



SCRAG/26 - REPORT

# **International Civil Aviation Organization**

**REPORT OF**

**THE TWENTY-SIXTH MEETING OF THE  
SECURE AVIATION DATA INFORMATION SERVICE  
(SADIS) COST RECOVERY ADMINISTRATIVE GROUP  
(SCRAG/26)**

**Virtual, 3 December 2025**

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## INTRODUCTION

### Place and Duration

1. The Twenty-Sixth Meeting of the Secure Aviation Data Information Service (SADIS) Cost Recovery Administrative Group (SCRAG) was conducted virtually on Tuesday, 3 December 2025.

### Attendance

2. The 3 December 2025 meeting was attended by the following Members from the Regions: Mr. Matthias Garke from the European Region, Mr. Kouakou Konan Khan Chrisn from the AFI Region and Mr. Michael Berechree from the Asia Pacific Region. Also in attendance were the Provider State participants and ICAO representatives. The list of attendees is shown in Appendix A and the working papers issued for the meeting are listed in Appendix B.

### Officers and Secretariat

3. Mr. Matthias Garke, from the European Region, served as Chairperson for the meeting. Ms. Joanna Zorbas, Joint Financing Officer, ICAO Headquarters in Montréal, served as Secretary.

### Agenda

4. The following agenda was adopted:

**Agenda Item 1:** Review of SCRAG's Terms of Reference, Composition and Working Arrangements

**Agenda Item 2:** Consideration of issues relevant to the SCRAG's work addressed by the Meteorology Panel (METP) Working Group on Meteorological Operations Group (WG-MOG)

**Agenda Item 3:** Review of actual SADIS costs and cost-shares for the period 1 January to 31 December 2024

**Agenda Item 4:** Review of estimated SADIS costs and cost-shares for the period 1 January to 31 December 2026 and estimated costs for the next two to five years

**Agenda Item 5:** Review of the status of SADIS payments for the current year (2025) invoices

**Agenda Item 6:** Amendments to Annexes of the SADIS Agreement

**Agenda Item 7:** Future work and arrangements for the SCRAG/27 Meeting

**Agenda Item 8:** Other business

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**AGENDA ITEM 1: REVIEW OF SCRAG’S TERMS OF REFERENCE, COMPOSITION AND WORKING ARRANGEMENTS**

1.1 Mr. Matthias Garke (Germany), from the European region participated in the capacity of Chairperson for the SCRAG/26 meeting.

1.2 Article VII, paragraph II of the SADIS Agreement States that the SCRAG shall be composed of one Party from each region and that regions, which are in the aggregate, are responsible for more than 50 per cent of the total current assessments, shall nominate an additional Party. The Group was informed that the European Region surpassed the 50 per cent aggregated total of current assessments and that the nomination of a member from the Asia region has currently been filed with Mr. Michael Berechree.

1.3 The Group noted its Terms of Reference, assigned by Article VII of the SADIS Agreement, which reads:

“The SADIS Cost Allocation and Recovery (SCAR) arrangement shall be administered by a group, the *SADIS Cost Recovery Administrative Group* (SCRAG) which shall:

- a) assess the annual cost-share attributable to each Party, including reassessments arising from new Parties adhering to this Agreement; and
- b) audit the costs of the SADIS provision, and any related financial activities, incurred by the Provider State and subject to cost sharing.”

1.4 The Group was informed that ICAO had received a formal notification of accession to the SADIS Agreement from 72 States. Three of these States are not presently receiving the service and 13 of these States are Least Developed Countries (LDCs), which are exempt from payment of SADIS cost share. The Group was also informed that 50 other States receiving the SADIS service had not yet acceded to the SADIS Agreement. Of these States, 22 are LDCs. States that have formally acceded to the SADIS Agreement and States that have not, are listed in Appendix C.

1.5 The Group discussed encouraging the Accession of States to the SADIS Agreement. In this regard, the following conclusion was formulated:

***SCRAG Conclusion 26/1 —***

*The SADIS Manager will liaise with the Met Officers in the ICAO Regional Offices and present information to the relevant Planning and Implementation Regional Group (PIRG) meetings to encourage States who have not yet acceded to the SADIS agreement to do so.*

***SCRAG Conclusion 26/2 —***

*The ICAO Secretariat will liaise with ICAO Regional Offices to facilitate coordination with the PIRGS in order to ensure adequate regional representation of Parties to administer the SADIS SCRAG.*

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**AGENDA ITEM 2: CONSIDERATION OF ISSUES RELEVANT TO THE SCRAG'S WORK ADDRESSED BY THE METEOROLOGY PANEL (METP) WORKING GROUP ON METEOROLOGICAL OPERATIONS GROUP (WG-MOG)**

2.1 The Group was informed of the main conclusions of the Thirtieth Meeting of the Meteorology Panel (METP) Working Group on Meteorological Operations Group (WG-MOG) for SADIS (METP WG-MOG/30), held in Kansas City, United States on 4 and 5 June 2025) provided by the workstream lead of the METP WG-MOG.

2.2 In accordance with Action 30/02 of METP WG-MOG/30, the Group noted the Statement of SADIS operational efficacy received from the Rapporteur of the METP WG-MOG, relaying the information from the Group at its Thirtieth Meeting to the SCRAG, that the operational efficacy of the SADIS had continued to be satisfactory, meeting all operational requirements since the METP WG-MOG/26 Meeting (Exeter, United Kingdom, 6 and 7 June 2024).

2.3 The following actions and decisions relating to the SADIS Service were documented in the report of the METP WG-MOG/30:

**Action 30/01 — Terms of Reference**

That terms of reference are published on METP Public website, once finalised.

*Status: Pending – technical difficulties at ICAO have delayed this task.*

A SADIS Management report, relating to the SADIS FTP and SADIS API, was presented to the meeting and the following decision reached:

**Decision 26/01 – SADIS Management Report**

That, the operations of the SADIS Provider State continues to meet the specification outlined in the Terms of Reference.

The results of the ICAO hosted SADIS “State level” Operational Efficacy questionnaire for 2024 were presented, with participation comparable to the previous year. Respondents were generally satisfied with the SADIS service. The following were agreed:

**Action 30/02 – 2024 SADIS FTP Efficacy Survey Results**

That, the 2024 SADIS FTP efficacy survey results as given in Appendix D to the [MOG30] report will be published on the METP Public website.

*Status: Pending – technical difficulties at ICAO have delayed this task.*

**Action 30/03 – 2025 SADIS FTP Efficacy Survey**

That,

- a) the SADIS FTP efficacy questionnaire, using all of the questions given in the Appendix E [to the MOG30], is used for the 2025 survey;
- b) the survey will commence on 1 July 2025 and end on 31 December 2025;

- c) users will be notified of the survey via SADIS administrative messages and e-mail; and
- d) the Secretariat will inform the ICAO Regional Office of the survey and ask them to issue a State Letter to encourage to participate in the survey. The State Letter should include a copy of the questions shown in Appendix E to this [the MOG30] report.

***Status: The 2025 survey is in progress.***

#### **Action 30/04 – 2025 SADIS API Survey**

That, the SADIS manager prepare and send out an informal survey regarding the SADIS API performance to the registered SADIS API users on 1 November 2025 (followed by reminders) to seek information on how they are getting on using the SADIS API service.

***Status: The 2025 survey is in progress.***

#### **Conclusion 30/01 – Annual statement of operational efficacy of SADIS 2024/2025**

That, the Rapporteur of the METP WG-MOG be invited to inform the Secretary of the SCRAG that SADIS continued to meet the operational requirements during the period 2024/2025.

***Status: Complete, see appendix A***

Documentation relating to SADIS was reviewed and updated. The following actions in relation to the Implementation of SADIS, SADIS Agreement Annexes, Job Card, and SADIS User guide were agreed:

#### **Action 30/05 – Status of Implementation of SADIS**

That, the ICAO Secretariat be invited to make available the updated Status of Implementation of SADIS document, as given in Appendix G to this [the MOG 30] meeting report, on the ICAO METP Public website, once it is finalised.

***Status: Pending – technical difficulties at ICAO have delayed this task.***

#### **Action 30/07 – Job Card 8**

That an ad hoc group comprising of the WAFCs, ICAO Secretariat, IATA, Rebecca Kotten, Marcel Sander, Jeffrey Osiensky and Kenneth Cheung, and led by W AFC London, will develop and refine a proposed update to Job Card METP.008, building on the initial draft shown in Appendix H [to the MOG30 report]. This activity should be carried out at the same time as the equivalent action from the MOG/29 WAFS meeting to update Job Card 008.

The updated job card METP.010 will be presented at the MOG/WAFS meeting in 2026, for onward presentation to METP/7.

***Status: Task underway***

**Action 30/09 – SADIS Agreement Annex I and II 2025**

That, the Rapporteur of the METP-WG/MOG be invited to forward the updated SADIS Agreement Annex I and II, as given in Appendixes I and J to this [the MOG30] report, to the Secretary of SCRAG.

*Status: technical difficulties at ICAO have delayed this task.*

*Update given at the meeting: This task is now complete, and the proposed agreements are shown in Appendix I and J to this SCRAG report.*

**Action 30/11 – SADIS API User Guide**

That the version 1.05 of the SADIS API User Guide to this report is published on the ICAO METP Public website, replacing the previous version.

