

APPENDIX G

SADIS STRATEGIC ASSESSMENT TABLES
CURRENT AND PROJECTED OPMET DATA VOLUMES 2001-2005

ICAO REGION: AFI

TABLE 1

MAIN ROUTING(S): (E.G CAPSIN AND AFTN/GTS/SADIS TWO-WAY)

	Current 2001	Projected 2002	Projected 2003	Projected 2004	Projected 2005
ALPHANUMERIC OPMET DATA					
Number of FC bulletins issued per day	43	100	100	100	
Average number of stations per FC bulletin	8	8	8	8	
Number of FT bulletins issued per day **	216	500	500	500	
Average number of stations per FT bulletin	6	6	6	6	
Number of SA bulletins issued per day	357	500	600	650	
Average number of stations per SA bulletin	15	15	15	15	
Number of SP bulletins issued per day	0	0	0	0	
Number of SIGMET bulletins issued per day	15	25	30	35	
(WS<WV and WC) for relevant FIRS					
<u>OTHER OPMET DATA</u>					
Number of other bulletins issued per day					
(please specify header(s))					
Average number of stations per bulletin					
TOTALS					
<u>Total number of OPMET bulletins per day</u>	631	1125	1230	1285	
Average size of OPMET bulletin (bytes)	310	500	500	500	
TOTAL ESTIMATED OPMET DATA VOLUME PER DAY (BYTES)	196K	563K	615K	642K	

CURRENT AND PROJECTED T4 FACSIMILE CHART VOLUMES 2001-2005

ICAO REGION: AFI

TABLE 2

MAIN ROUTING(S): GTS

T4 FACSIMILE CHART INVENTORY	2001	Projected 2002	Projected 2003	Projected 2004	Projected 2005
Head number/Chart name	Nairobi High Level AFI SIGWX - PGHE30 HKNC				
Time of issue of chart (UTC)	0400, 1000, 1600, 2200	SEE BUFR TABLE	SEE BUFR TABLE	SEE BUFR TABLE	
Average size of chart (bytes)	100K	0	0	0	
Chart type (e.g. wind/temp/SIGWX)	SIGWX	SEE BUFR	SEE BUFR	SEE BUFR	
Chart level (FL range or medium/high level)	SWH	0	0	0	
Validity time of chart VT (UTC)	1200,1800, 0000,0600	0	0	0	
<u>High number/Chart name</u>					
Time of issue of chart (UTC)		SEE BUFR	SEE BUFR	SEE BUFR	
Average size of chart (bytes)					
Chart type (e.g. wind/temp/SIGWX)		SEE BUFR	SEE BUFR	SEE BUFR	
Chart level (FL range or medium/high level)					
Validity time of chart VT (UTC)		SEE BUFR	SEE BUFR	SEE BUFR	
<u>TOTALS</u>					
<u>Total number of T4 charts issued per day</u>	4	SEE BUFR	SEE BUFR	SEE BUFR	
<u>Average size of each chart (bytes)</u>	90K				
<u>TOTAL ESTIMATED T4 CHART DATA VOLUME PER DAY (BYTES)</u>	360K	SEE BUFR	SEE BUFR	SEE BUFR	

(Levels: medium FL 1000-250, high>FL250) (*1 octet = 8 byte = 1 character)

CURRENT AND PROJECTED BUFR DATA VOLUMES 2001 - 2005

ICAO REGION: AFI

TABLE 3

MAIN ROUTING(S): TWO-WAY SADIS/GTS

BUFR SIGWX MESSAGES	2001	Projected 2002	Projected 2003	Projected 2004	Projected 2005
WMO Header	DAKAR	DAKAR	DAKAR	DAKAR	
Time(s) of issue of data (UTC)		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/medium/high 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	
WMO Header	NAIROBI	NAIROBI	NAIROBI	NAIROBI	
Time(s) of issue of data (UTC)		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/medium/high level)		SWL/SWM	SWL/SWM	SWL/SWM	
Validity time(s) of data VT (UTC)		1200,1800, 0000,1600	1200,1800, 0000,1600	1200,1800, 0000,1600	
WMO Header	PRETORIA	PRETORIA	PRETORIA	PRETORIA	
Time(s) of issue of data (UTC)		0700,1300,1 900,0100	0700,1300,1 900,0100	0700,1300,1 900,0100	
Average size of message (bytes)		15K	15K	15K	
Data level (e.g. FL range or low/medium/high 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	
TOTALS		12	12	12	
Total number of BUFR messages per day	0	12+	12+	12+	
Average size of messages (bytes*)	0	15K	15K	15K	
TOTAL ESTIMATED VOLUME OF BUFR MESSAGES PER DAY (BYTES)		180K+	180K+	180K+	

(*1 octet = 8 byte = 1 character) (low level <FL 100, medium level: FL100 – 250, high level. FL 250) Note: It is assumed that only 3 sites will have the capacity to send BUFR information to WAFC London.

