

QUARTERLY STATISTICAL BULLETIN ON COMMUNICATIONS IN GHANA

Volume 9 Issue 1

NATIONAL COMMUNICATIONS AUTHORITY

FIRST QUARTER

JANUARY - MARCH, 2024

Communications for Development

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Author: National Communications Authority (NCA)
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All enquires on the Quarterly Statistical Bulletin on Communications can be sent to:
The Director General
Attn: Director, Research, Innovation, Policy and Strategy Division
National Communications Authority
Phone: +233 (0) 302 776 621
Email: rips@nca.org.gh
info@nca.org.gh
Website: www.nca.org.gh

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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

Moving from Good to a Great Regulator; An innovative, agile, professional, and proactive Regulator, adaptive to emerging changes in the communication and digital ecosystem, and delivering optimally to all stakeholders.

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 licensees[1]. 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".

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[1] MTN, Telecel, AT, Telesol

DEFINITION OF TERMS

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

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

Machine-to-Machine Subscriptions - Refers to the number of mobile-cellular machine to-machine subscriptions that are assigned for use in machines and devices (cars, smart meters, consumer electronics) for the exchange of data between networked devices, and are not part of a consumer subscription.

Basic Phones - Solely for calling and texting with minimal addition.

Feature Phones: Can make and receive calls, send and receive text messages and provide some of the enhanced features found on smartphones such as social media access and browsing.

Smartphones: A class of mobile phones and of multi-purpose mobile computing devices distinguished from feature phones by their stronger hardware capabilities and extensive mobile operating systems, which facilitate wider software, internet (including web browsing over mobile broadband) and multimedia functionality (including music, video, cameras and gaming) alongside core functions such as voice calls and text messaging

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

Mobile Data Usage per Subscription - It is calculated by dividing the total volume of data traffic for the quarter by 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 Addition – It refers to the increase or decrease in mobile voice/data subscriptions during the month.

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.

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THE COMMUNICATIONS INDUSTRY AT A GLANCE[2]

INDICATOR/PERIOD		Q4 2023 (Oct – Dec)	Q1 2024 (Jan – Mar)	Quarterly Variation (%)	Annual Variation (%)
MOBILE NETWORK SERVICES					
Subscription to Mobile Voice Services (Counts)	Total Mobile (SIM) Subscriptions	33,384,460	34,878,543	4.48%	-9.19%
	Machine-to-Machine (M2M) Subscriptions	1,353,458	1,582,076	16.89%	34.98%
Mobile Data Subscriptions (Counts)	Total Mobile Data Subscriptions	23,207,628	24,351,778	4.93%	7.63%
Mobile Data Traffic (MB)	Total Mobile Data Traffic	495,892,100,256	511,988,575,879	3.25%	16.76%
Mobile Phone Devices (counts)	Basic Phones	4,347,697	5,246,383	20.67%	9.36%
	Feature Phones	11,450,697	11,860,489	3.58%	-17.00%
	Smartphones	18,686,118	20,938,496	12.05%	1.15%
DOMESTIC MOBILE TRAFFIC					
Domestic Mobile Voice Traffic (Minutes)	On-Net Voice Traffic	24,221,174,623	25,461,814,435	4.70%	12.55%
	Off-Net Voice Traffic	2,038,853,106	2,031,669,730	-0.35%	-5.89%
	Mobile to Mobile Off-Net Traffic	2,025,958,893	2,019,078,737	-0.34%	-5.94%
	Mobile to Fixed Off-Net Traffic	12,894,213	12,590,993	-2.35%	4.26%
Domestic Mobile SMS Traffic (Counts)	SMS On-Net	581,313,448	554,291,164	-4.65%	2.30%
	SMS Off-Net	383,606,210	388,333,987	1.23%	72.06%
INTERNATIONAL MOBILE TRAFFIC					
International Mobile Voice Traffic (Minutes)	International Incoming Mobile Voice Traffic	41,433,562	37,418,879	-7.40%	-30.72%
	International Outgoing Mobile Voice Traffic	66,062,017	63,299,390	-4.18%	-11.45%
International SMS Traffic (Counts)	International Incoming SMS	78,911,301	81,953,098	3.85%	-16.57%
	International Outgoing SMS	25,579,467	27,254,119	6.55%	29.39%
ROAMING TRAFFIC					
Out-bound Roaming Traffic	Out-bound Roaming Voice Traffic (Minutes)	2,742,478	3,244,962	18.32%	75.62%
In-Bound Roaming Traffic	In-bound Roaming Incoming Voice Traffic (Minutes)	221,940	303,405	36.71%	-24.14%
	In-bound Roaming Outgoing Voice Traffic (Minutes)	14,077,415	14,373,178	2.10%	924.35%
	In-Bound Roaming Incoming SMS (Counts)	81,814,167	82,385,666	0.70%	24.26%
	In-bound Roaming Outgoing SMS (Counts)	4,345,372	5,944,434	36.80%	54.63%

