements <u>Applicability and timescale: Local</u>	30	Ongoing
Activity ongo	ing.		31/12/2030
REG (By:)	<u> </u>		
Estonian Tran	nsport Administration		Ongoing
NIL		-	31/12/2030
ASP (By:)			
EANS			Ongoing
Action Plan f	EAPAIRR questionnaire, some of the parts of the European or Airspace Infringement Risk Reduction, are completed, some and not yet planned.	-	31/12/2030
AIS (By:)			
EANS			Ongoing
	ailability and access of VFR en-route charts ongoing, planned to moving maps on portable devices. AIM1 in SAF EAPAIRR e ongoing.	-	31/12/2025
SAF11.1	Improve Runway Safety by Preventing Runway Excursions Applicability and timescale: Local	100	Completed
Since not all t			
	the activities are reasonable to implement and some are consta we have considered this area Completed.	ntly ongoing (others	31/12/2023
completed),	the activities are reasonable to implement and some are consta we have considered this area Completed.	ntly ongoing (others	31/12/2023
completed), REG (By:)	-	ntly ongoing (others	31/12/2023 Completed
completed), REG (By:) Estonian Trar Some ASP_E. It has decide	we have considered this area Completed.	ntly ongoing (others	
completed), REG (By:) Estonian Tran Some ASP_E. It has decide future traffic	we have considered this area Completed. Insport Administration ANS activities are constantly ongoing, others are completed. Id not to plan Approach Path Management (depending on the	ntly ongoing (others	Completed
completed), REG (By:) Estonian Tran Some ASP_E It has decide future traffic ASP (By:) EANS GAPPRE Reco they are part for ANSP com	we have considered this area Completed. Insport Administration ANS activities are constantly ongoing, others are completed. Id not to plan Approach Path Management (depending on the types/amount- thus plans might change). Dommendations ANSP3 and ANSP6 are constantly ongoing as of the safety everyday work in ANSP. Other Recommendations	ntly ongoing (others - -	
completed), REG (By:) Estonian Tran Some ASP_E It has decide future traffic ASP (By:) EANS GAPPRE Reco they are part for ANSP com	we have considered this area Completed. Insport Administration ANS activities are constantly ongoing, others are completed. Id not to plan Approach Path Management (depending on the types/amount- thus plans might change). Dommendations ANSP3 and ANSP6 are constantly ongoing as of the safety everyday work in ANSP. Other Recommendations	ntly ongoing (others - -	Completed
completed), REG (By:) Estonian Trar Some ASP_E It has decide future traffic ASP (By:) EANS GAPPRE Reco they are part	we have considered this area Completed. Insport Administration ANS activities are constantly ongoing, others are completed. Id not to plan Approach Path Management (depending on the types/amount- thus plans might change). Dommendations ANSP3 and ANSP6 are constantly ongoing as of the safety everyday work in ANSP. Other Recommendations appleted.	ntly ongoing (others	Completed

# Annex A: Specialists involved in the ATM implementation reporting for Estonia

LSSIP Focal Points	Organisation	Name
LSSIP National Focal Point	Estonian Transport Administration	Moonika KÄST
LSSIP Focal Point for NSA	Estonian Transport Administration	Moonika KÄST
LSSIP Focal Point for ANSP	Estonian ANS	Keiti MERIKÜLL
LSSIP Focal Point for Airport	Tallinn Airport	Ilona SOITU
LSSIP Focal Point for Military	Estonian Defence Forces Air Force	David-Andreas MELLOV
LSSIP Focal point for MET	Estonian Environment Agency	Jüri JOONAS

Other Focal Points	Organisation	Name
Focal Point for NETSYS	EANS (Estonian ANS)	Brenda ROOSIMAA
Focal Point for SUR	EANS (Estonian ANS)	Steve SÕERUER
Focal Point for SDP/CP1	EANS (Estonian ANS)	Keiti MERIKÜLL
Focal Point for U-space	Estonian Transport Administration	Priit RIFK

# Annex B: Questionnaires

#### 1. Surveillance (SUR) Questionnaire

This Annex is not published in the LSSIP Document, but is available in the LSSIP Tool, which can be made available upon request to Focal Point and/or Contact Person.

#### 2. EAPAIRR and GAPPRE Questionnaire

#### European Action Plan for Airspace Infringement Risk Reduction

This Annex is not published in the LSSIP Document, but is available in the LSSIP Tool, which can be made available upon request to Focal Point and/or Contact Person.

