Iris

Service Implementation Roadmap

Issue 02-00
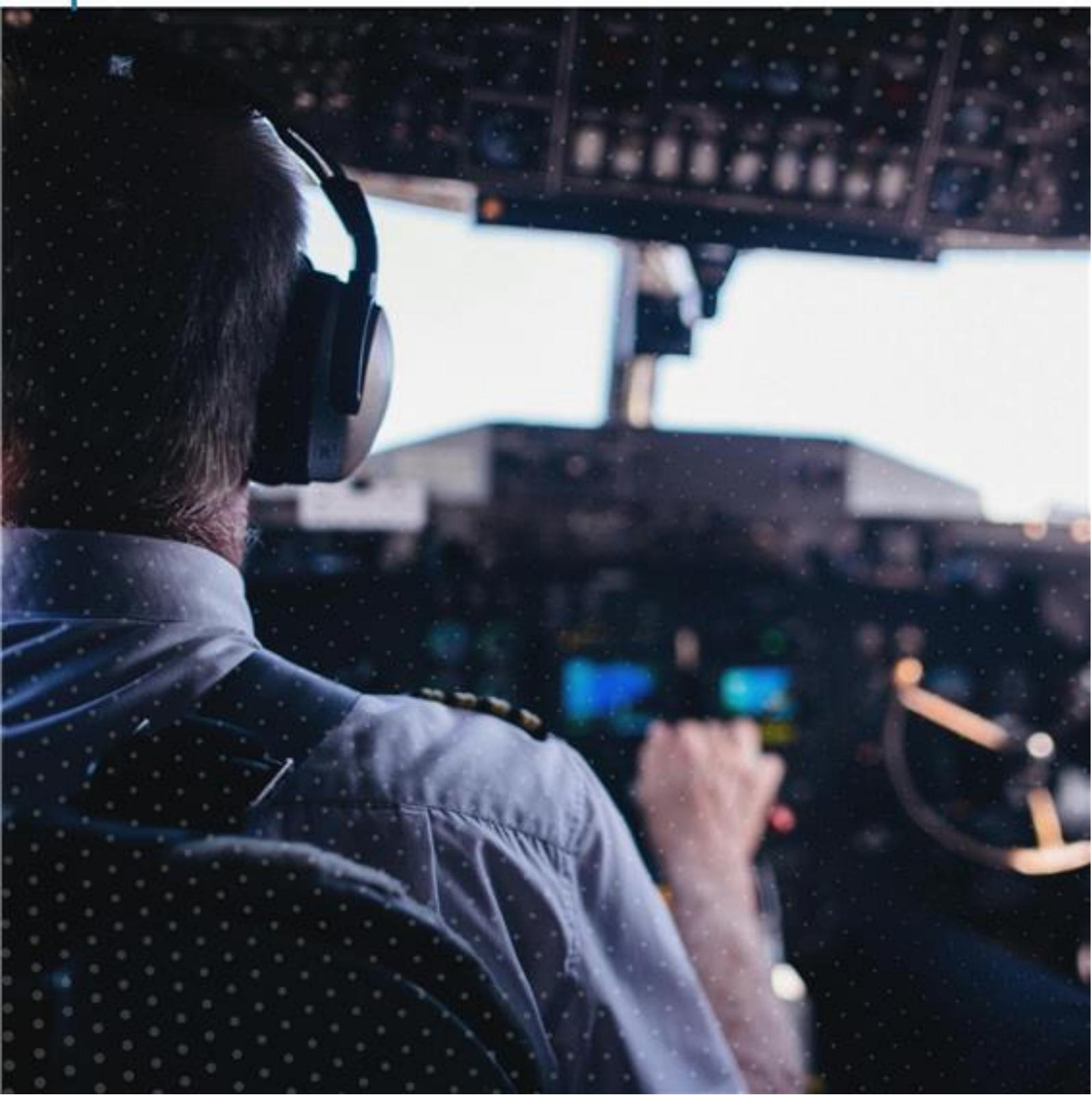
DOCUMENT CHANGE RECORD

Revision	Date	Summary of changes
1.0	20/12/2023	First release of the document
2.0	20/06/2025	Update of the Iris Service Roadmap milestones in Section 3.2 • Figure 3-1 updated from Q1 2024 to Q4 2026. • System evolutions, organizational evolutions, user interfaces and service declaration have been updated accordingly to the figure.

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IRIS | SERVICE IMPLEMENTATION ROADMAP

1   INTRODUCTION

1.1   Purpose of the Document

This document aims at providing an overview of the foreseen evolutions of the Iris Service since the ESSP was granted by EASA with an ATM/ANS Service Provider Organisation Approval (AOA) certification for the provision of Iris Service.

