



*International Civil Aviation Organization*

**Seventh Meeting of CNS/MET Sub-Group of APANPIRG and  
Tenth Meeting of CNS/ATM IC Sub-Group of APANPIRG**

Bangkok, Thailand, 15 – 21 July 2003

**Agenda Item 8 (1):      Review Implementation of ISCS and SADIS**

**SADIS STRATEGIC ASSESSMENT TABLES**

(Presented by United Kingdom)

**SUMMARY**

Draft Strategic Assessment Tables for the ASIA/PAC region for years 2003 to 2007 inclusive are contained in this paper for consideration and amendment as required

**1.            Introduction**

The SADISOPSG/3 Draft Decision on Strategic Assessment Planning identified:

That, the appropriate sub-groups of the APANPIRG, APIRG, EANPG, and MIDANPIRG maintains the Strategic Assessment Tables .... on an Annual basis and forward them to the SADISOPSG in time for each SADISOPSG meeting.

The Strategic Assessment Report presented to the SADISOPSG/3 identified the annual actions to be undertaken:

Each ICAO region to identify their 5-year estimates of projected volumes of data and products to be provided to Europe for the SADIS gateway.

*W AFC London agreed to undertake to collate reports from the ICAO regions and generate updated tables of projected impacts on the SADIS.*

**2.            Discussion**

2.1            Suggested information for years 2003 to 2007 inclusive are contained in an annex to this paper. Figures for 2003 are based on the current broadcast schedule. Figures for 2004 through 2007 are presented as an estimate only, and it is the task of the CNS/MET sub-group to modify these as appropriate.

2.2            Following the cessation of broadcasting WT-bulletins on SADIS and the introduction of FK-bulletins and EUR region AIRMET and GAMET forecasts, the format of the OPMET tables have been changed to incorporate these modifications.

2.3            It should be noted that the figures provided under “current OPMET” [for year 2003] have been established by carrying out a manual examination of the bulletins promulgated on SADIS during one day in early March 2003. The bulletins were categorised into the four different ICAO regions served by SADIS by identifying the regions in which they were compiled. Bulletins compiled in regions NAT, NAM, CAR, PAC and SAM were not included in the analysis because Strategic

Assessment Tables are not produced for these regions. It should be appreciated that some bulletins compiled in one region contain reports produced in a different region. For example, a bulletin compiled in the UK (region EUR) which contains reports from South America (region SAM) will be placed in the table under EUR. Therefore the figures provided below relate to the number of bulletins per region that have been compiled in each region and promulgated via SADIS. A thorough examination that traces every SADIS bulletin back its production region is not practical for the SADIS provider to implement.

2.4 The manual process that was employed to obtain the figures for 2003 was clearly different in methodology from the automated process that was used during previous years to obtain similar information. The automated process that was previously used was unavailable this year because the application that was required to construct the figures was not compatible with the new Met Office message switch – FROST. Figures obtained via the manual process for 2003 are lower than the figures produced automatically in 2002. It is envisaged that a more stable methodology will be available in future years following the introduction of the SADIS Gateway function that will compile these figures in the future.

	2002	Current 2003
<b>ALPHANUMERIC OPMET DATA</b>		
Number of <b>FC bulletins</b> issued per day	298	106
Average number of stations per FC bulletin	6	6
Number of <b>FT bulletins</b> issued per day **	372	211
Average number of stations per FT bulletin	6	6
Number of <b>SA bulletins</b> issued per day	1643	1448
Average number of stations per SA bulletin	6	6
Number of <b>SP bulletins</b> issued per day	0	0
Number of <b>SIGMET bulletins</b> issued per day	16	25
Number of <b>FK/FVs bulletins</b> (WS<WV and WC) for relevant FIRS	-	4
<b>OTHER OPMET DATA</b>		
Number of other bulletins issued per day (please specify header(s))		
Average number of stations per bulletin		
<b>TOTALS</b>		
<b>Total number of OPMET bulletins per day</b>	<b>2340</b>	<b>1794</b>
<b>Average size of OPMET bulletin (bytes)</b>	<b>312</b>	<b>350</b>
<b>TOTAL ESTIMATED OPMET DATA VOLUME PER DAY (BYTES)</b>	<b>731K</b>	<b>628K</b>

### 3. Actions

The CNS/MET sub-group is asked to review the tables contained in the annex to this paper, and to make changes as appropriate.