# 3. SESAR Solutions implemented in a voluntary way<sup>3</sup>

This Annex is not published in the LSSIP Document, but is available in the LSSIP Tool, which can be made available upon request to Focal Point and/or Contact Person.

<sup>&</sup>lt;sup>3</sup> Referred as 'Non-committed' SESAR solutions in the MP L3 Report. LSSIP Year 2023 Estonia 75

# Annex C: Implementation Objectives' links with other plans

The table below (extracted from the MPL3 Plan 2023) shows for each implementation objective, the mapping of the L3 implementation Objectives to the corresponding SESAR Essential Operational Changes, the SESAR Solutions, the Deployment Program families, the ICAO ASBU, the EASA EPAS, the Network Strategy Plan, the Airspace Architecture Study Transition Plan (AAS TP) Milestones and the SESAR Key Features.



Level 3 Implementation Objective	SESAR Solution	SDP Family	OI Steps/ Enablers	ICAO ASBUs	EPAS	NSP	AAS TP	KF
<b>ATC21</b> – Composite surveillance ADS- B/WAM	#114	-	CTE-S06, CTE-S05, CTE-S03a, CTE-S03b, CTE-S04a	ASUR- B0/1 ASUR- B0/2	RMT.067 9 RMT.051 9	SO8/3 SO8/4	AM-1.17	EAI
<b>COM10.2</b> – Extended AMHS	-	-	CTE-C06c	COMI- B0/7	-	SO7/4	-	EAI
<b>COM11.1</b> – Voice over Internet Protocol (VoIP) in En-Route	-	-	CTE-C05a CTE-C05b	COMI- B2/1	-	SO8/4	AM-1.3	EAI
COM11.2 – Voice over Internet Protocol (VoIP) in Airport/Terminal	-	-	CTE-C05a CTE-C05b	COMI- B2/1	-	SO8/4	-	EAI
<b>COM13</b> – Air Traffic Services (ATS) datalink using SatCom Class B	#109	-	POI-0018- COM	COMI- B1/3	-	-	AM-1.16	EAI
<b>ITY-ACID</b> – Aircraft identification	-	-	GSURV-0101	-	-	SO8/2	-	EAI
ITY-AGDL – Initial ATC air-ground data link services	-	-	AUO-0301	COMI- B0/4 COMI- B1/2	RMT.052 4	SO4/1 SO8/3	AM-1.1	EAI
ITY-AGVCS2 – 8.33 kHz Air-Ground Voice Channel Spacing below FL195	-	-	CTE-C01a	-	-	SO8/1	-	EAI
<b>NAV10</b> – RNP Approach Procedures to instrument RWY	#103	-	AOM-0602 AOM-0604 CTE-N06a CTE-N06b	APTA- B0/1 APTA- B1/1 NAVS- B0/2	RMT.044 5 RMT.064 3	SO6/5	-	AAT S
NAV11.2 – Implement precision approach procedures using GBAS CAT II/III based	#55	-	AO-0505-A	NAVS- B1/1	RMT.068 2	-	-	HPA O



Level 3 Implementation Objective	SESAR Solution	SDP Family	OI Steps/ Enablers	ICAO ASBUs	EPAS	NSP	AAS TP	KF
on GPS L1 and/or GALILEO E1								



