



WORKING PAPER

SATELLITE DISTRIBUTION SYSTEM OPERATIONS GROUP (SADISOPSG)

THIRTEENTH MEETING

Dakar, Senegal, 27 to 29 May 2008

Agenda Item 6: Development of the SADIS

6.2: Report of the SADISOPSG Strategic Assessment Team

ASSESSMENT RELATED TO YEARS 2008-2012

(Presented by the Rapporteur)

SUMMARY

This paper presents the Strategic Assessment Tables containing data reviewed and endorsed by those MET subgroups of the APANPIRG, APIRG and EANPG which have held meetings during the past 12-month period. The MIDANPIRG has not held a MET sub-group meeting during the past 12-months.

1. INTRODUCTION

1.1 The group will recall that the SADISOPSG/3 Meeting agreed that the appropriate sub-groups of the ASIA/PAC Air Navigation Planning and Implementation Regional Group (APANPIRG), the AFI Planning and Implementation Regional Group (APIRG), the European Air Navigation Planning Group (EANPG), and the Middle East Air Navigation Planning and Implementation Regional Group (MIDANPIRG) maintain the Strategic Assessment Tables on an annual basis and forward them to the SADISOPSG in time for each SADISOPSG meeting ((Draft) Decision on Strategic Assessment Tables refers). In this context, it was also agreed that each ICAO region would identify annually their 5-year estimates of projected volumes of data and products to be provided to the SADIS gateway. The SADIS Provider State agreed to undertake to collate reports from the ICAO regions and generate updated tables of projected impacts on the SADIS.

1.2 The draft Strategic Assessment Tables have been collated by the SADIS Provider State on behalf of the SADISOPSG Strategic Assessment Team for the purposes of planning resources for the next 5 years (2008 to 2012 inclusive).

2. DISCUSSION

2.1 The summary, together with the Strategic Assessment Tables, from all the ICAO regions concerned (AFI, ASIA, EUR and MID) are in Appendix A and B, respectively.

2.2 The group is invited to review the content and the format of the strategic assessment tables. It may be noted that the current figures for 2008 have been obtained from an analysis of the OPMET data promulgated to SADIS via the SADIS gateway. On completion of this review, the group may wish to request that ICAO forward copies of the tables to the MET sub-groups of the PIRGs concerned so that they may form the basis for the next regional update in respect of future SADIS requirements, including the figures pertaining to the year 2012. In this regard, the group may wish to formulate the following conclusion:

Conclusion 13/.. — SADIS Strategic Assessment Tables

That,

- a) the SADIS Provider State take note of the completed SADIS Strategic Assessment Tables, provided in Appendix¹ to this report, to form the basis for the future development of the SADIS; and
- b) the Secretariat forward the SADIS Strategic Assessment Tables to the sub-groups of the PIRGs concerned for update in respect of future requirements.

Note 1.— Any major changes to the SADIS will be subject to draft conclusions, to be formulated by the SADISOPSG, to be endorsed by the relevant PIRGs, and to be noted, as necessary, by the Commission or Council.

Note 2.— Completed SADIS Strategic Assessment Tables are provided by ICAO Regional Offices to the SADISOPSG following consideration at appropriate sub-group meetings of the PIRGs concerned.

3. ACTION BY THE SADISOPSG

3.1 The SADISOPSG is invited to:

- a) note the information in this paper; and
- b) decide on the draft conclusion proposed for the group's consideration.

