

QUARTERLY STATISTICAL BULLETIN ON COMMUNICATIONS IN GHANA

Volume 7 Issue 2



**NATIONAL
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SECOND QUARTER

APRIL - JUNE, 2022

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LIST OF ABBREVIATIONS

BWA	Broadband Wireless Access
LTE	Long-Term Evolution
FM	Frequency Modulation
GH¢	Ghana Cedi
GHp	Ghana pesewas
MB	Megabytes
MNO	Mobile Network Operator
MoU	Minutes of Use
NCA	National Communications Authority
SMS	Short Message Service
TV	Television

VISION AND MISSION

Vision

A world-class communications regulator that facilitates innovative, reliable and sustainable communication solutions to meet stakeholders' expectations.

Mission

Regulate the communications industry in a forward-looking and transparent manner that promotes fair and sustainable competition, stimulates innovation, encourages investment, protects stakeholders' interests and facilitates universal access to quality communications services for national development.

Core Values

- Teamwork
- Accountability
- Consistency
- Trust
- Innovation
- Transparency

Tag Line/Slogan – Communications for Development

INTRODUCTION

This Quarterly Statistical Bulletin on Communications is a reference document that entails segregated data, industry trends and analysis of the communications sector of Ghana. The purpose of this document is to promote open and enriched public discussions on policies for telecom analysts, consumers, academia, policy makers, investors and other stakeholders for decision-making.

This bulletin is prepared from the monthly and quarterly data received from various licensees¹. It also includes data on internet service providers and broadcasting entities and services providers that was gathered in-house.

The publication of this bulletin is consistent with the National Communications Authority's mandate under section 26 (2) (a) of the Electronic Communications Act 2008, Act 775; "to publish the result of research that it carries out or that is carried out on its behalf on its website and in any other manner that it considers appropriate to bring the results to the attention of the public".

¹ MTN, Vodafone, AirtelTigo, Glo, Surfline, BBH, Telesol, Busy and BLU

DEFINITION OF TERMS

Average SMS per subscriptions - This is calculated by dividing the total average volume of SMS for the quarter by the total average mobile subscriptions for that quarter.

BWA Data Usage per Subscriptions - This is calculated by dividing the total average volume of BWA's traffic for the quarter by the total BWA subscriptions for that quarter.

Cellular network or mobile network – refers to a communication network where the last mile connection is wireless. The network is distributed over land areas called cells, each served by at least one fixed-location transceiver, known as a cell site or base station. This base station provides the cell with the network coverage, which can be used for transmission of voice, data and others.

Fixed-line network - The term refers to all of the wired networks that are used for voice and data communications. A fixed-line can be seen as a connection to an end-user, by means of a cable, through which they can make phone calls or connect to the Internet.

Minutes of Use per Subscriptions - It is calculated by dividing the total average volume of traffic for that quarter with the total average subscriptions for that quarter.

Mobile Data-refers to active mobile data subscriptions to GPRS, EDGE, HSPA, UMTS, EV-DO, 3G, and LTE that have generated internet traffic (uploaded and/ or downloaded data) within the last ninety (90) days.

Mobile Data Usage per Subscriptions - It is calculated by dividing the total average volume of data traffic for the quarter with the total average mobile data subscriptions for that quarter.

Mobile Penetration or Teledensity – This represents the total number of mobile subscriptions per every 100 inhabitants in a geographical area.

Net Subscriptions Addition – It refers to the total number of new mobile network subscribers minus customers that terminate a service with the service provider at a given time.

On-net traffic - refers to phone calls made to a recipient on the same network as the caller.

Off-net traffic - refers to phone calls made to a recipient on a different network.

Quarter-on-quarter – This is a comparison of the quarter under review with the preceding quarter.

Q1 – First Quarter (January – March).

Q2 – Second Quarter (April – June).

Q3 – Third Quarter (July – September).

Q4 – Fourth Quarter (October – December).

Year-on-year – This is a comparison of a period under review (month, quarter etc.) with the same period of the preceding year.

THE COMMUNICATIONS INDUSTRY AT A GLANCE²

A1. Service Providers Authorised/Licensed to Operate

Operator/Service Providers	Number of Authorisation/Licenses	Number in Operation
Mobile Network Operators	4	4
Fixed Network Operators	3	3
Broadband Wireless Access	5	5
Television Stations	152	112
FM Stations	699	507

B1. Total Subscriptions

SUBSCRIPTION	QUARTER-ON-QUARTER			YEAR-ON-YEAR			Units
	Q1 2022	Q2 2022	Growth (%)	Q2 2021	Q2 2022	Growth (%)	
Mobile Voice Subscription	41.48	40.99	-1.18%	41.72	40.99	-1.75%	Million
Fixed Voice Subscription	320.46	307.48	-4.05%	315.17	307.48	-2.44%	Thousand
Mobile Data Subscription	23.69	23.58	-0.46%	22.85	23.58	3.19%	Million
Fixed Data Subscription	102.74	97.99	-4.62%	90.05	97.99	8.82%	Thousand
Broadband Wireless Access	48.90	47.98	-1.88%	53.26	47.98	-9.91%	Thousand

B2. Voice, Data and SMS Traffic

TRAFFIC	QUARTER-ON-QUARTER			YEAR-ON-YEAR			Units
	Q1 2022	Q2 2022	Growth (%)	Q2 2021	Q2 2022	Growth (%)	
Mobile Voice Traffic (Domestic)	25.87	26.42	2.12%	26.74	26.42	-1.18%	Billion minutes
Fixed Voice Traffic	9.77	9.07	-7.16%	9.36	9.07	-3.10%	Million minutes
Incoming International Traffic (Direct to Network Only)	58.20	64.30	10.48%	60.27	64.30	6.69%	Million minutes
Outgoing International Traffic	88.22	79.79	-9.56%	119.52	79.79	-33.24%	Million minutes
Mobile Data Traffic (MB)	304.15	339.65	11.67%	229.08	339.65	48.27%	Billion MB
BWA Data Traffic (MB)	6.55	6.79	3.66%	6.97	6.79	-2.58%	Billion MB
SMS Count	630.73	641.48	1.70%	550.12	641.48	16.61%	Million

² The decimals may not be exact due to the rounding-off of the actual figures.

B3. Penetration Rate (%)

PENETRATION RATE (%)	QUARTER-ON-QUARTER			YEAR-ON-YEAR		
	Q1 2022	Q2 2022	Growth (%)	Q2 2021	Q2 2022	Growth (%)
Mobile Voice Subscription	134.71	130.37	-3.22%	133.29	130.37	-2.19%
Fixed Voice Subscription	1.04	0.98	-5.77%	1.01	0.98	-2.97%
Mobile Data Subscription	76.94	74.99	-2.53%	73.02	74.99	2.70%
Fixed Data Subscription	0.33	0.31	-6.06%	0.29	0.31	6.90%
Broadband Wireless Access	0.16	0.15	-6.25%	0.17	0.15	-11.76%

C1. Broadcasting Sector

FM/TV AUTHORISATION & OPERATIONS	QUARTER-ON-QUARTER			YEAR-ON-YEAR		
	Q1 2022	Q2 2022	Growth (%)	Q2 2021	Q2 2022	Growth (%)
FM Authorisation	698	699	0.14%	659	699	6.07%
FM Station Operating	502	507	1.00%	488	507	3.89%
TV Authorisations	148	152	2.70%	135	152	12.59%
TV Stations Operating	112	112	0.00%	109	112	2.75%

C2. Categories of Authorised FM Radio Stations

CATEGORIES OF FM RADIO STATIONS	QUARTER-ON-QUARTER			YEAR-ON-YEAR		
	Q1 2022	Q2 2022	Growth (%)	Q2 2021	Q2 2022	Growth (%)
PUBLIC	31	31	0.00%	31	31	0.00%
PUBLIC FOREIGN	5	5	0.00%	5	5	0.00%
CAMPUS	24	24	0.00%	24	24	0.00%
COMMUNITY	117	117	0.00%	103	117	13.59%
COMMERCIAL	521	522	0.19%	496	522	5.24%

1.0 MOBILE NETWORK

The National Communications Authority (NCA) has licensed four service providers to provide mobile telecoms services in Ghana. These service providers are namely AirtelTigo, Glo, MTN and Vodafone.

This section provides details on the Mobile Network Operators (MNOs) in Ghana by looking at the mobile voice subscriptions, net additions to voice subscriptions, mobile penetration, volume of voice/data traffic, SMS and mobile data subscriptions.

1.1 Mobile Voice Subscriptions and Penetration Rate³

Mobile voice subscriptions decreased from 41.48 million in Q1 2022 to 40.99 million at the end of Q2 2022, representing a decline in growth by 1.18%. Year-on-year subscriptions also decreased from 41.72 million at the end of Q2 2021 to 40.99 million at the end of Q2 2022, recording a decrease of 1.75% growth rate.

The penetration rate as at the end of Q2 of 2022 was 130.37% as compared to 134.71% recorded in Q1 2022, indicating a decrease in growth rate by 3.22% (Figure 1) (Appendix, Table 1).

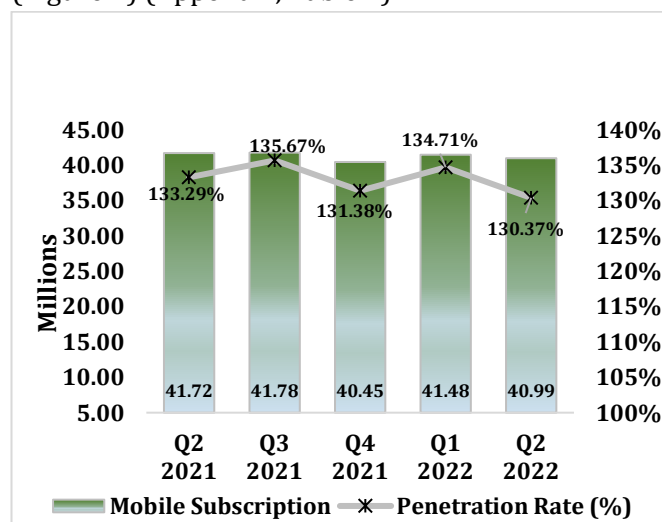


Figure 1: Mobile Voice Subscription and Penetration Rate

³The mobile penetration rate is estimated by dividing the total number of mobile subscribers by the total population. Population of Ghana was estimated based on the preliminary result of 2021

1.1.1 Voice Subscription Market Share per Operator

At the end of Q2 2022, MTN recorded 63.06% of the market share with 25.85 million subscriptions.

Vodafone followed with 7.32 million subscriptions (17.87%).

AirtelTigo ended the quarter with a market share of 16.66% with a subscription base of 6.83 million.

Glo followed with 0.99 million subscriptions with a market share of 2.42% (Figure 2) (Appendix, Table 2).