Level 3 Implementation Objective	SESAR Solution	SDP Family	OI Steps/ <i>Enabler</i> s	ICAO ASBUs	EPAS	NSP	AAS TP	KF
AOM13.1 – Harmonise OAT and GAT handling	-	-	AOM-0301 AOM-0303	-	-	SO6/2	-	OAN S
<b>AOP11.1</b> – Initial Airport Operations Plan	#21	2.2.1	AO-0801-A	ACDM- B1/1	-	SO6/2	-	HPA O
<b>AOP11.2</b> – Extended Airport Operations Plan	#21	2.2.2	AO-0801-A, AO-0802-A, AO-0803, DCB-0310	ACDM- B1/1	-	SO5/2	-	HPA O
AOP17 – Provision/integration of DPI to NMOC	#61	-	DCB-0304	NOPS- B0/4	-	-	-	HPA O
COM12 – NewPENS	-	-	CTE-C06b	COMI- B1/1	-	SO2/3, SO2/4, SO8/3, SO8/4	-	EAI
FCM03 – Collaborative flight planning	-	-	IS-0102	NOPS- B0/2	-	SO4/3	AM-1.14	OAN S
<b>FCM04.2</b> – Enhanced Short Term ATFCM Measures	#17	4.1.1	DCB-0308	NOPS- B1/1	-	SO4/5	AM-1.11	OAN S
FCM06.1 – Automated Support for Traffic Complexity Assessment and Flight Planning interfaces	#19 PJ.18- 02c	4.3.1	CM-0101 CM-0103-A IS-0102	NOPS- B0/2 NOPS- B1/4	-	SO4/3 SO4/5	AM-1.13	OAN S
FCM10 – Interactive rolling NOP	#18 #20	4.2.1	DCB-0102 DCB-0208	NOPS- B1/2 NOPS- B1/9	-	SO2/2, SO4/2, SO4/5	AM-1.9 AM-1.12	OAN S
FCM11.1 – Initial AOP/NOP Information Sharing	#20 #21	4.2.2	DCB-0103-A AO-0801-A	NOPS- B0/4	-	SO4/4, SO4/5, SO5/2	AM-1.12	OAN S

ATM inter netw	connected							
Level 3 Implementation Objective	SESAR Solution	SDP Family	OI Steps/ <i>Enabler</i> s	ICAO ASBUs	EPAS	NSP	AAS TP	KF
FCM11.2 – AOP/NOP integration	#18 #20 #21	4.4.1	AO-0801–A, AO-0802–A, AO-0803, DCB-0310, DCB-0103-A, DCB-0208	NOPS- B1/3	-	SO4/4, SO4/5, SO5/2	AM-1.12	OAN S
INF10.2 – Stakeholders' SWIM PKI and cyber security	#46	5.2.1	IS-0901-A	SWIM- B2/3	RMT.072 0	SO2/4	AM-1.5	EAI
INF10.3 – Aeronautical Information Exchange - Airspace structure service	#46	5.3.1	IS-0901-A	-	-	SO2/4	AM-1.5	EAI
INF10.4 – Aeronautical Information Exchange - Airspace availability service	#46	5.3.1	IS-0901-A	-	-	SO2/4	AM-1.5	EAI
INF10.5 – Aeronautical Information Exchange - Airspace Reservation (ARES) service	#46	5.3.1	IS-0901-A	-	-	SO2/4	AM-1.5	EAI
INF10.6 – Aeronautical Information Exchange - Digital NOTAM service	#34 #46	5.3.1	IS-0901-A IS-0205	-	-	SO2/4	AM-1.5	EAI
INF10.7 – Aeronautical Information Exchange - Aerodrome Mapping information exchange service	#34 #46	5.3.1	IS-0901-A IS-0205	-	-	SO2/4	AM-1.5	EAI
INF10.8 – Aeronautical Information Exchange - Aeronautical Information Features service	#34 #46	5.3.1	IS-0901-A IS-0205	-	-	SO2/4	AM-1.5	EAI
INF10.9 – Meteorological Information Exchange - Volcanic ash concentration service	#34 #35 #46	5.4.1	IS-0901-A IS-0205 MET-0101	-	-	SO2/4	AM-1.5	EAI

ATM inter netw	connected							
Level 3 Implementation Objective	SESAR Solution	SDP Family	OI Steps/ <i>Enabler</i> s	ICAO ASBUs	EPAS	NSP	AAS TP	KF
INF10.10 – Meteorological Information Exchange - Aerodrome Meteorological information Service	#34 #35 #46	5.4.1	IS-0901-A IS-0205 MET-0101	-	-	SO2/4	AM-1.5	EAI
INF10.11 – Meteorological Information Exchange - En-Route and Approach Meteorological information service	#34 #35 #46	5.4.1	IS-0901-A IS-0205 MET-0101	-	-	SO2/4	AM-1.5	EAI
INF10.12 – Meteorological Information Exchange - Network Manager Meteorological Information	#34 #35 #46	5.4.1	IS-0901-A IS-0205 MET-0101	-	-	SO2/4	AM-1.5	EAI
INF10.13 – Cooperative Network Information Exchange - ATFCM Tactical Updates Service	#46	5.5.1	IS-0901-A	-	-	SO2/4	AM-1.5	EAI
INF10.14 – Cooperative Network Information Exchange - Flight Management Service	#46	5.5.1	IS-0901-A	-	-	SO2/4 SO5/2	AM-1.5	EAI
INF10.15 – Cooperative Network Information Exchange - Measures Service	#46	5.5.1	IS-0901-A	-	-	SO2/4 SO4/5	AM-1.5	EAI
INF10.16 – Cooperative Network Information Exchange - Short Term ATFCM Measures services	#46	5.5.1	IS-0901-A	-	-	SO2/4 SO4/5	AM-1.5	EAI
INF10.17 – Cooperative Network Information Exchange - Counts service	#46	5.5.1	IS-0901-A	-	-	SO2/4	AM-1.5	EAI
INF10.18 – Flight Information Exchange -Filing Service	#46	5.6.1	AUO-0207	FICE- B2/2	-	SO2/4	AM-1.5	EAI
INF10.19 – Flight Information Exchange	#46	5.6.1	AUO-0207	FICE- B2/4	-	SO2/4	AM-1.5	EAI