*Status: technical difficulties at ICAO have delayed this task.*

*Update given at the meeting: this task is now complete.*

A number of other matters relating to SADIS were discussed and the following actions agreed:

**Action 30/06 – OPMET data naming convention on SADIS API and WIFS API**

That, the SADIS gateway manager will update the WG-MOG about the intended course of action on OPMET data naming convention on SADIS and WIFS API, as soon as it is determined.

*Status: Competed on SADIS API 18 Sept 2025*

**Action 30/08 – Use of OGC API**

That, subject to further investigation of the current geo webservice capabilities for the SADIS and WIFS, the SADIS manager will prepare a short statement regarding the reasons why the OGC API standard was chosen for SADIS and WIFS API over web

*Status: Complete*

**Action 30/10 – Number of future SADIS API users**

That, information on the future number of SADIS API users, and typical download profiles are presented at the next meeting of WG-MOG SADIS/WIFS Work Stream in 2026, to give context on the SADIS operating cost projections that feed into SCRAG

*Status: technical difficulties at ICAO have delayed this task.*

*Update given at the meeting: the status should have said “pending”, it will be completed during 2026.*

The OPMET content of SADIS was reviewed and compared against the data available on WIFS to identify discrepancies. A discussion was also held about how the content of the SADIS OPMET catalogue had been expanded to cater for other data types beyond METAR and TAFs. The following actions were agreed:

**Action 30/12 – SADIS OPMET Catalogue**

That;

- a) the SADIS OPMET catalogue, once finalised, is published on SADIS FTP and ICAO METP Public website, replacing the previous version; and
- b) the catalogue is updated at least annually.

***Status: technical difficulties at ICAO have delayed this task.***

**Update given at the meeting: this task is now complete.**

And finally, an action was agreed regarding the removal of old documentation published on the ICAO website.

**Action 30/13 – Old SADIS Documents**

That, the “Obtaining access to WIFS as a backup to SADIS FTP” document published on ICAO METP Public website is removed by the ICAO Secretariat.

***Status: technical difficulties at ICAO have delayed this task.***

**Update given at the meeting: this task is now complete.**

2.4 The Group formulated the following Conclusion:

***SCRAG Conclusion 26/3 —***

*The Group recommended that the Chair of the METP-WG/MOG forward the Annual Statement of Operational Efficacy to the Secretary of the SCRAG, who in turn, will send the report to the Chairperson of the SCRAG subsequent to their nomination at the start of the annual SCRAG meeting.*

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**AGENDA ITEM 3: REVIEW OF ACTUAL SADIS COSTS AND COST-SHARES FOR THE PERIOD 1 JANUARY TO 31 DECEMBER 2024**

**Review of the 2024 Actual SADIS Costs**

3.1 The Group reviewed the actual costs of £ 562 803 for providing the SADIS services in the year 2024. These actual costs are detailed in Appendix E, Column “Actual 2024” and the cost-share per State is presented in Column 4 of Appendix D. A summary of these costs is presented in **Table 1 (A)**.

**TABLE 1 (A)**  
**SUMMARY OF ACTUAL SADIS COSTS**  
**FOR THE PERIOD 1 JANUARY TO 31 DECEMBER 2024**

<b>Cost Item</b>	<b>Actual Costs (UK £)</b>
UK Met Office	207 586
UK NATS SADIS Gateway	317 681
Sub-total UK	525 267
ICAO support service costs	37 536
<b>TOTAL</b>	<b>562 803</b>

**Review of the 2024 Actual SADIS Cost-shares**

3.2 The Group determined that the actual cost-shares for the period 1 January to 31 December 2024 be borne by the States’ party to the SADIS Agreement that are not exempted from payment because they are not categorized as LDCs. On the basis of the number of available tonne-kilometres (ATKs) in scheduled services for 2024, in accordance with Article XI, paragraph 3 of the SADIS Agreement, the cost-share in percentage terms and the share in £ sterling to be borne by each State participating in the SCAR Arrangement are shown in Appendix D.

3.3 The Group noted the adjustment for 2024; an over-recovery of £59 040 represents the difference between the 2024 actual costs and the 2024 estimated costs approved by the SCRAG/24 meeting, as indicated in **Table 1 (B)**.

**TABLE 1 (B)**  
**ADJUSTMENT OF ACTUAL SADIS COSTS TO ESTIMATED SADIS COSTS**  
**FOR THE PERIOD 1 JANUARY TO 31 DECEMBER 2024**

	<b>Cost Item</b>	<b>Actual Costs (UK £)</b>	<b>Reference</b>
(1)	2024 Actual Cost	562 803	<b>Table 1 (A)</b>
(2)	2024 Estimated Cost	621 843	SCRAG/24 Report, <b>Table 3</b>
(3)	Over-recovery for 2024 (to be subtracted from the amount billed in 2026)	-59 040	(1) - (2) <i>(see Appendix D, column 6 and Appendix H, column 2)</i>

3.4 The Group formulated the following Conclusion:

**SCRAG Conclusion 26/4 —**

*In accordance with Article XI, paragraph 3, of the SADIS Agreement, the SCRAG/26 meeting approves the actual cost-shares for 2024, as shown in Appendix D to the SCRAG/26 Report for the States participating in the SCAR Arrangement.*

3.5 The Group received information from the Observer from the United Kingdom, on the status of payment of the cost-shares of 2024, as of 6 November 2025. It was noted that a total amount of £ 685 370.24 was collected for 2024 (see Appendix F, page F-2). A balance of £ 504.42, which represents the sum of five States with balances owed, remains outstanding. Outstanding 2024 credits total £ 2 638.63, resulting in a net credit balance of £ 2 134.21, as indicated in the final column of Appendix F, page F-2.

3.6 The Group noted that, consistent with Conclusion 14/7, which was reached during the SCRAG/14 meeting, the small additional costs incurred in the process of obtaining payment of SADIS invoices (these include bank charges and courier costs), have been added to the administrative costs for the SADIS Provider State.

3.7 Having noted the information in **Table 1 (A)**, and paragraphs 3.2 to 3.6 above, the Group agreed that the under-recovery of SADIS cost-shares for the year 2024 amounts to £ 114 555, as shown in **Table 2** below. The over-recovery of 2024 is the amount subject to collection for 2024 (£ 570 815), less the amounts collected for 2024 and prior years £ 685 370.

**TABLE 2  
OVER-RECOVERY FOR 2024**

		UK £	References
(1)	Actual costs for 2024	562 803	<b>Table 1 (A)</b>
(2)	Under-recovery for 2022	8 012	SCRAG/24 Report, <b>Table 2</b>
(3)	Subject to collection for 2024	570 815	(1) + (2)
(4)	Collected from States for 2024 (as of 6 November 2025)	-685 370	Appendix F – page F-2 (column 3 minus column 5)
(5)	Collected from States for years prior to 2024 (as of 6 November 2025)	0	Appendix F – page F-3 (column 3)
(6)	Over-recovery for 2024 (to be subtracted from the assessments for 2026)	-114 555	(3) + (4) + (5) (see Appendix G, column 5)

3.8 The Group formulated the following Conclusion:

**SCRAG Conclusion 26/5 —**

*An over-recovery, amounting to £114 555 of the SADIS cost-shares for the year 2024, will be taken into account in the calculation of the SADIS cost-shares for the year 2026, in accordance with Article XI, paragraph 4, of the SADIS Agreement.*

**AGENDA ITEM 4: REVIEW OF ESTIMATED SADIS COSTS AND COST-SHARES FOR THE PERIOD 1 JANUARY TO 31 DECEMBER 2026 AND ESTIMATED COSTS FOR THE NEXT TWO TO FIVE YEARS**

**Review of the 2026 Estimated SADIS Costs**

4.1 The cost estimates for 2026 are detailed in the column “Est 2026”, in Appendix E, and total £ 652 210. A summary of these costs is presented in **Table 3**.

**TABLE 3**  
**SUMMARY OF ESTIMATED SADIS COSTS**  
**FOR THE PERIOD 1 JANUARY TO 31 DECEMBER 2026**

<b>Cost Item</b>	<b>Estimated Costs (UK £)</b>
UK Met Office	275 200
UK NATS SADIS Gateway	344 859
Sub-total UK	620 059
ICAO support services costs	32 151
<b>TOTAL</b>	<b>652 210</b>

4.2 The SADIS provider explained that the whole of the SADIS API is now operational (the WAFS gridded and OPMET parts from March 2024, and the SIGWX part from March 2025), and the number of users signed up to use the SADIS API is steadily increasing. Operating costs for the SADIS FTP are expected to decrease during 2027 and 2028, ahead of the SADIS FTP being retired at the end of 2028. It is important to note that if it had been possible to add the new higher resolution WAFS data sets to the SADIS FTP, it would have led to a very large increase in the FTP operating costs, however there is no way to make the SADIS FTP adhere to ICAO System Wide Information Management (SWIM) standards, or even to make it technically handle the large volumes of data involved.

4.3 The Group considered the under-recovery in **Table 2** in the calculation of the amount to be assessed under the SADIS Agreement for 2026. The calculation of the amount to be assessed is presented in **Table 4**.

**TABLE 4**  
**AMOUNT TO BE ASSESSED UNDER THE SADIS AGREEMENT FOR 2025**

		<b>UK £</b>	<b>References</b>
(1)	Over-recovery for 2024	-114 555	<b>Table 2</b>
(2)	Estimated costs for 2026	652 210	<b>Table 3</b>
(3)	<b>Amount to be assessed for 2026</b>	<b>537 655</b>	(1) + (2) <i>(see Appendix G, column 6)</i>

4.4 The Group determined that the cost-shares for the period 1 January to 31 December 2026, be borne by the States’ party to the SADIS Agreement that are not exempted from payment because they are on the list of the Least Developed Countries (LDCs), on the basis of the number of ATKs in scheduled services for 2024, in accordance with Article XI, paragraph 3, of the SADIS Agreement.