Given the nature of the information contained in this document, the Iris Service Evolution Roadmap is a living document which needs to evolve in time taking into account:

➢ Changes and evolutions implemented as part of the overall system evolutions

➢ The progressive updates on the corresponding deployment schedules

➢ Continuous service improvement and compliance oversight

The areas of information provided in the Iris Service Evolution Roadmap is outlined hereinafter. It is worth to mention that this document is also subject to revision so as to be adapted and evolved according to the needs raised over time.

Therefore, there could be unexpected triggers coming from users or internally which could derive in an extraordinary publication.
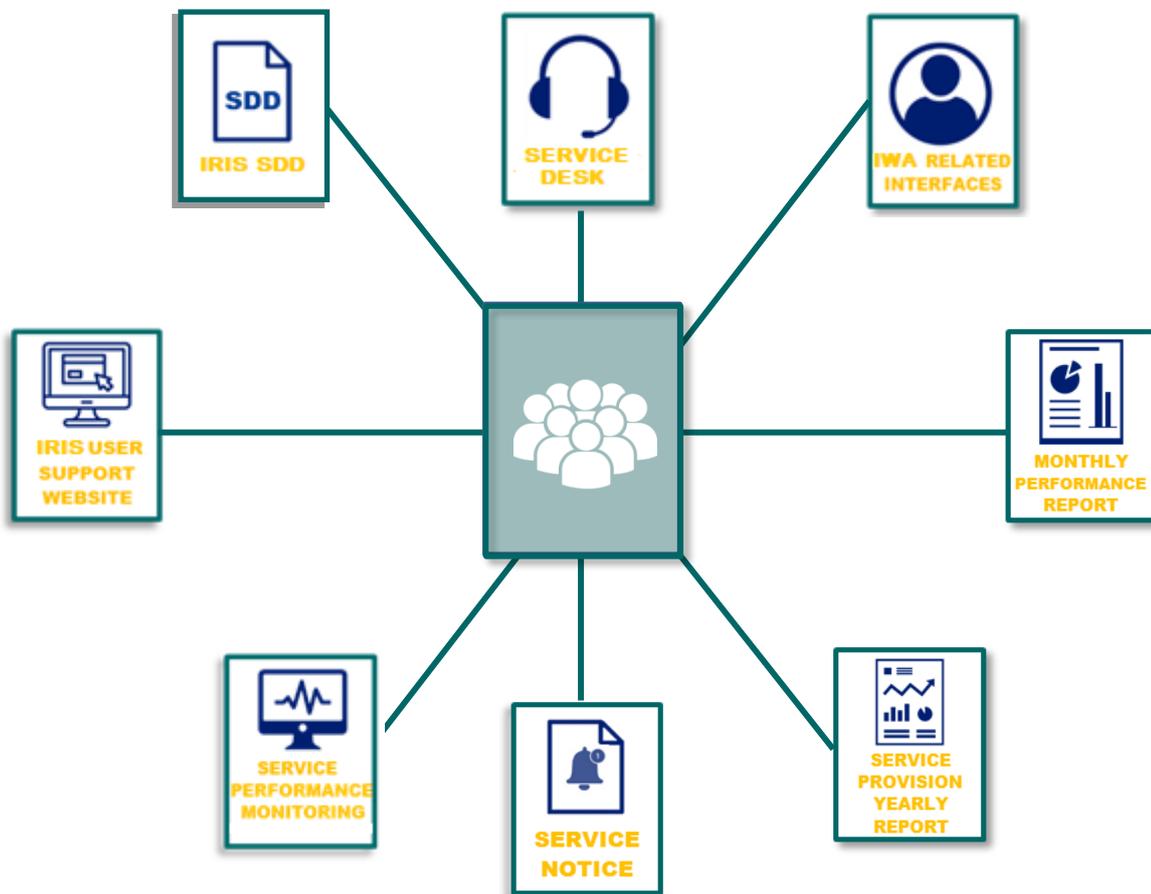
2   IRIS SERVICE

2.1   Iris Service Scope

Iris Service is an Aeronautical Mobile Satellite (Route) Service (AMS(R)S) based on ATN/OSI standards and supporting ATS data communication.

Iris Service is provided by the European Satellite Services Provider (ESSP) as the Iris Service Provider (ISP) and is accessible through an Iris Working Agreement (IWA) between the corresponding Organization (i.e. ANSP) and the Iris Service Provider (i.e. ESSP).

