

Iris Service Provision Monthly Report March 2025



ESSP-TN-38020

Iss. 01-02

Date: 01/04/2025







TABLE OF CONTENT

E	KECUTIVE	SUMMARY	3
1	IRIS S	SERVICE AVAILABILITY	5
	1.1	PERFORMANCE EVOLUTION	5
2	IRIS A	ATN/OSI SERVICE LEVEL 1 (SL1)	6
		LATENCY	_
		TECHNICAL CONTINUITY	
	_	PERFORMANCE EVOLUTION	_
3		ATN/OSI SERVICE LEVEL 2 (SL2)	
	_	DELIVERY TIME	_
		TECHNICAL CONTINUITY	
	3.3	PERFORMANCE EVOLUTION	
ΑI	PPENDIX A	A LIST OF ACRONYMS	13
Fire Fire Fire Fire	GURE 2: CU GURE 3: SL GURE 4: SL GURE 5: SL GURE 6: CU GURE 7: SL GURE 7: SL	TABLE OF FIGURES ALLY IRIS SERVICE AVAILABILITY	7 8 9 11
_		TABLE OF TABLES	_
		SERVICE AVAILABILITY PERFORMANCE — 6 MONTHS EVOLUTION	
		SL1 TECHNICAL CONTINUITY	_
		SL1 PERFORMANCE — 6 MONTHS EVOLUTION	_
		SL2 DELIVERY TIME	
		SL2 Technical Continuity	
		SL2 PERFORMANCE — 6 MONTHS EVOLUTION	

ESSP-TN-38020

Iss. 01-02

Page 2 of 14







EXECUTIVE SUMMARY

This report presents the **Iris services performance during March 2025**. The report contains global results for the reported period, including maps and tables with the performance through different parameters.

Additional and more detailed information about Iris performance can be found at the Iris User Support website Iris User Support Website.

Iris Service Availability

In March, the Iris Service Availability (whose target value is 99.4% according to the applicable SDD) was 99.98%.

Further details can be found in Section 1.

Iris ATN/OSI Service Level 1 (SL1)

This Service Level enables the following RCP specifications supporting CPDLC application for ATN B1 and ATS B2 data link services:

- RCP specified in the ED-120 as interpreted in the Eurocontrol guidelines.
- RCP130/A1 specified in the ED-228A / DO-350A and referred in the ED-242C / DO-343D

The SL1 performance values fulfilled the Iris SDD commitments in the 83.3% of the Service Area (which means that in 20 of 24 ACCs where some SATCOM communications took place during March, the Iris SDD commitments values were fulfilled).

The overall observed SL1 performance values are:

- SL1 Nominal Transaction Time (≤10 seconds at 95%): 8.4s
- SL1 ATN B1 Expiration Time (≤18 seconds at 99%) 6.0s
- SL1 ATS B2 Expiration Time (≤24 seconds at 99.5%): 5.8s
- SL1 Technical Continuity (≥95%) was 98.98%
- SL1 ATN B1 Technical Continuity (≥99%) was 99.68%
- SL1 ATS B2 Technical Continuity (≥99.5%) was 100%

From above results, it can be observed that the overall Iris performance during the reported period have been compliant for the latency and continuity parameters.

Further details can be found in section 2.

Iris ATN/OSI Service Level 2 (SL2)

This Service Level 2 which enables the following RSP specification supporting ADS-C application for ATS B2 data link services:

RSP160/A1 specified in the ED-228A / DO-350A and referred in the ED-242C / DO-343D

The SL2 performance values fulfilled the Iris SDD commitments in the 100% of the Service Area (which means that in the only one ACC where Iris Service is declared (EDYY ACC), the Iris SDD commitments values were fulfilled).

The overall observed SL2 performance values are:

- SL2 Nominal Delivery Time (≤9 seconds at 95%): 5.6s
- SL2 Overdue Delivery Time (≤17 seconds at 99.5%): 6.8s
- SL2 Technical Continuity (≥95%): 100%
- SL2 Technical Continuity (≥99.5%): 100%

From above results, it can be observed that the overall Iris performance during the reported period have been compliant for the latency and continuity parameters.

Further details can be found in section 3.

ESSP-TN-38020

Iss. 01-02

Page 3 of 14



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During the reported period, the total number of Iris aircrafts connected and handled has been 4, which represents the same number of aircrafts connected than during the previous month.