4.5 The cost-share, in percentage terms and the share in £ sterling, plus the share of under-recovery for 2024, attributable to each State, are shown in Appendix G. Appendix H shows the amounts to be billed to each State in 2026, corresponding to the adjustment for 2024 (Appendix D), plus the assessment for 2026 (Appendix G), less any deduction of unused credit balances or other adjustments from previous years.

**TABLE 5**  
**AMOUNT TO BE BILLED UNDER THE SADIS AGREEMENT FOR 2026**

		UK £	References
(1)	Amount to be Assessed for 2026	537 655.00	<b>Table 4</b>
(2)	Adjustment of Actual SADIS Costs to Estimated Costs for 2024	-59 040.00	<b>Table 1 (B)</b>
(3)	Deduction of Unused Credit Balances from Previous Year or Other Adjustments	-3 169.48	Appendix H (column 4)
(4)	<b>Amount to be Billed for 2026</b>	<b>475 445.52</b>	(1)+(2)+(3) (see Appendix H, column 5)

4.6 The Group formulated the following Conclusion:

**SCRAG Conclusion 26/6 —**

*The estimated cost-shares for 2026, as shown in Appendix G to the SCRAG/26 Report for each State participating in the SCAR Arrangement, are approved by the SCRAG/26 meeting for collection by the United Kingdom.*

**Cost Estimates for the Years 2027 to 2029**

4.7 The Group considered the estimates provided by the United Kingdom (Appendix E) and summarized in **Table 6** for SADIS services for the years 2027 to 2029, as well as the estimates for the United Kingdom administrative costs and the costs of ICAO support services.

**TABLE 6**  
**SUMMARY OF ESTIMATED SADIS COSTS**  
**FOR THE YEARS 2027, 2028 AND 2029**

Cost Item	Estimated Costs 2027 (UK £)	Estimated Costs 2028 (UK £)	Estimated Costs 2029 (UK £)
UK Met Office	287 000	291 000	275 100
UK NATS SADIS Gateway	355 182	360 176	366 740
Sub-total UK	642 182	651 176	641 840
ICAO support services costs	34 000	36 000	39 000
<b>TOTAL</b>	<b>676 182</b>	<b>687 176</b>	<b>680 840</b>

4.8 Members noted and discussed the expected changes in SADIS operating costs attributable to the UK Met Office from 2027 to 2029. Appendix E shows how, during this period, both the SADIS FTP and SADIS API will be in operation and users will be migrating over to the API. Therefore, during these years, the operating costs of the API are expected to increase whilst the FTP costs decrease.

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**AGENDA ITEM 5: REVIEW OF THE STATUS OF SADIS PAYMENTS FOR THE CURRENT YEAR (2025)  
INVOICES**

5.1 The Group reviewed WP/12 on the status of payment for the current (2025) year, presented by the United Kingdom.

5.2 The Group formulated the following Conclusion:

***SCRAG Conclusion 26/7 —***

*With the assistance of ICAO Regional Met Officers, the SADIS Provider will continue to make all efforts to contact and remind the States of their outstanding payments. The Group agreed that the SADIS Provider State be invited to withdraw access to the secure SADIS FTP for those States who, as at 1200 UTC on **10 February 2026**, have cumulative outstanding payments over GBP 100 due for any invoice dated 2025 or earlier.*

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**AGENDA ITEM 6: AMENDMENTS TO ANNEXES OF THE SADIS AGREEMENT**

6.1 The Group viewed the current version of Annex I, SADIS Services, to the SADIS Agreement, which was last reviewed and updated by the METP WG-MOG SADIS in June 2025.

6.2 As a result of its review, the Group adopted the following Conclusion:

***SCRAG Conclusion 26/8 —***

*With the consent of the United Kingdom, as the SADIS Provider State, in accordance with Article XVII, paragraph 5, of the SADIS Agreement, Annex I, SADIS Services, of the SADIS Agreement is amended as indicated in Appendix I to the SCRAG/26 Report.*

6.3 The Group reviewed the current version of Annex II, SADIS Inventory, to the SADIS Agreement, which was last reviewed and updated by the METP WG-MOG SADIS in June 2025 and incorporated into the SADIS agreement after the SCRAG/26 meeting. Changes to Annex II primarily relate to adding technical components for the SIGWX part of the SADIS API which became operational in March 2025.

6.4 As a result of its review, the Group adopted the following Conclusion:

***SCRAG Conclusion 26/9 —***

*With the consent of the United Kingdom, as the SADIS Provider State, in accordance with Article XVII, paragraph 5, of the SADIS Agreement, Annex II, SADIS Inventory, of the SADIS Agreement is amended as indicated in Appendix J to the SCRAG/26 Report.*

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**AGENDA ITEM 7: FUTURE WORK AND ARRANGEMENTS FOR THE SCRAG/27 MEETING**

7.1 The Group determined the provisional location and date for the Twenty-Seventh SCRAG meeting to be held 9 December 2026 in the United Kingdom or virtually, and it was noted that if an in-person meeting is held, it will also be hosted virtually to enable remote attendance.

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**AGENDA ITEM 8: OTHER BUSINESS**

8.1 The Group expressed its appreciation for the assistance provided by the UK Met Office in conducting the virtual meeting.

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## APPENDIX A

### LIST OF PARTICIPANTS

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**APPENDIX B**

**LIST OF SCRAG/26 WORKING PAPERS**

Working Paper No.	Agenda Item	Subject	Presented by
1	1 to 9	Provisional agenda	Secretariat
2	1, 3 & 4	Status of accession to the SADIS Agreement	Secretariat
3	2, 4 & 6	Outcomes from METP WG-MOG/30 meeting relating to SADIS	United Kingdom
4	3	2024 ICAO actual SADIS administrative costs	Secretariat
5	3	2024 actual SADIS costs	United Kingdom
6	3	Status of payments for the year 2024	United Kingdom
7	3	Summary of actual costs and cost-shares for the year 2024	Secretariat
8	4	2026 ICAO estimated SADIS administrative costs	Secretariat
9	4	Estimated SADIS costs: two to five years	United Kingdom
10	4	Summary of estimated costs and assessments for the year 2026	Secretariat
11	6	Amendment to Annex II, SADIS Inventory to the SADIS Agreement	Secretariat
12	5	Status of payments for the current (2025) year	United Kingdom
13	6	Amendments to Annex I of the SADIS Agreement	United Kingdom
14	5	Credit balances	Secretariat

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Appendix C-1

STATES WHICH FORMALLY ACCEDED TO THE SADIS AGREEMENT

STATES	LDC's Exempted
Albania	
Armenia	
Australia	
Austria	
Bahrain	
Bangladesh	X
Belgium	
Botswana	
Cameroon	
Congo	
Côte d'Ivoire	
Croatia	
Cyprus	
Czechia	
Democratic People's Republic of Korea *	
Democratic Republic of the Congo	X
Denmark	
Egypt	
Estonia	
Finland	
France	
Gabon	
Gambia	X
Georgia	
Germany	
Greece	
Hungary	
Israel	
Italy	
Jordan	
Kazakhstan	
Kuwait	
Kyrgyzstan	
Lao People's Democratic Republic	X
Latvia	
Lesotho	X
Lithuania	
Madagascar	X
Malta	
Mauritius	
Mongolia *	
Morocco	
Netherlands	
Norway	
Oman	
Pakistan	
Poland	
Portugal	
Republic of Moldova	
Romania	
Senegal	X
Serbia	
Slovakia	
Slovenia	

\* Although they formally acceded to the SADIS Agreement, these States do not presently receive the service.

## Appendix C-1 (cont'd)

**STATES WHICH FORMALLY ACCEDED TO THE SADIS AGREEMENT**

Somalia	X
Spain	
Sweden	
Switzerland	
Tajikistan	
Thailand	
Togo	X
Tunisia	
Turkmenistan *	
Uganda	X
Ukraine	
United Arab Emirates	
United Kingdom	
United Republic of Tanzania	X
Uzbekistan	
Viet Nam	
Yemen	X
Zambia	X

\* Although they formally acceded to the SADIS Agreement, these States do not presently receive the service.

