Appendix 1

SOFTWARE FUNCTIONALITY	Available Y/N	Comments
1. Display of OPMET data		
2. GRIB decoder and display package		
3. BUFR decoder and display package		
4. Display and ability to prompt users of the arrival of chart amendments		
5. Display and ability to prompt users of the arrival of SADIS administrative messages		
6. Display of tropical cyclone advisory statements		
7. Display of volcanic ash advisory statements		
8. Display of volcanic ash trajectory/dispersion charts		
9. Display of single bulletins from the WMO header		
10. Display of Special AIREPS		
11. Ability to receive SADIS products via FTP*		

Please refer to the accompanying notes that detail the requirements

*This functionality will be a future requirement.

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Requirements

The numbers of the notes below correspond to the numbers of the 11 items listed in the table above. For a software package to receive a "Y" as opposed to a "N" in the "Available Y/N" column on the table, all of the functions detailed below need to be satisfied for each functionality item.

For every workstation provider that is happy for their software to be tested under these criteria, it our intention is to make the information available to all existing and prospective SADIS users via the SADIS web page.

1.

- The ability to receive and display OPMET data (including TAFs, METARs, SPECIs and SIGMETs) from PVC 2.
- The ability for a user to display OPMET for aerodromes specified by the user

2.

- The ability to receive and display GRIB data, sourced from Bracknell and Washington*, from PVC1.
- The functionality to enable a user to produce a wind and temperature chart from GRIB data over a user-specified area. Global coverage is required.
- A "zooming facility" for GRIB chart areas.
- A de-clutter facility, whereby the quantity of data plotted over an area is appropriate to the size of the area, and hence maximises the clarity of the end product.
- The ability to produce a wind and temperature chart from GRIB encoded data that is identical to a standard T4 wind and temperature chart for the same area. The product must clearly display whether the data is Bracknell or Washington GRIB. See Attachment A for an example.

3.

- The ability to receive and display BUFR data, sourced from Bracknell and Washington** (when it is made available) from PVC3.
- The functionality to enable a user to produce a SIGWX chart from BUFR data over a user-specified area. Global coverage is required.
- A "zooming facility" for BUFR chart areas.
- A de-clutter facility for tropopause heights, whereby the quantity of tropopause data plotted over an area is appropriate to the size of the area, and hence maximises the clarity of the end product.
- The ability to produce a SIGWX chart from BUFR encoded data that is identical to a standard T4 SIGWX chart for the same area. The product must clearly display whether the data is Bracknell or Washington BUFR.

4.

- The ability to receive (via PVC2), display and prompt users of the arrival of chart amendments. These amendments are text messages issued with the following WMO headers:

  FXUK65 EGRR T4 SIGWX chart amendments
  FXUK66 EGRR T4 Wind & Temperature Chart amendments

5.

- The ability to receive (via PVC2), display and prompt users of the arrival of SADIS administrative messages.
  These amendments are text messages issued with the following WMO headers:

  NOUK10 EGRR
  NOUK11 EGRR
  NOUK12 EGRR
  NOUK13 EGRR
  NOUK31 EGGY
  NOBX99 EBBR

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6.

- The ability to receive (via PVC2), display and prompt users of the arrival of tropical cyclone advisory statements. These bulletins are text, and the WMO headers of those currently available for dissemination on SADIS are shown below. Basically they are of the form WT**** XXXX.