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

Indicator/Period		Q4 2023 (Oct – Dec)	Q1 2024 (Jan - Mar)	Quarterly Variation (%)	Annual Variation (%)
FIXED NETWORK SERVICES					
Fixed Voice Subscriptions (Counts)	Total Fixed Line Subscriptions	318,460	316,753	-0.54%	-4.90%
Domestic Fixed Voice Traffic (Minutes)	Fixed to Mobile	7,268,804	7,038,835	-3.16%	-19.34%
Fixed Data and Broadband Subscriptions and Traffic	Total Fixed Data Subscriptions (Counts)	116,860	118,884	1.73%	9.94%
	Fixed Broadband Subscriptions (counts)	223,278	227,400	1.85%	5.27%
	Fixed Broadband Traffic (MB)	104,929,534,817	98,247,436,594	-6.37%	58.15%
BROADBAND WIRELESS ACCESS SERVICES (BWAs)					
Broadband Wireless Access Subscriptions (Counts)		1,431	1,431	0.00%	-96.21%
Broadband Wireless Access Data Traffic (MB)		257,225,394	152,982,518	-40.53%	-85.23%
BROADCASTING SERVICES					
Licensed TV Stations (Counts)		175	176	0.57%	8.64%
Operational TV Stations (Counts)		137	135	-1.46%	9.76%
Licensed FM Stations (Counts)		747	729	-2.41%	2.10%
Operational FM Stations (Counts)		550	526	-4.36%	1.74%
CATEGORIES OF AUTHORISED FM STATIONS					
Commercial FM Stations (Counts)		549	531	-3.28%	0.00%
Public FM Stations (Counts)		31	31	0.00%	0.00%
Public Foreign FM Stations (Counts)		5	5	0.00%	0.00%
Community FM Stations (Counts)		137	138	0.73%	12.20%
Campus FM Stations (Counts)		25	24	-4.00%	0.00%
PENETRATION RATE (%)					
Mobile Voice Subscriptions		102.94	107.01	3.95%	-12.39%
Mobile Data Subscriptions		71.56	74.71	4.40%	5.17%
Fixed Voice Subscriptions		1.00	0.97	-3.00%	-8.25%
Fixed Data Subscriptions		0.37	0.37	0.00%	8.11%
Broadband Wireless Access (BWA) Subscriptions		0.004	0.004	0.00%	-2900.00%

1.0 MOBILE NETWORK

There are three (3) Mobile Network Operators (MNOs) in Ghana namely AT, MTN and Telecel. This report will focus on the monthly data submitted from January – March 2024 by the MNOs.

This section provides details on the performance of the MNOs in Ghana by focusing on Mobile Voice and Mobile Data Subscriptions, Net Additions to Mobile Voice and Mobile Data Subscriptions, Mobile Voice and Mobile Data Penetrations, Volumes of Mobile Voice and Mobile Data Traffic, and Short Messages Services.

1.1 Mobile Voice Subscriptions and Penetration Rate[3]

The Mobile Voice subscriptions in the country increased from 33.38 million in Q4 2023 to 34.88 million at the end of Q1 2024, representing an increase in growth by 4.48%.

Year -on-Year subscriptions declined from 38.41 million at the end of Q1 2023 to 34.88 million at the end of Q1 2024, recording a 9.19% negative growth rate.

The penetration rate at the end of the quarter under review was 107.01% as compared to 102.94% recorded in Q4 2023, indicating an increase in growth rate by 3.95% (Figure 1) (Appendix, Table 1).

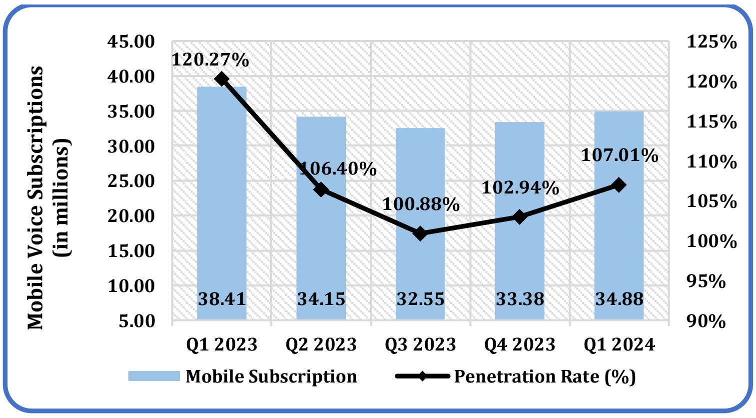


Figure 1: Mobile Voice Subscription and Penetration Rate

1.1.1 Mobile Voice Subscriptions and Market Share per Operator

At the end of Q1 2024, MTN recorded 74.26% of the market share with 25.90 million subscriptions. Telecel followed with 6.25 million subscriptions (17.92%). AT ended the quarter under review with a market share of 7.83% with approximate subscriptions base of 2.73 million (Figure 2) (Appendix, Table 2).

