

FREQUENCY UTILIZATION (FREQUENCY ALLOCATION AND ASSIGNMENT) FOR THE PERIOD ENDING 30TH SEPTEMBER 2019

1. BACKGROUND

The radio frequency spectrum is a national and natural resource that is held in trust and managed by the Authority on the behalf of the people of Kenya. The spectrum resource should be managed and utilized effectively and efficiently. The Authority while exercising its mandate has to plan, allocate, assign, issue frequency licenses, monitor, carry out surveillance and coordinate the usage of the radio frequency spectrum resource to ensure optimal and efficient utilization.

As part of the performance contract commitments between the Authority and the Ministry of Information and Communications, the Authority committed to publish quarterly report of Spectrum allocation and assignment under C14. (*Publish ICT Periodic Reports; iii) Spectrum utilization (allocation and assignment) reports*). This report presents the frequency assignment activities for various services & bands during the 1st Quarter of financial year 2019/20.

2. FREQUENCY ASSIGNMENT ACTIVITIES

2.1. Fixed Services

During the period under review, the Authority assigned a total of 366 new fixed links in the Fixed Services in the band between 5GHz and 71/80GHz to mobile network operators and network facility providers for backhaul as summarized in the table below. In addition, the Authority assigned two frequencies in the 360-370 MHz band to FM sound broadcasters for studio to transmitter linkage.

Similarly, the Authority processed the decommissioning of 1015 fixed links in the quarter.

Table 1. Summary of Fixed Links Assignment

Frequency Band	Number of New Links	Number of Decommissioned links
360-370 MHz	2	-
5GHz	66	3
6GHz	1	21
7/8GHz	76	204
13GHz	13	85
15GHz	150	444
18GHz	21	-

Frequency Band	Number of New Links	Number of Decommissioned links
22/23GHz	18	176
38GHz	7	82
71/80GHz	12 (trials)	-
Total	366	1015

Table 2. Fixed Microwave (MW) Links Assignment

	Company name	Frequency Band	CATEGORY	No. of Links	Sub Total
1	Amore International	360-370 MHz	STL	1	1
2	Mediamax Networks Ltd	360-370 MHz	STL	1	1
3	Safaricom PLC	5GHz	Micro Wave	61	232
4		7/8GHz	Micro Wave	67	
5		13GHz	Micro Wave	0	
6		15GHz	Micro Wave	96	
7		22/23GHz	Micro Wave	8	
8	TELKOM KENYA LIMITED	5GHz	Micro Wave	0	42
9		6GHz	Micro Wave	1	
1		7/8GHz	Micro Wave	9	
1		13GHz	Micro Wave	13	
1		15GHz	Micro Wave	0	
1		18GHz	Micro Wave	0	
1		22/23GHz	Micro Wave	12	
1		38GHz	Micro Wave	7	
1	71/80GHz	Micro Wave	0		
1	Liquid Telecommunications Kenya Ltd	5GHz	Micro Wave	1	13
1		71/80GHz	Micro Wave	12	
1	Airtel Ltd	15 GHz	Micro Wave (trials)	55	76
2		18/19 GHz	Micro Wave	21	
2	Base Titunium	5 GHz		1	1
2	KWS	5 GHz		1	1
Total					366

Table 3. Studio to Transmitter Links (STL) Assignment

	NAME	CATEGORY
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1.	AMORE INTERNATIONAL LIMITED	STL
2.	MEDIAMAX NETWORK LIMITED	STL

2.2. Broadcasting Services

2.2.1. Sound Broadcasting Services

During the quarter, the Authority assigned 15 FM sound broadcasting frequencies countrywide as summarized in the table below

Table 4. Sound Broadcast Assignments

	NAME	FREQUENCY (MHz)	MAX ERP (kW)
1.	ATLANTIC EDGE LIMITED	94.8	5
2.	WESTERN TELEVISION (TV) COMPANY LIMITED	92.2	5
3.	WESTERN TELEVISION (TV) COMPANY LIMITED	89.9	5
4.	WESTERN TELEVISION (TV) COMPANY LIMITED	89.3	5
5.	TRUCKSIDE ADVERTISING LIMITED	92.7	5
6.	WESTERN TELEVISION (TV) COMPANY LIMITED	97.7	5
7.	KALYA MEDIA HOUSE LIMITED	100.3	5
8.	AROUND THE GLOBE SERVICES LIMITED	89.7	5
9.	AMORE INTERNATIONAL LIMITED	96.9	5
10.	UJUZI NA BIASHARA CBO	97.1	5
11.	EMBU TV LIMITED	107.9	5
12.	MEDIAMAX NETWORK LIMITED	89.2	1
13.	MEDIAMAX NETWORK LIMITED	89.2	5
14.	AZZUNO ENTERPRISES	100.8	5
15.	HAKI FM LIMITED	88.0	5

2.2.2. Television Broadcasting Services

During the quarter, the Authority did not assign any DVB –T2 frequencies to the Broadcast signal Distributors.

