

# **SADIS COST RECOVERY ADMINISTRATIVE GROUP (SCRAG)**

## **TWENTY-FIFTH MEETING**

(Virtual meeting, 3 December 2024)

**Agenda Item 3: Review of actual SADIS costs and cost shares for the period 1 January to 31 December 2023**

### **SUMMARY OF ACTUAL COSTS AND COST SHARES FOR THE YEAR 2023**

(Presented by the Secretariat)

#### **REFERENCES**

SADIS Agreement  
SCRAG/24 Report  
SCRAG/23 Report

#### **1. Introduction**

1.1 This paper presents the adjustments of actual costs and actual cost shares for the period 1 January to 31 December 2023. Actual cost shares are determined in accordance with the SADIS Agreement provisions referenced in Sections 3 and 4.

#### **2. Actual Costs for the Period 1 January to 31 December 2023**

2.1 Table 1 below presents a summary of the actual SADIS costs for the period 1 January to 31 December 2023. Details of these costs are included in SCRAG/25-WP/5.

**TABLE 1**

Cost Item	Actual Costs 2023 (UK £)
UK Met Office	190 051
UK NATS (SADIS Gateway)	310 663
UK administrative costs	0
Sub-total UK	500 714
ICAO support services costs	36 475
<b>TOTAL</b>	<b>537 189</b>

### **3. SADIS Agreement: Determination of Cost Share of Each Party**

As per Article XI, paragraph 1 of the SADIS Agreement:

*Each Party as encompassed by Article III, paragraph 2, shall be assessed a share of the total costs of the SADIS arrangement in proportion to the total number of available tonne-kilometres (ATKs) in scheduled services (international and domestic) performed by air carriers based in the territory of the State of that Party. The share of each Party shall be calculated from the total number of ATKs performed by all air carriers based in the territory of the State of that Party as a percentage of the total number of such ATKs performed by all air carriers of all the Parties participating in the arrangement. The total costs to be shared shall include the costs attributable to the Parties exempted from paying.*

### **4. Cost Shares for the Period 1 January to 31 December 2023**

4.1 In the Attachment to this working paper, Actual Costs for 2023 are being compared to the 2023 Estimated Costs (as initially presented and allocated to States in the SCRAG/23 Report for assessment purposes). The variance between the Actual 2023 and the Estimated 2023 costs is then distributed to the States based on the 2023 ATK data.

4.2 One State, Indonesia, was disconnected from SADIS services on 23 September 2022 and rejoined on 30 May 2023. Consequently, their share of the actual costs for 2023 was calculated based on 8 full months of service.

### **5. Data: Available Tonne-Kilometres (ATKs)**

5.1 The data used to calculate SADIS invoices is provided by the Aviation Data Analysis Section (ADA) of ICAO. The obligation to submit statistical information to ICAO is established under Article 67 of the Chicago Convention, which states: "Each contracting State undertakes that its international airlines shall, in accordance with requirements laid down by the Council, file with the Council traffic reports, cost statistics, and financial statements showing, among other things, all receipts and their sources." Additionally, Articles 54 and 55, which outline the functions of the ICAO Council, include multiple references to the collection and dissemination of such information.

5.2 The ICAO Statistics Programme is responsible for the collection, compilation, verification, validation, and storage of data reported by ICAO Member States. Fully reported data includes all datasets submitted by Member States under ICAO's registries. For invoicing purposes, traffic data is derived from the Air Transport Reporting Forms (ATRs), specifically Form A, which is also referred to as the Commercial Traffic System-Wide Report for air carriers. Member States provide information on 11 items for both scheduled and non-scheduled services, disaggregated by domestic and international flights. Among these items is the Available Tonne-Kilometre performed (ATK). After undergoing a rigorous verification and validation process, the final figures are submitted to the Joint Finance Department.

#### **5.3 Data Estimates**

5.3.1 Some Member States may report incomplete datasets for their airlines, or they may not report any data at all. In such cases, ADA staff retrieves supplementary data from the Official Aviation Guide of the Airways (OAG), specifically using the Power Table Report. The metrics extracted from this report are the number of frequencies, name and code of the carrier, departure airport, arrival airport and specific aircraft type.

5.3.2 Additionally, ICAO staff utilize the “Aircraft Type” reference file, which provides the minimum and maximum payload capacities for each aircraft type. The data obtained from the OAG report is cross-referenced with ICAO’s “Aircraft Type” reference file to determine the maximum unit payload. To calculate the total payload capacity, the maximum unit payload is multiplied by the number of flights.

5.3.3 Additional columns are also added to the file, such as "From State," "To State," and "Stage" (to determine whether the flight is domestic or international). Once the dataset is complete, the calculation of ATK is carried out. To calculate the ATK, the distance between each airport pair is added and then multiplied by the payload for that route. Finally, the total ATK is obtained by summing the ATK values across all flight stages. It is important to note that the OAG dataset reflects planned schedules, which does not necessarily indicate that the flights were performed.