Appendix C-2

STATES WHICH HAVE NOT YET ACCEDED TO THE SADIS AGREEMENT

STATES	LDC's Exempted
Algeria	
Angola	X
Azerbaijan	
Benin	X
Bhutan	
Bosnia and Herzegovina	
Bulgaria	
Burkina Faso	X
Burundi	X
Cabo Verde	
Cambodia	X
Central African Republic	X
Chad	X
Comoros	X
Djibouti	X
Equatorial Guinea	
Eswatini	
Ethiopia	X
Ghana	
Guinea	X
Guinea-Bissau	X
Iceland	
India	
Indonesia	
Ireland	
Kenya	
Liberia	X
Libya	
Luxembourg	
Malawi	X
Maldives	
Mali	X
Mauritania	X
Montenegro	
Mozambique	X
Namibia	
Niger	X
Nigeria	
North Macedonia	
Qatar	
Rwanda	X
Sao Tome and Principe	
Saudi Arabia	
Seychelles	
Somalia	X
South Africa	
South Sudan	X
Sudan	X
Turkey	
Zimbabwe	

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ACTUAL COST SHARES FOR THE PERIOD 1 JANUARY TO 31 DECEMBER 2024\*  
AND ADJUSTMENT FOR 2024

STATES	2024 Available Tonne-Kilometres in Scheduled Services (000)	Percentage Cost Share	Share of 2024 Actual Costs (£ Sterling)	Share of 2024 Estimated Costs SCRAG/24 Appendix G (£ Sterling)	Adjustment for 2024 (£ Sterling)
Albania (note 1)	90 719	0.013%	72.19	44.86	27.33
Algeria	1 258 092	0.178%	1 001.15	1 427.77	- 426.62
Armenia	299 867	0.042%	238.63	1 096.14	- 857.51
Australia	22 347 349	3.160%	17 783.37	19 042.75	- 1 259.38
Austria (note 2)	7 213 207	1.020%	5 740.06	8 095.77	- 2 355.71
Azerbaijan	3 706 322	0.524%	2 949.38	611.24	2 338.14
Bahrain	4 292 128	0.607%	3 415.55	4 430.02	- 1 014.47
Belgium (note 1)	30 573 143	4.323%	24 329.22	8 697.27	15 631.95
Bosnia and Herzegovina	454	0.000%	0.36	0.00	0.36
Botswana	25 419	0.004%	20.23	23.41	- 3.18
Bulgaria	114 436	0.016%	91.06	107.48	- 16.42
Cabo Verde	65 721	0.009%	52.30	20.42	31.88
Cameroon	28 111	0.004%	22.37	22.50	- 0.13
China:		0.000%	0.00	0.00	0.00
- Hong Kong	28 705 798	4.059%	22 843.24	13 623.35	9 219.89
- Macao	871 301	0.123%	693.36	180.56	512.80
Congo (note 1)	32 360	0.005%	25.75	22.54	3.21
Côte d'Ivoire	8 374	0.001%	6.66	249.30	- 242.64
Croatia	208 638	0.030%	166.03	210.85	- 44.82
Cyprus	141 222	0.020%	112.38	327.54	- 215.16
Czechia	614 491	0.087%	488.99	598.76	- 109.77
Denmark	2 363 586	0.334%	1 880.87	3 863.91	- 1 983.04
Egypt (note 2)	7 059 152	0.998%	5 617.47	6 147.78	- 530.31
Equatorial Guinea	5 658	0.001%	4.50	18.27	- 13.77
Estonia (note 1)	431 658	0.061%	343.50	0.00	343.50
Eswatini	6 336	0.001%	5.04	0.82	4.22
Finland	5 563 869	0.787%	4 427.57	5 489.14	- 1 061.57
France	37 914 801	5.361%	30 171.50	39 420.71	- 9 249.21
Gabon (note 1)	31 576	0.004%	25.13	34.18	- 9.05
Georgia	247 478	0.035%	196.94	73.46	123.48
Germany	45 908 794	6.491%	36 532.89	47 179.31	- 10 646.42
Ghana	23 181	0.003%	18.45	30.47	- 12.02
Greece	2 640 235	0.373%	2 101.02	2 353.73	- 252.71
Hungary	11 019 203	1.558%	8 768.76	10 678.69	- 1 909.93
Iceland	2 138 304	0.302%	1 701.60	37.45	1 664.15
India	36 814 968	5.205%	29 296.29	30 496.03	- 1 199.74
Indonesia	13 039 898	1.844%	10 376.77	10 631.59	- 254.82
Ireland	27 601 932	3.903%	21 964.82	27 120.05	- 5 155.23
Israel	4 537 650	0.642%	3 610.93	4 104.64	- 493.71
Italy (note 2)	6 120 831	0.865%	4 870.78	5 917.76	- 1 046.98
Jordan	1 783 526	0.252%	1 419.28	1 767.56	- 348.28
Kazakhstan (note 2)	2 607 487	0.369%	2 074.96	2 077.70	- 2.74
Kenya	3 103 731	0.439%	2 469.86	2 911.53	- 441.67
Kuwait	2 631 875	0.372%	2 094.37	2 602.34	- 507.97
Kyrgyzstan	319 190	0.045%	254.00	303.32	- 49.32
Latvia	1 072 356	0.152%	853.35	928.60	- 75.25
Libya (note 1)	561 136	0.079%	446.54	352.82	93.72
Lithuania	1 568	0.000%	1.25	0.47	0.78

**ACTUAL COST SHARES FOR THE PERIOD 1 JANUARY TO 31 DECEMBER 2024\*  
AND ADJUSTMENT FOR 2024**

STATES	2024 Available Tonne-Kilometres in Scheduled Services (000)	Percentage (000)	Share of 2024 Actual Costs (£ Sterling)	Share of 2024 Estimated Costs SCRAG/24 Appendix G (£ Sterling)	Adjustment for 2024 (£ Sterling)
Luxembourg	11 393 631	1.611%	9 066.72	14 482.56	- 5 415.84
Maldives (note1)	143 373	0.020%	114.09	114.42	- 0.33
Malta (note 2)	235 701	0.033%	187.56	674.66	- 487.10
Mauritius	1 279 139	0.181%	1 017.90	1 071.69	- 53.79
Montenegro	43 090	0.006%	34.29	40.11	- 5.82
Morocco	4 129 470	0.584%	3 286.11	3 956.50	- 670.39
Namibia	5 397	0.001%	4.29	13.68	- 9.39
Netherlands	20 175 603	2.853%	16 055.16	22 501.78	- 6 446.62
Nigeria (note 2)	550 830	0.078%	438.33	542.56	- 104.23
North Macedonia (note 4)	0	0.000%	0.00	0.00	0.00
Norway	4 645 122	0.657%	3 696.45	4 016.54	- 320.09
Oman	3 042 835	0.430%	2 421.40	1 256.68	1 164.72
Pakistan	2 440 180	0.345%	1 941.82	2 603.55	- 661.73
Poland	3 253 888	0.460%	2 589.35	3 357.17	- 767.82
Portugal	6 415 128	0.907%	5 104.97	5 746.80	- 641.83
Qatar	57 220 414	8.091%	45 534.35	56 288.29	- 10 753.94
Republic of Moldova	259 401	0.037%	206.42	240.88	- 34.46
Romania	727 666	0.103%	579.06	643.56	- 64.50
Saudi Arabia	14 533 341	2.055%	11 565.21	12 923.29	- 1 358.08
Senegal (note 1)	371 791	0.053%	295.86	508.99	- 213.13
Serbia	825 697	0.117%	657.07	626.45	30.62
Seychelles	52 483	0.007%	41.76	65.66	- 23.90
Slovakia	20 344	0.003%	16.19	0.44	15.75
Slovenia (note 3)	0	0.000%	0.00	0.23	- 0.23
South Africa	1 888 381	0.267%	1 502.72	1 785.69	- 282.97
Spain (note 2)	21 844 667	3.089%	17 383.35	21 750.07	- 4 366.72
Sweden (note 2)	2 116 619	0.299%	1 684.34	1 613.39	70.95
Switzerland	11 957 322	1.691%	9 515.29	10 851.48	- 1 336.19
Tajikistan (note 1)	298 755	0.042%	237.74	222.03	15.71
Thailand	16 649 124	2.354%	13 248.89	10 458.36	2 790.53
Tunisia (note 1)	1 416 803	0.200%	1 127.45	1 155.77	- 28.32
Turkey	55 023 240	7.780%	43 785.90	47 853.61	- 4 067.71
Ukraine (note 3)	0	0.000%	0.00	484.89	- 484.89
United Arab Emirates	82 986 129	11.734%	66 037.96	74 245.13	- 8 207.17
United Kingdom	51 002 801	7.212%	40 586.65	44 219.26	- 3 632.61
Uzbekistan	2 473 977	0.350%	1 968.72	2 164.59	- 195.87
Viet Nam	11 626 585	1.644%	9 252.10	9 931.72	- 679.62
Zimbabwe (note 1)	46 263	0.007%	36.81	55.66	- 18.85
<b>TOTAL</b>	<b>707 242 321</b>	<b>100.000%</b>	<b>562 803.00</b>	<b>621 843.00</b>	<b>- 59 040.00</b>

\* Least Developed Countries are exempted.

Note 1: Fully estimated ATKs taken from OAG and payload from ICAO reference files.

Estimates determined in accordance with the process outlined in Section 5.3 of the paper.

Note 2: The total state ATKs include an estimated value for one or more airlines associated with the State or some airline data is incomplete.

Estimates determined in accordance with the process outlined in Section 5.3 of the paper.

Note 3: Two States, Slovenia and Ukraine reported only international non scheduled service during 2024.

Note 4: No ATKs were received and no data is available for North Macedonia.