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¹ In the appendix to this working paper

APPENDIX A

SUMMARY OF THE STRATEGIC ASSESSMENT TABLES: CURRENT AND PROJECTED DATA VOLUMES 2009-2012

Table 1. OPMET data volumes per day (in K bytes)

<i>Region</i>	<i>Current 2008</i>	<i>Projected 2009</i>	<i>Projected 2010</i>	<i>Projected 2011</i>	<i>Projected 2012</i>
AFI	783	704	715	726	-
ASIA	998	1085	1124	1163	-
EUR	4336	4616	4773	4929	-
MID	323	283	283	283	-
TOTAL	6440	6688	6895	7101	-

Table 2. BUFR data volumes per day (in K bytes)

<i>Region</i>	<i>Current 2008</i>	<i>Projected 2009</i>	<i>Projected 2010</i>	<i>Projected 2011</i>	<i>Projected 2012</i>
AFI	0	40	40	40	-
ASIA	0	40	40	40	-
EUR	0	40	40	40	-
MID	0	0	0	0	-
TOTAL	0	120	120	120	-

Table 3. AIS data volumes per day (in K bytes)

<i>Region</i>	<i>Current 2008</i>	<i>Projected 2009</i>	<i>Projected 2010</i>	<i>Projected 2011</i>	<i>Projected 2012</i>
AFI	0	20	20	20	-
ASIA	0	20	20	20	-
EUR	25	20	20	20	-
MID	0	10	10	10	-
TOTAL	25	70	70	70	-

APPENDIX B

**SADIS STRATEGIC ASSESSMENT TABLES CURRENT AND
PROJECTED DATA VOLUMES 2009-2012**

Note.— 1 octet = 1 byte = 1 character.

Table 1. AFI— OPMET data volumes

<i>OPMET data</i>	<i>Current 2008</i>	<i>Projected 2009</i>	<i>Projected 2010</i>	<i>Projected 2011</i>	<i>Projected 2012</i>
ALPHANUMERIC DATA					
Number of FC bulletins issued per day	140	150	155	160	-
Number of FT bulletins issued per day	225	310	320	330	-
Number of SA bulletins issued per day	1526	1720	1740	1760	-
Number of SP bulletins issued per day	46	10	10	10	-
Number of SIGMET bulletins issued per day	20	10	10	10	-
BINARY DATA					
Number of other bulletins issued per day	0	0	0	0	-
TOTALS					
Total number of OPMET bulletins per day	1957	2200	2235	2270	-
Average size of OPMET bulletin (bytes)	400	320	320	320	-
Total estimated OPMET data volume per day (in K bytes)	783	704	715	726	-

Note 1.— Changes to the number of FC/FT bulletins may occur in late-2008 as a result of elimination of overlapping FC and FT messages.

Note 2.— No provision is being made for the distribution of BUFR-coded OPMET data. Capacity for this data may need to be included in future depending on the issuance of this data in the region.

Table 2. AFI — BUFR data volumes

<i>Graphical information in the BUFR code form</i>	<i>Current 2008</i>	<i>Projected 2009</i>	<i>Projected 2010</i>	<i>Projected 2011</i>	<i>Projected 2012</i>
TOTALS					
Total number of BUFR messages per day	0	2	2	2	-
Average size of messages (bytes)	0	20000	20000	20000	-
Total estimated volume of BUFR messages per day (in K bytes)	0	40	40	40	-

Note. — Provision is made for the potential future distribution of BUFR-encoded VAG.

Table 3. AFI — AIS data volumes

<i>AIS data</i>	<i>Current 2008</i>	<i>Projected 2009</i>	<i>Projected 2010</i>	<i>Projected 2011</i>	<i>Projected 2012</i>
ALPHANUMERIC AIS DATA (NOTAM related to volcanic ash, ASHTAM)					
Number of ASHTAM bulletins issued per day	0	2	2	2	-
Number of NOTAM bulletins issued per day	0	2	2	2	-
TOTALS					
Total number of AIS bulletins per day	0	4	4	4	-
Average size of AIS bulletin (byte)	0	5000	5000	5000	-
Total estimated volume of AIS data per day (in K bytes)	0	20	20	20	-

Note. — Provision is made for the distribution of ASHTAM and NOTAM related to volcanic ash.