ATM interconnected network											
Level 3 Implementation Objective	SESAR Solution	SDP Family	OI Steps/ <i>Enabler</i> s	ICAO ASBUs	EPAS	NSP	AAS TP	KF			
- Flight Data Request Service											
INF10.20 – Flight Information Exchange - Notification Service	#46	5.6.1	AUO-0207	FICE- B2/5	-	SO2/4	AM-1.5	EAI			
INF10.21 – Flight Information Exchange - Publication Service	#46	5.6.1	AUO-0207	FICE- B2/6	-	SO2/4	AM-1.5	EAI			
INF10.22 – Flight Information Exchange - Trial Service	#46	5.6.1	AUO-0219	FICE- B2/3	-	SO2/4	AM-1.5	EAI			
INF10.23 – Flight Information Exchange - Extended AMAN SWIM Service	#46	5.6.1	AUO-0207	DAIM- B2/1 SWIM- B3/1	-	SO2/4	AM-1.5	EAI			



Level 3 Implementation Objective	SESAR Solution	SDP Famil Y	OI Steps/ <i>Enable</i> <i>rs</i>	ICAO ASBUs	EPAS	NSP	AAS TP	KF
<b>INF07</b> – Electronic Terrain and Obstacle Data (e-TOD)	-	-	AIMS-16	DAIM- B1/3 DAIM- B1/4	RMT.070 3 RMT.072 2	SO2/5	-	EAI
INF11.1 – Enhanced Ground Weather Management System (GWMS) as local 4DWxCube	PJ.18- 04b-01	-	POI-0044- MET	-	-	-	-	EAI
<b>INF11.2</b> – Cb-global capability and service	PJ.18- 04b-02	-	POI-0048- MET	-	-	-	-	EAI



Level 3 Implementation Objective	SESAR Solution	SDP Famil Y	OI Steps/ <i>Enable</i> <i>rs</i>	ICAO ASBUs	EPAS	NSP	AAS TP	KF
AOP04.1 – A-SMGCS Surveillance Service (former ICAO Level 1)	#70 #110	-	AO-0201 AO-0201-A POI-0071- SUR	SURF- B0/2	MST.002 9	SO6/6	-	HPA O



Level 3 Implementation Objective	SESAR Solution	SDP Famil Y	OI Steps/ <i>Enable</i> rs	ICAO ASBUs	EPAS	NSP	ΑΑЅ ΤΡ	KF
AOP04.2 – A-SMGCS RMCA (former ICAO Level 2)	-	-	AO-0102	SURF- B0/3	MST.002 9	SO6/6	-	HPA O
<b>AOP05</b> – Airport CDM	-	-	AO-0501, AO-0601, AO-0602, AO-0603, TS-0201	ACDM- B0/1 ACDM- B0/2 NOPS- B0/4	-	SO6/4	-	HPA O
<b>AOP10</b> – Time Based Separation	#64	-	AO-0303	WAKE- B2/7	-	SO6/5	-	HPA O
AOP12.1 – Airport Safety Nets	#02	2.3.1	AO-0104-A	SURF- B1/3	MST.002 9	SP6/6	-	HPA O
AOP13 – Automated assistance to Controller for Surface Movement planning and routing	#22 #53	-	AO-0205 TS-0202	SURF- B1/4	MST.002 9	SO6/6	-	HPA O
AOP15 – Safety Nets for vehicle drivers	#04	-	AO-0105 AO-0204	SURF- B2/2	MST.002 9	-	-	HPA O
AOP16 – Guidance assistance through airfield lighting	#47	-	AO-0222-A	SURF- B1/1	MST.002 9	-	-	HPA O
<b>AOP18</b> – Runway Status Lights	#01	-	AO-0209	SURF- B2/2, SURF- B2/3-	MST.002 9	-	-	HPA O
AOP19 – Departure Management Synchronised with Pre-departure sequencing	#53 #106	2.1.1	AO-0602 TS-0201	RSEQ- B0/2	-	-	-	HPA O
AOP20 – Wake Turbulence Separations for Departures based on Static Aircraft Characteristic (S- PWS-D)	PJ.02-01- 06	-	AO-0323	-	RMT.047 6	-	-	HPA O
AOP21−WakeTurbulenceseparationsforSeparationsbasedonArrivalsbasedonStaticAircraftCharacteristics(S-PWS-A)Kate	PJ.02-01- 04	-	AO-0306	WAKE- B3/3	RMT.047 6	-	-	HPA O