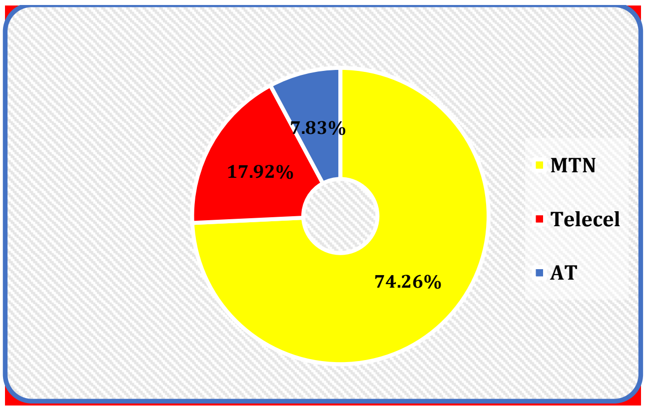


Figure 2: Market Share per Operator

[3] The mobile penetration rate is estimated by dividing the total number of mobile subscribers by the total population.

1.1.2 Quarter-on-Quarter Market Share per Operator in Percentage

MTN increased its market share in percentage from 73.84% in Q4 2023 to 74.26% in Q1 2024, representing a growth of 0.56%. Telecel had a negative growth of 0.46% from 18.80% in Q4 2023 to 17.92% in Q1 2024. AT's market share increased in percentage from 7.36% in Q4 2023 to 7.83% in Q1 2024, representing an increase of 6.36%.

1.1.3 Prepaid and Postpaid Mobile Voice Subscriptions

Prepaid voice subscription was 34.46 million representing a market share of 98.81%, whilst Postpaid voice subscription at the end of the quarter under review was 0.42 million and a market share of 1.19%. (Figure 3) (Appendix, Table 3).

Prepaid voice subscription increased from 32.94 million at the end of Q4 2023 to 34.46 million at the end of Q1 2024 representing a percentage increase of 4.62%.
However, Postpaid voice subscription declined from 0.44 million in Q4 2023 to 0.42 million in Q1 2024 representing a decrease in growth by 6.27%.

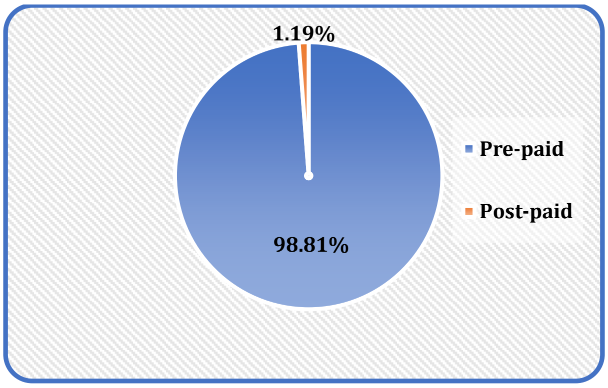


Figure 3: Prepaid and Postpaid Mobile Voice Subscriptions

1.1.4 Machine-to-Machine Subscriptions

The Machine-to-Machine mobile subscriptions (M2M) Subscriptions increased to 1,582,076 in Q1 2024 from 1,353,458 recorded in the preceding quarter, indicating growth of 16.89%.

Year-on-Year subscriptions increased by 34.98% from 1,172,046 in Q1 2023 to 1,582,076 in Q1 2024 (Figure 4) (Appendix, Table 4).

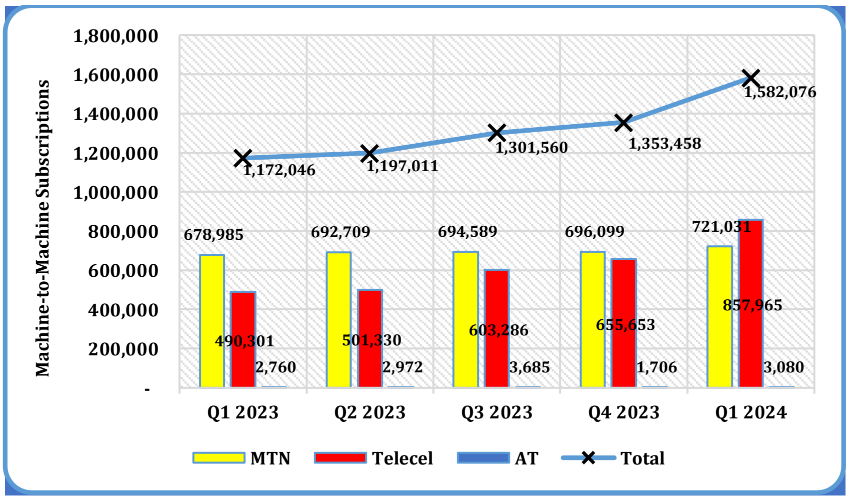


Figure 4: Machine-to-Machine (M2M) Subscriptions

1.1.5 Devices and Terminals

At the end of Q1 2024, a total of 38,045,368 devices were connected to MTN and AT (excluding Telecel). This shows an increase of 10.33% (3,586,856) in the number of devices connected as compared to 34,484,512 recorded in Q4 2023.

Year-on-Year analysis shows that active devices connected to the mobile networks decreased by 4.38% from 39,787,720 in Q1 2023 to 38,045,368 as at the end of Q1 2024.

