

SADIS COST RECOVERY & ADMINISTRATIVE GROUP (SCRAG)

EIGHTEENTH MEETING

(Gatwick, UK, 8th November 2017)

**Agenda Item 3: Review of actual SADIS costs and cost shares for the period
1 January to 31 December 2016**

2016 ACTUAL SADIS COSTS

(Presented by the United Kingdom)

REFERENCES

SADIS Agreement

SCRAG Reports 1-17

METP WG-MOG/3 Report

METP WG-MOG/4 Report

1. INTRODUCTION

- 1.1 Article IX of the SADIS Agreement identifies that the United Kingdom shall furnish on or before 30 June of each year, a statement of the actual costs of the SADIS, expressed in pounds sterling, for the previous calendar year. These costs are identified in TABLE 1.
- 1.2 The format of the table is similar to that provided for previous years and is consistent with information provided in the SADIS Inventory.

2. DISCUSSION

2.1 Notes to the actual costs for 2016 and forecast costs for 2017

a. Communications between Whitehill and the Met Office

Terrestrial communications costs between Exeter and the SADIS Uplink site at Whitehill until cessation of SADIS 2G on 31 July 2016. For 2016, the Vodafone and BT bills for 7 months to 31 July 2016 were £915.69 and £2476.83 respectively.

b. NATS Links

Communications costs between the SADIS Gateway, operated by NATS, and the Met Office are provided here. NATS own the links and are billed for the circuits. NATS invoice the Met Office for the Met Office share of the costs.

c. Message Switch

In 2016, data feeds were provided to SADIS 2G, SADIS FTP and the MetSwitch SADIS 2G downlink monitoring systems. The SADIS 2G component of the costs ceased to apply on 1 August 2016.

d. Internet Bandwidth

The bandwidth provided during 2016 was 24Mbit/sec bursting 42Mbit/sec and is charged at an annual rate of £10,250. On 27 April 2017 the bandwidth was increased to 42Mbit/sec bursting 60Mbit/sec at an annual rate of £17,900.

e. Service Desk equipment and Serial Communications

These charges cover equipment costs for the service desk functions and support of serial communications equipment. The serial communications charge ceased on 1 August 2016.

f. Satellite Segment

The SADIS 2G satellite bandwidth lease expired at midnight on 31 July 2016 with the cessation of the SADIS 2G service. The charge for the 7 month period to 31 July 2016 was £27,981.

g. Annual Maintenance

Maintenance comprises:- (i) A Facilities Management charge with Vodafone for the SADIS 2G Equipment at Whitehill. The sum of £3,675 for the 7 months to 31 July 2016 was applicable. (ii) A maintenance contract for SADIS 2G with Ultra - AEP Networks for 7 months to 31 July 2016 was charged as £23,622; (iii) IT Halls costs are charges made to the SADIS Programme based on floor usage of the IT Halls at Exeter for all SADIS equipment.

h. Ad-hoc maintenance

SCRAG/6 proposed that a charge of £5,000 be budgeted for ad-hoc maintenance activity in future years. There were £0 maintenance charges in 2016.

i. Help Desk and Other staff costs

The cost rates have been updated using the latest available figures. The percentage attribution rates can be found in the SADIS Inventory.

j. Additional support

Administrative and professional support provided by the specified staff functions to the SADIS service. In 2017 an increase in day-rates will apply, though it is anticipated that this can be offset through a reduction of days assigned.

k. Resource costs

The costs for decommissioning the SADIS 2G service in 2016 totalled £1,017.

l. Travel Costs

Actual travel and subsistence costs for Met Office staff to attend appropriate Meteorological Panel Working Groups (Meteorological Operations Group, WG-MOG, in relation to SADIS) and SCRAG meetings are included here.

m. Cost of depreciated capital

In 2015 it became necessary to replace essential hardware at the SADIS 2G uplink facility at Whitehill. This was authorised through electronic correspondence with the SADISOPSG Secretary. The capital costs were £28,220, to be depreciated over 2 years - £21,165 in 2015 and £7,055 in 2016. All Met Office capital costs in relation to SADIS will be fully depreciated for 2017.

n. Cost of Capital

Cost of capital for 2016 has been calculated using the revised methodology applied in 2008 and described in SCRAG/10 WP/13.

o. Administrative costs (bank charges, couriered invoices etc)

Following SCRAG Conclusion 14/7, this item includes costs relating to the processing of invoices (usually when administration charges reduce the amount actually received by the SADIS Provider by a small amount), or the cost of couriered invoices where normal surface mail is unreliable.

2.2 Notes on SADIS Gateway Costs

p. Staff Costs – Systems Engineers

SADIS Gateway costs were detailed in SCRAG10 WP/14 and the revised basis of calculation was applied from January 1st 2009.

q. Systems Maintenance

These are reflected in Table 1

r. SADIS Gateway Upgrade

These are reflected in Table 1. A detailed description of the depreciation schedule is provided in SCRAG/18 WP/10 10

2.3 Notes on CAA and ICAO Administration Costs

s. CAA Administration Costs for 2016 comprise the following:

Met Authority Regulatory oversight	£3,817.00
Travel costs	£270.00
	Total
£4,087.00	

t. ICAO Administration costs are detailed in WP/4.

3 ACTION

3.1 The SCRAG/18 is requested to note the cost information provided by the United Kingdom and approve for these costs to be recovered from States within the Cost Recovery Scheme.

