



International Civil Aviation Organization

**NINETEENTH MEETING OF THE METEOROLOGY SUB-GROUP
(MET SG/19) OF APANPIRG**

Bangkok, Thailand, 3 – 6 August 2015

Agenda Item 6: Research, development and implementation issues in the MET field

6.4) OPMET exchange

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

(Presented by the SADIS Provider)

SUMMARY

This paper reports on the progress of the SADIS since the last meeting of the Asia/Pacific MET Sub Group in August of 2014. 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 eighteenth meeting of the Asia/Pacific MET Sub Group (18th-21st August 2014, Beijing, China). There have been no meetings of the SADISOPSG since MET SG/18. The Meteorological Panels (METP) and its constituent groups are expected to give future direction with regard to SADIS developments. In light of this, there are tasks that still require attention from the previous work program and this paper will provide information on the status of those tasks. Users are encouraged 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 Future requirements of a SADIS satellite broadcast beyond 2015

Owing to the impending decommissioning of the existing satellite platform (Intelsat 904) from which SADIS 2G is broadcast, and following briefing to and discussions with the SADISOPSG, the METP/1 meeting agreed that the SADIS 2G satellite broadcast should be withdrawn on 31 July 2016, and that it would not be replaced with an alternative satellite broadcast service.

The Secure SADIS FTP service will therefore become the sole method of accessing SADIS from 31 July 2016.

A separate paper, providing more information on this matter, is presented to this meeting.

Suggested action: *All current SADIS 2G users who have not yet obtained access to Secure SADIS FTP are encouraged by the ICAO METP and the SADIS Provider State to transition to the Secure SADIS FTP platform as early as possible. Although the SADIS 2G signal will be available until 31 July 2016, it is **strongly recommended** that all SADIS 2G migrate to Secure SADIS FTP by 1 June 2016 at the latest. This will ensure they are fully operational on Secure SADIS FTP well in advance of cessation of the SADIS 2G service.*

2.2 Implementation of WAFS re-issuance policy for WAFS GRIB2 and WAFS SIGWX forecasts

In accordance with WAFSOPSG Conclusion 7/5 (and as also noted in the separate 'Summary of Recent and Forthcoming Developments to the WAFS' Working Paper); the WAFCs have implemented processes to enable the transmission of corrections to WAFS SIGWX and WAFS GRIB2 forecasts in the event that errors or corruptions are identified. Information with regard to the methodology is provided in Appendix A of the separate "Summary of recent and forthcoming developments to the WAFS" paper presented to this meeting. *Note: The above policy refers only to corrections and does not concern amendments for which there is no requirement.*

The Secure SADIS FTP service was modified accordingly to ensure that the system processed the correction bulletins in an appropriate manner.

Suggested action: *It is recommended that users of WAFS data confirm with their software providers that their systems can process corrected WAFS data.*

2.3 Provision of one-minute updates to traditional alphanumeric OPMET data on Secure SADIS FTP

A change was implemented to permit access to one-minute updates of traditional alphanumeric OPMET data via Secure SADIS FTP on 29 Oct 2014 at 1200 UTC. This addresses WAFSOPSG Conclusion 8/7; and SADISOPSG Conclusion 19/19.

Suggested action: *It is recommended that users of WAFS data confirm with their software providers that their systems can process the one minute update data.*

2.4 Additional Alphanumeric Bulletins in OPMET_LAST_5MINS and OPMET_LAST_MINUTE files

Following a request from IATA, the OPMET_LAST_5MINS and OPMET_LAST_MINUTE files on Secure SADIS FTP were updated to include additional data alphanumeric bulletins. This was implemented on 18 February 2015.

Suggested action: It is recommended that users of WAFS data confirm with their software providers that their systems can process the one minute update data.

2.5 Removal of redundant folders on Secure SADIS FTP

Redundant folders relating to GRIB1 and Trial WAFS products were deleted from Secure SADIS FTP on 12 August 2014. For reference, the folders affected are listed below.

- a) GRIB1;
- b) GRIB2/COMPRESSED/EGRR/TRIAL_FORECASTS; and
- c) GRIB2/COMPRESSED/KWBC/TRIAL_FORECASTS

Suggested action: Note this information.

2.6 Increase of Secure SADIS FTP Individual client connections limit

Individual client connections to Secure SADIS FTP have had the limit raised from 512Kbit/sec to 1024Kbit/sec. This has been undertaken by the SADIS Provider to optimize the existing bandwidth. The overall bandwidth available (between the SADIS Provider and the SADIS Provider's Internet Service Provider) remains unchanged at 16Mbit/sec bursting to 24Mbit/sec.

Suggested action: Note this information.

3. FORTHCOMING DEVELOPMENTS

3.1 SADIS Gateway mid-life upgrade

The SADIS Gateway Mid-Life Upgrade is planned to become operational by September 2015. This will continue to provide the existing functionality in addition to a SADIS Reception Comparator function to monitor 'round-trip' quality of alphanumeric OPMET data on the SADIS system.

The impact for the transition is expected to be minimal but NOUK routine notification admin messages will be distributed on SADIS to advise of exact dates and times.

Suggested action: Note this information.

4. STANDING ARRANGEMENTS

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

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. Users should note that there are 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 establish and regularly test backup accounts with the alternative provider to be used in the rare event that their normal service (Secure SADIS FTP or WIFS, as specified by Regional Air Navigation Plan) is unavailable.*

5. ACTION BY THE MEETING

5. The meeting is invited to:
- a) note the information contained in this paper; and
 - b) discuss any relevant matters as appropriate.