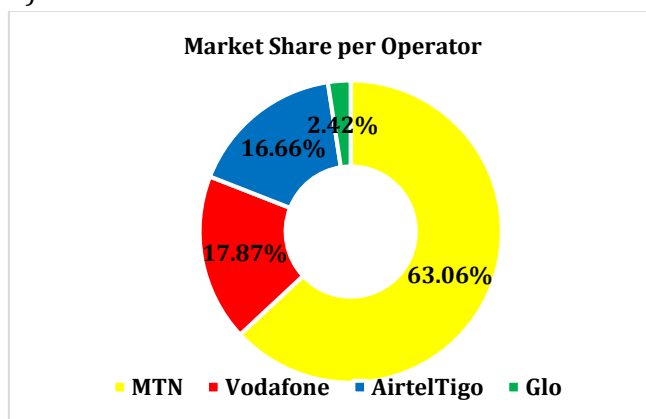


Figure 2: Market Share per Operator

1.1.2 Quarter on quarter market share per operator in percentage

At the end of Q2 2022, MTN increased its market share in percentage from 61.61% in Q1 2022 to 63.06% representing a growth of 2.35%. Vodafone had a percentage growth declined by 4.15% (from 18.64% in Q1 2022 to 17.87% in Q2 2022)

AirtelTigo market share decreased in percentage from 17.85% in Q1 2022 to 16.66% representing a negative growth of 6.68%.

Glo also had a percentage increase in its market share by 9.10% (from 1.90% in Q1 2022 to 2.42% in Q2 2022)

Population Census figure 30,792,608 published by Ghana Statistical Service (GSS). The High Penetration Rate is partly attributed to people owning more than one SIM card.

1.1.3 Prepaid and Postpaid Mobile Voice Subscriptions

Mobile voice subscription for prepaid subscribers was 40.54 million representing a market share of 98.91%.

Post-paid subscription at the end of the quarter under review was 0.45 million and a market share of 1.09%. (Figure 3) (Appendix, Table 3).

Mobile voice subscriptions for prepaid subscribers decreased from 41.05 million at the end of Q1 2022 to 40.54 million at the end of Q2 2022 representing a percentage decreased of 1.25%.

Mobile voice subscription for postpaid subscribers increased from 0.42 million in Q1 of 2022 to 0.45 million in Q2 of 2022 representing a percentage increase of 4.45%

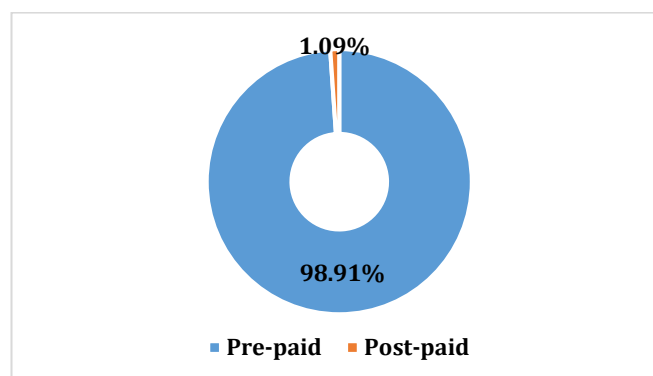


Figure 3: Prepaid and Postpaid Mobile Voice Subscriptions

1.2 Off-net Mobile and Fixed Voice Traffic (Domestic)

Mobile-to-mobile off-net traffic decreased from 2.18 billion minutes at the end of Q1 2022 to 2.17 billion representing a decrease in growth by 0.69%.

Year-on-year mobile-to-mobile off-net traffic rose from 1.89 billion minutes at the end of Q2 2021 to 2.17 billion minutes at the end of Q2 2022, representing a growth of 15.05%.

Quarter-on-quarter mobile to fixed off-net traffic increased from 12.32 million minutes to 12.65 million minutes indicating a marginal increase in growth by 2.68%

Year-on-year mobile-to-fixed off-net traffic grew at 6.22% from 11.91 million minutes at the end of Q2 2021 to 12.65 million minutes at the end of Q2 2022. (Figure 4) (Appendix, Table 4)

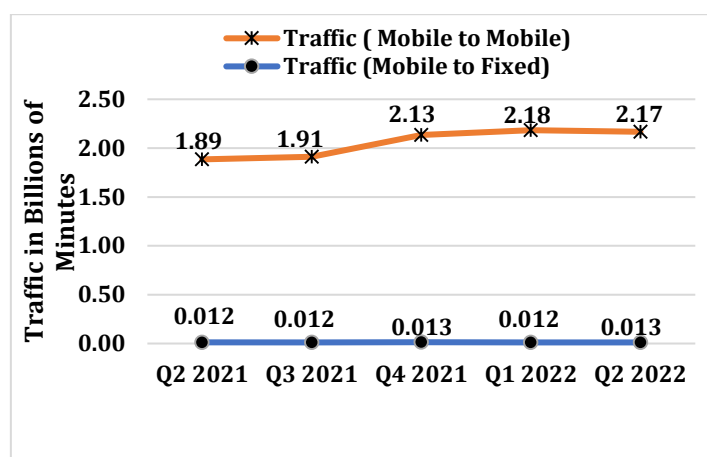


Figure 4: Off-net Traffic Distribution between Mobile and Fixed Networks

1.2.1 Total Domestic Mobile Voice Traffic

Total domestic mobile voice traffic recorded an increased from 25.87 billion minutes in Q1 2022 to 26.42 billion minutes in Q2 2022, representing a - 2.12% increase in growth.

Year-on-year mobile voice traffic also dropped from 26.74 billion minutes at the end of Q2 2021 to 26.42 billion minutes at the end of Q2 2022, representing a decrease rate growth of 1.18%.

Off-net traffic decreased from 2.23 billion minutes at the end of Q1 2022 to 2.20 billion minutes at the end of Q2 2022, giving a decreased in growth by 1.05%.

Year-on-year off-net traffic moved from 1.90 billion minutes in Q2 2021 to 2.20 billion minutes at the end of Q2 2022 representing 16.18% growth.

On-net traffic increased from 23.64 billion minutes in the previous quarter to 24.22 billion minutes at a rate of 2.42% growth during the quarter under review.

Year-on-year on-net traffic also declined from 24.84 billion minutes in Q2 2021 to 24.22 billion minutes at the end of Q2 2022 representing a 2.51% decrease in growth rate. (Figure 5) (Appendix, Table 5)

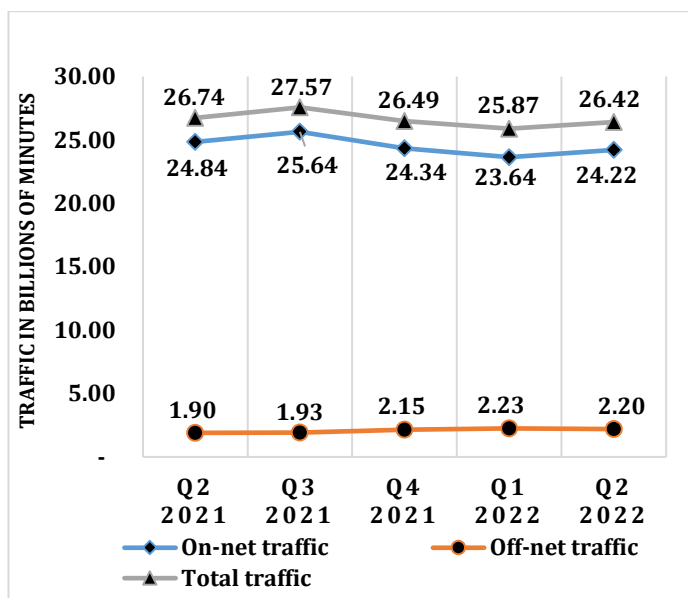


Figure 5: Total Domestic Mobile Voice Traffic in Billions of Minutes

1.2.2 Minutes of Use (MoU)⁴

Quarter-on-quarter average minutes of use per subscription increased from 209.37 minutes in Q1 2022 to 214.37 minutes (2.38%) in Q2 2022.

Year-on-year minutes of use per subscription increased from 213.22 minutes in Q2 2021 to 214.37 minutes in Q2 2022, representing 0.54% in growth (figure 6) (Appendix, Table 6).

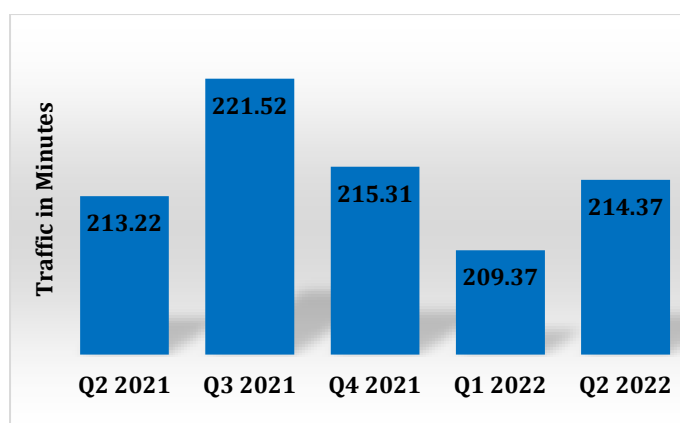


Figure 6: Mobile Voice Traffic Minutes of Use (MoU) per subscriptions

1.3 International Traffic

Inbound international traffic increased from 58.20 million minutes in Q1 2022 to 64.30 million minutes in Q2 2022, representing a percentage increased in growth rate of 10.48%.

Year-on-year inbound international traffic increased from 60.27 million minutes in Q2 2021 to 64.30 million minutes in Q2 2022 with a growth rate of 6.68%.

Quarter on quarter outbound international traffic showed 9.55% decline in growth from 88.22 million minutes in Q1 2022 to 79.79 million minutes at the end of Q2 2022.

Year- on -year outbound international traffic fell from 119.52 million minutes to 79.79 million minutes, indicating a decline of 33.24% (Figure 7) (Appendix, Table 7).

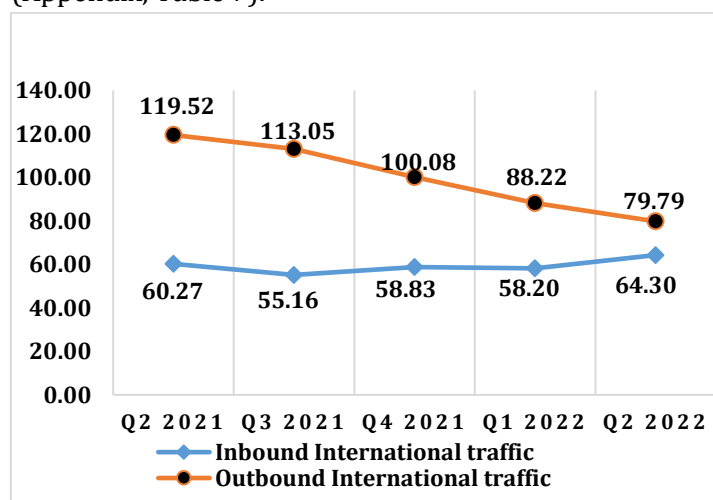


Figure 7: International Traffic in Minutes (Millions)

1.3.1 Short Messaging Services (SMS)

The total number of short messages service (SMS) sent at the end of Q2 2022 was 641.48 million as compared to 630.73 million in the preceding quarter, recording an increase of 1.70% in growth.

Year-on-year SMS counts increased from 550.12 million in Q2 2021 to 641.48 million at the end Q2 2022 representing a growth rate of 16.61% (figure 8) (Appendix, Table 8).

². Minutes of use per subscriptions is calculated by dividing the total average volume of traffic for the quarter by the total average subscriptions for that quarter.

