



**INTERNATIONAL CIVIL AVIATION ORGANIZATION  
SOUTH AMERICAN OFFICE**

**Fourth Meeting of the Central Atlantic FIR Satellite Network (CAFSAT)  
Management Committee (CNMC/4)  
Buenos Aires, Argentina 04 - 05 August 2014**

**Agenda Item 2: Review of the performance of CAFSAT earth stations and the  
operational statistics of availability for supported links**

**CAFSAT stations availability**

(Presented by Portugal)

**Summary**

This working paper presents information on future  
CAFSAT M&C subsystem.

**1 Background**

According Conclusion CNMC 3/3 a) “SAT members shall undertake the automation of the collection of CAFSAT performance” and Decision 3/4 “A CNMC specialized Study Group be established in order to develop technical requirements for the automation of CAFSAT Performance”.

**2 Discussion**

This paper presents the tool that under the upgrade of Lisbon and Santa Maria CATSAT stations, planned to September / October 2014, will have the capability to report the availability of the stations in real time.

**3 Suggested action**

Meeting is invited to note the information of this WP.

### Station's availability

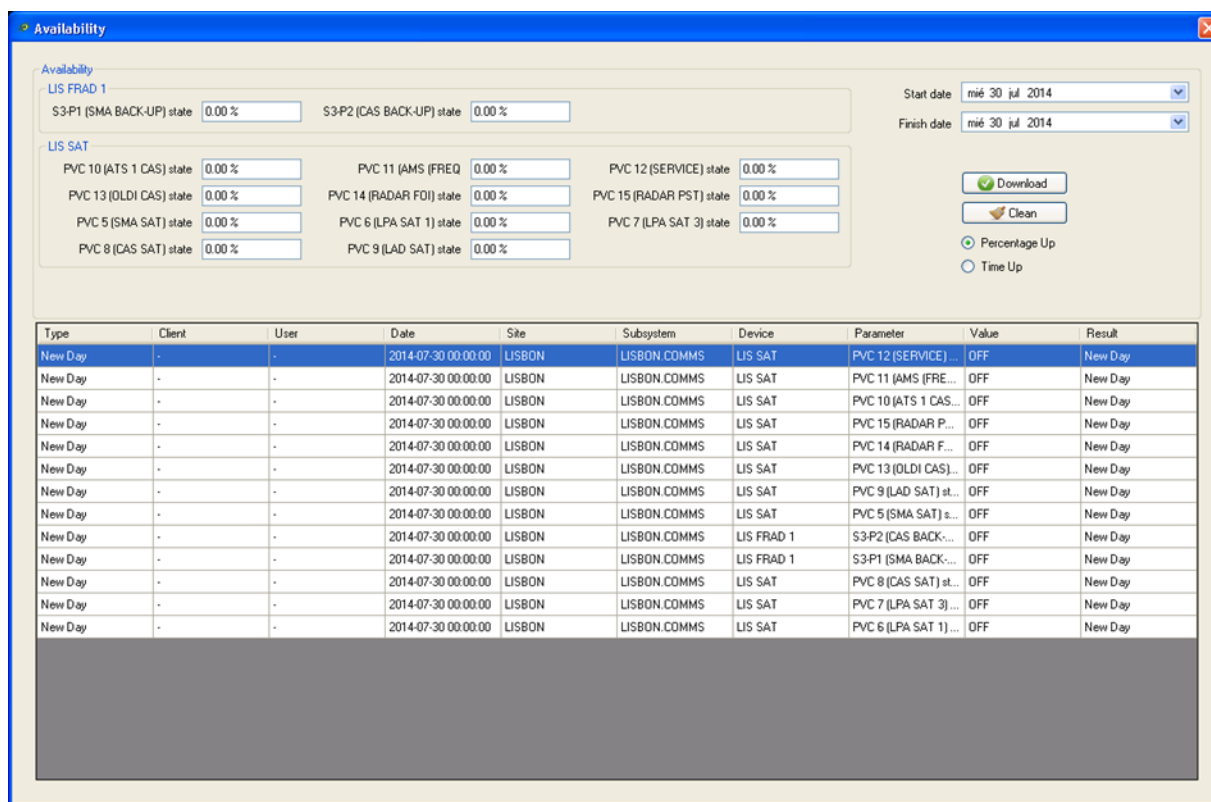
The new M&C system property of Isdefe (Siger+) provides the operator of the station with a very powerful tool designed to report the availability of the station in real time.