Table 4. ASIA— OPMET data volumes

<i>OPMET data</i>	<i>Current 2008</i>	<i>Projected 2009</i>	<i>Projected 2010</i>	<i>Projected 2011</i>	<i>Projected 2012</i>
ALPHANUMERIC DATA					
Number of FC bulletins issued per day	350	350	375	400	-
Number of FT bulletins issued per day	255	260	265	270	-
Number of SA bulletins issued per day	1835	1800	1850	1900	-
Number of SP bulletins issued per day	3	45	50	55	-
Number of SIGMET bulletins issued per day	53	45	50	55	-
BINARY DATA					
Number of other bulletins issued per day	0	0	0	0	-
TOTALS					
Total number of OPMET bulletins per day	2496	2500	2590	2680	-
Average size of OPMET bulletin (bytes)	400	434	434	434	-
Total estimated OPMET data volume per day (in K bytes)	998	1085	1124	1163	-

Note 1.— Changes to the number of FC/FT bulletins may occur in late-2008 as a result of elimination of overlapping FC and FT messages.

Note 2.— No provision is being made for the distribution of BUFR-coded OPMET data. Capacity for this data may need to be included in future depending on the issuance of this data in the region.

Table 5. ASIA — BUFR data volumes

<i>Graphical information in the BUFR code form</i>	<i>Current 2008</i>	<i>Projected 2009</i>	<i>Projected 2010</i>	<i>Projected 2011</i>	<i>Projected 2012</i>
TOTALS					
Total number of BUFR messages per day	0	2	2	2	-
Average size of messages (bytes)	0	20000	20000	20000	-
Total estimated volume of BUFR messages per day (in K bytes)	0	40	40	40	-

Note. — Provision is made for the potential future distribution of BUFR-encoded VAG.

Table 6. ASIA — AIS data volumes

<i>AIS data</i>	<i>Current 2008</i>	<i>Projected 2009</i>	<i>Projected 2010</i>	<i>Projected 2011</i>	<i>Projected 2012</i>
ALPHANUMERIC AIS DATA (NOTAM related to volcanic ash, ASHTAM)					
Number of ASHTAM bulletins issued per day	0	2	2	2	-
Number of NOTAM bulletins issued per day	0	2	2	2	-
TOTALS					
Total number of AIS bulletins per day	0	4	4	4	-
Average size of AIS bulletin (byte)	0	5000	5000	5000	-
Total estimated volume of AIS data per day (in K bytes)	0	20	20	20	-

Note.— Provision is made for the distribution of ASHTAMs and NOTAMs related to volcanic ash.

Table 7. EUR— OPMET data volumes

<i>OPMET data</i>	<i>Current 2008</i>	<i>Projected 2009</i>	<i>Projected 2010</i>	<i>Projected 2011</i>	<i>Projected 2012</i>
ALPHANUMERIC DATA					
Number of FC bulletins issued per day	1467	1500	1550	1600	-
Number of FT bulletins issued per day	506	550	600	650	-
Number of SA bulletins issued per day	8291	9000	9250	9500	-
Number of SP bulletins issued per day	423	220	240	260	-
Number of SIGMET bulletins issued per day	55	110	120	130	-
Number of GAMET/AIRMET bulletins per day	98	130	140	150	-
BINARY DATA					
Number of other bulletins issued per day	1	2	2	2	-
TOTALS					
Total number of OPMET bulletins per day	10841	11512	11902	12292	-
Average size of OPMET bulletin (bytes)	400	401	401	401	-
Total estimated OPMET data volume per day (in K bytes)	4336	4616	4773	4929	-

Note 1.— Modest provision is made for the potential distribution of graphical SIGMET in future years.

Note 2.— Changes to the number of FC/FT bulletins may occur in late-2008 as a result of elimination of overlapping FC and FT messages.

Note 3.— No provision is being made for the distribution of BUFR-coded OPMET data. Capacity for this data may need to be included in future depending on the issuance of this data in the region.