**SADIS COST ESTIMATES FOR 2027 TO 2029 FOR SADIS SERVICES PROVIDED BY THE UNITED KINGDOM METEOROLOGICAL OFFICE**

TABLE 1: UKMO Cost and manpower resource projections until year 2029 (at 2025 prices)

INVENTORY REF: Note DESCRIPTION			Actual 2024	Revised Estimate 2025	Est 2026	Est 2027	Est 2028	Est 2029
<b>UK MET OFFICE COSTS</b>								
<b>1</b>	<b>Equipment</b>							
<b>Not procured principally for SADIS</b>								
	a	AWS Server running costs for SADIS FTP	35,021	36,800	37,000	35,000	25,000	0
	b	SADIS API OPMET running costs	11,440	21,400	22,000	24,000	26,000	28,000
	b	SADIS API WAFS Gridded data running costs	31,334	42,000	50,000	55,000	60,000	60,000
	b	SADIS API WAFS SIGWX running costs		18,800	20,000	24,000	28,000	30,000
		<b>Equipment sub total</b>	<b>77,795</b>	<b>119,000</b>	<b>129,000</b>	<b>138,000</b>	<b>139,000</b>	<b>118,000</b>
<b>2</b>	<b>Annual Staff Requirements</b>							
<b>Operating Support</b>								
	c	First Line Support	2,599	3,500	4,000	4,000	4,000	4,000
	d	Second Line Support	3,889	4,000	4,500	5,000	5,000	5,500
	e	Third and Fourth Line Support	10,088	20,000	20,000	20,000	20,000	20,000
<b>Additional Support</b>								
	f	Administrator	70,695	71,000	72,000	73,000	74,000	75,000
	f	International Aviation Management	8,051	8,200	8,500	8,800	8,800	9,000
	f	Contract Procurement and Management	1,906	1,600	1,800	1,800	1,800	1,900
	f	Invoice Administration	8,693	9,200	10,000	11,000	12,000	15,000
<b>Travel Costs</b>								
	g	METP-WG/MOG meetings & SCRAG	0	2,000	1,200	1,200	1,200	1,500
		<b>Staff Requirement and travel sub total</b>	<b>105,921</b>	<b>119,500</b>	<b>122,000</b>	<b>124,800</b>	<b>126,800</b>	<b>131,900</b>
<b>Administrative costs</b>								
	h	Cost of Capital	23,681	24,000	24,000	24,000	25,000	25,000
	i	Admin charges	189	200	200	200	200	200
<b>Total UKMO Costs</b>			<b>207,586</b>	<b>262,700</b>	<b>275,200</b>	<b>287,000</b>	<b>291,000</b>	<b>275,100</b>

TABLE 2: NATS and other SADIS Cost Projections until year 2029 (at 2025 prices)

INVENTORY REF: Note DESCRIPTION			Actual 2024	Revised Estimate 2025	Est 2026	Est 2027	Est 2028	Est 2029
<b>NATS Gateway Costs</b>								
<b>Staff Costs</b>								
	j	Operational Staff	261,699	276,092	282,994	289,503	295,583	301,790
	j	Engineering Staff	8,624	9,098	9,325	9,540	9,740	9,945
	j	Administration Staff	36,387	38,388	39,348	40,253	41,098	41,961
		<b>Staff Costs sub total</b>	<b>306,710</b>	<b>323,578</b>	<b>331,667</b>	<b>339,296</b>	<b>346,421</b>	<b>353,696</b>
	k	Maintenance	10,745	11,145	11,424	11,686	11,931	11,182
	l	T&RE	226	0	1,768	4,200	1,824	1,862
		<b>Total NATS Gateway Costs</b>	<b>317,681</b>	<b>334,723</b>	<b>344,859</b>	<b>355,182</b>	<b>360,176</b>	<b>366,740</b>
<b>4</b>	n	<b>ICAO Administration Costs</b>	<b>37,536</b>	<b>30,339</b>	<b>32,151</b>	<b>34,000</b>	<b>36,000</b>	<b>39,000</b>
<b>TOTAL SADIS COSTS</b>			<b>562,803</b>	<b>627,762</b>	<b>652,210</b>	<b>676,182</b>	<b>687,176</b>	<b>680,840</b>

**STATUS OF PAYMENTS OF THE ASSESSMENTS FOR 2024  
AS AT 6 NOVEMBER 2025**

STATES	(£ Sterling)				
	Total amount billed for 2024 (SCRAG/24 Report, Appendix H)	Amount Collected as at 6 November 2025	Administrative Charges Applied	Application of credit balance (or part of)	Unpaid amount (excess paid) as at 6 November 2025
Albania	0.00				0.00
Algeria	2,029.08	2,029.08			0.00
Armenia	1,846.95	1,846.95			0.00
Australia	22,234.46	22,234.46			0.00
Austria	10,873.47	10,873.47			0.00
Azerbaijan	-3,037.65			-550.97	-2 486.68
Bahrain	6,292.57	6,292.57			0.00
Belarus	-237.03			-237.03	0.00
Belgium	11,165.53	11,165.53			0.00
Bosnia and Herzegovina	-0.96				- 0.96
Botswana	39.70				39.70
Bulgaria	2.59				2.59
Cabo Verde	-97.53				- 97.53
Cameroon	0.00				0.00
China: - Beijing	-63,911.15			-63,911.15	0.00
- Hong Kong	5,669.62	5,669.62			0.00
- Macau	65.87	65.87			0.00
Congo	17.63	17.63			0.00
Côte d'Ivoire	256.92	256.92			0.00
Croatia	254.83	254.83			0.00
Cyprus	0.00				0.00
Czechia	680.00	680.00			0.00
Denmark	5,350.99	5,350.99			0.00
Egypt	7,453.45	7,453.45			0.00
Equatorial Guinea	8.50	8.50			0.00
Estonia	0.00				0.00
Eswatini	0.25				0.25
Finland	6,471.82	6,471.82			0.00
France	48,329.05	48,329.05			0.00
Gabon	0.00				0.00
Georgia	25.55	25.55			0.00
Germany	60,909.47	60,909.47			0.00
Ghana	29.21	29.21			0.00
Greece	3,145.44	3,145.44			0.00
Hungary	14,111.47	14,111.47			0.00
Iceland	-667.12			-667.12	0.00
India	36,430.72	36,430.72			0.00
Indonesia	6,756.13	6,756.13			0.00
Iraq	407.90				407.90
Ireland	35,764.68	35,764.68			0.00
Israel	4,345.81	4,345.81			0.00
Italy	6,151.45	6,151.45			0.00
Jordan	1,606.84	1,606.84			0.00
Kazakhstan	2,294.36	2,294.36			0.00
Kenya	3,391.00	3,391.00			0.00
Kuwait	3,348.44	3,348.44			0.00
Kyrgyzstan	321.19	321.19			0.00

**STATUS OF PAYMENTS OF THE ASSESSMENTS FOR 2024  
AS AT 6 NOVEMBER 2025 cont.**

(£ Sterling)					
STATES	Total amount billed for 2024 (SCRAG/24 Report, Appendix H)	Amount Collected as at 6 November 2025	Administrative Charges Applied	Application of credit balance (or part of)	Unpaid amount (excess paid) as at 6 November 2025
Latvia	1,169.50	1,169.50			0.00
Libya	421.47	380.20			41.27
Lithuania	-16.12				- 16.12
Luxembourg	12,038.70	12,038.70			0.00
Maldives	29.90			17.19	12.71
Malta	954.45	954.45			0.00
Mauritius	1,309.81	1,309.81			0.00
Montenegro	68.02	68.02			0.00
Morocco	5,184.03	5,184.03			0.00
Namibia	0.00				0.00
Netherlands	20,224.08	20,224.08			0.00
Nigeria	456.65	456.65			0.00
North Macedonia	-27.96				- 27.96
Norway	4,689.86	4,689.86			0.00
Oman	451.46	451.46			0.00
Pakistan	2,558.54	2,558.54			0.00
Poland	4,316.36	4,316.36			0.00
Portugal	6,582.15	6,582.15			0.00
Qatar	53,717.42	53,717.42			0.00
Republic of Moldova	325.98	325.98			0.00
Romania	690.39	690.39			0.00
Russian Federation	-26,811.35			-26,811.35	0.00
Saudi Arabia	11,869.55	11,869.55			0.00
Senegal	784.34	784.34			0.00
Serbia	795.80	795.80			0.00
Seychelles	0.00				0.00
Slovakia	0.40			0.40	0.00
Slovenia	-9.38				- 9.38
South Africa	145.08	145.08			0.00
Spain	29,136.94	29,136.94			0.00
Sweden	1,904.34	1,904.34			0.00
Switzerland	12,882.06	12,882.06			0.00
Tajikistan	144.03	144.03			0.00
Thailand	2,665.45	2,665.45			0.00
Tunisia	1,554.65	1,554.65			0.00
Turkey	55,367.12	55,367.12			0.00
Ukraine	0.00				0.00
United Arab Emirates	79,945.44	79,945.44			0.00
United Kingdom	52,006.98	52,006.98			0.00
Uzbekistan	3,067.21	3,067.21			0.00
Viet Nam	10,351.15	10,351.15			0.00
Zimbabwe	0.00				0.00
<b>TOTAL</b>	<b>591,076.00</b>	<b>685,370.24</b>	<b>0.00</b>	<b>-92,160.03</b>	<b>-2 134.21</b>

**STATUS OF PAYMENT OF BALANCES FOR YEARS PRIOR TO 2024  
AS AT 6 NOVEMBER 2025**

(£ Sterling)

STATES	Balance due for years prior to 2023	Amount Collected as at 06 November 2025	Administrative Charges Applied	Application of credit balance (or part of)	Unpaid amount (excess paid) as at 06 November 2025
Belarus	167.26				167.26
Democratic People's Republic of Korea	140.33				140.33
Eswatini*	14.55				14.55
Iran (Islamic Republic of)	14,548.16				14 548.16
Iraq	536.80				536.80
Slovakia*	1.17				1.17
Syrian Arab Republic	2,266.26				2 266.26
Turkmenistan	1,228.35				1 228.35
<b>TOTAL</b>	<b>18,902.88</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>18 902.88</b>

\* As per SCRAG Conclusion 19/6, invoices under GBP 30 are not invoiced.