## **6. Summary**

6.1 Taking into account the information in Table 1 and Sections 3 to 5 above, the Attachment shows, for the period 1 January to 31 December 2023, the actual cost share to be borne by each State receiving the SADIS service, based on the 2023 ATKs, in accordance with Article XI, paragraph 3 of the SADIS Agreement. The Attachment also indicates the required adjustment for 2023 per State derived by comparing actual 2023 costs to estimates.

## **7. Action by the Group**

7.1 The Group is invited to:

- a) review the actual costs of providing the SADIS services for the period 1 January to 31 December 2023 totaling £537 189, presented in Table 1 above;
- b) note the information presented in Sections 3 to 6 above; and
- c) determine the cost share for the period 1 January to 31 December 2023 to be borne by the States participating in the SCAR scheme in 2023 on the basis of their number of ATKs for 2023, as presented in the Attachment.

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## ATTACHMENT

**ACTUAL COST SHARES FOR THE PERIOD 1 JANUARY TO 31 DECEMBER 2023\*  
AND ADJUSTMENT FOR 2023**

STATES	2023 Available Tonne-Kilometres in Scheduled Services (000)	Percentage Cost Share	Share of 2023 Actual Costs (£ Sterling)	Share of 2023 Estimated Costs SCRAG/23 Appendix G (£ Sterling)	Adjustment for 2023 (£ Sterling)
Albania	40 094	0.005%	27.07	23.91	3.16
Algeria (note 1)	1 128 287	0.142%	761.81	286.81	475.00
Armenia	455 121	0.057%	307.29	31.56	275.73
Australia (note 1)	20 151 585	2.533%	13 606.10	8 060.63	5 545.47
Austria	7 309 060	0.919%	4 934.99	4 218.68	716.31
Azerbaijan	2 782 415	0.350%	1 878.65	4 200.62	- 2 321.97
Bahrain	4 134 089	0.520%	2 791.29	2 379.53	411.76
Belgium (note 1)	6 051 136	0.761%	4 085.65	5 336.05	- 1 250.40
Bosnia and Herzegovina (note 2)	0	0.000%	0.00	0.00	0.00
Botswana	703 178	0.088%	474.78	15.01	459.77
Bulgaria	111 339	0.014%	75.17	7.26	67.91
Cabo Verde	38 378	0.005%	25.91	2.74	23.17
Cameroon	23 555	0.003%	15.90	15.77	0.13
China: - Beijing	172 832 960	21.723%	116 694.67	141 088.86	- 24 394.19
- Hong Kong	24 062 656	3.024%	16 246.81	15 312.14	934.67
- Macao	562 495	0.071%	379.79	268.89	110.90
Congo (note 2)	30 273	0.004%	20.44	13.80	6.64
Côte d'Ivoire	191 435	0.024%	129.25	197.10	- 67.85
Croatia	194 691	0.024%	131.45	132.10	- 0.65
Cyprus	163 951	0.021%	110.70	42.57	68.13
Czechia	505 602	0.064%	341.38	419.08	- 77.70
Denmark	1 826 694	0.230%	1 233.36	1 041.94	191.42
Egypt (note 1)	5 983 220	0.752%	4 039.80	3 910.36	129.44
Equatorial Guinea	6 883	0.001%	4.65	2.90	1.75
Estonia (note 3)	0	0.000%	0.00	0.00	0.00
Eswatini	9 833	0.001%	6.64	1.67	4.97
Finland	5 200 290	0.654%	3 511.17	2 996.89	514.28
France	36 615 242	4.602%	24 722.16	25 596.57	- 874.41
Gabon (note 2)	20 359	0.003%	13.75	0.00	13.75
Georgia (note 1)	138 850	0.017%	93.75	51.32	42.43
Germany	42 521 076	5.344%	28 709.70	32 753.05	- 4 043.35
Ghana	23 019	0.003%	15.54	32.29	- 16.75
Greece	2 397 248	0.301%	1 618.59	1 534.56	84.03
Hungary	11 339 158	1.425%	7 656.06	4 938.87	2 717.19
Iceland	2 067 453	0.260%	1 395.92	1 087.56	308.36
India	33 485 887	4.209%	22 609.25	16 749.83	5 859.42
Indonesia (note 4)	10 074 162	1.266%	6 801.95	8 558.97	- 1 757.02
Ireland	25 487 632	3.204%	17 208.93	13 081.44	4 127.49
Israel	3 991 765	0.502%	2 695.19	2 278.72	416.47
Italy (note 1)	4 356 089	0.548%	2 941.18	2 530.16	411.02
Jordan	1 713 813	0.215%	1 157.15	1 076.15	81.00
Kazakhstan (note 1)	990 617	0.125%	668.85	1 972.45	- 1 303.60
Kenya	2 785 064	0.350%	1 880.44	1 610.68	269.76
Kuwait	2 748 694	0.345%	1 855.88	1 460.82	395.06
Kyrgyzstan	247 848	0.031%	167.34	42.40	124.94
Latvia	987 688	0.124%	666.87	586.15	80.72
Libya (note 2)	420 189	0.053%	283.71	251.20	32.51
Lithuania	3 291	0.000%	2.22	0.31	1.91