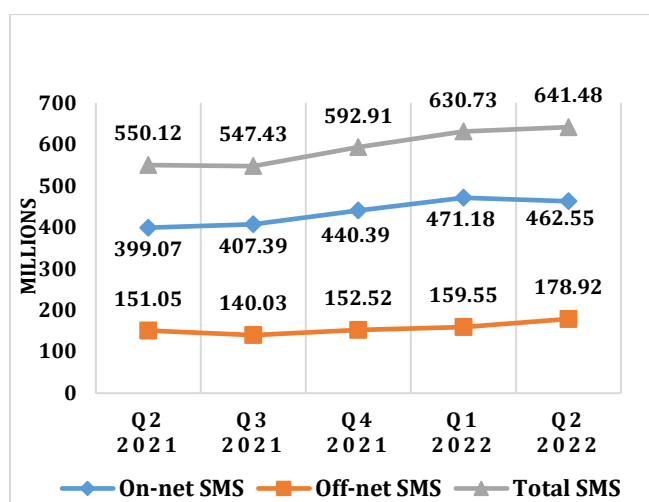


Figure 8: Total Number of SMS

1.3.2 SMS Counts per Mobile Network Operator/Market Share

The volume of SMS traffic originating from MTN was 463.43 million at the end of Q2 2022; representing a market share of 72.24% of the total, SMS count.

The volume of SMS traffic from Vodafone was 162.94 million, representing a market share of 25.40% of the total SMS count.

AirtelTigo had an SMS count of 13.21 million, representing 2.06% of the market share of the total SMS count.

Glo generated 1.89 million SMS count representing a share of 0.29% (Figure 9) (Appendix, Table 8).

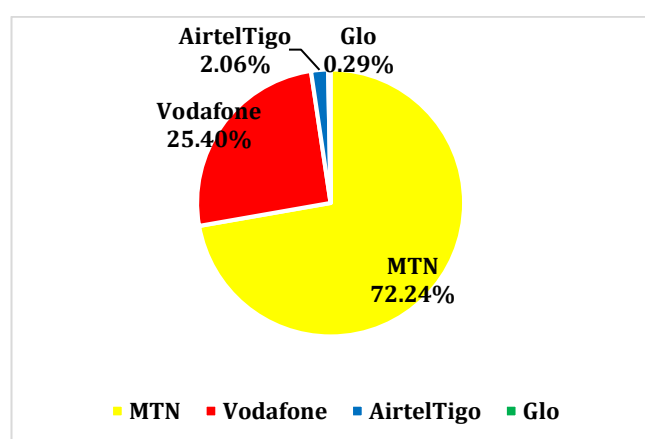


Figure 9: SMS Counts Market Share per Operator

1.3.3 Average SMS per subscription

Quarter-on-quarter average SMS sent per subscription at the end of Q2 2022 was 5.2 SMS, indicating a slight increase in the average SMS per

subscriptions as compared to the end of Q1 2022 (5.1).

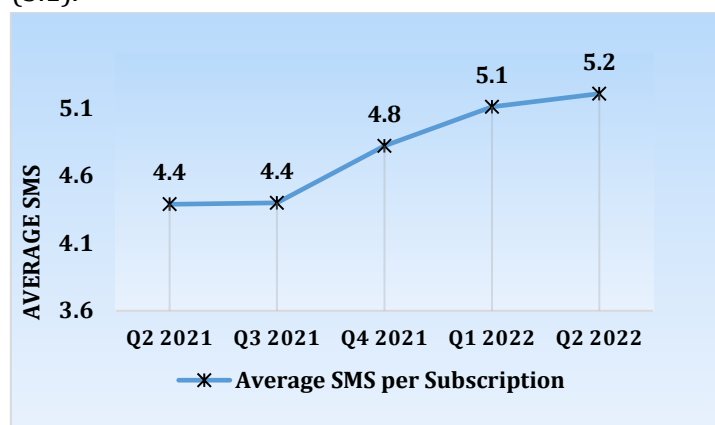


Figure 10: Average SMS per Subscription

1.4 Mobile Data Subscriptions and Penetration Rate (%)

At the end of Q2 2022, mobile data subscriptions decreased by 0.49% from 23.69 million at the end of Q1 2022 to 23.58 million.

Year-on-year subscriptions increased by 3.17% from 22.85 million at the end of Q2 2021 to 23.58 million at the end of Q2 2022. The penetration rate as at the end of the second quarter of 2022 was 74.99% (Figure 11) (Appendix, Table 10).

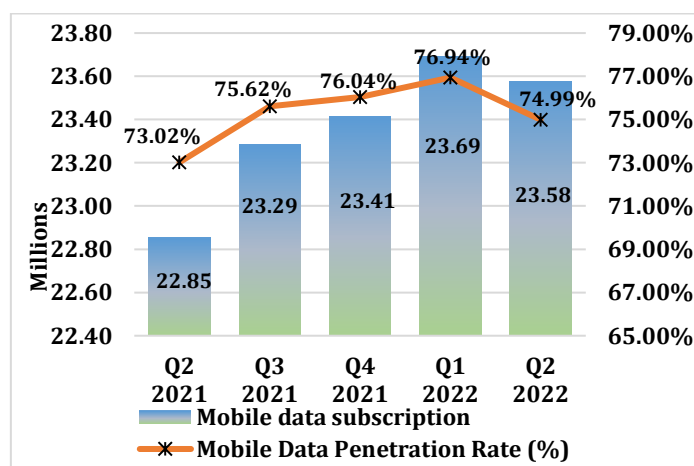


Figure 11: Mobile Data Subscriptions and Penetration Rate (%)

1.4.1 Mobile Data Pre-paid and Post-paid Subscriptions/Market Share

Mobile data pre-paid subscriptions decreased from 23.51 million at the end of Q1 2022 to 23.39 million subscriptions at the end of Q2 2022, representing a decline of 0.51% of the total mobile data subscriptions.

Mobile data post-paid subscriptions increased from 185,085 at the end of Q1 2022 to 189,077 subscriptions representing a 2.16% growth of the total mobile data subscriptions at the end of Q2 2022 (Figure: 12) (Appendix, Table 10).

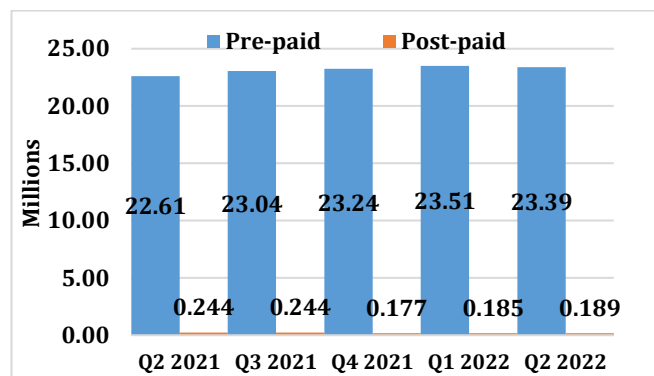


Figure 12: Mobile Data Pre-paid and Post-paid Subscriptions

1.4.2 Mobile Data Subscriptions per Mobile Network Operator /Market Share

MTN recorded 17.01 million subscriptions, which represents 72.16% of the market.

While Vodafone recorded 3.19 million subscriptions with a 13.52% share of the market,

AirtelTigo had 3.13 million in mobile data subscriptions with a 13.29% share of the market.

Glo ended the second quarter of 2022 with a total data subscription of 0.24 million and a market share of 1.04% (Figure 13).

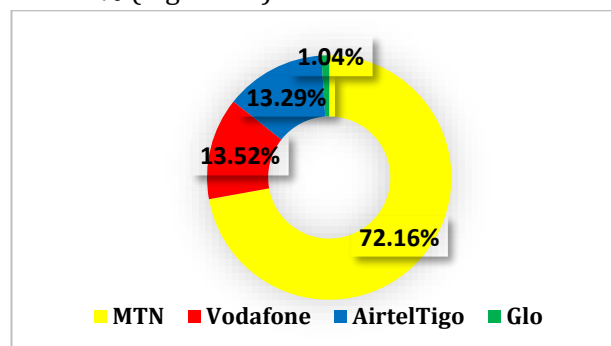


Figure 13: Market Share per Operator

1.5 Mobile Data Traffic in Billions of Megabytes (MB)

At the end of Q2 2022, internet traffic generated by the mobile network operators was 339.65 billion megabytes of data, recording an increase in growth

by 11.67% as compared to 304.15 billion megabytes of data at the end of Q1 2022.

Year-on-year internet traffic increased from 229.08 billion megabytes at the end of Q2 2021 to 339.65 billion megabytes at the end of Q2 2022, representing an increase of 48.27% (Figure 14) (Appendix, Table 11).

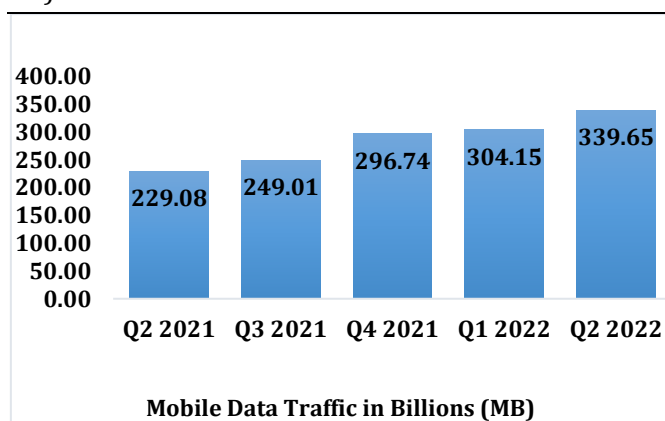


Figure 14: Mobile Data Traffic in Billions of Megabytes (MB)

1.5.1 Mobile Internet Usage per Subscription (MB)⁵

The average mobile internet usage per subscription increased from 4293.5 MB at the end of Q1 2022 to 4793.0 MB at the end of Q2 2022 recording a growth of 11.63%.

Year-on- year average data usage per subscription increased from 3345.3 MB at the end of Q2 2021 to 4793.0 MB at the end of Q2 2022, recording a growth of 43.27% (Figure 15) (Appendix, Table 12).

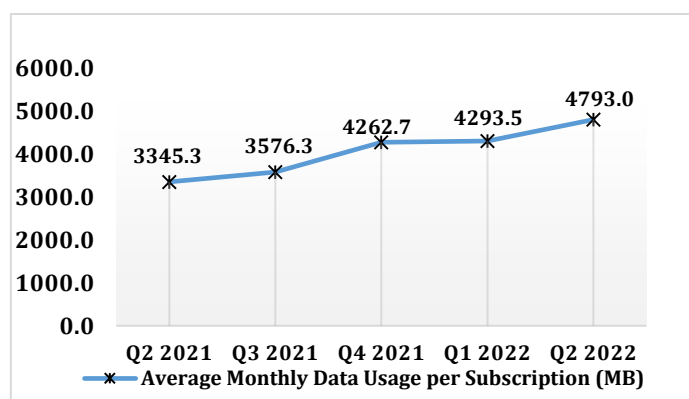


Figure 15: Mobile Data Usage per Subscription (MB)

⁵ Mobile Internet usage per subscription is calculated by dividing the total average volume of internet traffic for the quarter by the total average mobile internet subscription for that quarter.

1.5.2 Mobile Internet Traffic (MB) per Mobile Network Operator

MTN generated the highest volume of internet traffic, 263.35 billion megabytes with a market share of 77.54%.

Vodafone followed with a traffic of 53.09 billion megabytes and a market share of 15.63%.

AirtelTigo also had 17.40 billion megabytes of data, recording a market share of 5.12%.