Level 3 Implementation Objective	SESAR Solution	SDP Famil Y	OI Steps/ <i>Enable</i> rs	ICAO ASBUs	EPAS	NSP	ΑΑЅ ΤΡ	KF
AOP22 – Minimum pair separations based on SRP	PJ.02-03	-	AO-0309	-	-	-	-	HPA O
AOP23 – Integrated runway sequence for full traffic optimization on single and multiple runway airports	PJ.02-08- 01	-	TS-0301	RSEQ- B2/1	-	-	-	HPA O
AOP24 – Optimised use of runway configuration for multiple runway airports	PJ.02-08- 02	-	TS-0313	-	-	-	-	HPA O
AOP25 – De-icing Management Tool	#116	-	POI-0070- AO	-	-	-	-	HPA O
AOP26 – Reduced separation based on local Runway Occupancy Time (ROT) characterisation	PJ.02-08- 03	-	AO-0337	-	-	-	-	HPA O
ATC07.1 – Arrival management tools	-	-	TS-0102	RSEQ- B0/1	-	SO4/1	-	AAT S
ATC19 – Enhanced AMAN-DMAN integration	#54	1.2.1	TS-0308	RSEQ- B2/1	-	SO6/5 SO4/1	-	EAI
ATC26 – Point Merge in complex TMA	#107	-	AOM-0601	RSEQ- B0/3	-	-	-	AAT S
<b>ENV01</b> – Continuous Descent Operations	#11	-	AOM-0701 AOM-0702- A	APTA- B0/4 APTA- B1/4	-	SO6/5	-	AAT S
<b>ENV02</b> – Airport Collaborative Environmental Management	-	-	AO-0703, AO-0705, AO-0706	-	-	-	-	HPA O
<b>ENV03</b> – Continuous Climb Operations	-	-	AOM-0703	APTA- B0/5 APTA- B1/5	-	SO6/5	-	AAT S
<b>NAV03.1</b> – RNAV1 in TMA Operations	#62	-	AOM-0601 <i>CTE-N08</i>	APTA- B0/2	RMT.044 5	SO6/5	-	AAT S
<b>NAV03.2</b> – RNP1 in TMA Operations	#09	-	AOM-0603 AOM-0605	APTA- B1/2	RMT.044 5	SO6/5	-	AAT S



Level 3 Implementation Objective	SESAR Solution	SDP Famil Y	OI Steps/ <i>Enable</i> rs	ICAO ASBUs	EPAS	NSP	AAS TP	KF
	#51 PJ.14-03- 04		POI-0032- NAV					l
NAV11.1 – GLS CAT II operations using GBAS GAST-C	#119	-	AO-0506	NAVS- B1/1	RMT.068 2 RMT.379	-	-	HPA O
SAF11.1 – Improve runway safety by preventing runway excursions	-	-	-	-	-	-	-	HPA O