Out of the 38,045,368 devices connected at the end of Q1 2024, 55.04% (20,938,496) were Smartphones, 31.17% (11,860,489) were Feature phones and 13.79% (5,246,383) were Basic phones. (Figure 5) (Appendix, Table 5).

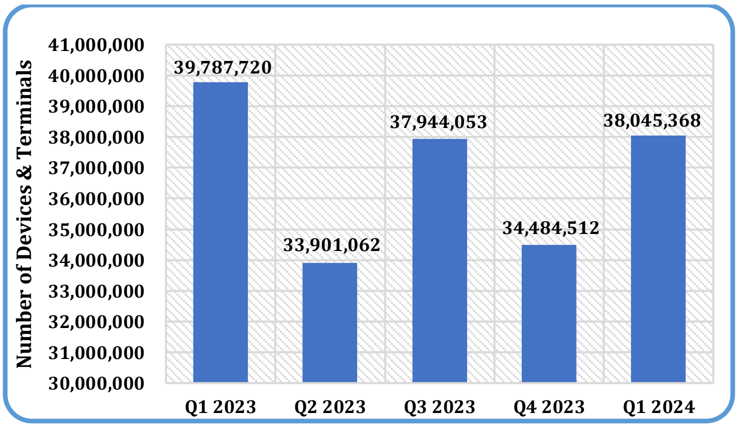


Figure 5: Devices and Terminals

1.2 Off-Net Domestic Voice Traffic

Mobile-to-Mobile Off-Net Traffic decreased from 2.03 billion minutes at the end of Q4 2023 to 2.02 billion at the end of Q1 2024, marginally recording a negative growth of 0.34%.

Year-on-Year Mobile-to-Mobile Off-Net Traffic also decreased from 2.15 billion minutes at the end of Q1 2023 to 2.02 billion minutes at the end of Q1 2024, also recording a negative growth of 0.54%.

Quarter-on-Quarter Mobile-to-Fixed Off-Net Traffic decreased from 12.89 million minutes in Q4 2023 to 12.59 million minutes at the end of Q1 2024 indicating a decrease in growth by 2.35%. Year-on-Year Mobile-to-Fixed Off-Net Traffic increased by 0.53% from 12.08 million minutes at the end of Q1 2023 to 12.59 million minutes at the end of Q1 2024. (Figure 6) (Appendix, Table 6)

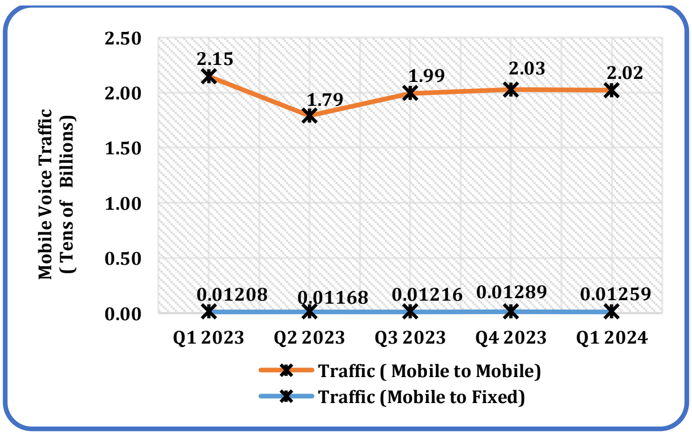


Figure 6: Off-Net Traffic Distribution between Mobile and Fixed Networks

1.2.1 Total Domestic Mobile Voice Traffic

Total Domestic Mobile Voice Traffic increased by 4.70% from 26.26 billion minutes in Q4 2023 to 27.49 billion minutes in Q1 2024.

Year-on-Year Total Domestic Mobile Voice Traffic also increased from 24.42 billion minutes at the end of Q1 2023 to 27.49 billion minutes at the end of Q1 2024, representing a growth rate of 12.53%.

In the quarter under review, Off-Net Domestic Mobile Voice Traffic decreased from 2.04 billion minutes at the end of Q4 2023 to 2.03 billion minutes at the end of Q1 2024, recording a negative growth rate of 0.35%.

Year-on-Year Off-Net Domestic Mobile Voice Traffic decreased from 2.16 billion minutes in Q1 2023 to 2.03 billion minutes at the end of Q1 2024 representing a 5.89% decline in growth.

On-Net Domestic Mobile Voice Traffic increased from 24.22 billion minutes in the previous quarter to 25.46 billion minutes at the end of Q1 2024 representing a growth rate of 5.12%.