Glo recorded the least data usage, generating 5.81 billion megabytes with a market share of 1.71% (Figure 16) (Appendix, Table 13)

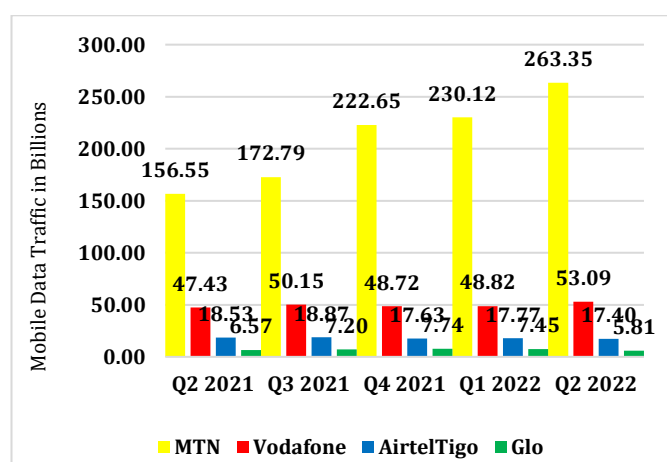


Figure 16: Mobile Internet Traffic (MB) per Operator

1.6 Mobile Telecommunications Service Tariffs

Quarter- on -quarter average tariffs for off net mobile voice stood at 0.13 pesewas at the end of Q2 2022

Average on net tariff mobile voice also remained at 0.13 pesewas.

Average off net and on net SMS tariffs both stood at 0.06 pesewas.

The average data tariff for the quarter also maintained its price of 0.09 pesewas. (Figure 17) (Appendix, Table 14).

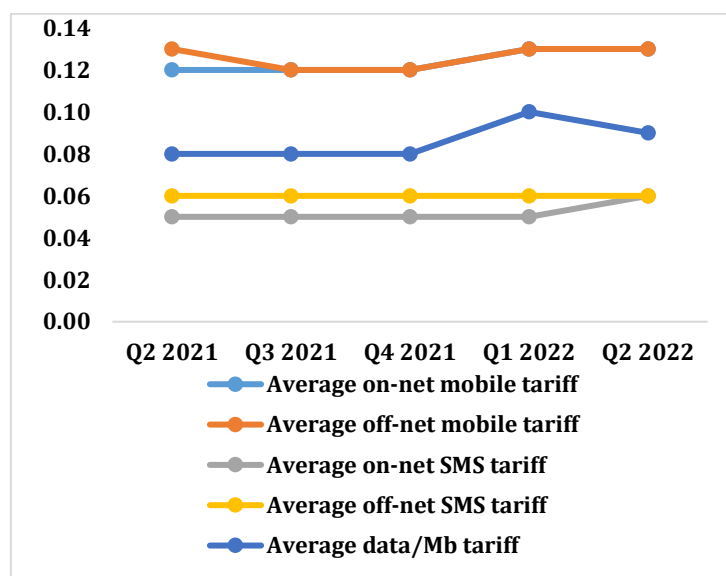


Figure 17: Average Mobile Tariffs per Service

2.0 BROADBAND WIRELESS ACCESS (BWA)

There are five (5) Broadband Wireless Access operators in Ghana namely; BLU Telecommunications⁶, Broadband Home (BBH), Busy Internet, Surline and Telesol.

2.1 BWA Subscriptions and Penetration Rate

BWA subscriptions decreased from 48,901 in Q1 2022 to 47,984 in Q2 2022, representing a decline in growth of 1.88%.

Year-on-year subscriptions also decline by 9.91%, which was from 53,263 in Q2 2021 to 47,984 at the end Q2 2022.

Penetration rate for broadband wireless access was 0.15% at the end of Q2 2022. (Figure 18) (Appendix, Table 15).

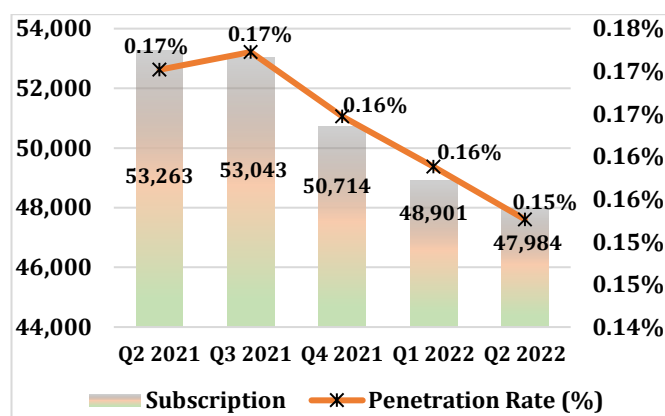


Figure 18: BWA Subscription and Penetration Rate

2.1.1 Subscriptions per Broadband Wireless Access (BWA) Operator

Surline recorded 37,519 subscriptions at the end of the quarter under review representing 78.19% of the market share, as against 39,538 in the previous quarter.

Busy ended this quarter with a subscription of 6,481 and a market share of 13.51% as against 5,383 subscriptions in the previous quarter.

Telesol recorded 3,216 subscriptions Q2 2022 with a market share of 6.70% as against 3,208 in Q1 2022.

BBH had a subscription of 768 and a market share of 1.60% at the end of Q2 2022 as against 772

subscriptions in Q1 2022. (Figure 19) (Appendix, Table 16).

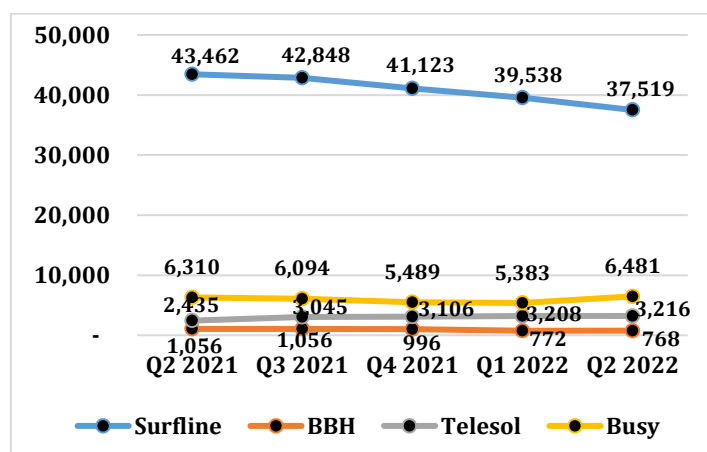


Figure 19: Subscriptions per Broadband Wireless Access (BWA) Operator

2.2 Broadband Wireless Access (BWA) Volume of Internet Traffic

The total volume of internet traffic generated by the BWAs increased from 6.55 billion megabytes at the end of Q1 2022 to 6.79 billion megabytes at the end of Q2 2022, indicating a percentage growth of 3.66%.

Year-on-year internet traffic generated by the BWAs decrease from 6.97 billion megabytes at the end of Q2 2021 to 6.79 billion megabytes at the end of Q2

2022, representing a decline in growth by 2.68% (Figure 20) (Appendix A, Table 17).

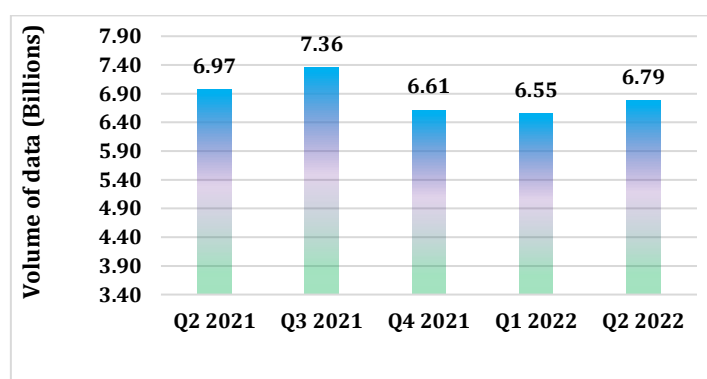


Figure 20: BWA Internet Traffic in Megabytes (MB)

2.2.1 Volume of BWA Traffic per Operator

Surline's total volume of internet traffic for the quarter under review was 4.98 billion MB, as against

⁶ As at the time of preparation of the report, there was no available data for BLU Telecommunications.

4.92 billion MB in the previous quarter representing 73.32% of the total volume of traffic.

Busy had a total internet traffic of 1.36 billion MB at the end of Q2 2022 with a market share of 20.00%

Telesol recorded 0.440 billion MB with a market share of 6.48%.

BBH ended Q2 2022 with 0.0130 billion MB of volume of internet traffic and a market share of 0.20%. (Figure 21) (Appendix, Table 17).

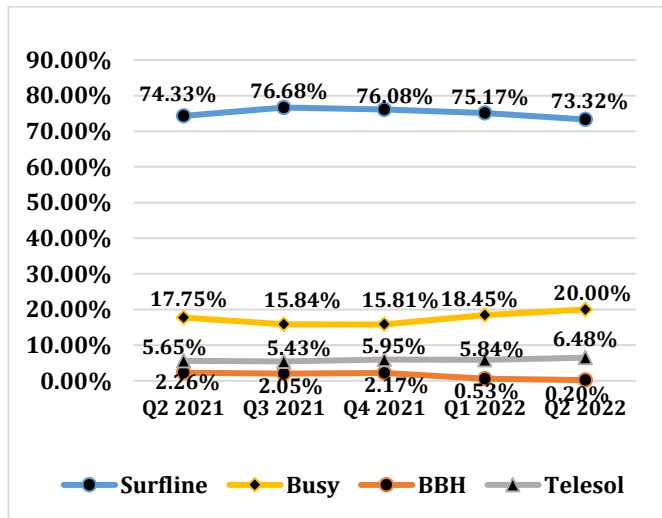


Figure 21: BWA Traffic Market Share per Operator (MB)

2.2.2 Average Monthly Internet Usage per BWA Subscription⁷

Average internet usage per BWA subscription increased from 4.30 thousand megabytes in Q1 2022 to 4.75 thousand megabytes in Q2 2022.

Year-on-year internet usage per subscription also increased from 4.36 thousand megabytes in Q1 2022 to 4.75 thousand megabytes at the end of Q2 2022 (Figure 22) (Appendix, Table 18).

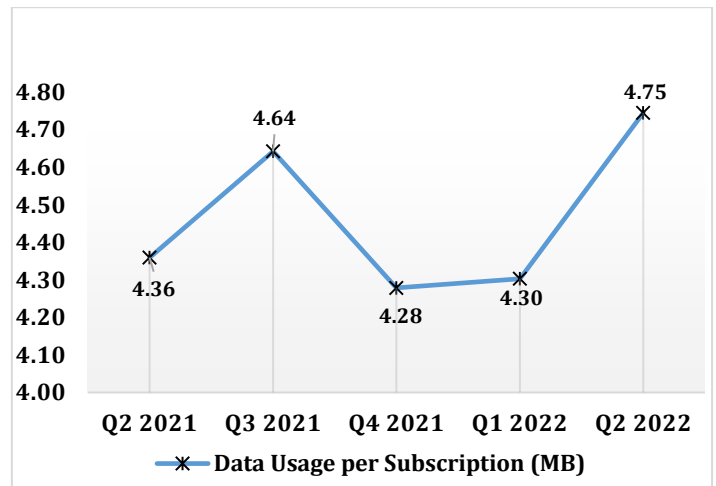


Figure 22: Average Internet Usage per BWA Subscription

⁷BWA data per subscriptions is calculated by dividing the total average volume of BWA's traffic for the quarter by the total average of BWA subscriptions for that quarter.

