



*International Civil Aviation Organization*

**SIXTEENTH MEETING OF THE  
COMMUNICATIONS/NAVIGATION/SURVEILLANCE AND  
METEOROLOGY SUB-GROUP (CNS/MET SG/16) OF APANPIRG**

Bangkok, Thailand, 23 – 27 July 2012

**Agenda Item 8: Regional Implementation of the World Area Forecast System**

- 3) Other WAFS (ISCS/WIFS & SADIS/Secure SADIS FTP)

**SUMMARY OF RECENT AND FORTHCOMING  
DEVELOPMENTS TO THE SADIS**

(Presented by the SADIS Provider)

**SUMMARY**

This paper describes SADIS developments since July 2011. Some of these developments have had a direct impact on end users. A number of important developments are planned to the SADIS in future years and these are highlighted in this paper for the consideration of the group.

This paper relates to –

**Strategic Objectives:**

A: *Safety – Enhance global civil aviation safety*

**Global Plan Initiatives:**

GPI-19 Meteorological Systems

**1. INTRODUCTION**

1.1 This paper presents developments to the SADIS since the last meeting of the CNS/MET SG/15 in July 2011. For more details of the activities of the SADIS, users may wish to review information available on the ICAO SADIS Operations Group website at URL: <http://www.icao.int/safety/meteorology/sadisopsg/Pages/default.aspx>.

**2. RECENT DEVELOPMENTS**

**2.1 Update on SADIS 2G data losses reported by some users**

The SADIS Provider, in coordination with the SADIS Gateway Provider and the SADISOPSG<sup>1</sup> Technical Developments Team have determined that the integrity and quality of the SADIS 2G

<sup>1</sup> Satellite Distribution System Operations Group

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broadcast meets the requirements as stated in section 10.2.1 of ICAO Annex 10 Volume III, and as such the investigation into these issues has been closed.

It has been demonstrated that the vast majority of data loss reports are due to local equipment or reception issues, over which the SADIS Provider has no direct control. The SADIS Provider welcomes all feedback relating to missing or corrupt data on the SADIS 2G broadcast, but users should ensure that their systems (hardware and software) are maintained to a high standard in order to reduce the likelihood of data problems.

*Suggested action: Note this information.*

**2.2 Availability of harmonized WAFS CB cloud, icing and turbulence Forecasts in GRIB2 format**

On the 29th November 2011, harmonized forecasts of CB cloud, icing and turbulence produced by the World Area Forecast Centres (WAFCs) was made available via SADIS FTP and Secure SADIS FTP (and also WAFS Internet File Service (WIFS)).

*Suggested action: Note this information.*

**2.3 Harmonization of SADIS and WIFS with SADIS User Guide Annex 1**

The meeting will be aware that the requirements for provision of METARs, SPECIs and TAFs via SADIS and WIFS are given in SADIS User Guide Annex 1. The meeting will be further aware that in previous years there has been an ongoing requirement to harmonize such data between SADIS and (as then was) ISCS to a target level of 95% or greater. With the withdrawal of ISCS, SADISOPSG/17<sup>2</sup> concluded that there would be **no requirement** for future *direct* harmonization/alignment efforts between SADIS and WIFS in this regard. Both services will align their services such that METAR/SPECI/TAF are compliant with SADIS User Guide Annex 1.

*Suggested action: Note this information.*

**2.4 Access to Internet based services (SADIS FTP/Secure SADIS FTP/WIFS).**

The policies regarding the development of clear guidelines with regard to the accessing of data from SADIS FTP/Secure SADIS FTP and from WIFS have been endorsed by WAFSOPSG<sup>3</sup>, SADISOPSG and SCRAG<sup>4</sup>. These policies also include a distinction between what is considered operational and non-operational use. This particular subject will be addressed in more detail by a separate paper presented to the meeting.

*Suggested action: Note this information.*

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<sup>2</sup> 29-31 May 2012, Cairo, Egypt

<sup>3</sup> World Area Forecast System Operations Group

<sup>4</sup> SADIS Cost Recovery Administrative Group

## 2.5 **SADIS User Guide - 5th Edition**

In light of a number of substantial updates to the SADIS User guide, SADISOPSG/17 endorsed a new, 5th edition. This 5th edition incorporates a new Annex - namely SUG Annex 5 - that is intended to include all data transmitted via SADIS that is not already covered by SUG Annex 1 (METARs, SPECIs, TAFs) and SUG Annex 4 (WAFS forecasts). Non-WAFS data that had previously been included in SUG Annex 4 has now been moved to the new SUG Annex 5. This Annex will be developed as necessary going forward.

***Suggested action:** Note this information.*

## 2.6 **SADIS 2G ISDN backup infrastructure.**

SADISOPSG/17 endorsed the operational status of the SADIS 2G ISDN backup infrastructure. This increases the resilience of the service.