Year-on-Year On-Net Domestic Mobile Voice Traffic also grew from 22.27 billion minutes in Q1 2023 to 25.46 billion minutes at the end of Q1 2024 representing a 14.33% increase in growth rate. (Figure 7) (Appendix, Table 7)

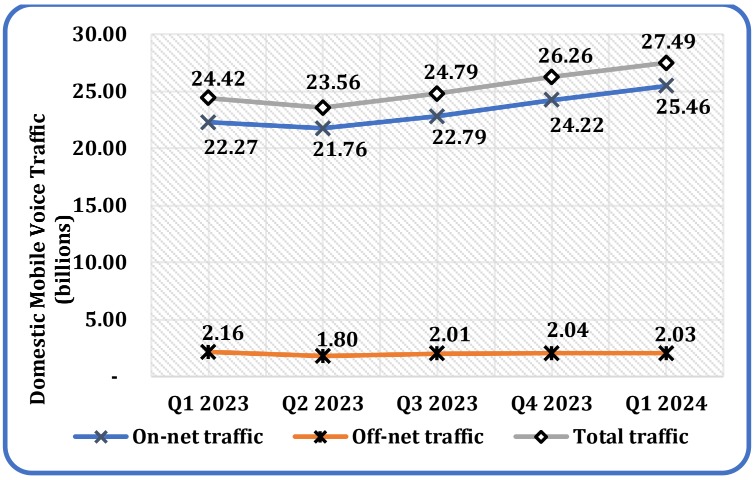


Figure 7: Total Domestic Mobile Voice Traffic in Billions of Minutes

1.2.2 Minutes of Use (MoU)

Quarter-on-Quarter average minutes of use per subscription increased from 791.57 minutes in Q4 2023 to 802.63 minutes representing a 1.40% increase in growth rate in Q1 2024.

Year-on-Year minutes of use per subscription also increased from 626.29 minutes in Q1 2023 to 802.63 minutes in Q1 2024, recording a growth rate of 28.16%. (Figure 8) (Appendix, Table 8).

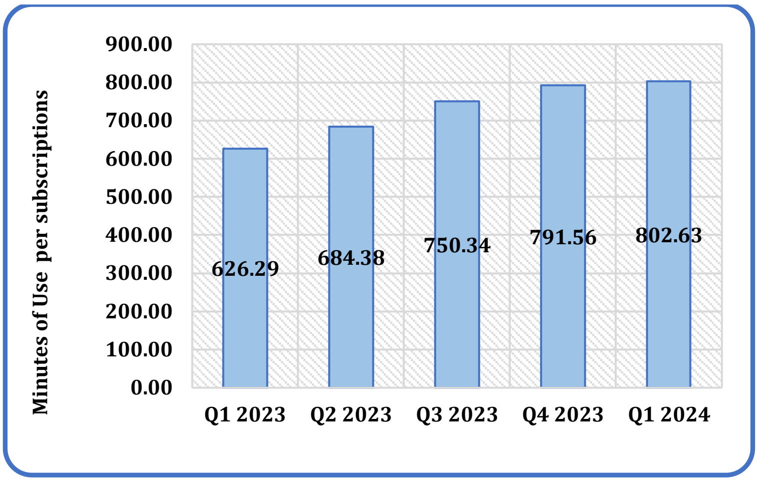


Figure 8: Mobile Voice Traffic Minutes of Use (MoU) per subscriptions

1.3 International Traffic

Inbound International Traffic decreased by 9.69% from 41.43 million minutes in Q4 2023 to 37.42 million minutes in Q1 2024.

Year-on-Year Inbound International Traffic also declined by 27.51% from 51.62 million minutes in Q1 2023 to 37.42 million minutes in Q1 2024.

Quarter-on-Quarter Outbound International Traffic showed a decrease in growth by 4.18% from 66.06 million minutes in Q4 2023 to 63.30 million minutes in the quarter under review.

Year-on-Year Outbound International Traffic showed a 11.45% decline in growth from 71.48 million in Q1 2023 to 63.30 million in Q1 2024. (Figure 9) (Appendix, Table 9)

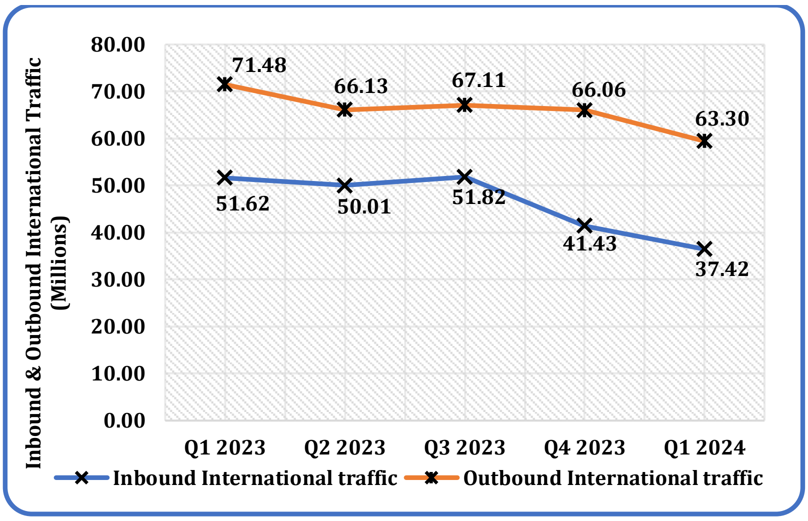


Figure 9: International Traffic in Millions of Minutes

1.3.1 Short Message Services (SMS)

The total number of Short Message Services (SMS) sent at the end of Q1 2024 was 942.63 million as compared to 964.92 million in Q4 2023, recording a decrease in growth by 2.31%.