3.0 FIXED NETWORK

This section analyses the fixed telephone industry in Ghana. Three (3) operators namely Vodafone, AirtelTigo and MTN have been licensed by the NCA to provide this service.

3.1 Fixed Voice Subscriptions and Penetration Rate

Total number of fixed line subscriptions decreased from 320,460 in Q1 2022 to 307,483 at the end of Q2 2022. This shows a penetration rate of 0.98% and a 4.05% decrease in growth.

Year-on-year subscription decreased from 315,167 in Q2 2021 to 307,483 at the end of Q2 2022, representing a decline in growth rate of 2.41% (Figure 23) (Appendix, Table 19).

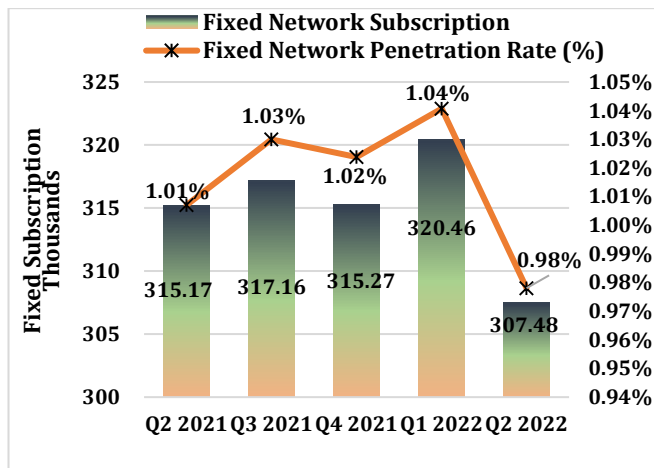


Figure 23: Fixed Network Voice Subscription and Penetration Rate

3.2 Fixed Voice Network Traffic

Total fixed voice traffic decreased by 7.08% from 9.76 million minutes in Q1 2022 to 9.07 million minutes in Q2 2022

Year-on-year total fixed voice traffic also decreased by 3.12%, from 9.36 million minutes in Q2 2021 to 9.07 million minutes in Q2 2022. (Figure 24) (Appendix, Table 20).

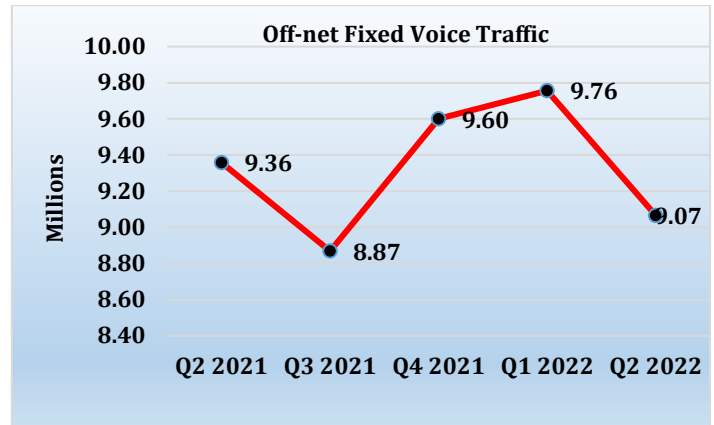


Figure 24: Total Fixed Voice Traffic

3.3 Fixed Voice Average Minute of Use⁸

Average fixed voice traffic per subscription decreased from 10.114 minutes to 9.769 minutes at the end of Q2 2022 (-3.41%).

Year-on-year minutes of use per subscription also decreased from 10.051 minutes in Q2 2021 to 9.769 minutes at the end of Q2 2022 (-2.81%) (Figure 25) (Appendix A, Table 21).

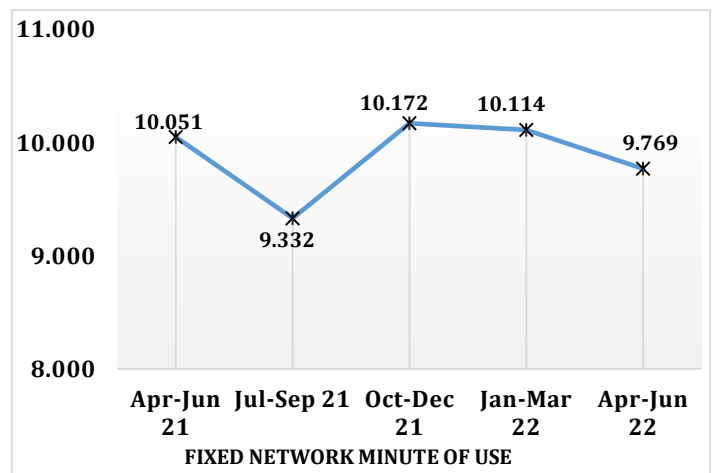


Figure 25: Fixed Network Minute of Use

⁸ Fixed Network Minutes of use per subscriptions is calculated by dividing the total average volume of traffic for the quarter by the total average fixed subscriptions for that quarter.

3.4 Fixed Data Subscriptions and Penetration

Fixed data subscriptions went down from 102,745 in the previous quarter to 97,997 in the quarter under review, which represents a decrease in growth rate of 4.62%.

Year-on-year fixed data subscriptions increased from 90,052 in the preceding year to 97,997 at the end of Q2 2022 representing a growth rate of 8.82%,

Fixed data penetration rate decreased from 0.33% at the end of Q1 2022 to 0.31% at the end of Q2 2022. (Figure 26) (Appendix, Table 22).

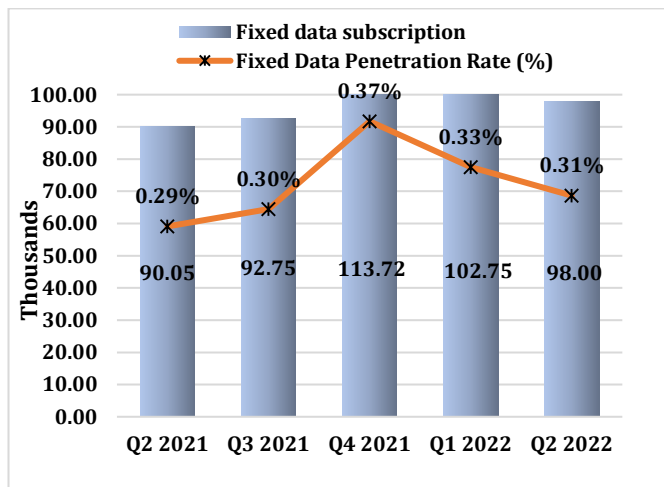


Figure 26: Fixed Data Subscriptions and Penetration

3.5 Fixed Data Subscriptions per Mobile Network Operator

Vodafone's subscriptions at the end of Q2 2022 was 69,758 representing 71.18% of the market share as against 69,163 in Q1 2022.

MTN's subscriptions at the end of Q2 2022 was 27,595 representing 28.16% of the market share as compared to 32,923 in Q1 of 2022

AirtelTigo recorded 644 subscriptions at the end of Q2 2022 with a market share of 0.66% as compared to 659 in the previous quarter. (Figure 27) (Appendix, Table 23).

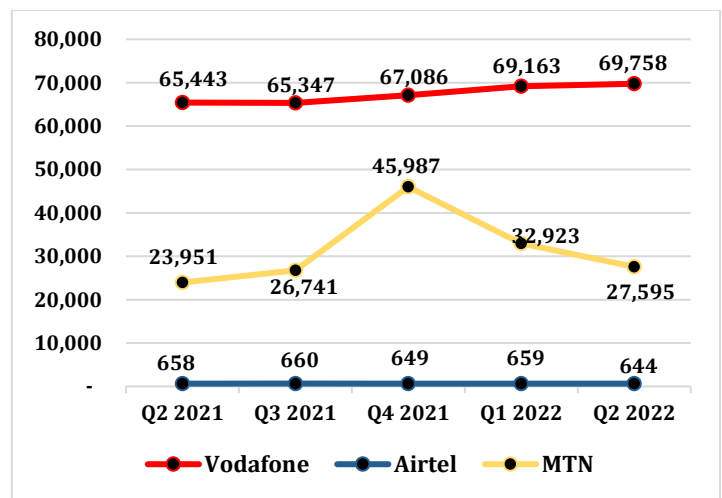


Figure 27: Fixed Data Subscription per Operator

4.0 BROADCASTING

4.1 Authorised Frequency Modulation (FM) Radio Station

The total number of authorised FM stations in Ghana as at the end of Q2 2022 was 699. The total number of FM stations in operation was 507 in the quarter under review.

The Ashanti Region had the highest number of FM stations (101), representing 14.45% of the total number of authorised FM stations in the country. The Savannah Region had the least number of authorised FM Stations (12), representing 1.72% of the total authorised FM Stations in the country. (Figure 28) (Appendix A, Table 25).

Figure 28: Regional distribution of authorised FM stations as at end of Q2 2022

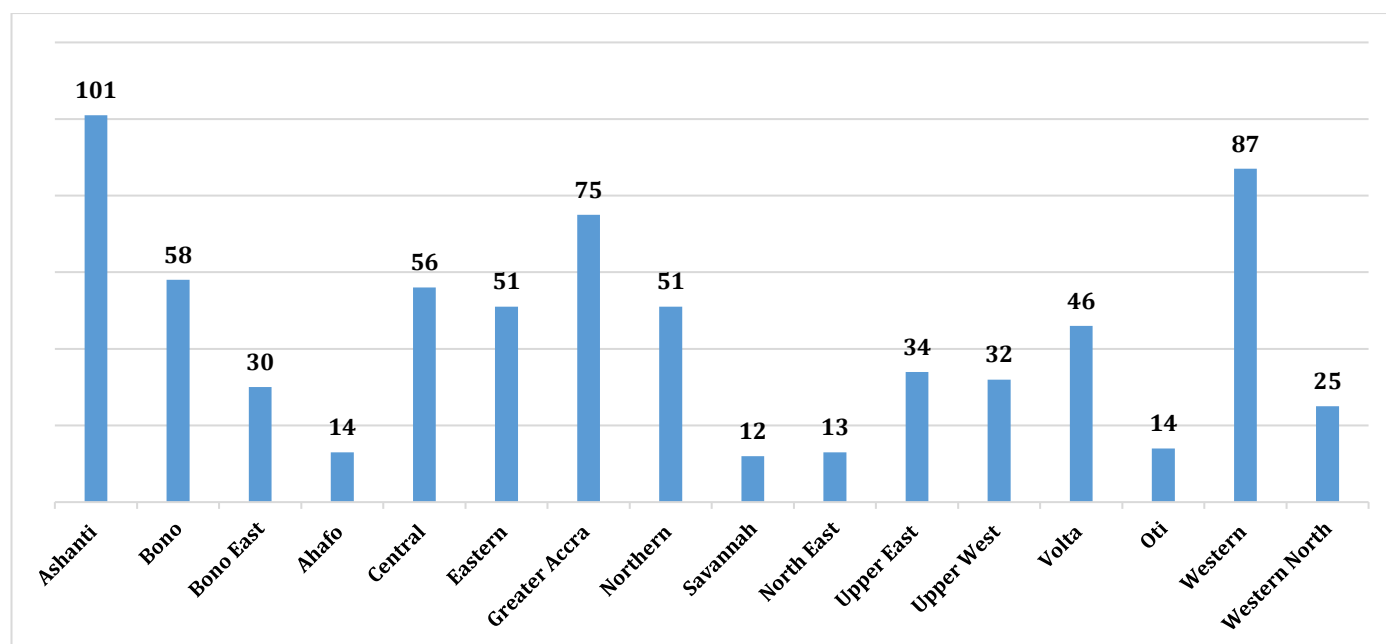


Figure 29: Regional distribution of On-air and Off-air FM stations as at end of Q2 2022

