

Twenty-eighth Meeting of the AFI Satellite Network Management Committee
(SNMC/28)
(Abuja, Nigeria, 6-10 May, 2024)

INTERNATIONAL CIVIL AVIATION ORGANIZATION
WESTERN AND CENTRAL AFRICA OFFICE

Agenda Item 2: Review of AFISNET operational and technical statistics of availability
Presented by GCAA

SUMMARY

This paper presents the circuit availability status of GCAA AFISNET links to other international stations.

Reference: SNMC/27 Report

Action by the meeting in paragraph 3

1. Introduction

1.1 This working paper reports on Accra FIR AFTN/AMHS and ATS/DS circuits performance and availability status from **June 2023 to March 2024**. The circuit availability is reported using the four-level reporting index.

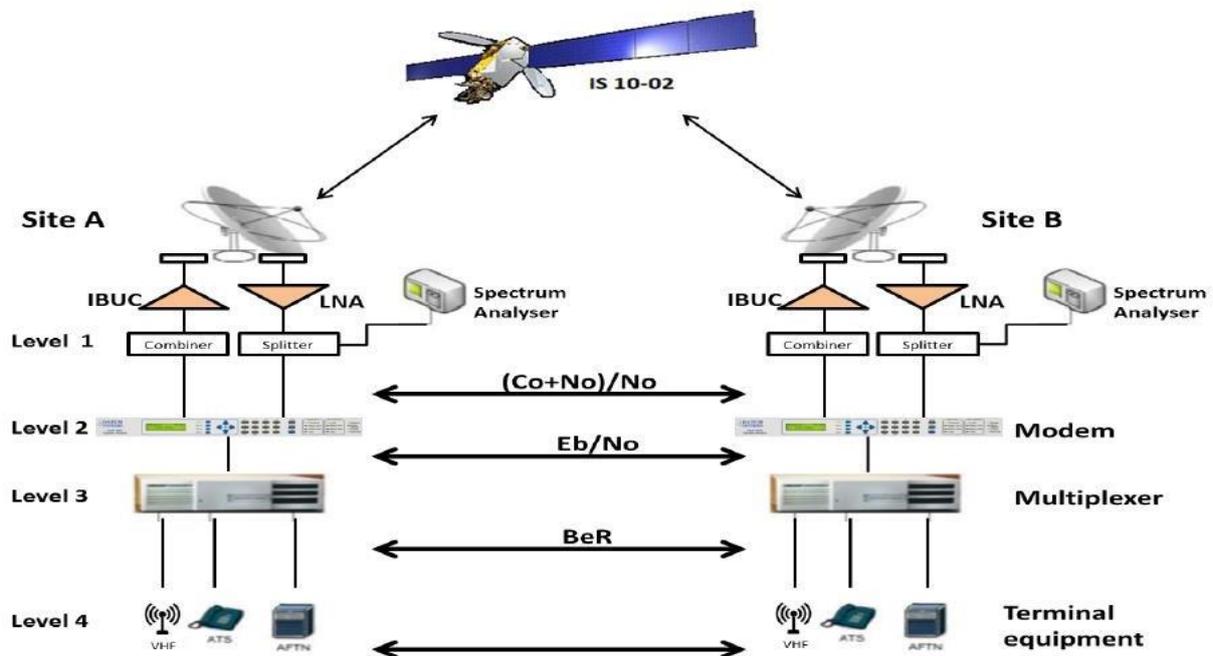
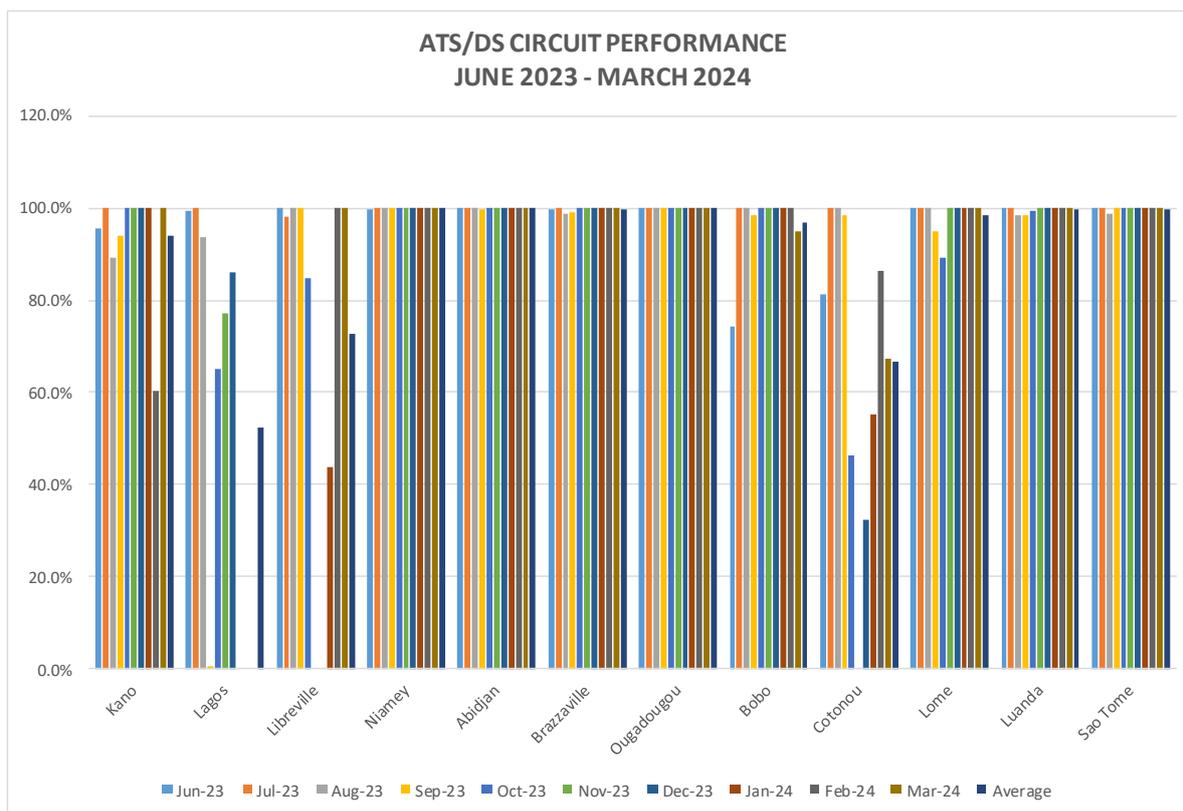