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**ESTIMATED COST SHARES AND ASSESSMENTS  
FOR THE PERIOD 1 JANUARY TO 31 DECEMBER 2026 \***

STATES	2024 Available Tonne-Kilometres in Scheduled Services (000)	Percentage Cost Share	Share of 2026 Estimated Costs (£ Sterling)	Share of Over-recovery for 2024 (£ Sterling)	Amount to be Assessed for 2026 (£ Sterling)
Albania	90 719	0.013%	83.65	- 14.69	68.96
Algeria	1 258 092	0.178%	1 160.02	- 203.78	956.24
Armenia	299 867	0.042%	276.49	- 48.57	227.92
Australia	22 347 349	3.159%	20 605.34	-3 619.69	16 985.65
Austria	7 213 207	1.020%	6 650.93	-1 168.35	5 482.58
Azerbaijan	3 706 322	0.524%	3 417.41	- 600.33	2 817.08
Bahrain	4 292 128	0.607%	3 957.55	- 695.21	3 262.34
Belgium	30 573 143	4.322%	28 189.93	-4 952.06	23 237.87
Bhutan	91 668	0.013%	84.52	0.00	84.52
Bosnia and Herzegovina	454	0.000%	0.42	- 0.07	0.35
Botswana	25 419	0.004%	23.44	- 4.12	19.32
Bulgaria	114 436	0.016%	105.52	- 18.54	86.98
Cabo Verde	65 721	0.009%	60.60	- 10.65	49.95
Cameroon	28 111	0.004%	25.92	- 4.55	21.37
- Hong Kong	28 705 798	4.058%	26 468.14	-4 649.60	21 818.54
- Macao	871 301	0.123%	803.38	- 141.13	662.25
Congo	32 360	0.005%	29.84	- 5.24	24.60
Côte d'Ivoire	8 374	0.001%	7.72	- 1.36	6.36
Croatia	208 638	0.029%	192.37	- 33.79	158.58
Cyprus	141 222	0.020%	130.21	- 22.87	107.34
Czechia	614 491	0.087%	566.59	- 99.53	467.06
Denmark	2 363 586	0.334%	2 179.34	- 382.84	1 796.50
Egypt	7 059 152	0.998%	6 508.88	-1 143.40	5 365.48
Equatorial Guinea	5 658	0.001%	5.22	- 0.92	4.30
Estonia	431 658	0.061%	398.01	- 69.92	328.09
Eswatini	6 336	0.001%	5.84	- 1.03	4.81
Finland	5 563 869	0.787%	5 130.16	- 901.20	4 228.96
France	37 914 801	5.360%	34 959.29	-6 141.22	28 818.07
Gabon	31 576	0.004%	29.11	- 5.11	24.00
Georgia	247 478	0.035%	228.19	- 40.09	188.10
Germany	45 908 794	6.490%	42 330.14	-7 436.04	34 894.10
Ghana	23 181	0.003%	21.37	- 3.75	17.62
Greece	2 640 235	0.373%	2 434.43	- 427.65	2 006.78
Hungary	11 019 203	1.558%	10 160.24	-1 784.83	8 375.41
Iceland	2 138 304	0.302%	1 971.62	- 346.35	1 625.27
India	36 814 968	5.205%	33 945.19	-5 963.07	27 982.12
Indonesia	13 039 898	1.843%	12 023.42	-2 112.13	9 911.29
Ireland	27 601 932	3.902%	25 450.32	-4 470.80	20 979.52
Israel	4 537 650	0.642%	4 183.93	- 734.98	3 448.95
Italy	6 120 831	0.865%	5 643.70	- 991.42	4 652.28
Jordan	1 783 526	0.252%	1 644.50	- 288.89	1 355.61
Kazakhstan	2 607 487	0.369%	2 404.23	- 422.35	1 981.88
Kenya	3 103 731	0.439%	2 861.79	- 502.72	2 359.07
Kuwait	2 631 875	0.372%	2 426.72	- 426.30	2 000.42
Kyrgyzstan	319 190	0.045%	294.31	- 51.70	242.61
Latvia	1 072 356	0.152%	988.76	- 173.69	815.07

**ESTIMATED COST SHARES AND ASSESSMENTS  
FOR THE PERIOD 1 JANUARY TO 31 DECEMBER 2026 \***

STATES	2024 Available Tonne-Kilometres in Scheduled Services (000)	Percentage Cost Share	Share of 2026 Estimated Costs (£ Sterling)	Share of Over-recovery for 2024 (£ Sterling)	Amount to be Assessed for 2026 (£ Sterling)
Libya	561 136	0.079%	517.39	- 90.89	426.50
Lithuania	1 568	0.000%	1.45	- 0.25	1.20
Luxembourg	11 393 631	1.611%	10 505.48	-1 845.47	8 660.01
Maldives	143 373	0.020%	132.20	- 23.22	108.98
Malta	235 701	0.033%	217.33	- 38.18	179.15
Mauritius	1 279 139	0.181%	1 179.43	- 207.19	972.24
Montenegro	43 090	0.006%	39.73	- 6.98	32.75
Morocco	4 129 470	0.584%	3 807.57	- 668.87	3 138.70
Namibia	5 397	0.001%	4.98	- 0.87	4.11
Netherlands	20 175 603	2.852%	18 602.89	-3 267.93	15 334.96
Nigeria	550 830	0.078%	507.89	- 89.22	418.67
North Macedonia	0	0.000%	0.00	0.00	0.00
Norway	4 645 122	0.657%	4 283.03	- 752.39	3 530.64
Oman	3 042 835	0.430%	2 805.64	- 492.86	2 312.78
Pakistan	2 440 180	0.345%	2 249.96	- 395.25	1 854.71
Poland	3 253 888	0.460%	3 000.24	- 527.05	2 473.19
Portugal	6 415 128	0.907%	5 915.06	-1 039.09	4 875.97
Qatar	57 220 414	8.089%	52 760.01	-9 268.23	43 491.78
Republic of Moldova	259 401	0.037%	239.18	- 42.02	197.16
Romania	727 666	0.103%	670.94	- 117.86	553.08
Sao Tome and Principe	14 784	0.002%	13.63	0.00	13.63
Saudi Arabia	14 533 341	2.055%	13 400.45	-2 354.03	11 046.42
Senegal	371 791	0.053%	342.81	- 60.22	282.59
Serbia	825 697	0.117%	761.33	- 133.74	627.59
Seychelles	52 483	0.007%	48.39	- 8.50	39.89
Slovakia	20 344	0.003%	18.76	- 3.30	15.46
Slovenia	0	0.000%	0.00	0.00	0.00
South Africa	1 888 381	0.267%	1 741.18	- 305.87	1 435.31
Spain	21 844 667	3.088%	20 141.85	-3 538.27	16 603.58
Sweden	2 116 619	0.299%	1 951.63	- 342.84	1 608.79
Switzerland	11 957 322	1.690%	11 025.23	-1 936.78	9 088.45
Tajikistan	298 755	0.042%	275.47	- 48.39	227.08
Thailand	16 649 124	2.354%	15 351.30	-2 696.73	12 654.57
Tunisia	1 416 803	0.200%	1 306.36	- 229.49	1 076.87
Turkey	55 023 240	7.779%	50 734.11	-8 912.34	41 821.77
Ukraine	0	0.000%	0.00	0.00	0.00
United Arab Emirates	82 986 129	11.732%	76 517.25	-13 441.61	63 075.64
United Kingdom	51 002 801	7.210%	47 027.08	-8 261.12	38 765.96
Uzbekistan	2 473 977	0.350%	2 281.13	- 400.72	1 880.41
Viet Nam	11 626 585	1.644%	10 720.28	-1 883.21	8 837.07
Zimbabwe	46 263	0.007%	42.66	- 7.49	35.17
<b>TOTAL</b>	<b>707 348 773</b>	<b>100.000%</b>	<b>652 210.00</b>	<b>-114 555.00</b>	<b>537 655.00</b>

\* Excludes exempted Least Developed Countries, States for which the access to SADIS is not operational and States which do not receive SADIS service.