The service specifications and the terms and the conditions of use of the Iris Service are provided in the Iris Service Definition Document (Iris SDD).

2.2   Iris Service related documents and interfaces available for users

*Press Click on each image to access Iris related documents and interfaces available for users

Figure 2-1 Related documents and interfaces available for users

3   IRIS SERVICE IMPLEMENTATION ROADMAP

3.1   Definitions

The Iris Service implementation roadmap detailed in section 3.2 is described mainly focusing on 4 different areas: System Evolutions, Organizational Evolutions, Service Declarations and User Interfaces. The definition of each of these areas is provided hereafter for the sake of an appropriated interpretation of the contents by the reader.

Area	Information
System Evolutions	Foreseen evolutions of Iris System which have impact on the service.
Organizational Evolutions	Foreseen evolutions of the ISP organization, e.g.: • ISP certification • ISP readiness for the commercial service provision
Service Declarations	Planned milestones related to, e.g.: • Pre-Commercial Flights • Commercial readiness • Declaration/decommissioning/evolutions of Iris Service Levels
User Interfaces	Foreseen evolution of the interfaces towards users, e.g.: • User Support Website • Service desk • Publication of new versions of the SDD • Users Satisfaction Surveys

Table 3-1 Areas of information

3.2 Iris Service Implementation Roadmap
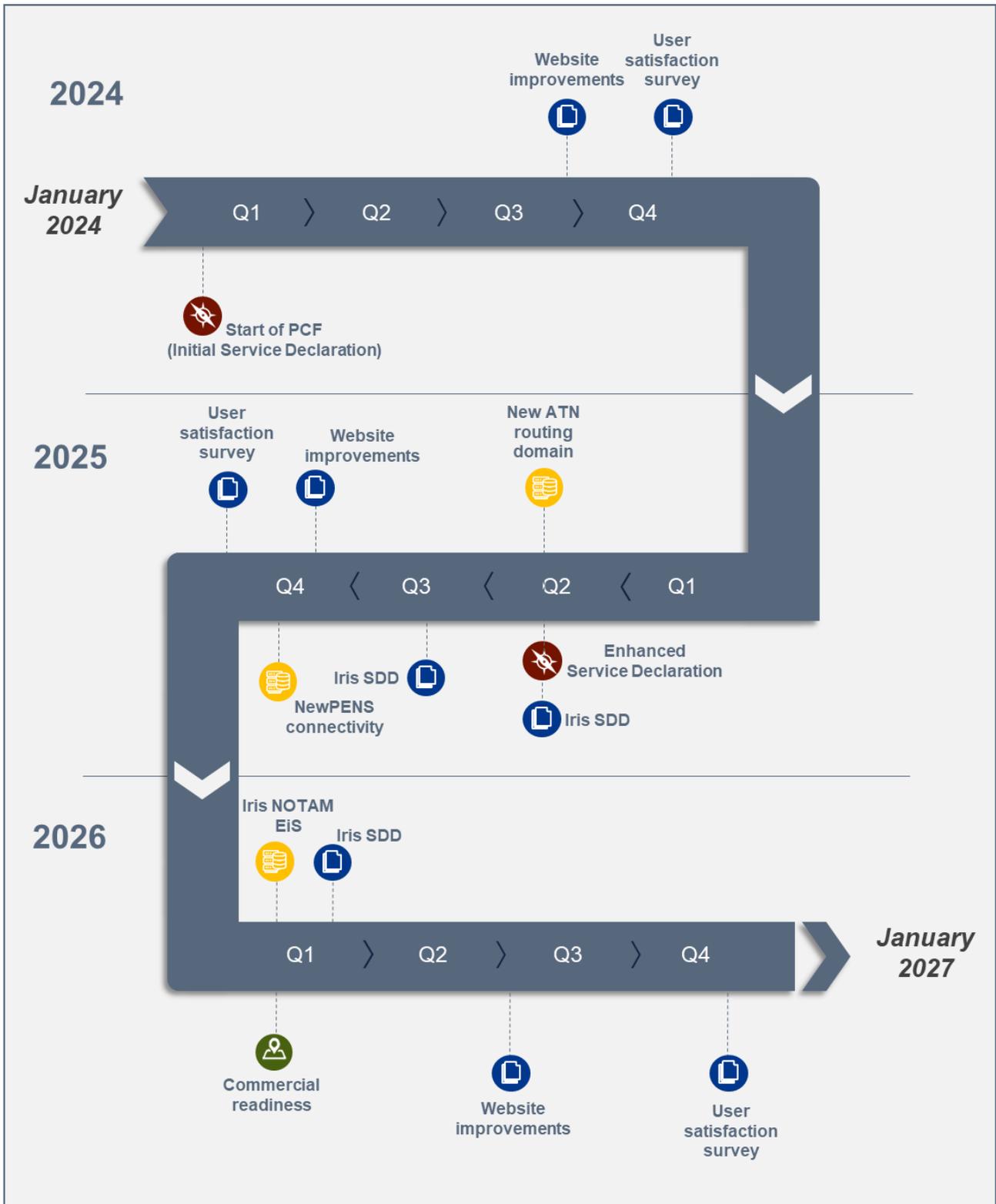

Figure 3-1: Iris Service Implementation Roadmap

IRIS | SERVICE IMPLEMENTATION ROADMAP

SYSTEM EVOLUTIONS:

Target Date: Q2 2025
Deployment of a new ground-ground routing domain in SITA's existing ATN backbone. This new routing domain is aimed at segregating the traffic of the ANSPs using Iris.

Target Date: Q4 2025
Readiness of NewPENS connectivity.

Target Date: Q1 2026
Deployment of the Iris NOTAM tool (v2.3.0). This tool will generate and distribute Iris NOTAM proposals with ICAO NOTAM format.

ORGANIZATIONAL EVOLUTIONS:

Target Date: Q1 2026
ISP Commercial Readiness. After the finalisation of the initial service provision phase, the ISP will be ready for the Iris commercial phase, which is planned to start in January 2026.

SERVICE DECLARATION:

Target Date: January 2024
Iris initial Service Declaration. The first declaration of the Iris Service with the corresponding notification to users was done in January 2024 and was followed by the start of the Pre-Commercial Flights.

Target start-end Dates: January 2024 – Q2 2025
Pre-Commercial Flights. Following the Iris Service Declaration, the Pre-Commercial Flights began on January 22nd, 2024. They have been conducted from Q1/2024 to Q2/2025. During these flights, the continuous oversight and service improvement continued.