CURRENT AND PROJECTED AIS DATA VOLUMES 2001 – 2005

ICAO REGION: AFI

TABLE 4

MAIN ROUTING(S): AFTN, Two-Way SADIS

AIS (Subject to statement of an operational requirement)	2001	Projected 2002	Projected 2003	Projected 2004	Projected 2005
ALPHANUMERIC AIS DATA (e.g. NOTAMs)					
Bulletin type: NOTAMS/ASHTAMS	No Requirement	NOTAM	NOTAM	NOTAM	
Number of bulletins issued per day		100	300	300	
Average size of each bulletin (byte*)		400	400	400	
Bulletin type:					
Number of bulletins issued per day					
Average size of each bulletin (byte*)					
CHART AIS DATA (e.g. AIP CHARTS)					
Header number/Chart type (e.g. AIP)	No Requirement	AIP	AIP	AIP	
Time(S) of issue of chart (UTC)		2	4	4	
Average size of chart (bytes*)		100	100	100	
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)					
TOTALS	No Requirement				
Total number of AIS bulletins per day					
Average size of AIS bulletin (bytes)					
Total number of AIS charts issued per day					
Average size of AIS chart (bytes)					
TOTAL ESTIMATED VOLUME OF AIS DATA PER DAY (bytes)	No requirement	240K	520K	520K	

(*1 octet = 8 byte = 1 character) Note: This information releases only to Volcanic Ash, not NOTAMs and ASHTAMs.

SADIS STRATEGIC ASSESSMENT TABLES
CURRENT AND PROJECTED OPMET DATA VOLUMES 2001-2005

TABLE 5

ICAO REGION: ASIA

MAIN ROUTING(S): AFTN, Two-Way, Direct Line (GTS)
 AFTN/GTS/SADIS TWO-WAY)

(E.G CAPSIN AND

	Current 2001	Projected 2002	Projected 2003	Projected 2004	Projected 2005
ALPHNUMERIC OPMET DATA					
Number of FC bulletins issued per day	52	40	40	40	
Average number of stations per FC bulletin	6	6	6	6	
Number of FT bulletins issued per day **	252	300	300	300	
Average number of stations per FT bulletin	6	6	6	6	
Number of SA bulletins issued per day	1257	950	1000	1050	
Average number of stations per SA bulletin	6	6	6	6	
Number of SP bulletins issued per day	1	25	50	50	
Number of SIGMET bulletins issued per day	60	100	125	125	
(WS<WV and WC) for relevant FIRS					
<u>OTHER OPMET DATA</u>					
Number of other bulletins issued per day					
(please specify header(s))					
Average number of stations per bulletin					
TOTALS					
<u>Total number of OPMET bulletins per day</u>	1622	1415	1515	1565	
Average size of OPMET bulletin (bytes)	0.30	0.35	0.35	0.35	
TOTAL ESTIMATED OPMET DATA VOLUME PER DAY (BYTES)	487K	495K	530K	548K	

CURRENT AND PROJECTED T4 FACSIMILE CHART VOLUMES 2001-2005

ICAO REGION: ASIA
MAIN ROUTING(S):GTS

TABLE 6
(E.G CAPSIN AND AFTN/GTS/SADIS TWO-WAY)

T4 FACSIMILE CHART INVENTORY	2001	Projected 2002	Projected 2003	Projected 2004	Projected 2005
Head number/Chart name					
Time of issue of chart (UTC)	No Requirement	No Requirement	No Requirement	No Requirement	
Average size of chart (bytes)					
Chart type (e.g. wind/temp/SIGWX)					
Chart level (FL range or medium/high level)					
Validity time of chart VT (UTC)					
<u>High number/Chart name</u>					
Time of issue of chart (UTC)					
Average size of chart (bytes)					
Chart ape (e.g. wind/temp/SIGWX)					
Chart level (FL range or medium/high level)					
Validity time of chart VT (UTC)					
<u>TOTALS</u>					
<u>Total number of T4 charts issued per day</u>					
<u>Average size of each chart (bytes)</u>					
<u>TOTAL ESTIMATED T4 CHART DATA VOLUME PER DAY (BYTES)</u>					

(Levels: medium FL 1000-250, high>FL250)

(*1 octet = 8 byte = 1 character)

CURRENT AND PROJECTED BUFR DATA VOLUMES 2001 - 2005

TABLE 7

ICAO REGION: ASIA

MAIN ROUTING(S): Two-Way, GTS

(E.G CAPSIN AND AFTN/GTS/SADIS TWO-WAY)