Year-on-Year total SMS Counts increased from 767.54 million in Q1 2023 to 942.63 million at the end of Q1 2024 representing a growth rate of 22.81%. (Figure 10) (Appendix, Table 10)

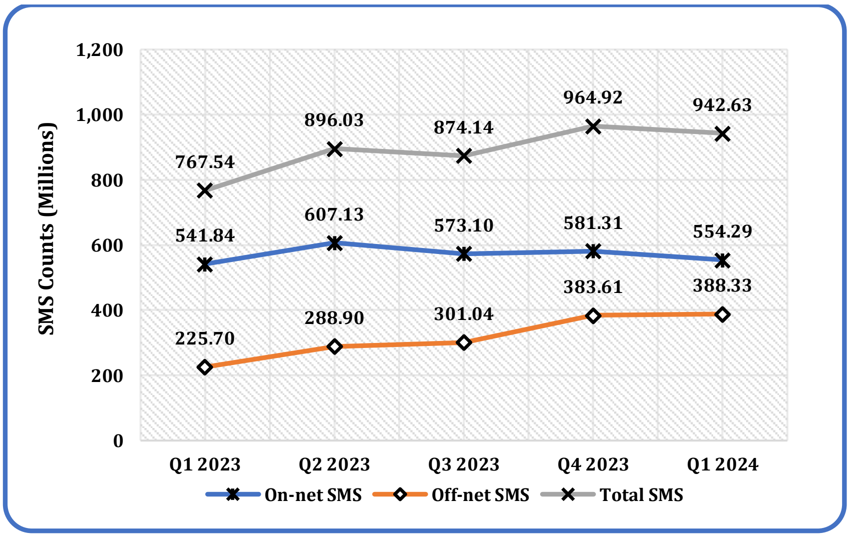


Figure 10: Total Number of SMS in Million

1.3.2 SMS Counts per Operator

The volume of SMS Traffic originating from MTN was 624.34 million at the end of Q1 2024; representing a market share of 66.23% of the total SMS count.
The volume of SMS traffic from Telecel was 311.31 million, representing a market share of 33.03% of the total SMS count.
AT had an SMS count of 6.98 million, representing 0.74% of the market share of the total SMS count. (Figure 11) (Appendix, Table 11).

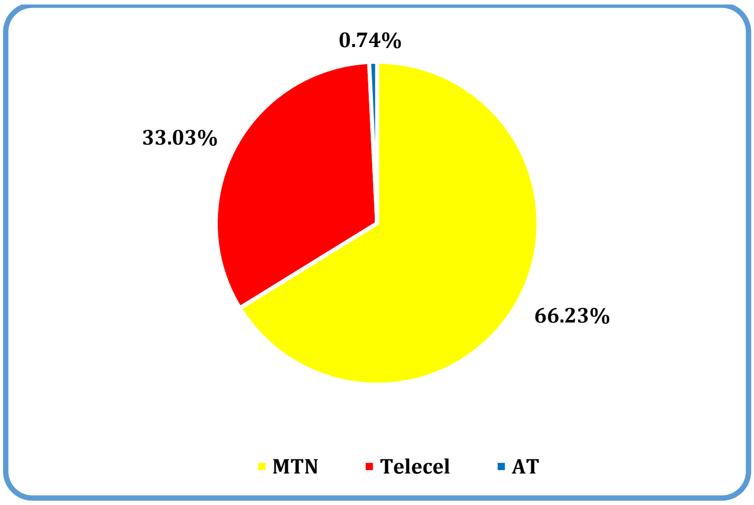


Figure 11: SMS Counts Market Share per Operator

1.3.3 SMS per Subscription

Quarter-on-Quarter SMS sent per subscription at the end of Q1 2024 was 27.50 SMS, indicating a 5.39% decrease in SMS per subscriptions as compared to the end of Q4 2023 (29.10). (Figure 12) (Appendix, Table 12).

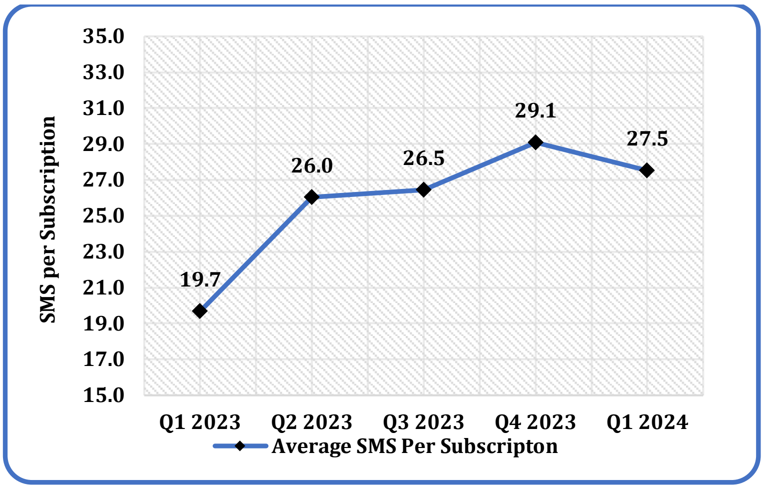


Figure 12: SMS per Subscription

1.4 Mobile Data Subscriptions and Penetration Rate (%)

Mobile Data Subscriptions increased by 4.93% from 23.21million at the end of Q4 2023 to 24.35 million at the end of Q1 2024.

