

SADIS COST RECOVERY & ADMINISTRATIVE GROUP (SCRAG)

TWENTY-FIFTH MEETING

(Virtual, 3 December 2024)

AMENDMENT TO ANNEX I OF THE SADIS AGREEMENT

(Presented by the United Kingdom)

REFERENCES

METP-WG/MOG/15-Report Paragraph 3.5.1
SCRAG/24

1. Introduction

1.1 This paper presents a reminder and an opportunity to review the SADIS Agreement, Annex I - *SADIS Services*. It was last updated at SCRAG 23 in response to recommendations of the Met Panel Met Operations Group (METP-WG/MOG), at its Twenty Second meeting (Kansas City, 5-4 May 2023).

2. Discussion

2.1 The METP-WG/MOG 26 (6-7 June 2024) agreed a number of changes to Annex 1 of the SADIS Agreement that relate to the introduction of the new SADIS API system.

2.2 The following changes are proposed:

- Specific references that apply to both the SADIS FTP and SADIS API are changed to just say “SADIS”
- There are now two SADIS user guides (one for the FTP and one for the API) so language changed to accommodate both of them
- Section 5 talked about the FTP protocol, so it has been changed to talk about connection to SADIS generally and then describe the FTP and API access methods
- Section 6 gains a line to talk about the daily number of requests cap for the SADIS API
- Section 7 has been adapted to describe security relating to the API as well as FTP systems

3. Action by the group

3.1 The Group is invited to review the proposed amendments to Annex I, SADIS inventory, to the SADIS Agreement. If any changes are suggested, these will be taken forward to the MOG SADIS meeting for approval in June 2025.

APPENDIX A – SADIS Agreement Annex I.

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

ANNEX I

SADIS SERVICES

(~~2022-2023~~-2024)

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 **(Parts 1 and 2) of the service.**

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 ~~FTP~~ service is via the USA administered, WAFS Information File Service (WIFS). SADIS ~~FTP~~ 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 ~~Part 1 (Administrative)~~.

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. ~~File transfer protocol service~~ 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. ~~Provision of facilities dedicated to establishing and receiving an FTP connection, using password protected access, to the SADIS FTP server that enables the transfer of WAFS upper air forecasts in GRIB code, WAFS SIGWX forecasts in BUFR code, WAFS SIGWX forecasts in PNG chart form and OPMET data over the Public Internet. The FTP service implements~~ 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 conforms to the EUROCONTROL SWIM Yellow Profile, 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 ~~FTP~~ 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 ~~FTP server~~ 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 passwords** secure;
- c) The SADIS Manager reserves the right to suspend or terminate a user's access to **the SADIS FTP Server** **if the obligations set out in 6b, 6d, 7b or the SADIS API licence agreement** ~~the users use of the system or the user has failed to observe the obligations of 7-b)~~ 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 **FTP Server systems** in the event of a security threat and users acknowledge that access to the SADIS **FTP Server systems** may be restricted or unavailable until such time the security threat has been resolved.

Glossary of abbreviations

API	Application Programming Interface
<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
SWIM	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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