**AMOUNTS TO BE BILLED  
FOR THE PERIOD 1 JANUARY TO 31 DECEMBER 2026  
(£ Sterling)**

STATES	Adjustment for 2024 (SCRAG/26-WP/7)	Assessment for 2026 (Attachment A)	Deduction of Unused Credit Balance from Previous Years	Total Amount to be Billed for 2026
Albania	27.33	68.96	- 96.29	0.00
Algeria	- 426.62	956.24		529.62
Armenia	- 857.51	227.92		- 629.59
Australia	- 1 259.38	16 985.65		15 726.27
Austria	- 2 355.71	5 482.58		3 126.87
Azerbaijan	2 338.14	2 817.08	- 2 486.68	2 668.54
Bahrain	- 1 014.47	3 262.34		2 247.87
Belgium	15 631.95	23 237.87		38 869.82
Bhutan	0.00	84.52		84.52
Bosnia and Herzegovina	0.36	0.35	- 0.71	0.00
Botswana	- 3.18	19.32		16.14
Bulgaria	- 16.42	86.98		70.56
Cabo Verde	31.88	49.95	- 81.83	0.00
Cameroon	- 0.13	21.37	- 21.24	0.00
China - Hong Kong	9 219.89	21 818.54		31 038.43
China - Macao	512.80	662.25		1 175.05
Congo	3.21	24.60		27.81
Côte d'Ivoire	- 242.64	6.36		- 236.28
Croatia	- 44.82	158.58		113.76
Cyprus	- 215.16	107.34		- 107.82
Czechia	- 109.77	467.06		357.29
Denmark	- 1 983.04	1 796.50		- 186.54
Egypt	- 530.31	5 365.48		4 835.17
Equatorial Guinea	- 13.77	4.30		- 9.47
Estonia	343.50	328.09	- 146.32	525.27
Eswatini	4.22	4.81		9.03
Finland	- 1 061.57	4 228.96		3 167.39
France	- 9 249.21	28 818.07		19 568.86
Gabon	- 9.05	24.00	- 14.95	0.00
Georgia	123.48	188.10		311.58
Germany	- 10 646.42	34 894.10		24 247.68
Ghana	- 12.02	17.62		5.60
Greece	- 252.71	2 006.78		1 754.07
Hungary	- 1 909.93	8 375.41		6 465.48
Iceland	1 664.15	1 625.27		3 289.42
India	- 1 199.74	27 982.12		26 782.38
Indonesia	- 254.82	9 911.29		9 656.47
Ireland	- 5 155.23	20 979.52		15 824.29
Israel	- 493.71	3 448.95		2 955.24
Italy	- 1 046.98	4 652.28		3 605.30
Jordan	- 348.28	1 355.61		1 007.33
Kazakhstan	- 2.74	1 981.88	- 280.85	1 698.29
Kenya	- 441.67	2 359.07		1 917.40
Kuwait	- 507.97	2 000.42		1 492.45

**AMOUNTS TO BE BILLED  
FOR THE PERIOD 1 JANUARY TO 31 DECEMBER 2026  
(£ Sterling)**

STATES	Adjustment for 2024 (SCRAG/26-WP/7)	Assessment for 2026 (Attachment A)	Deduction of Unused Credit Balance from Previous Years	Total Amount to be Billed for 2026
Kyrgyzstan	- 49.32	242.61		193.29
Latvia	- 75.25	815.07		739.82
Libya	93.72	426.50		520.22
Lithuania	0.78	1.20	- 1.98	0.00
Luxembourg	- 5 415.84	8 660.01		3 244.17
Maldives	- 0.33	108.98		108.65
Malta	- 487.10	179.15		- 307.95
Mauritius	- 53.79	972.24		918.45
Montenegro	- 5.82	32.75		26.93
Morocco	- 670.39	3 138.70		2 468.31
Namibia	- 9.39	4.11		- 5.28
Netherlands	- 6 446.62	15 334.96		8 888.34
Nigeria	- 104.23	418.67		314.44
North Macedonia	0.00	0.00		0.00
Norway	- 320.09	3 530.64		3 210.55
Oman	1 164.72	2 312.78	- 12.64	3 464.86
Pakistan	- 661.73	1 854.71		1 192.98
Poland	- 767.82	2 473.19		1 705.37
Portugal	- 641.83	4 875.97		4 234.14
Qatar	- 10 753.94	43 491.78		32 737.84
Republic of Moldova	- 34.46	197.16		162.70
Romania	- 64.50	553.08		488.58
Sao Tome and Principe	0.00	13.63		13.63
Saudi Arabia	- 1 358.08	11 046.42		9 688.34
Senegal	- 213.13	282.59		69.46
Serbia	30.62	627.59		658.21
Seychelles	- 23.90	39.89	- 9.67	6.32
Slovakia	15.75	15.46		31.21
Slovenia	- 0.23	0.00		- 0.23
South Africa	- 282.97	1 435.31		1 152.34
Spain	- 4 366.72	16 603.58		12 236.86
Sweden	70.95	1 608.79		1 679.74
Switzerland	- 1 336.19	9 088.45		7 752.26
Tajikistan	15.71	227.08		242.79
Thailand	2 790.53	12 654.57		15 445.10
Tunisia	- 28.32	1 076.87		1 048.55
Turkey	- 4 067.71	41 821.77		37 754.06
Ukraine	- 484.89	0.00		- 484.89
United Arab Emirates	- 8 207.17	63 075.64		54 868.47
United Kingdom	- 3 632.61	38 765.96		35 133.35
Uzbekistan	- 195.87	1 880.41		1 684.54
Viet Nam	- 679.62	8 837.07		8 157.45
Zimbabwe	- 18.85	35.17	- 16.32	0.00
<b>TOTAL</b>	<b>- 59 040.00</b>	<b>537 655.00</b>	<b>- 3 169.48</b>	<b>475 445.52</b>

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## AMENDMENT TO ANNEX I, SADIS SERVICES, TO THE SADIS AGREEMENT

### SADIS SERVICES

#### SADIS Agreement Annex I.

Additions are shown with **grey shading**, whilst deletions are as a **red strikethrough**.

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### ANNEX I

#### SADIS SERVICES

~~(2023-2024-~~**2025**)

*Note.— A glossary of abbreviations as used in this Annex is provided at the end of the Annex.*

#### 1. Internet based FTP and API services

Products available on SADIS:

- a) distribution of WAFS upper-air forecasts in GRIB2 code form;
- b) distribution of WAFS SIGWX forecasts in BUFR code form;
- c) distribution of WAFS SIGWX forecasts in PNG chart form;
- d) distribution of OPMET information in alphanumeric format (METARs, TAFs, SIGMET, special AIREPs, volcanic ash advisories, tropical cyclone advisories and space weather advisories) from those regions whose OPMET information is needed to satisfy approved requirements in the regions served by SADIS;
- e) distribution of OPMET information in IWXXM format (METARs, TAFs, SIGMET, AIRMET, volcanic ash advisories, tropical cyclone advisories and space weather advisories) from those States who are distributing their data internationally via the Regional Opmet Centres;
- f) distribution of meteorological information in graphical format (e.g. Volcanic Ash Graphics).

Note: Detailed descriptions are contained within the SADIS User Guides

#### 2. Collection service

- a) collection of OPMET information by the SADIS Gateway from States in accordance with approved requirements stated by PIRGs and actioned by Meteorological Operations Working Group (WG-MOG/SADIS);
- b) monitoring, validation and repair of data received at the SADIS Gateway to the required standards, for the provision of real-time scheduled reports and for off-line quality control analysis.

### 3. Back-up service

The recognised back-up to failure of the SADIS service is via the USA administered, WAFS Information File Service (WIFS). SADIS users are encouraged to arrange back-up accounts with the WIFS provider via <https://aviationweather.gov/wifs/>.

*Note 1: - Usage restrictions apply. Further information is provided in the SADIS User Guides*

*Note 2: - It is the responsibility of the SADIS FTP user to arrange and test back-up accounts with WIFS.*

### 4. User support service

- a) 24-hour help line/faults desk;
- b) dissemination of administrative messages, including amendments to bulletin headers given in the SADIS User Guide (Parts 1 and 2).

### 5. Connection to SADIS

Two versions of SADIS are in operation

The SADIS FTP has a more limited selection of WAFS gridded data sets, the T+24 SIGWX products, and OPMET data. Digital Signatures and Digital Certificates are used to confirm data integrity and authenticity of the data.

The SADIS API is a SWIM compliant API which uses the Open Geospatial Consortium Environmental Data Retrieval framework to deliver the full WAFS gridded and multi timestep SIGWX data sets as well as OPMET data. The API **adheres** **confirms** to the EUROCONTROL SWIM Yellow Profile **technical specification**, and access is controlled by secure OAuth2 authentication.

### 6. Fair Use of SADIS Products

- a) The use of SADIS is continually monitored to ensure the volume of data being downloaded is not excessive and does not impede the operation of the SADIS Servers;
- b) A user who is responsible for >10% of the total volume of data being downloaded from SADIS FTP Server in a single week will be considered as excessive usage;
- c) Users of the SADIS API are subject to a daily cap in the number of data requests that can be made;
- d) If users are deemed to be excessively downloading data then the SADIS Manager will contact the user with a request to the use to reduce the volume data being downloaded. The SADIS Manager may at their discretion, limit or terminate access to the SADIS FTP server without recourse to the user if the excessive use continues.

### 7. Security

- a) The SADIS systems will be continually monitored for lawful security purposes;
- b) Users are not permitted to share passwords or API authentication credentials and are responsible for keeping these secure;

c) The SADIS Manager reserves the right to suspend or terminate a user's access to SADIS if the obligations set out in 6b, 6d, 7b or the SADIS API licence agreement has resulted or is likely to result in an increased risk to security of the SADIS FTP Server;

d) The SADIS Manager reserves the right to restrict access to the SADIS systems in the event of a security threat and users acknowledge that access to the SADIS systems may be restricted or unavailable until such time the security threat has been resolved.