The system defines the set of ports and PVCs that have an impact in the availability of the station. The system calculates the amount of time that these ports and PVCs are up during certain period of time based on how much of this time every port or PVC is in "DATA" state. This period of time is selected by the user.

It can also be selected by the user if the system shows the percentage that every of those ports and PVCs are available or how much time were available.

To support this information it is also shown a table with the different states that those ports and PVCs during the selected period of time.

The picture below shows the future availability window for Lisbon CAFSAT station.



The screenshot shows a software window titled 'Availability' for station 'LIS FRAD 1'. It features several input fields for PVC states, all currently set to 0.00%. For example, S3-P1 (SMA BACK-UP) state is 0.00%, S3-P2 (CAS BACK-UP) state is 0.00%, PVC 10 (ATS 1 CAS) state is 0.00%, PVC 11 (AMS (FREQ)) state is 0.00%, PVC 12 (SERVICE) state is 0.00%, PVC 13 (OLDI CAS) state is 0.00%, PVC 14 (RADAR FDI) state is 0.00%, PVC 15 (RADAR PST) state is 0.00%, PVC 5 (SMA SAT) state is 0.00%, PVC 6 (LPA SAT 1) state is 0.00%, PVC 7 (LPA SAT 3) state is 0.00%, and PVC 8 (CAS SAT) state is 0.00%. There are also fields for PVC 9 (LAD SAT) state and PVC 11 (AMS (FREQ)) state, both at 0.00%. The window includes 'Start date' and 'Finish date' dropdowns set to 'mié 30 jul 2014'. There are 'Download' and 'Clean' buttons, and radio buttons for 'Percentage Up' (selected) and 'Time Up'. Below the form is a table with the following data:

Type	Client	User	Date	Site	Subsystem	Device	Parameter	Value	Result
New Day	-	-	2014-07-30 00:00:00	LISBON	LISBON.COMMS	LIS SAT	PVC 12 (SERVICE)	OFF	New Day
New Day	-	-	2014-07-30 00:00:00	LISBON	LISBON.COMMS	LIS SAT	PVC 11 (AMS (FRE...	OFF	New Day
New Day	-	-	2014-07-30 00:00:00	LISBON	LISBON.COMMS	LIS SAT	PVC 10 (ATS 1 CAS...	OFF	New Day
New Day	-	-	2014-07-30 00:00:00	LISBON	LISBON.COMMS	LIS SAT	PVC 15 (RADAR P...	OFF	New Day
New Day	-	-	2014-07-30 00:00:00	LISBON	LISBON.COMMS	LIS SAT	PVC 14 (RADAR F...	OFF	New Day
New Day	-	-	2014-07-30 00:00:00	LISBON	LISBON.COMMS	LIS SAT	PVC 13 (OLDI CAS...	OFF	New Day
New Day	-	-	2014-07-30 00:00:00	LISBON	LISBON.COMMS	LIS SAT	PVC 9 (LAD SAT) st...	OFF	New Day
New Day	-	-	2014-07-30 00:00:00	LISBON	LISBON.COMMS	LIS SAT	PVC 5 (SMA SAT) s...	OFF	New Day
New Day	-	-	2014-07-30 00:00:00	LISBON	LISBON.COMMS	LIS FRAD 1	S3-P2 (CAS BACK-...	OFF	New Day
New Day	-	-	2014-07-30 00:00:00	LISBON	LISBON.COMMS	LIS FRAD 1	S3-P1 (SMA BACK-...	OFF	New Day
New Day	-	-	2014-07-30 00:00:00	LISBON	LISBON.COMMS	LIS SAT	PVC 8 (CAS SAT) st...	OFF	New Day
New Day	-	-	2014-07-30 00:00:00	LISBON	LISBON.COMMS	LIS SAT	PVC 7 (LPA SAT 3) ...	OFF	New Day
New Day	-	-	2014-07-30 00:00:00	LISBON	LISBON.COMMS	LIS SAT	PVC 6 (LPA SAT 1) ...	OFF	New Day

-----End-----

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