BUFR SIGWX MESSAGES	2001	Projected 2002	Projected 2003	Projected 2004	Projected 2005
WMO Header		One site	+ 2 other sites	+ 2 other sites	
Time(s) of issue of data (UTC)	No Requirement	0700,1300,1 900,0100	0700,1300,1 900, 0100	0700,1300,1 900, 0100	
Average size of message (bytes)		15K	15K	15K	
Data level (e.g. FL range or low/medium/high level)		SWL/SWM *	SWL/SWM*	SWL/SWM*	
Validity time(s) of data VT (UTC)		1200,1800,0 00,0600	1200,1800,0 000, 0600	1200,1800,0 000, 0600	
WMO Header					
Time(s) of issue of data (UTC)		0700,1300,1 900,0100	0700,1300,1 900, 0100	0700,1300,1 900, 0100	
Average size of message (bytes)		15K	15K	15K	
Data level (e.g. FL range or low/medium/high level)		SWL/SWM *	SWL/SWM*	SWL/SWM*	
Validity time(s) of data VT (UTC)		1200,1800,0 00,0600	1200,1800,0 000, 0600	1200,1800,0 000, 0600	
WMO Header					
Time(s) of issue of data (UTC)		0700,1300,1 900,0100	0700,1300,1 900, 0100	0700,1300,1 900, 0100	
Average size of message (bytes)		15K	15K	15K	
Data level (e.g. FL range or low/medium/high level)		SWL/SWM *	SWL/SWM*	SWL/SWM*	
Validity time(s) of data VT (UTC)		1200,1800,0 00,0600	1200,1800,0 000, 0600		
TOTALS					
Total number of BUFR messages per day		12	12	60	
Average size of messages (bytes*)		15K	15K	15K	
TOTAL ESTIMATED VOLUME OF BUFR MESSAGES PER DAY (BYTES)		180K	180K	900K	

(*1 octet = 8 byte = 1 character) (low level <FL 100, medium level: FL100 – 250, high level. FL 250)

CURRENT AND PROJECTED AIS DATA VOLUMES 2001 – 2005**(Subject to statement of an operational requirement)****ICAO REGION: ASIA****MAIN ROUTING(S): Two-Way, AFTN
AFTN/GTS/SADIS TWO-WAY)****TABLE 8****(E.G CAPSIN AND**

AIS (Subject to statement of an operational requirement)	2001	Projected 2002	Projected 2003	Projected 2004	Projected 2005
ALPHANUMERIC AIS DATA (e.g. NOTAMs)					
	From Two-Way site				
Bulletin type:	No requirement	No requirement	No requirement	No requirement	
Number of bulletins issued per day					
Average size of each bulletin (byte*)					
Bulletin type:					
Number of bulletins issued per day					
Average size of each bulletin (byte*)					
CHART AIS DATA (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)					
TOTALS					
Total number of AIS bulletins per day					
Average size of AIS bulletin (bytes)					
Total number of AIS charts issued per day					
Average size of AIS chart (bytes)					
TOTAL ESTIMATED VOLUME OF AIS DATA PER DAY (bytes)					

*1 octet = 8 byte = 1 character)

SADIS STRATEGIC ASSESSMENT TABLES
CURRENT AND PROJECTED OPMET DATA VOLUMES 2001-2005

ICAO REGION: EUR

TABLE 9

MAIN ROUTING(S): AFTN
 TWO-WAY)

(E.G CAPSIN AND AFTN/GTS/SADIS

	Current 2001	Projected 2002	Projected 2003	Projected 2004	Projected 2005
ALPHANUMERIC OPMET DATA					
Number of FC bulletins issued per day	1911	1850	1900	1950	
Average number of stations per FC bulletin	7	7	7	7	
Number of FT bulletins issued per day **	718	600	600	600	
Average number of stations per FT bulletin	7	7	7	7	
Number of SA bulletins issued per day	8559	7600	7600	7600	
Average number of stations per SA bulletin	12	12	12	12	
Number of SP bulletins issued per day	71	500	500	500	
Number of SIGMET bulletins issued per day	59	100	100	100	
(WS<WV and WC) for relevant FIRS					
<u>OTHER OPMET DATA</u>					
Number of other bulletins issued per day					
(please specify header(s))					
Average number of stations per bulletin					
TOTALS					
<u>Total number of OPMET bulletins per day</u>	11318	10650	10700	10750	
Average size of OPMET bulletin (bytes)	0.28K	0.3	0.3	0.3	
TOTAL ESTIMATED OPMET DATA VOLUME PER DAY (BYTES)	3169K	3195K	3210K	3225K	