Level 3 Implementation Objective	SESAR Solution	SDP Famil Y	OI Steps/Enable rs	ICAO ASBUs	EPAS	NSP	ΑΑЅ ΤΡ	KF
AOM19.4 – Management of Pre- defined Airspace Configurations	#31 #66	3.1.2	AOM-0202- A AOM-0206- A CM-0102-A	FRTO- B1/4, NOPS- B1/6	-	SO3/2 SO3/3	AM-1.10 AM-1.8-	OAN S
<b>AOM19.5</b> – ASM and A-FUA	#31 #66	3.1.1	AOM-0202 AOM-0202- A AOM-0206- A	NOPS B1/5, NOPS B0/1, FRTO B1/3, FRTO B0/2	-	SO3/2 SO3/3	AM-1.10 AM-1.8	OAN S
<b>AOM21.2</b> – Initial Free Route Airspace	#32 #33 #66	3.2.1	AOM-0501 AOM-0505 CM-0102-A	FRTO- B1/1	-	SO3/1 SO3/4	AM-1.10 AM-5.1	AAT S
<b>AOM21.3</b> – Enhanced Free Route Airspace Operations	#33 PJ.06-01	3.2.2	AOM-0501 AOM-0505	FRTO- B2/3	-	SO3/1 SO3/4	AM-1.6 AM-1.7	AAT S
ATC12.1 – MONA, TCT and MTCD	#27 #104	-	CM-0202, CM-0203, CM-0205, CM-0207-A	FRTO- B0/4 FRTO- B1/5	-	SO3/1 SO4/1	AM-1.15 AM-5.1	AAT S
ATC15.1 – Initial Extension of AMAN to En-route	-	-	TS-0305	-	-	SO4/1	-	AAT S
<b>ATC15.2</b> – Arrival Management	#05	1.1.1	TS-0305-A	RSEQ- B1/1	-	SO4/1	AM-1.3	AAT S



Level 3 Implementation Objective	SESAR Solution	SDP Famil Y	OI Steps/Enable rs	ICAO ASBUs	EPAS	NSP	AAS TP	KF
Extended to En-route Airspace				NOPS- B1/8				
ATC18 – Multi Sector Planning En-route – 1P2T	#63 #118	-	CM-0301	FRTO- B1/6	-	SO4/1	AM-4.3 AM-5.1	AAT S
ITY-FMTP – Apply a common flight message transfer protocol (FMTP)	-	-	CTE-C06	-	-	SO8/3	AM-1.3	EAI
<b>SAF10.1</b> – Implement measures to reduce the risk to aircraft operations caused by airspace infringements	-	-	-	-	SI.2025	-	-	AAT S



Level 3 Implementation Objective	SESAR Solution	SDP Famil Y	OI Steps/ <i>Enable</i> rs	ICAO ASBUs	EPAS	NSP	AAS TP	KF
ATC02.8 – Ground based safety nets	-	-	CM-0801	SNET- B0/2 SNET- B0/3 SNET- B0/4	-	SO4/1	-	AAT S
ATC20 – Enhanced STCA with DAP via Mode S EHS	#69	-	CM-0807-A	SNET- B1/1	MST.003 0	SO7/2	-	AAT S
ATC22 – Initial Air- Ground Trajectory Information Sharing (Airborne Domain)	#115	6.1.1	IS-0303-A	-	RMT.068 2	SO4/5	AM-1.2	EAI
ATC23 – Initial Air- Ground Trajectory Information Sharing (Ground Domain)	#115 PJ.18- 06b1	6.1.2	IS-0303-A	-	RMT.068 2	SO4/5	AM-1.2	EAI
ATC24 – Network Manager Trajectory Information Enhancement	PJ.18- 06b1	6.2.1	POI-0011-IS POI-0013-IS	-	RMT.068 2	SO4/5	-	EAI
<b>ATC25</b> – Initial Trajectory	#115	6.3.1	IS-0303-A	-	MST.003 1		AM-1.2	EAI



Level 3 Implementation Objective	SESAR Solution	SDP Famil Y	OI Steps/ <i>Enable</i> <i>rs</i>	ICAO ASBUs	EPAS	NSP	AAS TP	KF
Information Sharing ground distribution								1



Level 3 Implementation Objective	SESAR Solution	SDP Famil Y	OI Steps/Enable rs	ICAO ASBUs	EPAS	NSP	AAS TP	KF
<b>NAV12</b> – ATS IFR Routes for Rotorcraft Operations	#113	-	AOM-0810	АРТА- В0/6	MST.003 1	SO6/5	-	AAT S