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ESSP-TN-38020

Iss. 01-02

Page 4 of 14







1 IRIS SERVICE AVAILABILITY

The service availability is defined as the probability that the Iris service is available to provide the required level of communication service.

Operationally significant outages are considered where TP4 or CM, CPDLC / ADS-C messages are not exchanged anymore for more than 6 minutes and validated by taking into consideration the type of IDRP messages (e.g. IDRP error rate) sent or received by the Inmarsat Air/Ground Router during this period to avoid wrong measurements at low traffic periods.

The Iris Service Availability during March was 99.98%, being above the target during all days of the month, except on the 22/03 (99.25%).

A daily distribution of Iris Service Availability is shown in the following graph:

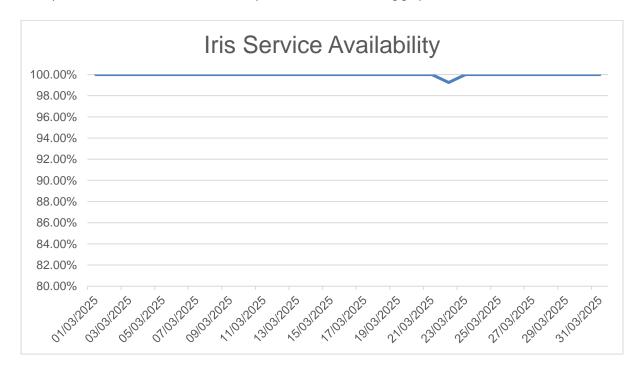


Figure 1: Daily Iris Service Availability

1.1 Performance evolution

The following table shows the evolution of the previously presented performance parameters for last 6 months.

Parameter	2024-10	2024-11	2024-12	2025-01	2025-02	2025-03
Iris Service Availability	99.74%	98.69%	98.26%	99.99%	99.85%	99.98%

Table 1: Iris Service availability performance – 6 months evolution



ESSP-TN-38020

Iss. 01-02

Page 5 of 14





IRIS ATN/OSI SERVICE LEVEL 1 (SL1)

Iris ATN/OSI Service Level 1 corresponds to the Controller Pilot Data Link Communications (CPDLC), which is the application that allows ATC data communications between controllers and pilots.

2.1 Latency

SL1 Nominal Transaction Time (TT) is defined as the maximum time at which 95 percent of all transactions, that are initiated, are completed.

It is computed as the time from when the uplink message is sent by the end-user ground system (as time-stamped by the ground system in the uplink message) and the time when the downlink LACK is received by the end-user ground system for the 95 percent.

SL1 ATN B1 and ATS B2 Expiration Time (ET) is defined as the maximum time at which 99 (for ATN B1) or 99.5 (for ATS B2) percent of all transactions, that are initiated, are completed, after which the initiator is required to revert to an alternative procedure.

It is computed as the time from when the uplink message is sent by the end-user ground system (as time-stamped by the ground system in the uplink message) and the time when the downlink LACK is received by the end-user ground system for the 99 or 99.5 percent.

The achieved performance values for the reported period are:

Parameter	Value
TT	8.4 seconds
ET (RCP as ED-120)	6.0 seconds
ET (RCP130/A1)	5.8 seconds

Table 2: Iris SL1 latency

2.2 Technical Continuity

SL1 Technical Continuity and SL1 ATN B1/SL1 ATS B2 Technical Continuity is defined as probability that a transaction completes before the Transaction Time (TT) (for SL1 Technical Continuity), or the Expiration Time (ET) (for SL1 ATN B1/SL1 ATS B2 Technical Continuity) expires.

It is computed as the number of uplink messages requiring a LACK (ACK = 1) for which a DM100 LACK or a DM62 ERROR response is received within the ET target value (as per the Iris SDD) or less / total number of uplinks requiring a LACK (ACK = 1).

The achieved performance values for the reported period are:

Parameter	Value
С [ТТ]	98.98%
C [ET (RCP as ED-120)]	99.68%
C [ET (RCP130/A1)]	100%

Table 3: Iris SL1 Technical Continuity

The following figure presents the delays of the messages for Service level 1, both RCP as ED-120 and RCP130/A1, for the percentile between 90% and 100%.

ESSP-TN-38020

Iss. 01-02

Page 6 of 14







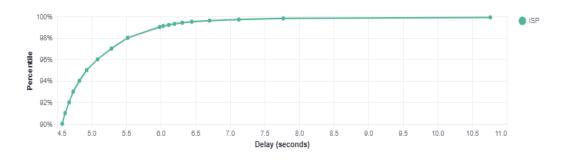


Figure 2: Cumulative performance distribution for ISP (SL1), for March 2025

The following maps present the delays displayed over the service area.



