

APPENDIX H**SADIS Software Functionalities for Testing****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 bulletin contents 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

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

Prompt users of the arrival of SPECIs and SIGMETs

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

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 FK**** XXXX

FKIO 20 FMEE
FK PQ 30 RJTD
FK PQ 31 RJTD
FK PQ 32 RJTD
FK PQ 33 RJTD
FK PQ 34 RJTD
FK PQ 35 RJTD

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

FVRE01 LFPW
FVSD01 LFPW
FVST01 LFPW
FVSY01 LFPW
FVTN01 LFPW
FVYE01 LFPW
FVZR01 LFPW
FVSV30 FDMS
FVFE01 RJTD
FVCN01 CWA0
FVCN02 CWA0
FVCN03 CWA0
FVCN04 CWA0
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 CWA0
PFXD00 CWA0
PFXG00 CWA0
PFXI00 CWA0
PFXB00 CWA0
PFXD00 CWA0
PFXG00 CWA0
PFXI00 CWA0
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 (including all types of bulletins except GRIB and BUFR encoded bulletins) 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 AIREPS. 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. 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.

**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.

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