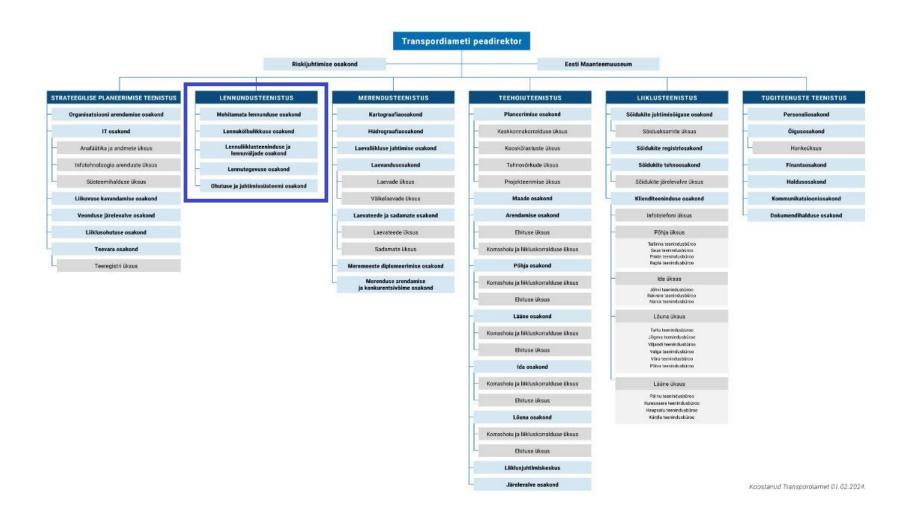
Level 3 Implementation Objective	SESAR Solution	SDP Famil Y	OI Steps/Enable rs	ICAO ASBUs	EPAS	NSP	AAS TP	KF
-	-	-	-	-	-	-	-	-



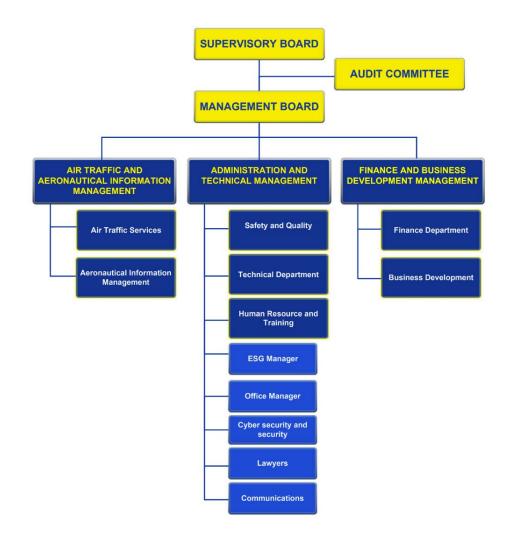
Level 3 Implementation Objective	SESAR Solution	SDP Famil Y	OI Steps/ <i>Enable</i> <i>rs</i>	ICAO ASBUs	EPAS	NSP	AAS TP	KF
AOP14.1 – Remote Tower Services	#12 #13 #52 #71	-	SDM-0201 SDM-0204 SDM-0205	RATS- B1/1	RMT.062 4	SO6/5	-	HPA O
AOP14.2 – Multiple Remote Tower Module	PJ.05-02	-	SDM-0207	RATS- B1/1	RMT.062 4	SO6/5	-	HPA O

## Annex D: National stakeholders organisation charts

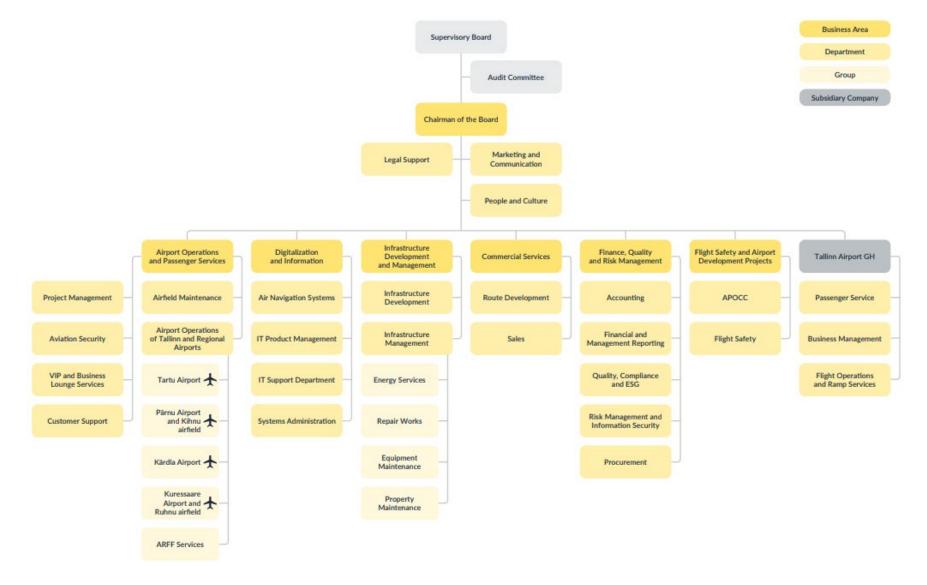
#### Structure of Estonian Transport Administration