Figure 3: SL1 TT - March 2025

ESSP-TN-38020

Iss. 01-02

Page 7 of 14







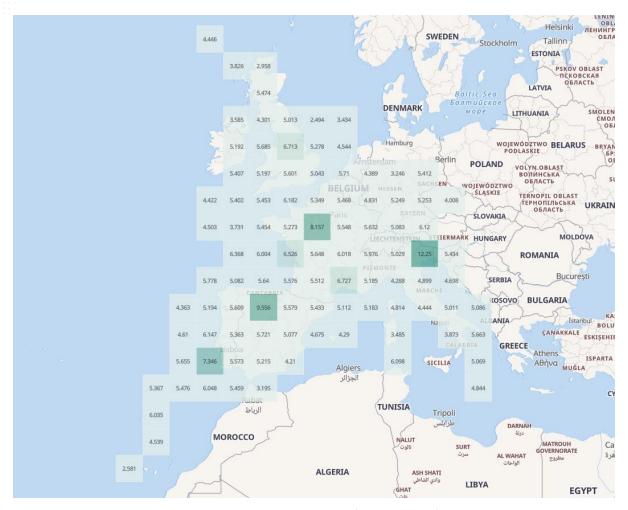


Figure 4: SL1 ET - March 2025 (RCP as ED-120)

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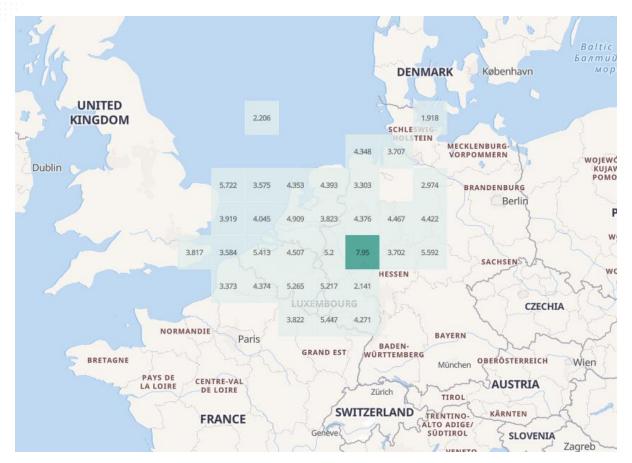


Figure 5: SL1 ET - March 2025 (RCP130/A1)

2.3 Performance evolution

The following table shows the evolution of the previously presented performance parameters for last 6 months.

Parameter	2024-10	2024-11	2024-12	2025-01	2025-02	2025-03
SL1 Nominal Transaction Time	8.5s	8.5s	8.5s	8.6s	8.4s	8.4s
SL1 ATN B1 Expiration Time	10.1s	10.1s	6.1s	9.9s	6.1s	6.0s
SL1 ATS B2 Expiration Time	7.1s	6.6s	8.9s	7.1s	6.2s	5.8s
SL1 Technical Continuity	98.33%	98.73%	98.85%	98.91%	98.86%	98.98%
SL1 ATN B1 Technical Continuity	99.12%	99.43%	99.75%	99.67%	99.62%	99.68%
SL1 ATS B2 Technical Continuity	100%	99.67%	99.74%	100%	100%	100%

Table 4: Iris SL1 performance - 6 months evolution



ESSP-TN-38020

Iss. 01-02

Page 9 of 14





3 IRIS ATN/OSI SERVICE LEVEL 2 (SL2)

Iris ATN/OSI Service Level 2 corresponds to the Automatic Dependent Surveillance – Contract (ADS-C). A mean by which the terms of an ADS-C agreement will be exchanged between the ground system and the aircraft, via a data link, specifying under what conditions ADS-C reports would be initiated, and what data would be contained in the reports.

3.1 Delivery time

SL2 Surveillance nominal delivery time (DT) is defined as the maximum nominal time within which 95% of surveillance data deliveries are required to be successfully delivered.

It is computed as the time from when the downlink message is sent by the aircraft (as time-stamped by the aircraft system in the Basic Group downlink message) and the time when the downlink message is received by the Organization ground system for the 95 percent.