**SADIS STRATEGIC ASSESSMENT TABLES  
CURRENT AND PROJECTED DATA VOLUMES 2003-2007**

Note 1: 1 octet = 1 byte = 1 character;

Note 2: low level (SWL) <FL 100; medium level (SWM): FL100 – FL 250; high level (SWH): >FL250.

**Table 1. ASIA— OPMET data volumes**

Main routing(s): AFTN, ~~Two way~~, direct line (GTS)

<i>OPMET data</i>	<i>Current 2003</i>	<i>Projected 2004</i>	<i>Projected 2005</i>	<i>Projected 2006</i>	<i>Projected 2007</i>
<b>ALPHANUMERIC DATA</b>					
Number of FC bulletins issued per day	106	110	120	130	140
Average number of stations per FC bulletin	6	6	6	6	6
Number of <b>FT bulletins</b> issued per day	211	220	230	240	250
Average number of stations per FT bulletin	6	6	6	6	6
Number of <b>SA bulletins</b> issued per day	1448	1500	1550	1600	1650
Average number of stations per SA bulletin	6	6	6	6	6
Number of <b>SP bulletins</b> issued per day	0	20	30	40	50
Number of <b>SIGMET</b> bulletins issued per day	25	25	25	25	25
Number of <b>FK/FV</b> bulletins issued per day?	4	5	5	5	5
(WS<WV and WC) for relevant FIRS					
<b>OTHER OPMET BINARY DATA</b>					
Number of other bulletins issued per day	0	0	0	0	0
(please specify header(s))					
Average number of stations per bulletin	0	0	0	0	0
<b>TOTALS</b>					
Total number of OPMET bulletins per day	1794	1880	1960	2040	2120
Average size of OPMET bulletin (bytes)	350	350	350	350	350
Total estimated OPMET data volume per day (bytes)	628K	658K	686K	714K	742K

**Table 2. ASIA — T4 Facsimile chart volumes**

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*Editorial Note.— Proposed for deletion; no requirement.*

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**Table 3. ASIA — BUFR data volumes**Main routing(s): ~~Two-way~~ SADIS/GTS

<i>BUFR SIGWX messages</i>	<i>Current 2003</i>	<i>Projected 2004</i>	<i>Projected 2005</i>	<i>Projected 2006</i>	<i>Projected 2007</i>
<b>(a) WMO Header</b>			<del>One two-way site</del>	<del>One two-way site</del>	<del>One two-way site</del>
Time(s) of issue of data (UTC)	No requirement	No requirement	0700, 1300, 1900, 0100	0700, 1300, 1900, 0100	0700, 1300, 1900, 0100
Average size of message (bytes)			15K	15K	15K
Data level (e.g. FL range or low (SWL)/medium (SWM) level)			SWL/SWM	SWL/SWM	SWL/SWM
Validity time(s) of data VT (UTC)			1200, 1800, 0000, 0600	1200, 1800, 0000, 0600	1200, 1800, 0000, 0600
<b>TOTALS</b>					
Total number of BUFR messages per day			12	12	12
Average size of messages (bytes)			15K	15K	15K
Total estimated volume of BUFR messages per day (bytes)			180K	180K	180K

Note: It is assumed that only one site will have the capacity to send BUFR information to WAFC London.

**Table 4. ASIA — AIS data volumes**Main routing(s): AFTN, ~~Two-Way~~ SADIS

<i>AIS</i> (Subject to statement of an operational requirement)	<i>Current</i> 2003	<i>Projected</i> 2004	<i>Projected</i> 2005	<i>Projected</i> 2006	<i>Projected</i> 2007
<b>ALPHANUMERIC AIS DATA</b> (e.g. NOTAMs, ASHTAMs)  Bulletin type Number of bulletins issued per day Average size of each bulletin (bytes) Bulletin type Number of bulletins issued per day Average size of each bulletin (bytes)  <b>CHART AIS DATA</b> (e.g. AIP CHARTS) Header number/Chart type (e.g. AIP) Time(S) of issue of chart (UTC) Average size of chart (bytes) Validity time of chart VT(UTC) Header number/Chart type (e.g. AIP) Time(S) of issue of chart (UTC) Average size of chart (bytes) Validity time of chart VT(UTC)  <b>TOTALS</b> Total number of AIS bulletins per day Average size of AIS bulletin (byte) Total number of AIS charts issued per day Average size of AIS chart (byte) Total estimated volume of AIS data per day (bytes)	<del>From the two-way site</del>				
	No requirement	No requirement	No requirement	No requirement	No requirement