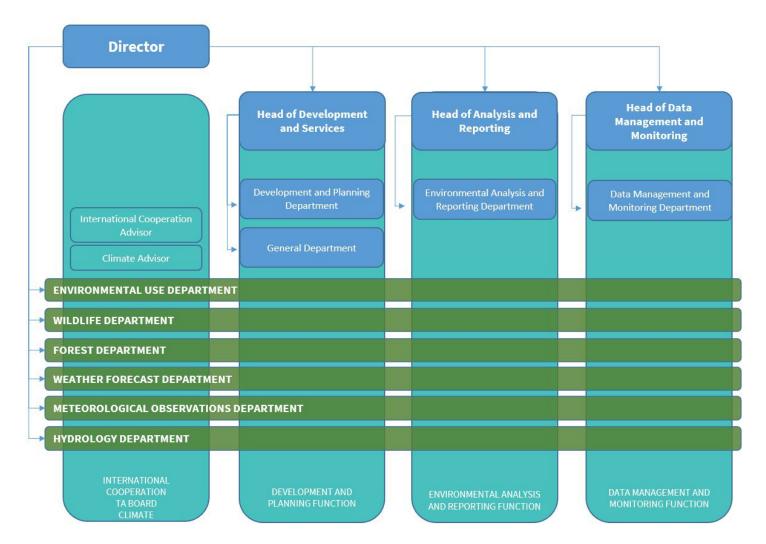
#### Structure of EANS



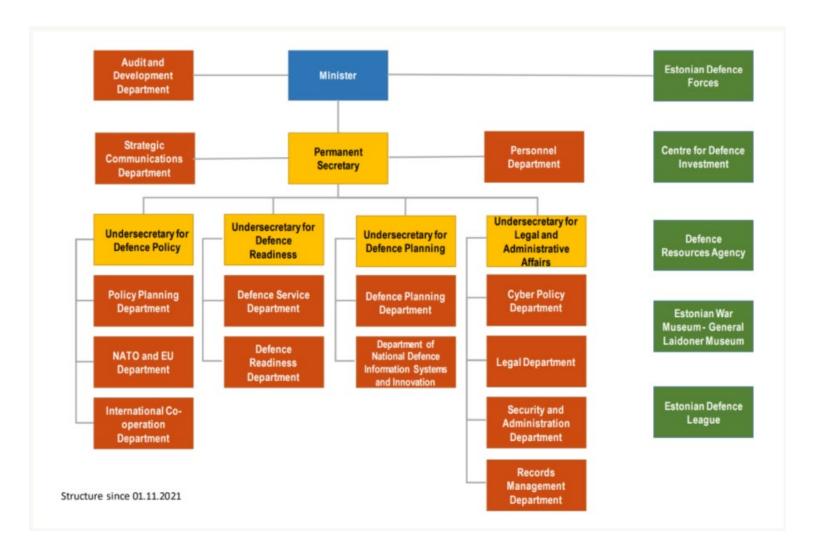
### Structure of AS Tallinna Lennujaam



#### Structure of MET



#### Structure of MIL



# Annex E: Glossary of Terms

This Annex mainly shows the abbreviations that are specific to the LSSIP Document for Estonia.

Other general abbreviations are in the Acronyms and Abbreviations document in:

https://www.eurocontrol.int/airial/

Term	Description
AF	ATM Functionality
EANS	Estonian Air Navigation Services (Estonian ANS)
ESTEA	Estonian Environment Agency
LOF	Log-On Forwarding message
NAMCON	The Northern Europe Aviation Meteorology Consortium
NAN	Next Authority Notified message
NEFAB	North European Functional Airspace Block
NEFRA	North European Free Route Airspace
NSA	National Supervisory Authority
rAFIS	Remote AFIS
rTWR	Remote TWR

# LSSIP 2023\_WLA\_EE

Final Audit Report

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