Year-on-Year subscriptions also increased by 7.63% from 22.62 million at the end of Q1 2023 to 24.35 million at the end of Q1 2024. The penetration rate as at the end of the Q1 2024 was 74.71%. (Figure 13) (Appendix, Table 13).

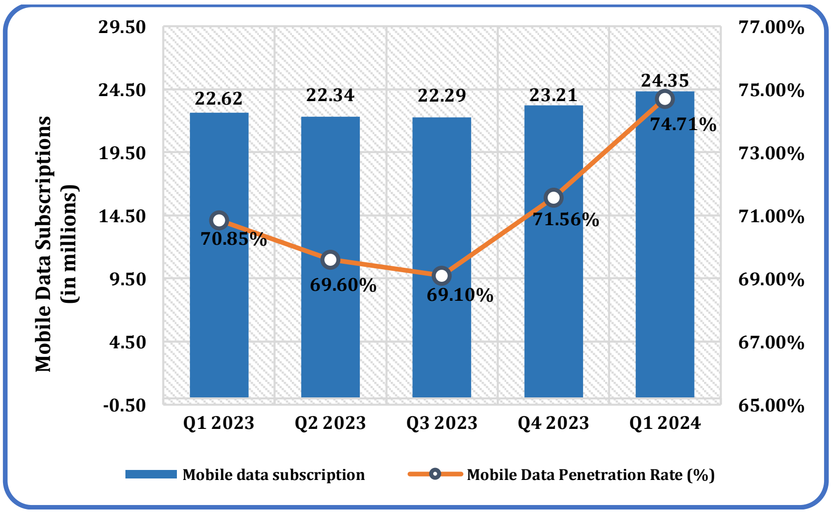


Figure 13: Mobile Data Subscriptions in Millions and Penetration Rate (%)

1.4.1 Mobile Data Prepaid and Postpaid Subscriptions

Mobile Data Prepaid subscriptions increased from 22.99 million at the end of Q4 2023 to 24.14 million subscriptions at the end of Q1 2024, representing a market share of 99.13% of the total Mobile Data subscriptions.

Mobile Data Postpaid subscriptions however decreased from 211,601 at the end of Q4 2023 to 211,456 at the end of Q1 2024 representing a market share of 0.87% of the total Mobile Data subscriptions at the end of Q1 2024 (Figure: 14) (Appendix, Table 14).

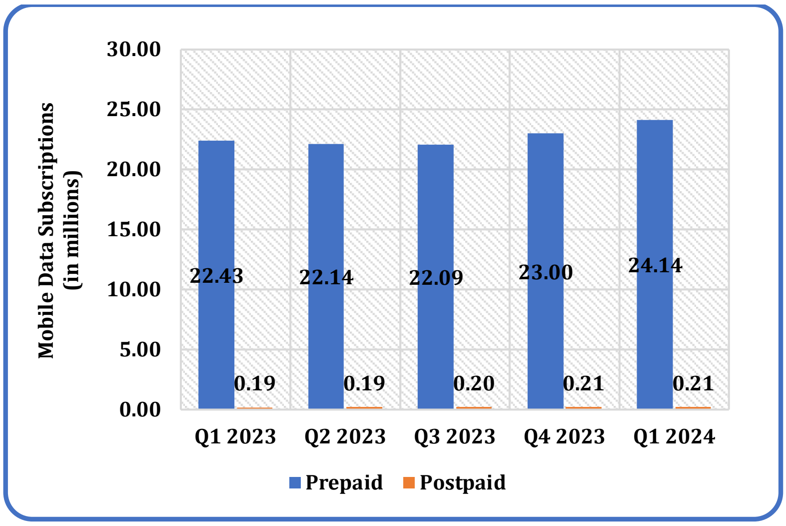


Figure 14: Mobile Data Prepaid and Postpaid Subscriptions

1.4.2 Mobile Data Subscription per Operator

MTN recorded 19.60 million subscriptions, which represents 80.49% of the market, while Telecel recorded 3.12 million subscriptions with a 12.82% share of the market during the quarter under review.

AT also had 1.63 million in mobile data subscriptions with a 6.69% share of the market at the end of Q1 2024 (Figure15).

