



INTERNATIONAL CIVIL AVIATION ORGANIZATION  
Western and Central African (WACAF) Office

**Meeting of CAFSAT Network Management Committee**  
(CNMC/xx)  
(Dakar, Senegal, 6 to 8 Nov 2012)

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**Agenda Item x: Review of CAFSAT operational and technical statistics of availability**

Review of CAFSAT technical statistics of availability

*(Presented by ATNS)*

**SUMMARY**

The working paper presents the signal levels and satellite availability for the different connections : CAFSAT : Jhb/Dakar, Jhb/Ezeiza and Jhb/Las Palmas

**1 Introduction**

The availability of these different links is calculated according to the statistics collated through the ATNS MMS system and is reliant on the different centres reporting to the JHB Fault Reporting Centre, operating on a 24 hrs basis.

**2 Discussion**

- 2.1 During the SNMC/19 in Ghana it was discussed that the statistics should be reported against levels 1, 2, 3 and 4. Level 1 being the Space segment from the IDU through the Satellite to the other IDU. Level 2 being the ODU (RFT up – down converters). Level three being the multiplexers and interface units. Level 4 being the client base equipment (AFTN or ATS/DS switch).
- 2.2 Corrective maintenance activities are initiated by the ATNS Fault Reporting Centre. The availability of the links and services are reliant on the accurate logging of occurrences on the different networks.
- 2.3 Formal arrangements and agreements are therefore imperative to action the timeous maintenance process and for accurate recording and reporting. The clarification of responsibilities and maintenance procedures should also be laid out.

- 2.4 The transmission and reception levels are manually collated on a daily basis and compiled to illustrate the space segment availability (level 1&2).

#### SPACE SEGMENT LEVELS

##### LEVELS 1 AND 2

	<b>Tx level average</b>	<b>Eb/No average</b>
<b>Modulator</b>	-5	
<b>Dakar Rx</b>		8.9
<b>Las Palmas Rx</b>		8.6
<b>Ezeiza Rx</b>		4.6

#### AVAILABILITY

<b>CAFSAT</b>
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	<b>Levels 1, 2 and 3</b>	<b>Level 4</b>
<b>Jhb/Dakar</b>	99.83%	99%
<b>Jhb/Ezeiza</b>	99.89%	99%
<b>Jhb/Las Palmas</b>	99.87%	99%

### 3 Conclusion

The meeting is requested to take note of the information provided in this information paper.

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