WTAU01 ABRF
WTAU01 ADRM
WTAU01 YBRF
WTAU02 ABRF
WTAU02 ADRM
WTAU02 YBRF
WTAU02 YDRM
WTAU03 ABRF
WTAU03 ADRM
WTAU03 YBRF
WTAU03 YDRM
WTAU04 ABRF
WTAU04 ADRM
WTAU04 YBRF
WTAU04 YDRM
WTAU05 ABRF
WTAU05 APRF
WTAU06 APRF
WTAU07 APRF
WTAU08 APRF
WTAU10 ADRM
WTAU10 YDRM
WTBW20 VGDC
WTCN31 CWHX
WTFJ10 NFFN
WTFJ11 NFFN
WTFJ12 NFFN
WTFJ14 NFFN
WTIN20 DEMS
WTIO01 VABB
WTIO20 FMEE
WTIO20 LFPW
WTIO21 FMEE
WTIO21 PGTW
WTIO22 FMEE
WTIO22 PGTW
WTIO23 PGTW
WTIO24 FMEE
WTIO24 PGTW
WTIO25 PGTW
WTIO30 FMEE
WTIO31 FMEE
WTIO31 PGTW
WTIO32 PGTW
WTIO33 PGTW
WTIO34 PGTW
WTIO35 PGTW
WTJP21 RJTD
WTJP22 RJTD
WTJP23 RJTD
WTJP31 RJTD
WTJP31 RPLL
WTJP32 RJTD
WTJP33 RJTD
WTKO20 RKSL

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WTMG20 FMMD
WTNG01 AYPY
WTNG02 AYPY
WTNT21 KNHC
WTNT22 KNHC
WTNT23 KNHC
WTNT24 KNHC
WTNT25 KNHC
WTNT31 KNHC
WTNT32 KNHC
WTNT33 KNHC
WTNT34 KNHC
WTNT35 KNHC
WTNT41 KNHC
WTNT42 KNHC
WTNT43 KNHC
WTNT44 KNHC
WTNT45 KNHC
WTNT51 KNHC
WTNT61 KNHC
WTNT71 KNHC
WTNT72 KNHC
WTNT73 KNHC
WTNT74 KNHC
WTNT75 KNHC
WTPA21 PHFO
WTPA21 PHNL
WTPA22 PHNL
WTPA23 PHNL
WTPA24 PHNL
WTPA25 PHNL
WTPA31 PHNL
WTPA32 PHNL
WTPA33 PHNL
WTPA34 PGTW
WTPA34 PHNL
WTPA35 PGTW
WTPA35 PHNL
WTPA36 PGTW
WTPA41 PHNL
WTPA42 PHNL
WTPA43 PHNL
WTPA44 PHNL
WTPA45 PHNL
WTPA51 PHNL
WTPA61 PHNL
WTPH20 RPMM
WTPN21 PGTW
WTPN22 PGTW
WTPN23 PGTW
WTPN24 PGTW
WTPN25 PGTW
WTPN26 PGTW
WTPN31 PGTW
WTPN31 PHNC
WTPN32 PGTW
WTPN33 PGTW
WTPN34 PGTW
WTPN35 PGTW
WTPN36 PGTW

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WTPN41 PGTW
WTPN42 PGTW
WTPN43 PGTW
WTPN44 PGTW
WTPN45 PGTW
WTPN46 PGTW
WTPQ20 BABJ
WTPQ20 RJTD
WTPQ20 VHHH
WTPQ21 RJTD
WTPQ22 RJTD
WTPQ23 RJTD
WTPQ24 RJTD
WTPQ25 RJTD
WTPQ30 RJTD
WTPQ31 PGUM
WTPQ31 RJTD
WTPQ32 PGUM
WTPQ32 RJTD
WTPQ33 PGUM
WTPQ33 RJTD
WTPQ34 PGUM
WTPQ34 RJTD
WTPQ35 PGUM
WTPQ35 RJTD
WTPQ51 PGUM
WTPQ52 PGUM
WTPQ53 PGUM
WTPQ54 PGUM
WTPQ55 PGUM
WTPQ85 PGUM
WTPS01 NFFN
WTPS02 NFFN
WTPS03 NFFN
WTPS04 NFFN
WTPS11 NFFN
WTPS12 NFFN
WTPS13 NFFN
WTPS14 NFFN
WTPS21 PGTW
WTPS21 PHNC
WTPS22 PGTW
WTPS23 PGTW
WTPS24 PGTW
WTPS25 PGTW
WTPS31 PGTW
WTPS31 PHNC
WTPS32 PGTW
WTPS32 PHNC
WTPS33 PGTW
WTPS33 PHNC
WTPS34 NFFN
WTPS34 PGTW
WTPS34 PHNC
WTPS35 NFFN
WTPS35 PGTW
WTPS35 PHNC
WTPZ21 KNHC
WTPZ22 KNHC
WTPZ23 KNHC