Target Date: Q2 2025
Enhanced Service Declaration. This milestone declares the entry into operation of service evolutions aimed at improving the conformity with the applicable regulatory baseline. It led to the end of the Pre-Commercial Flights and the entry into operations of the Iris GGR.

USER INTERFACES:

Target Date: Q2 2025
New Iris SDD with the following changes:

> ➢ Segregation of the traffic of the ANSPs using Iris with the deployment of a new ground-ground routing domain in SITA's existing ATN backbone;
> ➢ Accommodation of the new published regulations repealing the Regulation (EC) 552/2004 and the Regulation (EC) 29/2009 and amending the Regulation (EU) 2017/373.

Target Date:
New Iris SDD. Update of the SDD with new commitments targeting closer values to

Q3 2025   the ones defined in the standards.

Target Date: **Q1 2026**   New Iris SDD aimed at improving the conformity with the applicable regulatory baseline (e.g. new commitments targeting the requirements defined in the standards), the provision of Iris NOTAM proposals and the readiness of NewPENS connectivity for the Iris service. This SDD corresponds with the start of the commercial phase.

Target Dates: **Q3 2024, Q4 2025 and Q3 2026**   User Support Website Improvements with additional contents and potential new functionalities.

Target Dates: **Q4 2024, Q4 2025 and Q4 2026**   Users Satisfaction Surveys, which is opened for users to provide feedback for annual periods.

3.3 Medium term Service Evolutions/System Deployments

In line with the system and service evolutions previously introduced, other improvements beyond the time period covered by this Iris Service Roadmap may be also identified. Currently, no further improvements have been noticed.

APPENDIX A   LIST OF ACRONYMS

The following table provides the definition of the acronyms used in this document.

Acronym	Definition
ADS-C	Automatic Dependent Surveillance (Contract)
AMSRS	Aeronautical Mobile Satellite (Route) Services
ANSP	Air Navigation Service Provider
AOA	ATM/ANS Service Provider Organisation Approval
ATC	Air Traffic Control
ATM	Air Traffic Management
ATN	Aeronautical Telecommunications Network
ATS	Air Traffic Services
CPDLC	Controller-to-Pilot Data Link Communication
EASA	European Union Aviation Safety Agency
EC	European Commission
ESSP	European Satellite Services Provider
EU	European Union
ICAO	International Civil Aviation Organization
ISP	Iris Service Provider
IWA	Iris Working Agreement
NOTAM	Notice To Airmen
PCF	Pre-Commercial Flights
Q	Quarter year
SATCOM	Satellite Communications
SDD	Service Definition Document

ESSP

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