TABLE 1: 2016 and 2017 SADIS Costs

INVENTORY REF:	Note	DESCRIPTION	2016 Actual (Jan-Dec)	2016 FOO (SCRAG17)	2016 Estimate (SCRAG16)	2017 FOO (SCRAG18)	2017 Estimate (SCRAG17)
UK MET OFFICE COSTS							
1. Equipment							
Principally procured for SADIS							
	a	comms between Whitehill & Met Office	3,393	3,393	5,816	0	0
	b	comms link SADIS Gateway & Met Office	3,340	3,340	3,340	3,340	3,340
		ISDN back-up link	0	0	372	0	0
Not procured principally for SADIS							
	c	message switch (FTP)	6,274	6,220	7,500	6,220	6,220
		message switch (2G)	2,708	2,685	5,500	0	0
	d	internet bandwidth (FTP)	15,664	10,250	6,500	17,900	10,250
		FTP equipment running costs	20,085	19,264	13,000	27,800	19,264
	e	Service Desk Equipment costs	12,472	12,750	12,500	12,750	12,750
		Serial Comms Costs and maintenance	6,184	10,601	11,000	0	10,600
		sub total	70,120	68,503	65,528	68,010	62,424
2. Procured Services							
	f	space segment annual lease	27,981	27,981	54,660	0	0
	g	annual maintenance	23,662	23,662	36,500	0	0
		2G Facilities Mgmt	3,675	3,675	6,300	0	0
		IT Halls	8,667	14,873	15,000	0	14,873
	h	ad hoc maintenance	0	5,000	5,000	1,000	5,000
		sub total	63,985	75,191	117,460	1,000	19,873
3. Annual Staff Requirements							
Help Desk							
	i	Help Desk	5,916	6,000	6,000	6,000	6,000
		Technical Team Leader	12,135	12,520	12,700	12,520	12,520
		Network Systems Supervisor	24,270	25,040	25,300	25,040	25,040
Additional Support							
	j	Systems Integration Team	5,345	5,292	5,292	5,460	5,460
		Message Switching	5,727	5,670	5,670	5,850	5,850
		Administrator	63,478	62,850	62,850	64,235	64,235
		International Aviation Management	7,363	7,290	7,290	7,665	7,665
		Data Traffic	1,909	1,890	1,890	1,950	1,950
		Contract Management	1,527	1,512	1,512	1,560	1,560
		Message Switching Team	5,727	5,670	5,670	5,850	5,850
		Invoice Administration	14,998	14,850	14,850	15,465	15,465
		CIDA	0	0	0	0	0
	k	SADIS 2G decommissioning	1017	2000	10,000	0	0
Travel Costs							
	l	SADISOPSG & SCRAG	1,303	1,000	3,000	800	1,000
		sub total	150,715	151,584	162,024	152,395	152,595
		TOTAL	284,820	295,278	345,012	221,405	234,892
Cost of Depreciated Capital							
	m	SADIS 2G	0	0	0	0	0
		FTP enhancements	0	0	0	0	0
		SADIS 2G CP6000 replacement (with CP7000)	7,055	7,055	12,000	0	0
		sub total	291,875	302,333	357,012	221,405	234,892
Administrative costs							
	n	Cost of Capital	18,968	17,960	20,000	19,350	17,960
	o	Admin charges	335	300	100	350	300
		Total UKMO Costs	311,178	320,593	377,112	241,105	253,152

TABLE 1: 2015 and 2016 SADIS Costs

INVENTORY REF:	Note	DESCRIPTION	2016	2016	2016	2017	2017
			Actual (Jan-Dec)	FOO (SCRAG17)	Estimate (SCRAG16)	FOO (SCRAG18)	Estimate (SCRAG17)
NATS Gateway Costs							
Staff Costs							
	p						
Operational Staff		Air Traffic Services Asst.	216,857	266,738	276,968	214,908	270,690
Engineering Staff		Maintenance Engineer	6,388	9,660	9,430	5,611	8,302
Administration Staff		Administration Officer	35,151	1,122	1,099	30,526	N/A
Engineering Staff		Asset Management	N/A	N/A	N/A	N/A	N/A
		sub total	258,396	277,520	287,497	251,045	278,992
Systems Maintenance	q	IP Comms link to UKMO	N/A	N/A	N/A	N/A	N/A
		X.25 Comms link to UKMO	N/A	N/A	N/A	N/A	N/A
		Systems Maintenance	N/A	N/A	N/A	N/A	N/A
		Communications	760	1,567	7,500	319	1,025
		Maintenance	4,583	9,169	6,500	7,210	9,347
		T&RE	870	3,200	4,750	2,798	3,263
Sadis Gateway Upgrade (Capital Project)	r	Capitalised Staff Costs	N/A	0	20,301	N/A	N/A
Cost of Depreciated Capital		Capital Investments	37,466	37,466	20,443	37,466	37,466
		Interest @ 5.88%	8,786	8,786	10,983	6,590	6,590
SADIS Backup Enhancement		Procurement & Installation	0	0	0	0	0
		Annual support costs	0	0	0	0	0
Total NATS Gateway Costs			310,861	337,708	357,974	305,428	336,683
CAA Administration Costs	s		4,087	4,000	5,000	4,000	4,000
ICAO Administration Costs	t		42,477	39,892	39,892	45,176	45,176
TOTAL SADIS COSTS			668,603	702,193	779,978	595,709	639,011

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