Figure 1: Four level performance monitoring approach between Site A and Site B.

2. Discussion

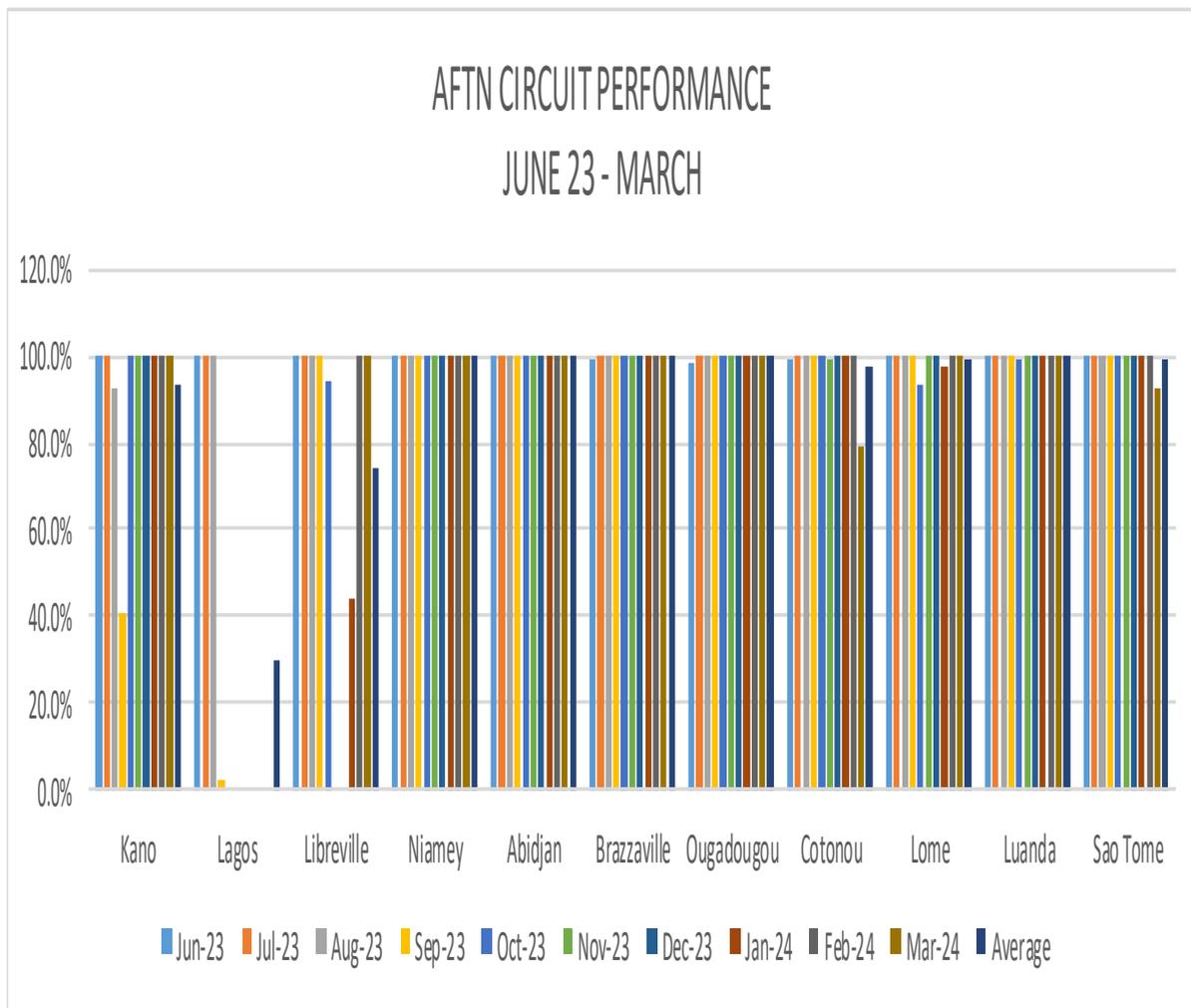
ATS/DS STATUS

Station	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Average
Kano	95.5%	100.0%	89.39%	93.87%	100.0%	100.00%	100.00%	100.0%	60.4%	100.0%	93.9%
Lagos	99.4%	100.0%	93.58%	0.67%	65.1%	77.30%	86.1%	0.0%	0.0%	0.0%	52.2%
Libreville	100.0%	98.10%	100.0%	100.0%	84.9%	0.0%	0.0%	43.8%	100.0%	100.0%	72.7%
Niamey	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Abidjan	100.0%	100.0%	100.0%	99.80%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Brazzaville	99.6%	100.0%	98.68%	99.17%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.7%
Ougadougou	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Bobo	74.2%	100.0%	100.0%	98.33%	100.0%	100.0%	100.0%	100.0%	100.0%	94.8%	96.7%
Cotonou	81.2%	100.0%	100.0%	98.33%	46.4%	0.0%	32.38%	55.1%	86.5%	67.2%	66.7%
Lome	100.0%	100.0%	100.0%	95.10%	89.3%	100.0%	100.0%	100.0%	100.0%	100.0%	98.4%
Luanda	100.0%	100.0%	98.61%	98.33%	99.6%	100.0%	100.0%	100.0%	100.0%	100.0%	99.6%
Sao Tome	100.0%	100.0%	98.68%	100.0%	100.0%	100.00%	100.00%	100.0%	100.0%	100.0%	99.9%



AFTN STATUS

Station	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Average
Kano	100.0%	100.0%	92.45%	40.27%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	93.3%
Lagos	99.8%	100.0%	99.84%	1.83%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.1%
Libreville	100.0%	100.0%	100.0%	100.0%	93.8%	0.0%	0.0%	43.8%	100.0%	100.0%	73.8%
Niamey	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Abidjan	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Brazzaville	99.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Ougadougou	98.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.8%