***Suggested action:** Note this information.*

## 3. **FORTHCOMING DEVELOPMENTS**

### 3.1 **Future requirements of a SADIS satellite broadcast beyond 2015**

SADISOPSG/15<sup>5</sup> determined that the satellite based infrastructure of SADIS will be retained until at least 2015. Following a survey of States with regard to their preferences in relation to ongoing satellite based delivery presented to SADISOPSG/16<sup>6</sup>, and a more detailed evaluation of options presented to SADISOPSG/17, SADISOPSG determined that an ad hoc team develop recommendations to be put to the ICAO Divisional Meeting in 2014. The recommendations will be presented to SADISOPSG/18<sup>7</sup> for final review and endorsement for presentation to the ICAO Divisional meeting.

***Suggested action:** Note this information. Users should keep up to date with developments in this matter. States/users should respond in a timely fashion to any future requests for input on this subject in order to ensure their opinions are noted and considered.*

### 3.2 **Cessation of the SADIS FTP service 30th November 2012.**

The SADIS FTP service was originally intended to be fully replaced by the Secure SADIS FTP service by November 2011 and as such withdrawn from service. An extension of one year was granted at the SADISOPSG/16 meeting but at SADISOPSG/17 it was confirmed that the SADIS FTP service **will** be withdrawn on 30th November 2012. There will be no further extension.

It is of **urgent** importance that those users who take the SADIS FTP service formally register for Secure SADIS FTP accounts (contact the SADIS Manager, [chris.tyson@metoffice.gov.uk](mailto:chris.tyson@metoffice.gov.uk)), AND, contact their workstation/software supplier to ensure that their systems have been upgraded and are compatible with Secure SADIS FTP.

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<sup>5</sup> 26-28 May 2010, Paris, France

<sup>6</sup> 23-25 May 2011, Paris, France

<sup>7</sup> Provisional May 2013, Dakar, Senegal

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**Suggested action:** Note this information. Users **must make all efforts** to migrate to Secure SADIS FTP before end of November 2012 or risk losing access to the Internet based provision of SADIS.

**3.3 Backup/Contingency for Secure SADIS FTP service**

SADIS users are encouraged to apply for WIFS accounts for the establishment of backup/contingency processes in the rare event of a failure of SADIS (satellite and Internet based services). Users should note that there are now agreed policies with regard to accessing data from SADIS and WIFS, and the use of such backup/contingency accounts. Details are available on the SADISOPSG Website <http://www.icao.int/safety/meteorology/sadisopsg/SADIS%20User%20Guide/Obtaining%20access%20to%20WIFS%20as%20a%20backup%20to%20SADIS%20FTP.pdf>. It is the user's responsibility to apply for and arrange a WIFS account. *The SADIS Provider will not arrange such accounts on behalf of users.*

**Suggested action:** Note this information. Users are encouraged to apply for WIFS accounts for use in backup/contingency circumstances. A reciprocal arrangement exists for WIFS users.

**3.4 Provision of Special Air Reports on SADIS**

Noting that there is no requirement in ICAO Annex 3 to provide Special Air Reports via SADIS, the SADISOPSG nonetheless re-affirmed the requirement (originally expressed at the SADISOPSG/1<sup>8</sup> meeting) that Special Air Reports be disseminated via SADIS. It was also noted, and reported to the METWSG/4 meeting, that many Special Air Reports did not comply with the appropriate guidelines in WMO 386 in relation to allocation of WMO Abbreviated Header Line (AHL). The SADIS Provider State encourages all States to forward Special Air Reports to the SADIS Gateway, with the correct WMO AHL, for onward distribution via SADIS.

**Suggested action:** Note this information. States are encouraged to forward Special Air Reports to the SADIS Gateway, with the correct WMO AHL for onward distribution via SADIS.

**3.5 Feasibility study into the increase of Secure SADIS FTP bandwidth.**

The SADISOPSG/17 endorsed a feasibility study into the provision of increased bandwidth for Secure SADIS FTP.

**Suggested action:** Note this information.

**3.6 Proposal for alternative topology/systems for monitoring SADIS 2G downlink.**

In light of ongoing problems with regard to implementing a fully functioning 'Comparator' system at the SADIS Provider's site for fully automated monitoring of the SADIS 2G downlink, and with the aim to make use of recently updated systems, the SADISOPSG endorsed the development of an alternative system for monitoring the SADIS 2G downlink. This is expected to be implemented over the coming 12 months.

**Suggested action:** Note this information.

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<sup>8</sup> 10-14th June 1996, Paris, France

**4. ACTION BY THE MEETING**

4.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any relevant matters as appropriate.

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