**ATTACHMENT (cont'd)**  
**ACTUAL COST SHARES FOR THE PERIOD 1 JANUARY TO 31 DECEMBER 2023\***  
**AND ADJUSTMENT FOR 2023**

STATES	2023 Available Tonne-Kilometres in Scheduled Services (000)	Percentage (000)	Share of 2023 Actual Costs (£ Sterling)	Share of 2023 Estimated Costs SCRAG/23 Appendix G (£ Sterling)	Adjustment for 2023 (£ Sterling)
Luxembourg (note 1)	10 832 132	1.361%	7 313.72	14 214.46	- 6 900.74
Maldives	3 645	0.000%	2.46	23.41	- 20.95
Malta (note 1)	503 492	0.063%	339.95	172.00	167.95
Mauritius	1 142 603	0.144%	771.47	375.59	395.88
Montenegro	38 339	0.005%	25.89	0.24	25.65
Morocco	4 301 549	0.541%	2 904.35	2 417.01	487.34
Namibia	8 461	0.001%	5.71	0.18	5.53
Netherlands	19 853 448	2.495%	13 404.80	18 943.50	- 5 538.70
Nigeria (note 1)	388 802	0.049%	262.51	438.28	- 175.77
North Macedonia (note 5)	0	0.000%	0.00	0.00	0.00
Norway (note 2)	4 107 338	0.516%	2 773.22	2 356.80	416.42
Oman	3 925 930	0.493%	2 650.74	1 141.92	1 508.82
Pakistan	2 569 587	0.323%	1 734.95	1 747.63	- 12.68
Poland	3 346 447	0.421%	2 259.48	1 846.62	412.86
Portugal	7 250 387	0.911%	4 895.37	4 412.30	483.07
Qatar	49 146 984	6.177%	33 183.43	48 225.32	- 15 041.89
Republic of Moldova	209 901	0.026%	141.72	165.20	- 23.48
Romania	547 943	0.069%	369.96	448.01	- 78.05
Saudi Arabia (note 1)	12 765 510	1.604%	8 619.11	10 170.44	- 1 551.33
Senegal (note 1)	347 528	0.044%	234.65	103.97	130.68
Serbia	780 251	0.098%	526.82	355.66	171.16
Seychelles	59 580	0.007%	40.23	39.46	0.77
Slovakia (note 3)	0	0.000%	0.00	1.29	- 1.29
Slovenia (note 3)	0	0.000%	0.00	2.66	- 2.66
South Africa (note 1)	1 918 821	0.241%	1 295.56	1 559.02	- 263.46
Spain	21 034 451	2.644%	14 202.20	12 479.20	1 723.00
Sweden	1 656 302	0.208%	1 118.31	998.74	119.57
Switzerland	10 799 491	1.357%	7 291.68	6 720.68	571.00
Tajikistan (note 2)	251 259	0.032%	169.65	80.35	89.30
Thailand	13 882 468	1.745%	9 373.27	3 447.23	5 926.04
Tunisia (note 1)	1 087 701	0.137%	734.40	494.17	240.23
Turkey	48 791 412	6.133%	32 943.35	37 807.77	- 4 864.42
Ukraine	0	0.000%	0.00	0.00	0.00
United Arab Emirates	76 267 400	9.586%	51 494.80	50 375.78	1 119.02
United Kingdom	47 619 244	5.985%	32 151.93	22 316.68	9 835.25
Uzbekistan	2 204 378	0.277%	1 488.37	1 040.61	447.76
Viet Nam	11 018 192	1.385%	7 439.35	3 123.11	4 316.24
Zimbabwe (note 2)	39 128	0.005%	26.42	17.34	9.08
<b>TOTAL</b>	<b>795 614 468</b>	<b>100.000%</b>	<b>537 189.00</b>	<b>554 263.00</b>	<b>- 17 074.02</b>

\* Least Developed Countries are exempted.

Note 1: 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 2: 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 3: Four States, Bosnia and Herzegovina, Estonia, Slovakia and Slovenia did not perform scheduled service during 2023 and therefore had zero ATKs reported.

Note 4: In accordance with the months for which services were received, Indonesia's share of actual 2023 costs was calculated based on 7 full months of service.

Note 5: No ATKs were received and no data is available for North Macedonia.