Cotonou	98.9%	100.0%	100.0%	100.0%	100.0%	99.4%	100.0%	100.0%	100.0%	78.8%	97.7%
Lome	100.0%	100.0%	100.0%	100.0%	93.1%	100.0%	100.0%	97.3%	100.0%	100.0%	99.0%
Luanda	100.0%	100.0%	100.0%	100.0%	99.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Sao Tome	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	92.3%	99.2%



Deficient Links

ATS/DS LINKS

Country	Site I	Site II	Four level reporting status	Remarks
Ghana	Accra	Lagos	LEVEL 1: (CO + O)/NO LEVEL 2: Eb/NO LEVEL 3: BASEBAND EQUIPMENT	The lower percentages recorded for Lagos is due MODEM fault
		Libreville	LEVEL 1: (CO + O)/NO LEVEL 2: EB/NO LEVEL 3: BASEBAND EQUIPMENT	The Lower percentage recorded for Libreville is due to MODEM fault
		Cotonou	LEVEL 1: (CO + O)/NO LEVEL 2: EB/NO LEVEL 3: BASEBAND EQUIPMENT	The lower percentage recorded for Cotonou is due to LNB fault

AFTN LINKS

Country	Site I	Site II	Four level reporting status	Remarks
Ghana	Accra	Kano	LEVEL 1: (CO + O)/NO LEVEL 2: EB/NO LEVEL 3: BASEBAND EQUIPMENT	Kano AFTN recorded low percentage due to Modem fault.
		Lagos	LEVEL 1: (CO + O)/NO LEVEL 2: EB/NO LEVEL 3: BASEBAND EQUIPMENT	Lagos AFTN recorded low percentage due to a modem fault
		Libreville	LEVEL 1: (CO + O)/NO LEVEL 2: Eb/NO LEVEL 3: BASEBAND EQUIPMENT	Libreville AFTN recorded low percentage due to MOL2P Multiplexer asynchronous port failure
		Cotonou	LEVEL 1: (CO + O)/NO LEVEL 2: Eb/NO LEVEL 3: BASEBAND EQUIPMENT	The lower percentage recorded for Cotonou is due to LNB fault



3. Action Required

The meeting is invited to:

1. Take note of the information provided in this working paper.
2. Review the deficiencies shown.
3. Request states concerned to indicate their plans for remedial action