



INFORMATION PAPER

SATELLITE DISTRIBUTION SYSTEM OPERATIONS GROUP (SADISOPSG)

THIRTEENTH MEETING

Dakar, Senegal, 27 to 29 May 2008

Agenda Item 6: Development of the SADIS

6.1: Report of the SADISOPSG Gateway Development Team

ANALYSIS OF SADIS GATEWAY AUTO-CORRECTION

(Presented by the SADIS Provider State)

SUMMARY

This paper provides an analysis of auto-correction activities on the SADIS Gateway

1. INTRODUCTION

1.1 This paper examines an output from the System which provides the SADIS Gateway function. The output is a log file associated with the auto-correction facility which records the actions carried out by the various auto-correction mechanisms described in the SADIS Gateway Operations Handbook.

2. DATA SOURCE AND ANALYSIS

2.1 The log file was examined for a particular day, 31st March 2008. The following correction types were identified for the day under analysis. An example of some log entries is provided below.

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Mon Mar 31 00:09:04 2008: (I): 1825 correcting report time station UA00 time 312355Z  
to day 30 FCKZ31 RUMS 302300 RRC  
Mon Mar 31 00:09:28 2008: (I): 1821 end forecast time station SAAR changed from 00 to  
24 FTAG30 SABM 310000  
Mon Mar 31 00:09:28 2008: (I): 1821 end forecast time station SABE changed from 00 to  
24 FTAG30 SABM 310000  
Mon Mar 31 00:09:28 2008: (I): 1821 end forecast time station SADF changed from 00 to  
24 FTAG30 SABM 310000
```

Mon Mar 31 00:09:28 2008: (I): 1821 end forecast time station SAZM changed from 00 to 24 FTAG30 SABM 310000
 Mon Mar 31 00:09:28 2008: (I): 1821 end forecast time station SAZN changed from 00 to 24 FTAG30 SABM 310000
 Mon Mar 31 00:09:28 2008: (I): 1821 end forecast time station SAZS changed from 00 to 24 FTAG30 SABM 310000

2.2 Each code type was identified and associated with a particular auto-correction activity defined in Section 5.3 of the SADIS Gateway Operations Handbook and the number of instances for each recorded. The results of this analysis are provided in Table 1 below .

Code	Description	Instances	Reference
1820	Extra Z removed from report (FT)	7	3.5.4 TAF Validity Period 'Z' Error
1821	End forecast time changed from 00 to 24	60	3.5.2 TAF End of Validity '24' Error
1822	Report time has Z added (FC)	78	3.5.3 TAF Forecast Origin Time Error
1825	Correcting report time date FT	6	3.5.1 TAF Validity and Origin Time Errors
1827	Correcting forecast date FT	61	3.5.5 TAF Early Validity Start Error

3. EXAMPLES

3.1 Below is a log entry and a copy of the message on which the 3.5.4 correction was carried out. The error in the TAF for OPRN is highlighted

Mon Mar 31 02:49:38 2008: (I): 1820 Extra Z removed from station OPRN message FTPK31 OPKC 302200

FTPK31 OPKC 302200
 TAF OPKC 302130 310624 24005G15KT 8000 SCT030 FM 1600 24010KT 7000
 SCT030=
 TAF OPLA 302130 310624 10010KT 4000 HZ FEW0040 SCT100 PROB30 TEMPO
 1015 12010G20KT 4000 HZ SCT040 SCT100=
 TAF OPNH 302130 310624 18010KT 5000 HZ NSC=
 TAF OPRN 302100Z 310624Z 22010KTS 8000 FEW050TCU SCT045 SCT120
 BECMG 1214 00000KT 4000 FU FEW040 BECMG 1516 CAVOK=
 TAF OPKS NIL=
 TAF OAKB NIL=
 TAF OAKN NIL=

3.2 Below is a log entry and a copy of the message on which the 3.5.2 correction was carried out.

Mon Mar 31 10:44:47 2008: (I): 1821 end forecast time station SBTf changed from 00 to 24 FTBZ20 SBEG 311040

FTBZ20 SBEG 311040
 TAF SBTf 311100Z 311200 10005KT 9999 SCT012 PROB40 1720 5000 RA SC

3.3 Below is a log entry and a copy of the message on which the 3.5.3 correction was carried out.

Mon Mar 31 10:51:22 2008: (I): 1822 report time station USCC has Z added FTRA36 RUMS 311000

_FTRA36 RUMS 311000
TAF USCC 311050 311212 VRB02MPS CAVOK 530005
BECMG 1517 2000 BR BKN010CB TEMPO 2103 1000 -SHRA
BR BECMG 0305 03006MPS 9999 SCT020=
USDD 311034Z 311212 24008G13MPS 9999 -SHSN SCT015CB BKN070
530007 TM01/18Z =
TAF USNN 311000Z NIL=
USRR 311030Z 311212 26005G10MPS 7000 NSC=
USSS 311040Z 311212 04004MPS 9999 BKN020 TEMPO 0012 2000 RA=
TAF UWUU 310950Z 311212 02006G12MPS 9999 BKN020 BKN030CB 530005
TEMPO 1218 3000 -RA BR BKN010 TEMPO 1806 1800 BR BKN006 =

3.4 Below is a log entry and a copy of the message on which the 3.5.1 correction was carried out . It should be noted that this particular correction was not valid and should be reviewed as part of the Amd 74 validation review..

Mon Mar 31 05:53:03 2008: (I): 1825 correcting report time station FLLS time 311000Z to day 30 FTZB20 FLLS 300800

FTZB20 FLLS 300800
TAF
FLLS 311000Z 311212 08005KT 9/9 SCT030 BECMG1517 10003KT CAVOK
BECMG0608 08006KT=

3.5 Below is a log entry and a copy of the message on which the 3.5.5 correction was carried out .

Mon Mar 31 16:10:18 2008: (I): 1827 correcting forecast time station OPPS time 3100 to day 01 FTPK31 OPKC 311600 RRA

FTPK31 OPKC 311600 RRA
TAF OPPS 310018 05010KTS 3000 HZ SCT040 SCT100 BECMNG 0607 23010
4000 HZ SCT040 SCT100 FM 0915 23010G25KTS 4000 HZ/
VCTS FEW035TCU SCT040 BKN100 BECMNG 1518 23010G25KTS
4000 HZ SCT040 SCT100=

4. ACTION BY THE SADISOPSG

4.1 The group is invited to note the content of this paper especially within the context of Working Paper 11.

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