SL2 overdue delivery time of surveillance data (OT) is defined as maximum time for the overdue delivery time of surveillance data at which 99.5 percent of all transactions, that are initiated, are completed, after which the initiator is required to revert to an alternative procedure.

It is computed as the time from when the downlink message is sent by the aircraft (as time-stamped by the aircraft system in the Basic Group downlink message) and the time when the downlink message is received by the Organization ground system for the 99.5 percent.

The achieved performance values for the reported period are:

Parameter	Value
DT	5.6 seconds
ОТ	6.8 seconds

Table 5: Iris SL2 Delivery time

3.2 Technical Continuity

SL2 Technical Continuity is defined as probability that a transition completes before the Delivery Time, or the Surveillance overdue delivery time (OT) expires.

It is computed as the number of ADS-C downlink messages which are forwarded to the Organization within the target value (as per the Iris SDD) or less / total number of ADS-C downlink messages.

The achieved performance values for the reported period are:

Parameter	Value
C [DT]	100%
C [OT]	100%

Table 6: Iris SL2 Technical Continuity

The following figure presents the delivery time of the messages for the Service level 2, for the percentile between 90% and 100%.

ESSP-TN-38020

Iss. 01-02

Page 10 of 14







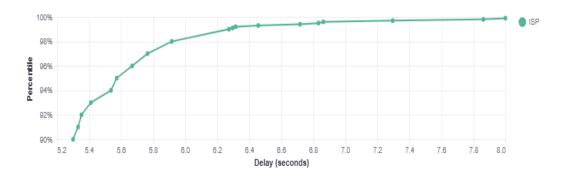


Figure 6: Cumulative performance distribution for ISP (SL2), for March 2025

The following maps present the delivery time displayed over the service area.

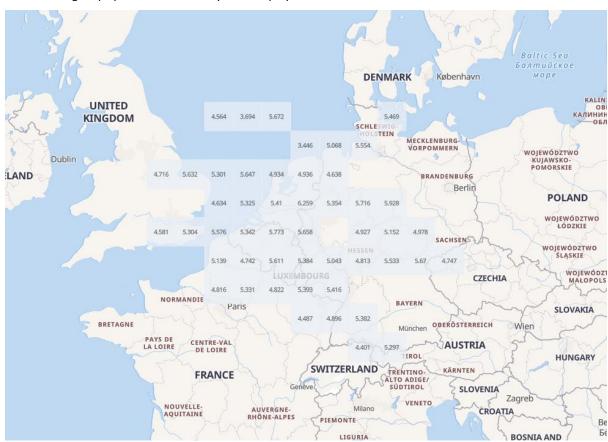


Figure 7: SL2 DT - March 2025











Figure 8: SL2 OT - March 2025

3.3 Performance evolution

The following table shows the evolution of the previously presented performance parameters for last 6 months.

Parameter	2024-10	2024-11	2024-12	2025-01	2025-02	2025-03
SL2 Nominal Delivery Time	5.5s	7.7s	5.5s	7.3s	6.7s	5.6s
SL2 Overdue Delivery Time	7.9s	8.8s	7.7s	8.4s	8.5s	6.8s
SL2 Technical Continuity	100%	99.55%	100%	99.87%	99.82%	100%
SL2 Technical Continuity	100%	99.85%	100%	100%	100%	100%

Table 7: Iris SL2 performance - 6 months evolution



ESSP-TN-38020

Iss. 01-02

Page 12 of 14





APPENDIX A LIST OF ACRONYMS

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

Acronym	Definition					
ACC	Air Control Center					
ADS-C	Automated Dependent Surveillance- Contract					
ATC	TC Air Traffic Control					
ATN	Aeronautical Telecommunication Network					
ATS	Application Transport Service					
B1	Baseline 1					
B2	Baseline 2					
CM	Context Management					
CPDLC	Controller Pilot Data Link Communications					
DM Downlink Message						
DT	Delivery Time					
ESSP	European Satellite Services Provider					
ET	Expiration Time					
IDRP	Inter-Domain Routing Protocol					
ISP	Iris Service Provider					
OSI	Open System Interconnection					
OT	Overdue Time					
RCP	Required Communications Performance					
RSP	Required Surveillance Performance					
SDD	Service Definition Document					
SL	Service Level					
TP	Transport Protocol					
TT	Transaction Time					

ESSP-TN-38020

Iss. 01-02

Page 13 of 14







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ESSP-TN-38020

Iss. 01-02

Page 14 of 14