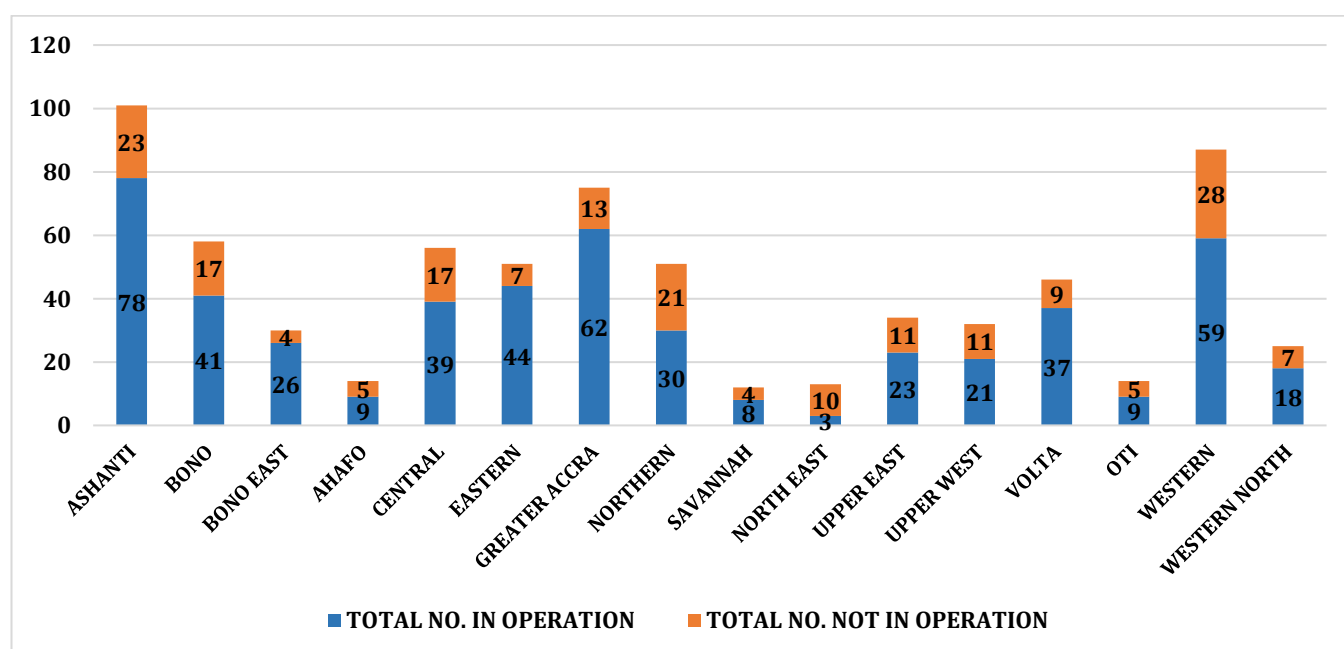
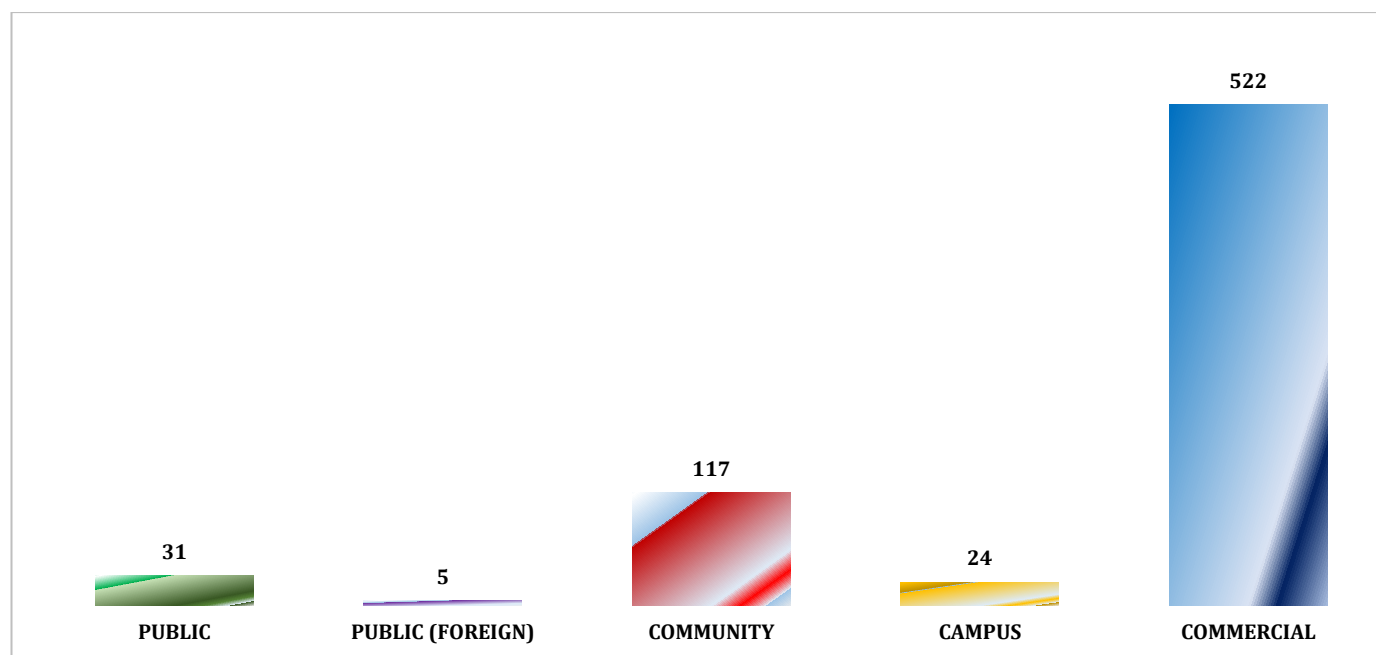


Figure 30: Purpose of Authorised Radio Stations as at Q2 2022



4.2 Authorised Television Stations

The total number of authorised TV stations in Ghana at the end of the second quarter of 2022 was 152 out of which 112 were operational during the quarter under review, representing 73.68% of the total number of authorised TV stations in the country (Figure 32) (Appendix A, Table 26).

Figure 31: Authorised TV Stations Q2 2022

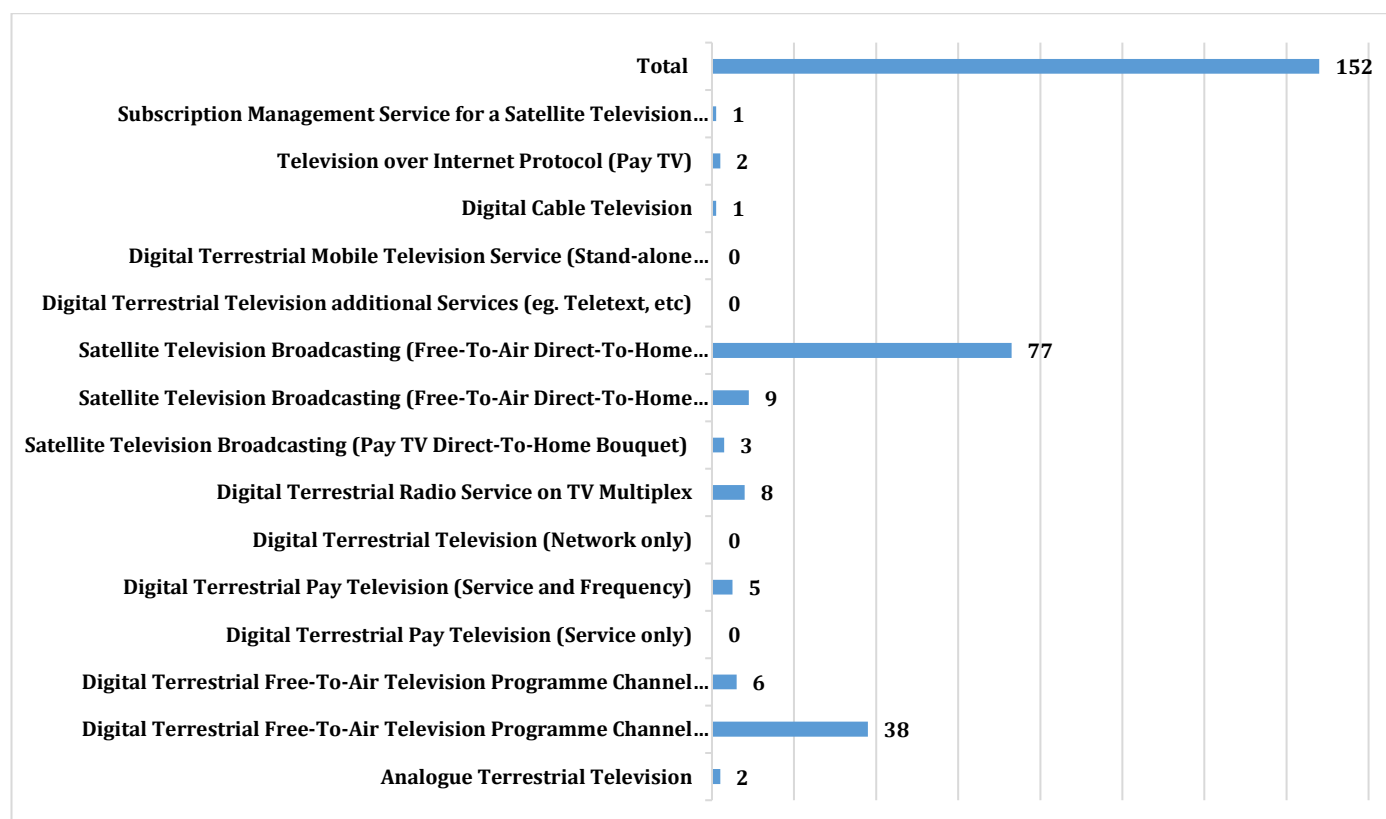
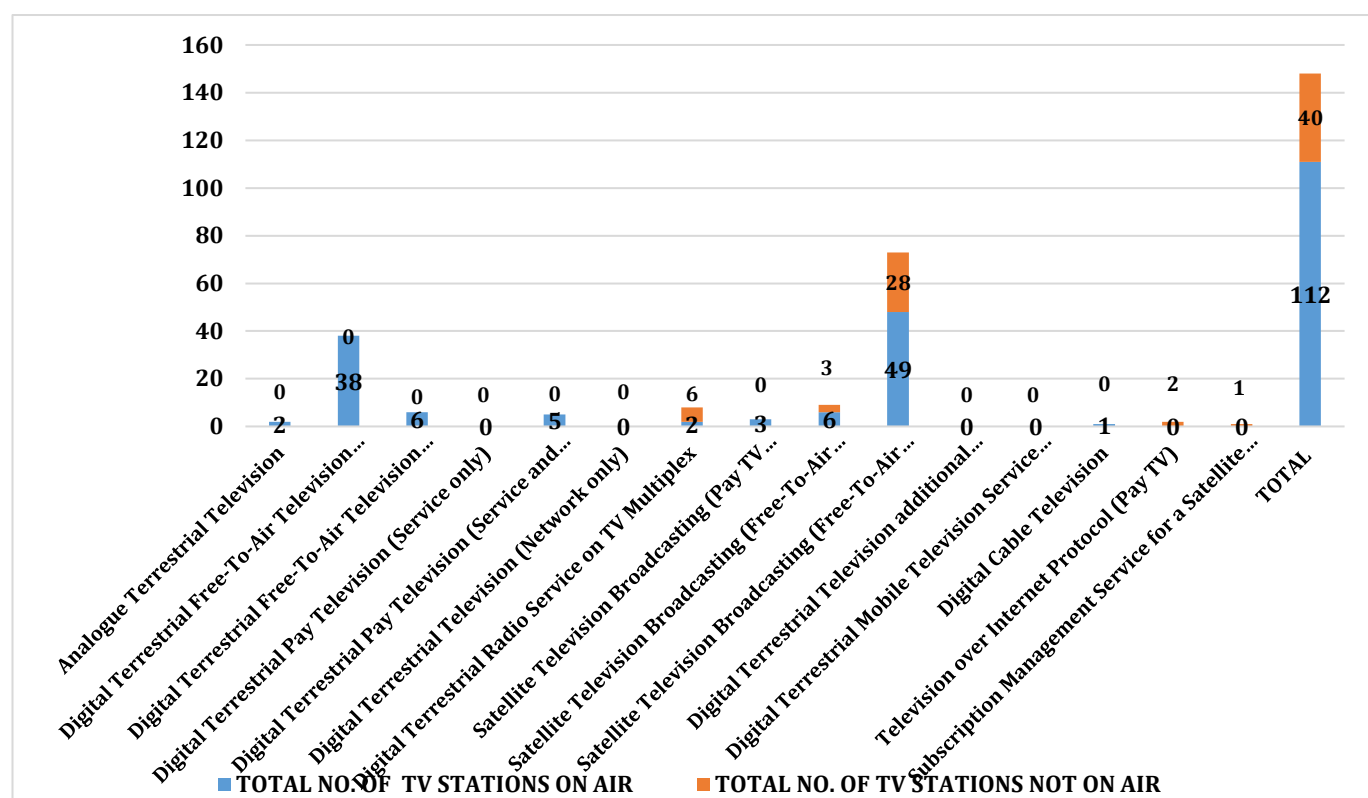