### Glossary of abbreviations

<i>API</i>	<i>Application Programming Interface</i>
<i>BUFR</i>	Binary Universal Form for the Representation of meteorological data (code)
<i>FTP</i>	File Transfer Protocol (Internet based)
<i>GRIB2</i>	Gridded binary edition 2 (code)
<i>IWXXM</i>	The ICAO Meteorological Information Exchange Model is a data format for reporting aviation weather information in XML/GML format
<i>METAR</i>	Routine aviation weather report in code form
<i>METP</i>	Meteorology Panel
<i>OPMET</i>	Operational meteorological (information or data)
<i>PIRG</i>	ICAO planning and implementation regional group
<i>PNG</i>	Portable Network Graphics (image format)
<i>SADIS</i>	Secure Aviation Data Information Service
<i>SADIS FTP</i>	Internet based provision of SADIS
<i>SADIS Gateway</i>	The United Kingdom message-handling system which receives data from the Aeronautical Fixed Service for transmission on SADIS
<i>SADISOPSG</i>	SADIS Operations Group. Tasked with the oversight of SADIS until its dissolution in 2015. Superseded by Meteorological Operations Working Group (WG-MOG) under the Meteorology Panel (METP). Reference retained for historical purposes.
<i>SIGMET</i>	Information of specified en-route weather phenomena which may affect the safety of aircraft operations
<i>SIGWX</i>	Significant weather
<i>SWIM</i>	System Wide Information Management
<i>TAF</i>	Aerodrome forecast in code form
<i>WAFS</i>	World area forecast system
<i>WG-MOG</i>	The oversight of the SADIS service is undertaken by the Meteorological Panel (METP) which has tasked Met Operations Group (WG-MOG/SADIS) to carry out this responsibility, each year they meet to ensure the service is meeting the users needs.

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## AMENDMENT TO ANNEX II, SADIS INVENTORY, TO THE SADIS AGREEMENT

### SADIS Agreement Annex II.

Additions are shown with grey shading, whilst deletions are as a ~~red strikethrough~~.

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## ANNEX II

### SADIS INVENTORY

~~(2023-2024-2025)~~

The inventory items identified below cover the equipment and staffing required to provide, operate and maintain the Secure Aviation Data Information Service (SADIS). The inventory includes: communications circuits, communications back-up system, procured services, and staff. It should be noted that some equipment items form part of a wider infrastructure. Costs of some individual items cannot be separated from the required infrastructure that includes a significant part of the development of the software and technical configuration. The inventory is in accordance with the SADIS User Guide.

## 1. EQUIPMENT

### A. Key components of SADIS infrastructure and communications circuits

SADIS infrastructure consists of the following:

i) **Solely procured for SADIS (major components)**

NIL – SADIS FTP and SADIS API operates primarily on cloud infrastructure

ii) **Not procured principally for SADIS**

a) Met Office Message switch (MetSwitch): routes data to the operational FTP service;

b) NATS SADIS gateway function software (developed specifically for the gateway as part of the NATS CoreMet system);

c) Met Office operational monitoring software;

*Note. – This enables the operational monitoring of the SADIS FTP service and ensures problems can be identified and resolved in a timely manner.*

d) Met Office Service Desk equipment;

### B. SADIS data back-up system

The recognised back-up for SADIS FTP in the event of a failure is via the USA administered, WAFS Information File Service (WIFS). The recognised back-up for SADIS API is the WIFS API. SADIS users are encouraged to arrange back-up accounts with the WIFS provider via

<https://aviationweather.gov/wifs/>.

Note 1: - Usage restrictions apply. Further information is provided in the SADIS User Guides

Note 2: - It is the responsibility of the SADIS user to arrange and test back-up accounts with WIFS.

## 2. PROCURED SERVICES

A. Amazon Web Services (AWS) elements used by the Met Office in the operation of SADIS FTP:

AWS Service	Specification	Quantity	What the service is used for:
EC2	t3.medium 2* vCPU (Intel Xeon Platinum 8000 series) 4 GiB Memory  Network Bandwidth: ≤5Gbps; EBS Bandwidth ≤1.50 Gbps)	2	2* FTP Server and
S3	N/A	14	Data ingestion; data storage; data egress; large data store; logging and reporting.
DynamoDB	3x Table	3	Stores incoming TAC and IWXXM reports as well as information needed WAFS data report compilation
Route53	N/A	1	DNS
Lambda	N/A	N/A	Various Serverless Functions used for the following: data debatch; concatenate and sign; packaging IWXXM data; logging; reporting; alerting; housekeeping.
Cloudwatch	N/A	N/A	Log Aggregation
NAT Gateway	N/A	1	Access
VPC	N/A	1	
Kinesis Data Stream	N/A	1	Log Entry Routing
Kinesis Firehose	N/A	2	

B. Amazon Web Services (AWS) elements used by the Met Office in the operation of SADIS API:

AWS Service	Quantity	What the service is used for:
Route53	<del>2</del> 5	DNS
CloudFront	4 6	CDN - Caching of assets at edge locations to enable efficient data transfer to end users
CloudWatch	<del>N/A</del> 61 alarms, 10 dashboards	Log Aggregation; Alerts; Dashboards

API Gateway	2 5	User Auth and Auth provision; API request handling
SNS	20 33	Monitoring; data ingest; data egress
SQS	N/A 81	Monitoring; data ingest; data egress; DLQs,
AWS Certificate Manager	1 2	Certificate provider for Route53
S3	18 46	Data ingestion; data storage; data egress; archiving; logging and reporting.
Lambda	4 78	Query executor and builder; response generator; archiving Various Serverless Functions used for: fetching files via pre-signed url; logging; reporting; alerting; authentication; data ingestion; pre-signed url generation; packaging data; data debatch; concatenate and sign;
AWS Secrets Manager (SSM)	N/A 6	Configuration
DynamoDB	46 x Table	Storage of incoming OPMET reports (and multi-part bulletins) ready for processing
EventBridge Rule	28 53	Used to trigger Lambdas.
EventBridge Schedule	14	Used to trigger Lambdas
EventBridge Pipe	3	Used to trigger Step Functions
Step Functions	6	To orchestrate workflows
SSM	141	Configuration
VPC	1	To support security requirements
Security Groups	2	To allow SFTP transfer in and out to be restricted
Elastic IPs	4	To give static IPs that can be whitelisted

*Note: The figures shown represent the final number of services required for the full provision of the SADIS API until November 2028.*

C. NATS Gateway function:

- i) Communication circuits between Met Office and NATS infrastructure site; and
- ii) System maintenance.

### 3. ANNUAL STAFF REQUIREMENTS

A. Met Office

i) First Line Support

*Help Desk*

*Skill*

1. Service desk (first point of contact) enquiries

Incident Management and customer enquiries

*Note.— The Service Desk acts as a first point of contact for all inquiries, including those concerning the OPMET Gateway function. Complex inquiries will be passed to a relevant expert. Experts are available either on a 24-hour rota basis, or as a daytime support with limited on-call capability*

**ii) Second Line Support**

*24-hour IT Operations support*

*Skill*

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. Shift Leader (ITCS)</li> </ol>             | Technical Supervisor, incident handling |
| <ol style="list-style-type: none"> <li>2. Networks Incident Manager (NIM)</li> </ol> | Service Continuity, system monitoring   |

**iii) Third and Fourth Line Support**

*Normal working hours support and “best endeavors”*

*Skill*

- |  |                                       |
|--|---------------------------------------|
| <ol style="list-style-type: none"> <li>1. Message Switching Manager</li> </ol> | Incident handling, server adjustments |
| <ol style="list-style-type: none"> <li>2. Message Switching Staff</li> </ol>   | Incident handling and account changes |
| <ol style="list-style-type: none"> <li>3. AWS Technical Support</li> </ol>     | AWS expertise, support and guidance   |

**iv) Additional support**

*Day support*

*Resource*

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. Administrator</li> </ol>                       | 138 staff-days of senior stakeholder relationship manager (SADIS manager)     |
| <ol style="list-style-type: none"> <li>2. International aviation management</li> </ol>   | 14 staff-days of aviation business head                                       |
| <ol style="list-style-type: none"> <li>3. Contract procurement and management</li> </ol> | 4 staff-days of senior procurement manager                                    |
| <ol style="list-style-type: none"> <li>4. Invoice Administration</li> </ol>              | 20 staff-days of finance assistant and 8 staff-days of senior finance manager |

**B. NATS infrastructure site – Data Services (OPMET Gateway function)**

*Note 1. —Data Services provide the OPMET Gateway function, which is provided from a single operational site, but with a full capability at an alternative site. Staff are available either on a 24-hour basis, or as a daytime support with on-call capability.*

*Note 2. — The resource demand to provide the SADIS Gateway service is the standard required staff days needed to provide the SADIS service. It comprises 6 watches providing the H24 element of the service and day support administrative staff. The cost recovery NATS submits to the SCRAG will represent actual staff-days required to provide the service.*

*Role and Responsibilities*

*Resource*

- |  |                          |
|--|--------------------------|
| <ol style="list-style-type: none"> <li>1. Operational Staff<br/>- Operational Staff relates to the H24 function in ROC LONDON. Monitor, validate, record &amp; report on issues raised through the SADIS Gateway operation.</li> </ol> | 521 staff-days per annum |
|--|--------------------------|

- 
- |  |                         |
|--|-------------------------|
| 2. Engineering Staff   | 20 staff-days per annum |
| - Engineering Staff includes the duties carried out by the Engineering Day support team and an H24 engineers for the support of SADIS.                                       |                         |
| 3. Administration Staff  | 63 staff-days per annum |
| - The Administration Office carries out the documentation creation and amendments, adaptation changes, investigations and meeting attendance of the SADIS Gateway operation. |                         |

### **C. Bought-in services**

Additional support and maintenance agreements with third parties are in place to provide additional third line AWS support of the SADIS ~~FTP~~ services.

— END —