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WTPZ24 KNHC
WTPZ25 KNHC
WTPZ31 KNHC
WTPZ32 KNHC
WTPZ33 KNHC
WTPZ34 KNHC
WTPZ35 KNHC
WTPZ41 KNHC
WTPZ42 KNHC
WTPZ43 KNHC
WTPZ44 KNHC
WTPZ45 KNHC
WTPZ61 KNHC
WTSR20 WSSS
WTSS20 VHHH
WTTH20 VTBB
WTXS21 PGTW
WTXS22 PGTW
WTXS23 PGTW
WTXS24 PGTW
WTXS25 PGTW
WTXS26 PGTW
WTXS31 PGTW
WTXS32 PGTW
WTXS33 PGTW
WTXS34 PGTW
WTXS35 PGTW
WTXS36 PGTW

7.

- The ability to receive (via PVC2), display and prompt users of the arrival of volcanic ash advisory statements. These bulletins are text, and the WMO headers of those currently available for dissemination of SADIS are listed below. These bulletins are of the form FV**** XXXX.

FVAK20 PANC
FVAK21PANC
FVAK22 PANC
FVAK23 PANC
FVAK24 PANC
FVUK01 EGRR
FVXX20 KWBC
FVXX21 KWBC
FVXX22 KWBC
FVXX23 KWBC
FVXX24 KWBC
FVXX25 KWBC
FVXX26 KWBC
FVXX27 KWBC
FVXX28 KWBC
FVXX29 KWBC
FVAZ01 LFPW
FVCM01 LFPW
FVCR01 LFPW
FVCV01 LFPW
FVET01 LFPW
FVGQ01 LFPW
FVGR01 LFPW
FVIC01 LFPW
FVIY01 LFPW
FVKN01 LFPW

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FVRE01 LFPW
FVSD01 LFPW
FVST01 LFPW
FVSY01 LFPW
FVTN01 LFPW
FVYE01 LFPW
FVZR01 LFPW
FVSV30 FDMS
FVFE01 RJTD
FVCN01 CWAO
FVCN02 CWAO
FVCN03 CWAO
FVCN04 CWAO
FVAU01 ADRM
FVPS01 NZKL

8.

- The ability to receive (via PVC3) and display volcanic ash trajectory and dispersion charts (VAG). These charts are in standard T4 format. The products currently available for dissemination on SADIS have the following WMO headers:

PFXB00 CWAO
PFXD00 CWAO
PFXG00 CWAO
PFXI00 CWAO
PFXB00 CWAO
PFXD00 CWAO
PFXG00 CWAO
PFXI00 CWAO
PHBE10 KWBC
PHBI10 KWBC
PURG00 LFPW
PVRE00 LFPW
PVRD00 LFPW
PUAG00 EGRR
PVAG00 EGRR

Additional (VAG) bulletins over and above those listed above will be broadcast on SADIS as they become available.

9.

- The functionality to enable a user to display the contents of a single bulletin by typing in the WMO header of the bulletin.

10.

- The ability to receive (via PVC2), display and prompt users of the arrival of special AIREP S. These bulletins are text, and the WMO headers of the bulletins currently available for dissemination on SADIS are listed below. The bulletins are of the form UA**** XXXX

UANT90 EGRR
UAUK90 EGRR

11. FUTURE REQUIREMENT

- The ability to receive all of the operational SADIS data (detailed in items 1- 10 above) via FTP over the Internet, and to display it using the same interface.

*It should be noted that there are some subtle differences between Bracknell and Washington GRIB data. Washington GRIB would only be transmitted over SADIS if there was a major problem with the production of Bracknell GRIB. It would only have the purpose of forming a backup to the Bracknell GRIB in the event of problems with disseminating the former.

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**Washington BUFR (when it is made available to Bracknell - it is currently under development) would only be disseminated on SADIS if there was a major problem with the production of Bracknell BUFR. It would only have the purpose of forming a backup to the Bracknell BUFR in the event of problems with disseminating the former.