Table 8. EUR — BUFR data volumes

<i>Graphical information in the BUFR code form</i>	<i>Current 2008</i>	<i>Projected 2009</i>	<i>Projected 2010</i>	<i>Projected 2011</i>	<i>Projected 2012</i>
TOTALS					
Total number of BUFR messages per day	0	2	2	2	-
Average size of messages (bytes)	0	20000	20000	20000	-
Total estimated volume of BUFR messages per day (in K bytes)	0	40	40	40	-

Note. — Provision is made for the potential future distribution of BUFR-encoded VAG.

Table 9. EUR — AIS data volumes

<i>AIS data</i>	<i>Current 2008</i>	<i>Projected 2009</i>	<i>Projected 2010</i>	<i>Projected 2011</i>	<i>Projected 2012</i>
ALPHANUMERIC AIS DATA (NOTAM related to volcanic ash, ASHTAM)					
Number of ASHTAM bulletins issued per day	3	2	2	2	-
Number of NOTAM bulletins issued per day	2	2	2	2	-
TOTALS					
Total number of AIS bulletins per day	5	4	4	4	-
Average size of AIS bulletin (byte)	5000	5000	5000	5000	-
Total estimated volume of AIS data per day (in K bytes)	25	20	20	20	-

Note. — Provision is being made for the distribution of ASHTAM and NOTAM related to volcanic ash.

Table 10. MID— OPMET data volumes

<i>OPMET data</i>	<i>Current 2008</i>	<i>Projected 2009</i>	<i>Projected 2010</i>	<i>Projected 2011</i>	<i>Projected 2012</i>
ALPHANUMERIC DATA					
Number of FC bulletins issued per day	28	40	40	40	-
Number of FT bulletins issued per day	125	145	145	145	-
Number of SA bulletins issued per day	642	700	700	700	-
Number of SP bulletins issued per day	5	10	10	10	-
Number of SIGMET bulletins issued per day	8	10	10	10	-
BINARY DATA					
Number of other bulletins issued per day	0	0	0	0	-
TOTALS					
Total number of OPMET bulletins per day	808	905	905	905	-
Average size of OPMET bulletin (bytes)	400	313	313	313	-
Total estimated OPMET data volume per day (K bytes)	323	283	283	283	-

Note 1.— Changes to the number of FC/FT bulletins may occur in late-2008 as a result of elimination of overlapping FC and FT messages.

Note 2.— No provision is being made for the distribution of BUFR-coded OPMET data. Capacity for this data may need to be included in future depending on the issuance of this data in the region.

Table 11. MID — BUFR data volumes

<i>Graphical information in the BUFR code form</i>	<i>Current 2008</i>	<i>Projected 2009</i>	<i>Projected 2010</i>	<i>Projected 2011</i>	<i>Projected 2012</i>
TOTALS					
Total number of BUFR messages per day	0	0	0	0	-
Average size of messages (bytes)	0	0	0	0	-
Total estimated volume of BUFR messages per day (in K bytes)	0	0	0	0	-

Note. — No potential future distribution of BUFR-encoded VAG expected as no VAAC are located in the MID Region.

Table 12. MID — AIS data volumes

<i>AIS data</i>	<i>Current 2008</i>	<i>Projected 2009</i>	<i>Projected 2010</i>	<i>Projected 2011</i>	<i>Projected 2012</i>
ALPHANUMERIC AIS DATA (NOTAM related to volcanic ash, ASHTAM)					
Number of ASHTAM bulletins issued per day	0	1	1	1	-
Number of NOTAM bulletins issued per day	0	1	1	1	-
TOTALS					
Total number of AIS bulletins per day	0	2	2	2	-
Average size of AIS bulletin (byte)	0	5000	5000	5000	-
Total estimated volume of AIS data per day (in K bytes)	0	10	10	10	-

Note. — Modest provision is made for the distribution of ASHTAM and NOTAM related to volcanic ash.

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