2.3. Mobile Broadband

During the quarter, the Authority issued trial authorization to two firms for LTE in the 2.6 GHz band and one firm in the 1.4 GHz band, extended by a year the trial authorization for Project Loon and temporary authorization in 6-9 GHz band for Ultra Wide Band (UWB) devices.

Table 5. Mobile Broadband Assignments

	FREQUENCY BAND	FREQUENCY (MHz)	PERIOD	REMARKS
1.	2.6 GHz	2650-2670 (20MHz)	20 Aug 2019 to 19 Aug 2020	Frequency trial for 5G Technology
2.	2.6 GHz	2670-2690 (20 MHz)	20 Aug 2019 to 19 Aug 2020	Frequency trial for 5G Technology
3.	5.8 GHz (ISM), 71-76 GHz	5.725-5.827 GHz 71.125-71.625 GHz 73.875-74.375 GHz 81.125-81.625GHz 83.875-84.375 GHz	18 Sep 2019 to 17 Sep 2020	Frequency trial for Project Loon
4.	6-9GHz	6-9GHz (UWB)	1 Jul 2019 to 30 Jun 2020	Frequency trial for Ultra Wide Band Technology
5.	1.4 GHz	1450-1455 (5MHz)	1 Aug 2019 to 31 Jul 2020	Frequency trial for LTE Technology

2.4. Private Land Mobile Services

During the quarter, the Authority held 6 Communication Licensing Committee (CLC) meetings where 9 applications were considered. The Authority approved the establishment of VHF networks comprising of a total of 8 Fixed Stations, 10 Mobile Stations and 30 Portable Stations.

Table 6. VHF Approved License Applications

#	APPLICANT	BAND	NETWORK	AREA	NATURE OF BUSINESS
1.	RENEGADE AIR LIMITED P.O. BOX 1167 NAIROBI- 00621	VHF	1F+1M	NAIROBI	AERONAUTICAL OPERATIONS
2.	MOMBASA SHIPCHANDLERS LIMITED P.O. BOX 81692 MOMBASA- 80100	VHF	1M	MOMBASA	MARITIME OPERATIONS
3.	QUICK FLIGHT SUPPORT LIMITED. P.O. BOX 94652 MOMBASA - 80115	VHF	1F+2M	CHANGAMWE , MOMBASA	LOGISTICS, CLEARING AND FORWARDING
4.	RHINOMAX SECURITY SYSTEMS LIMITED	VHF	1F+1M+2P	KAWANGWA	SECURITY

	P. O. BOX 75535 NAIROBI 00200			RE	OPERATIONS
5.	GALLANT SECURITY SERVICES LTD P. O. BOX 141 NAIROBI 00600 (RESUBMISSION)	VHF	1F+1M+3P	GARDEN ESTATE, NAIROBI	SECURITY OPERATIONS
6.	PEMWA SECURITY COMPANY LTD P. O. BOX 141 NAIROBI 00600 (RESUBMISSION)	VHF	1F+2M+3P	KASARANI, NAIROBI	SECURITY OPERATIONS
7.	JITEGEMEE KENYA LIMITED P.O. BOX 35100 NAIROBI 00100	VHF	1F+5P	MANDERA	CONSTRUCTION
8.	JOSMAX SECURITY SERVICES P.O BOX 33146	VHF	1F-1M-2P	NAIROBI	SECURITY OPERATIONS
9.	KRUGGER SECURITY GROUP LIMITED P.O. BOX 43506-80100 MOMBASA.	VHF	1F+2M+15P	MOMBASA	SECURITY OPERATIONS

2.5. Fixed Wireless Access Services

There were no assignments of frequencies with respect to Fixed Wireless Access (FWA) systems in the quarter.

2.6. Satellite Earth Stations

There were no assignments of frequencies with respect to earth stations in the quarter.