

**NAFISAT NETWORK SERVICES POST 2022
RESPONSES FROM STATES**

DJIBOUTI					
DJIBOUTI STATION	ADDIS	NAIROBI	MOGADISHU	ASMARA	SANAA
AFTN	YES	YES	NO	NO	NO
AMHS	YES	YES	NO	NO	NO
ATS&DS	YES	NO	YES	YES	YES
ATS/DS VOIP	YES	NO	YES	YES	YES

ETHIOPIA
In addition to AFTN and ATS/DS, Ethiopia would like to add VDL Mode 2 Technology.

KENYA

KCAA's List of services to be provided by the NAFISAT Network Post 2022 is as below:

1. ATS Direct Speech (ATS/DS) Circuits

- a) All the current ATS Direct Speech currently in place to be maintained;
- b) Implementation of an ATS/DS for the Juba FIR; and
- c) The ATS Direct Speech (ATS/DS) Circuits need to be easily configurable for VOIP services, when required.

2. Aeronautical Fixed Telecommunication Network (AFTN) Circuits

- a) All the current AFTN circuits to be retained. These links need to be readily configurable to AMHS circuits when required; and
- b) A new AFTN circuit between Nairobi FIR and Juba FIR to be introduced.

3. ATS Inter-Facility Data Communication (AIDC) Circuits

- a) To provide AIDC circuits between Nairobi and neighbouring FIRs to enable implementation of ATS Inter-Facility Data Communication service.

TABLE SUMMARIZING THE KCAA SERVICE REQUIREMENTS FOR THE NAFISAT NETWORK POST 2022

Service State	ATS/ Direct Speech	AFTN / AMHS	AIDC	VOIP
HCMM (MOGADISHU)	✓	✓	✓ New	✓ New
HAAB (ADDIS)	✓	✓	✓ New	✓ New
HUEN (ENTEBBE)	✓	✓	✓ New	✓ New
HTDA (DAR)	✓	✓	✓ New	✓ New
FSSS (SEYCHELLES)	✓	✓	✓ New	✓ New
FCCC (BRAZAVILLE)	X	✓	X	X
FIMP (MAURITIUS)	X	✓	X	X
FAOR (OT INT'L AIRPORT)	X	✓	X	X
HDAM (DJIBOUTI)	X	✓	X	X
HECA (CAIRO)	X	✓	X	X
HSSS (KHARTOUM)	✓	X	X	X
HJJJ (Juba)	✓ New	✓ New	✓ New	✓ New

✓ -Required, X -Not required

SUDAN

Khartoum Station	Cairo	Jeddah	Addis	Tripoli	Asmara	Nairobi	Entebbe	Sanna	Ndjamena	Brazzaville	Kinshasa
AFTN Circuit 9.6 Kbps	✓	✓	✓	✓	✓	X	X	✓	✓	X	X
AMHS CH 1.48 bps 1.49	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
ATS/DS - VoIP / 2.048 Mbps	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
ATS/DS-2wires / 64Kbps	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓

Note:

- AFTN circuit will be kept as backup for AMHS Channels
- ATS/DS -2wire will be decommissioned when ATS/DS VoIP are online

TANZANIA

Tanzania Civil Aviation Authority has established a new TMA in Mwanza which needs to have Interconnectivity with adjacent TMA's as below:

1)	Mwanza - Nairobi
2)	Mwanza - Entebbe
3)	Mwanza - Kigali
4)	Mwanza - Bujumbura
5)	Dar-es-Salaam - Moroni

UGANDA

1.	AMHS	Nairobi	Currently an AMHS to AFTN Gateway link is implemented
		Johannesburg	Full AMHS connection available.
		Dar-es-Salaam	Currently not implemented
		Kigali	
		Khartoum	
		Kinshasa	
		Juba	
2.	AFTN	Nairobi	Will be maintained as a Backup to Nairobi AMHS Link when full AMHS is implemented
		Johannesburg	Is maintained as a backup to Johannesburg AMHS Link
3.	AIDC	Nairobi	Currently not implemented
		Dar-es-Salaam	
		Kigali	
		Khartoum	
		Kinshasa	
		Juba	
4.	ATS/DS	Nairobi	A link exists and will be maintained for backup if the AIDC is implemented
		Dar-es-Salaam	A link exists and will be maintained for backup if the AIDC is implemented
		Kigali	A link exists and will be maintained for backup if the AIDC is implemented
		Khartoum	A link exists and will be maintained for backup if the AIDC is implemented
		Kinshasa	A link exists and will be maintained for backup if the AIDC is implemented
		Juba	Currently not implemented. It will be maintained for backup if the AIDC is implemented
5.	VHF Extended Range	Internal	Providing a network for linking the VHF radios within Uganda
6.	ADS-Band Radar data exchange	Kenya	Future implementation in preparation for the EAC Upper Flight Information Region
		Tanzania	
		Rwanda	
		South Sudan	