Figure 32: Distribution of Types of TV Services (On-Air and Off-Air TV Stations) as at end of Q2 2022



Appendix A (List of Tables)

Table 1: Mobile Voice Subscriptions and Penetration Rate

Subscription	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Mobile Subscription	41,715,259	41,777,633	40,454,073	41,481,767	40,988,879
Mobile Subscription Growth rate (%)	0.72%	0.15%	-3.17%	2.54%	-1.19%
Net additions	296,549	62,374	1,323,560	1,027,694	-492,888
Net additions Growth Rate (%)	-69%	-79%	-2222%	-178 %	-148%
Population ⁹	31,295,599	30,792,608	30,792,608	30,792,608	31,439,251
Penetration Rate (%)	133.29%	135.67%	131.38%	134.71%	130.37%

Table 2: Mobile Voice Subscriptions and Market Share per Operator

Mobile Network Operator		Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
MTN	Subscriptions	23,504,397	23,618,300	23,966,302	25,558,928	25,848,409
	Market Share (%)	56.34%	56.53%	59.24%	61.61%	63.06%
Vodafone	Subscriptions	9,412,253	9,554,809	8,250,436	7,732,622	7,323,652
	Market Share (%)	22.56%	22.87%	20.39%	18.64%	17.87%
AirtelTigo	Subscriptions	7,984,134	7,719,165	7,390,278	7,403,254	6,826,853
	Market Share (%)	19.14%	18.48%	18.27%	17.85%	16.66%
Glo	Subscriptions	814,475	885,359	847,057	786,963	989,965
	Market Share (%)	1.95%	2.12%	2.09%	1.90%	2.42%
Total Industry Subscription		41,715,259	41,777,633	40,454,073	41,481,767	40,988,879

Table 3: Prepaid and Post-paid Voice Subscriptions and Market Share

Subscription	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Prepaid	41,342,136	41,485,279	40,158,443	41,054,936	40,543,100
Market Share	99.11%	99.30%	99.27%	98.91%	98.91%
Post-paid	373,123	292,354	295,630	426,831	445,779
Market Share	0.89%	0.70%	0.73%	1.03%	1.09%
Total mobile subscription	41,715,259	41,777,633	40,454,073	41,481,767	40,988,879

⁹ The Ghana Statistical Service released the results of the 2021 Population and Housing Census in September 2021, which occasioned the change in population figures for Q3 2021.

Table 4: Mobile Off-net Traffic Distribution between Mobile and Fixed Network

Breakdown of Off-net Traffic	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Traffic (Mobile to Mobile)	1,885,009,496	1,912,874,245	2,134,948,003	2,183,773,095	2,168,717,436
Share (%)	99.37%	99.36%	99.38%	99.44%	99.42%
Growth (%)	-1.66%	1.48%	11.61%	2.29%	-0.69%
Traffic (Mobile to Fixed)	11,913,424	12,247,440	13,274,791	12,324,522	12,654,883
Share (%)	0.63%	0.64%	0.62%	0.56%	0.58%
Growth (%)	0.29%	2.80%	8.39%	-7.16%	2.68%
Total Off-net Traffic	1,896,922,920	1,925,121,685	2,148,222,794	2,196,097,617	2,181,372,319

Table 5: Total Domestic Mobile Voice Traffic in Billions of Minutes

Traffic	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Traffic (Off-net)	1,896,922,920	1,925,121,685	2,148,222,794	2,227,373,879	2,203,886,562
Share (%)	7.10%	6.98%	8.11%	8.61%	8.34%
Growth (%)	-1.65%	1.49%	11.59%	3.68%	-1.92%
Traffic (On-net)	24,838,177,542	25,644,671,167	24,337,097,120	23,643,478,673	24,215,251,832
Share (%)	92.90%	93.02%	91.89%	91.39%	91.66%
Growth (%)	-2.04%	3.25%	-5.10%	-2.85%	2.42%
Total traffic	26,735,100,463	27,569,792,852	26,485,319,914	25,870,852,552	26,419,138,394

Table 6: Mobile Voice Traffic Minutes of Use (MoU) per Subscriptions

Traffic	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Total mobile voice traffic (Average)	8,911,700,154	9,189,930,951	8,828,439,971	8,617,037,713	8,806,379,465
Mobile voice subscription (Average)	41,795,710	41,485,243	41,003,757	41,156,208	41,080,956
Minutes of Use (MoU) per Subscription	213.22	221.52	215.31	209.37	214.37
MoU growth rate (%)	-3.41%	3.89%	-2.81	-2.76%	2.38%

Table 7: International Traffic

Traffic	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Incoming International Traffic	60,270,936	55,163,669	58,828,681	58,199,657	64,296,540
Growth (%)	-7.03%	-8.47%	6.64%	-1.07%	10.48%
Outgoing International Traffic	119,521,985	113,046,604	100,076,292	88,218,754	79,794,526
Growth (%)	-0.82%	-5.42%	-11.47%	-11.85%	-9.55%

Table 8: Total Number of SMS per Mobile Network Operator in Millions

Mobile Operators	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Off-net					
MTN	55,278,726	62,742,323	62,104,351	71,706,837	70,917,153
Vodafone	92,190,382	73,772,560	86,602,956	78,586,700	94,748,489
AirtelTigo	1,761,762	2,097,966	2,157,469	6,933,089	11,557,613
Glo	1,814,990	1,419,660	1,650,792	2,325,071	1,700,940
Total	151,045,860	140,032,509	152,515,568	159,551,697	178,924,195
On- net					
MTN	239,764,050	253,028,977	289,367,097	362,681,706	392,514,195
Vodafone	156,798,754	151,516,314	148,434,883	106,170,295	68,192,778
AirtelTigo	2,234,062	2,589,368	2,270,195	1,947,850	1,656,882
Glo	274,538	259,395	321,341	379,052	188,593
Total	399,071,404	407,394,054	440,393,516	471,178,903	462,552,448
Total					
MTN	295,042,776	315,771,300	322,781,615	434,388,543	463,431,348
Vodafone	248,989,136	225,288,874	226,048,540	184,756,995	162,941,267
AirtelTigo	3,995,824	4,687,334	4,667,142	8,880,939	13,214,495
Glo	2,089,528	1,679,055	1,669,271	2,704,123	1,889,533
Total	550,117,264	547,426,563	592,909,085	630,730,600	641,476,643

Table 9: Average SMS per Subscription

	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Total SMS (Average)	183,372,421	182,475,521	197,636,404	210,027,552	213,825,548
Mobile Subscription (Average)	41,795,710	41,485,243	41,003,757	41,156,208	41,080,956
Average SMS per Subscription	4.4	4.4	4.8	5.1	5.2

Table 10: Mobile Data Subscriptions (Prepaid/Postpaid)

Mobile Data Subscriptions		Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Prepaid	Subscriptions	22,608,751	23,041,438	23,237,338	23,507,496	23,388,524
	Market Share %)	98.93%	98.95%	99.24%	99.22	99.20%
Post-paid	Subscriptions	243,664	243,738	177,189	185,085	189,077
	Market Share %)	1.07%	1.05%	0.76%	0.78%	0.80%
Total mobile data subscriptions		22,852,415	23,285,176	23,414,527	23,692,581	23,577,601

Table 11: Mobile Data Traffic in Billions of Megabytes (MB)

Mobile Operator	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Mobile data usage (MB)	229,082,453,700	249,013,730,795	296,738,560,185	304,154,750,559	339,648,306,422

Table 12: Mobile Internet Usage per Subscription (MB)

Mobile Operator	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Average Mobile data usage (MB)	76,360,817,900	83,004,576,932	98,912,853,395	101,384,916,853	113,216,102,141
Average Total Subscription	22,826,343	23,209,722	23,204,483	23,613,836	23,621,298
Average Data Usage per Subscription (MB)	3345.3	3576.3	4262.7	4293.5	4793.0

Table 13: Mobile Data Traffic (MB) per Operator

Mobile Operator	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
MTN	156,551,111,192	172,790,095,331	222,647,497,298	230,117,454,491	263,350,389,862
	68.34%	69.39%	75.03%	75.66%	77.54%
Vodafone	47,425,832,605	50,148,377,173	48,721,266,699	48,820,372,630	53,086,746,466
	20.70%	20.14%	16.42%	16.05%	15.63%
AirtelTigo	18,534,563,652	18,872,129,145	17,630,556,987	17,771,836,916	17,403,073,281
	8.09%	7.58%	5.94%	5.84%	5.12%
Glo	6,570,946,251	7,203,129,146	7,739,239,202	7,445,086,522	5,808,096,813
	2.87%	2.89%	2.61%	2.45%	1.71%
Total Industry Traffic (MB)	229,082,453,700	249,013,730,795	296,738,560,185	304,154,750,559	339,648,306,422