CURRENT AND PROJECTED T4 FACSIMILE CHART VOLUMES 2001-2005

ICAO REGION: EUR

TABLE 10

MAIN ROUTING(S): GTS

(E.G CAPSIN AND
AFTN/GTS/SADIS TWO-WAY)

T4 FACSIMILE CHART INVENTORY	2001	Projected 2002	Projected 2003	Projected 2004	Projected 2005
Head number/Chart name	NO REQUIREMENT	NO REQUIREMENT	NO REQUIREMENT	NO REQUIREMENT	
Time of issue of chart (UTC)	0	0	0	0	
Average size of chart (bytes)					
Chart type (e.g. wind/temp/SIGWX)					
Chart level (FL range or medium/high level)					
Validity time of chart VT (UTC)					
<u>High number/Chart name</u>	No requirement	No requirement	No requirement	No requirement	
Time of issue of chart (UTC)					
Average size of chart (bytes)					
Chart ape (e.g. wind/temp/SIGWX)					
Chart level (FL range or medium/high level)					
Validity time of chart VT (UTC)					
<u>TOTALS</u>					
<u>Total number of T4 charts issued per day</u>					
Average size of each chart (bytes)					
TOTAL ESTIMATED T4 CHART DATA VOLUME PER DAY (BYTES)	0	0	0	0	

(Levels: medium FL 1000-250, high>FL250)

(*1 octet = 8 byte = 1 character)

CURRENT AND PROJECTED BUFR DATA VOLUMES 2001 - 2005

ICAO REGION: EUR

TABLE 11

MAIN ROUTING(S): TWO-WAY/GTS

(E.G CAPSIN AND AFTN/GTS/SADIS TWO-WAY)

BUFR SIGWX MESSAGES	2001	Projected 2002	Projected 2003	Projected 2004	Projected 2005
WMO Header	No Requirement	No Requirement	+ 3 sites		
Time(s) of issue of data (UTC)			0700,1300,1 900, 0100	0700,1300,1 900, 0100	
Average size of message (bytes)			15K	15K	
Data level (e.g. FL range or low/medium/high level)			SWL/SWM *	SWL/SWM *	
Validity time(s) of data VT (UTC)			1200,1800,0 000, 0600	1200,1800,0 000, 0600	
WMO Header					
Time(s) of issue of data (UTC)			0700,1300,1 900, 0100	0700,1300,1 900, 0100	
Average size of message (bytes)			15K	15K	
Data level (e.g. FL range or low/medium/high level)			SWL/SWM *	SWL/SWM *	
Validity time(s) of data VT (UTC)			1200,1800,0 000, 0600	1200,1800,0 000, 0600	
WMO Header					
Time(s) of issue of data (UTC)			0700,1300,1 900, 0100	0700,1300,1 900, 0100	
Average size of message (bytes)			15K	15K	
Data level (e.g. FL range or low/medium/high level)			SWL/SWM *	SWL/SWM *	
Validity time(s) of data VT (UTC)			1200,1800,0 000, 0600	1200,1800,0 000, 0600	
TOTALS					
Total number of BUFR messages per day			12	12	
Average size of messages (bytes*)			15K	15K	
TOTAL ESTIMATED VOLUME OF BUFR MESSAGES PER DAY (BYTES)	0	0	180K	180K	

(*1 octet = 8 byte = 1 character) (low level <FL 100, medium level: FL100 – 250, high level. FL 250) Note: It is assumed that only 3 sites will have the capacity to send BUFR information to WAFC London.

CURRENT AND PROJECTED AIS DATA VOLUMES 2001 – 2005

ICAO REGION: EUR

TABLE 12

MAIN ROUTING(S): AFTN, Two-Way
AND AFTN/GTS/SADIS TWO-WAY)

(E.G CAPSIN

AIS (Subject to statement of an operational requirement)	2001	Projected 2002	Projected 2003	Projected 2004	Projected 2005
ALPHANUMERIC AIS DATA (e.g. NOTAMs)					
Bulletin type:	No Requirement	NOTAMS	NOTAMS	NOTAMS	
Number of bulletins issued per day		10	10	10	
Average size of each bulletin (byte*)		400	400	400	
Bulletin type:					
Number of bulletins issued per day					
Average size of each bulletin (byte*)					
CHART AIS DATA (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)					
TOTALS					
Total number of AIS bulletins per day					
Average size of AIS bulletin (bytes)					
Total number of AIS charts issued per day					
Average size of AIS chart (bytes)					
TOTAL ESTIMATED VOLUME OF AIS DATA PER DAY (bytes)	0	4K	4K	4K	

(*1 octet = 8 byte = 1 character) Note: This information releases only to Volcanic Ash, not NOTAMs and ASHTAMs