Table 14: Average Mobile Tariff per Service (GHp)

Tariff	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Average on-net mobile tariff	0.12	0.12	0.12	0.13	0.13
Average off-net mobile tariff	0.13	0.12	0.12	0.13	0.13
Average on-net SMS tariff	0.05	0.05	0.05	0.05	0.06
Average off-net SMS tariff	0.06	0.06	0.06	0.06	0.06
Average data/Mb tariff	0.08	0.08	0.08	0.10	0.09

Table 15: BWA Data Subscriptions and Penetration

BWA Operator	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Subscription	53,263	53,043	50,714	48,901	47,984
Growth rate (%)	0.31%	-0.41%	-4.39%	-3.57%	-1.88%
Net Additions	162	-220	-2329	-1813	-917
Population	31,295,599	30,792,608	30,792,608	30,792,608	31,439,251
Penetration Rate (%)	0.17%	0.17%	0.16%	0.16%	0.15%

Table 16: Subscriptions per Broadband Wireless Access (BWA) Operator

BWA Operator	Subscription and Market Share	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Surflin	Subscription	43,462	42,848	41,123	39,538	37,519
	Market share (%)	81.60%	80.78%	81.09%	80.85%	78.19%
Busy	Subscription	6,310	6,094	5,489	5,383	6,481
	Market share (%)	11.85%	11.49%	10.82%	11.01%	13.51%
Telesol	Subscription	2,435	3,045	3,106	3,208	3,216
	Market share (%)	4.57%	5.74%	6.12%	6.56%	6.70%
BBH	Subscription	1,056	1,056	996	772	768
	Market share (%)	1.98%	1.99%	1.96%	1.58%	1.60%
Industry Total		53,263	53,043	50,714	48,901	47,984

Table 17: Data Traffic (MB) per Broadband Wireless Access (BWA) Operator

BWA Operator		Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Surflin	Data usage (MB)	5,182,843,180	5,643,384,650	5,031,694,350	4,920,450,040	4,975,295,210
	Market share (%)	74.33%	76.68%	76.08%	75.17%	73.32%
Busy	Data usage (MB)	1,237,829,479	1,165,766,895	1,045,337,772	1,207,650,049	1,357,054,445
	Market share (%)	17.75%	15.84%	15.81%	18.45%	20.00%
BBH	Data usage (MB)	157,627,020	150,607,300	143,258,920	34,938,110	13,303,327
	Market share (%)	2.26%	2.05%	2.17%	0.53%	0.20%
Telesol	Data usage (MB)	394,015,521	399,911,382	393,595,726	391,752,190	439,706,672
	Market share (%)	5.65%	5.43%	5.95%	5.84%	6.48%
Industry Total (MB)		6,972,315,200	7,359,670,228	6,613,886,768	6,545,608,897	6,785,359,654

Table 18: Internet Usage per BWA Subscriptions (MB)

BWA Operator	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Volume of Data Traffic (Average)	2,324,105,067	2,453,223,409	2,204,628,923	2,184,930,304	2,261,786,551
Subscription (Average)	53,313	52,843	51,507	49,515	47,666
Data Usage per Subscription (MB)	43,593.86	46,424.76	42,786.73	44,126.93	47,450.40

Table 19: Fixed Network Voice Subscriptions and penetration

Fixed Operator	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Vodafone	307,585	309,461	307,278	312,981	299,897
	97.59%	97.57%	97.46%	97.67%	97.53%
AirtelTigo	3,489	3,415	3,634	3,088	2,566
	1.11%	1.08%	1.15%	0.96%	0.83%
MTN	4,093	4,284	4,359	4,391	5,020
	1.30%	1.35%	1.38%	1.37%	1.63%
Total industry subscription	315,167	317,160	315,271	320,460	307,483
Population	31,295,599	30,792,608	30,792,608	30,792,608	31,439,251
Fixed Network Penetration Rate (%)	1.01%	1.03%	1.02%	1.04%	0.98%

Table 20: Fixed Network Volume of Traffic in Minutes

Traffic	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
On-net Fixed voice traffic	-	-	-	-	-
Off-net fixed voice traffic	9,357,301	8,868,159	9,600,469	9,765,791	9,065,187
Total Fixed Voice Traffic	9,357,301	8,868,159	9,600,469	9,765,791	9,065,187

Table 21: Fixed Network Minute of Use per Subscriptions

Traffic (Average)	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Total Fixed Voice Traffic	3,119,100	2,956,053	3,200,156	3,255,264	3,021,729
Subscription (Average)	310,312	316,775	314,614	321,856	309,318
Minutes of Use per Subscription (MoU)	10.1	9.3	10.2	10.114	9.769
Growth Rate	0.35%	-7.15%	9.00%	-0.57%	-3.41%

Table 22: Fixed Broadband Data Subscriptions and Penetration

Fixed network operator	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
Vodafone	65,443	65,347	67,086	69,163	69,758
	72.67%	70.46%	58.99%	67.32%	71.18%
Airtel	658	660	649	659	644
	0.73%	0.71%	0.57%	0.64%	0.66%
MTN	23,951	26,741	45,987	32,923	27,595
	26.60%	28.83%	40.44%	32.04%	28.16%
Total fixed data subscription	90,052	92,748	113,722	102,745	97,997
Population	31,295,599	30,792,608	30,792,608	30,792,608	31,439,251
Fixed Data Penetration Rate (%)	0.29%	0.30%	0.37%	0.33%	0.31%

Table 23: Regional Distribution of FM Stations by Purpose as at the end of Q2 2022

Name of Regions	Public	Public (Foreign)	Community	Campus	Commercial
Ashanti	2	1	16	4	78
Bono	1	-	6	2	49
Bono East	2	-	4	-	24
Ahafo	-	-	1	-	13
Central	2	-	13	3	38
Eastern	2	-	13	1	35
Greater Accra	2	3	10	4	56
Northern	3	-	10	2	36
Savannah	3	-	4	-	5
North East	1	-	5	-	7
Upper East	2	-	9	3	20
Upper West	2	-	10	2	18
Volta	3	-	5	1	37
Oti	1	-	3	-	10
Western	2	1	8	2	74
Western North	3	-	-	-	22
Total	31	5	117	24	522

Table 24: Regional Distribution of FM Stations as at the end of Q2 2022

Name Of Regions	Authorized FM Stations	FM Stations In Operation
Ashanti	101	78
Bono	58	41
Bono East	30	26
Ahafo	14	9
Central	56	39
Eastern	51	44
Greater Accra	75	62
Northern	51	30
Savannah	12	8
North East	13	3
Upper East	34	23
Upper West	32	21
Volta	46	37
Oti	14	9
Western	87	59
Western North	25	18
Total	699	507

Table 25: Authorised TV Stations as at the end of Q2 2022

Type of Television Service	Authorised TV Stations		No. of TV Stations in Operation (Q2 2022)	No. of TV Stations not in Operation (Q2 2022)
	End of Q1 2022	End of Q2 2022		
Analogue Terrestrial Television	2	2	2	0
Digital Terrestrial Free-To-Air Television Programme Channel (Nationwide Coverage)	38	38	38	0
Digital Terrestrial Free-To-Air Television Programme Channel (Regional Coverage)	6	6	6	0
Digital Terrestrial Pay Television (Service only)	0	0	0	0
Digital Terrestrial Pay Television (Service and Frequency)	5	5	5	0
Digital Terrestrial Television (Network only)	0	0	0	0
Digital Terrestrial Radio Service on TV Multiplex	8	8	2	6
Satellite Television Broadcasting (Pay TV Direct-To-Home Bouquet)	3	3	3	0

Satellite Television Broadcasting (Free-To-Air Direct-To-Home Bouquet)	9	9	6	3
Satellite Television Broadcasting (Free-To-Air Direct-To-Home Single Channel)	73	77	49	28
Digital Terrestrial Television Additional Services (e.g. Teletext, etc.)	0	0	0	0
Digital Terrestrial Mobile Television Service (Stand-alone Authorisation)	0	0	0	0
Digital Cable Television	1	1	1	0
Television over Internet Protocol (Pay TV)	2	2	0	2
Subscription Management Service for a Satellite Television Broadcasting (Pay TV Direct- To-Home Bouquet)	1	1	1	0
Total	148	152	112	40

Source: NCA, 2022

Disclaimer:

The National Communications Authority has been diligent to ensure the data in this bulletin are accurate. However, the Authority is not liable for inconsistencies, errors, and gaps in any data or information contained in this bulletin, which is dependent upon the various licensees data submissions to the Authority.

NCA CONTACTS AND PRESENCE COUNTRYWIDE

The Authority currently has eight (8) regional offices to support its operations. Their addresses are listed below

- **Accra, Head Office**

National Communications Authority,
NCA Tower, No 6 Airport City
Close to the Marina Mall
P. O. Box CT 1568, Cantonments, Accra
Tel: +233 (0) 302 776621, 771701
Fax: +233 (0) 302 763449
E-mail: info@nca.org.gh
Complaints: +233 (0) 30 701 1419
complaints@nca.org.gh
Website: www.nca.org.gh

- **Accra Office**

National Communications Authority
1st Rangoon Close,
Switchback Road, Cantonment, Accra
P. O. Box CT 1568,
Cantonment, Accra
Tel: +233 (0) 553 369862, (0) 553 432215
E-mail: complaints.accra@nca.org.gh

- **Bolgatanga Office**

National Communications Authority,
Zorbisi Zaare Residential Area in Bolgatanga Municipality
Private Mail Bag, Bolgatanga,
Upper East Region
Tel: +233 (0) 3820 21141
E-mail: complaints.bolgatanga@nca.org.gh

- **Ho Office**

National Communications Authority,
Plot No. 75, Stadium Road, Kabore Junction
P. O. Box HP1576, Ho, Volta Region
Tel: +233 (0) 3620 26339
E-Mail: complaints.ho@nca.org.gh

- **Koforidua Office**

National Communications Authority,
Block C along the Galloway Road
Private Mail Bag, Koforidua, Eastern Region
Tel: +233 (0) 3420 28378, 28380, 28382
E-Mail: complaints.koforidua@nca.org.gh

- **Kumasi Office**

National Communications Authority,
Fuller Road, Danyame, Kumasi
P. O. Box KS 10768, Kumasi,
Ashanti Region, Ghana
Tel: + 233 (0) 32 202 0014 / 32 202 0018 / 32 202 0019
Fax: (+233) 32 002 0064
E-Mail: complaints.kumasi@nca.org.gh

- **Sunyani Office**

National Communications Authority,
House No 83, North Nkwabeng
P. O. Box SY125, Sunyani, Bono Region
Tel: +233 (0) 3520 27564
E-Mail: complaints.sunyani@nca.org.gh

- **Takoradi Office**

National Communications Authority,
Bakado, 3kms away from the Prisons
(R.S.,K. Barnes Ct, Sekondi - Takoradi
P. O. Box SL 409, Sekondi,
Western Region, Ghana
Tel: +233 (0) 31 202 8073 / 31 202 8049
Fax: +233 (0) 31 202 8063
E-Mail: complaints.takoradi@nca.org.gh

- **Tamale Office**

National Communications Authority,
Watherson Residential Area
Plot No. 3 & 4, Tamale
P. O. Box TL 1590, Tamale,
Northern Region, Ghana
Tel: + 233 (0) 37 202 8105 / 37 020 8104
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E-Mail: complaints.tamale@nca.org.gh