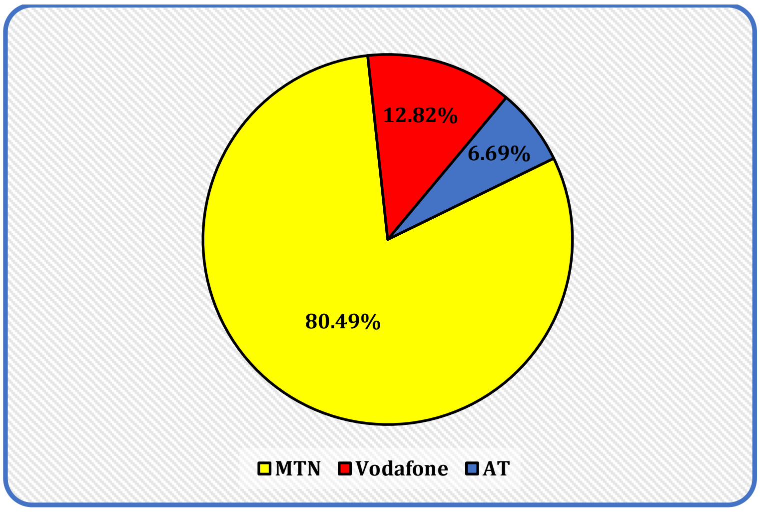


Figure 15: Mobile Data Market Share per Operator

1.5 Mobile Data Traffic

At the end of Q1 2024, mobile data traffic generated by the Operators was 511.99 billion (MB), recording an increase in growth by 3.24% as compared to 495.89 billion (MB) at the end of Q4 2023.

Year-on-Year mobile data traffic increased from 438.50 billion (MB) at the end of Q1 2023 to 511.99 billion (MB) at the end of Q1 2024, representing an increase of 16.76%. (Figure 16) (Appendix, Table 15).

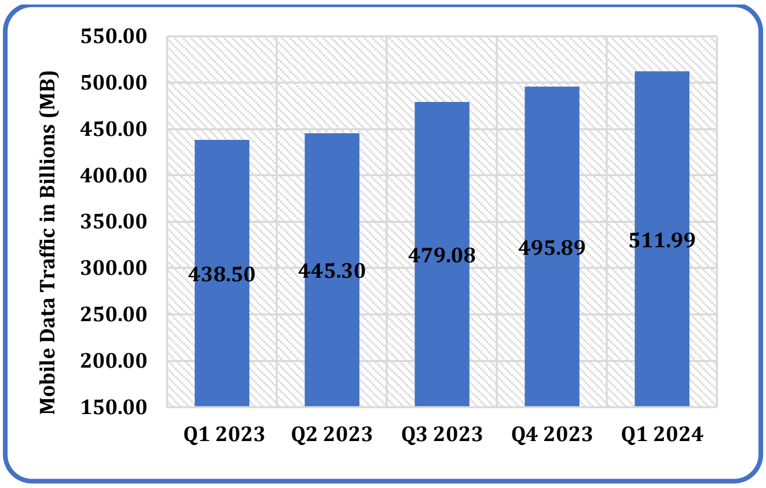


Figure 16: Mobile Data Traffic in Billions of Megabytes (MB)

1.5.1 Mobile Data Usage per Subscription [4]

Mobile Data Usage per subscription decreased from 21,906 MB at the end of Q4 2023 to 21,649 MB at the end of Q1 2024 recording a growth of 1.18%.

Year-on-Year mobile data usage per subscription increased from 19,483 MB at the end of Q1 2023 to 21,649 MB at the end of Q1 2024, recording a growth of 11.12% (Figure 17) (Appendix, Table 16).

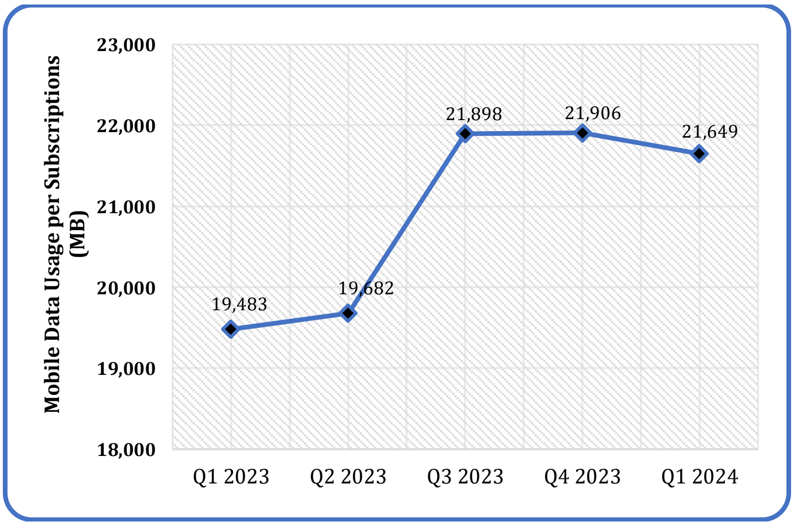


Figure 17: Mobile Data Usage per Subscription (MB**)**

4 Mobile Data usage per subscription is calculated by dividing the total volume of data traffic for the quarter by the total average mobile data subscription for that quarter.

1.5.2 Mobile Data Traffic per Operator

MTN generated the highest volume of mobile data traffic, 418.25 billion (MB) with a market share of 81.69%. Telecel followed with a traffic of 74.64 billion (MB) and a market share of 14.48%. AT also had 19.10 billion (MB) of data, recording a market share of 3.73%. (Figure 18) (Appendix, Table 17)

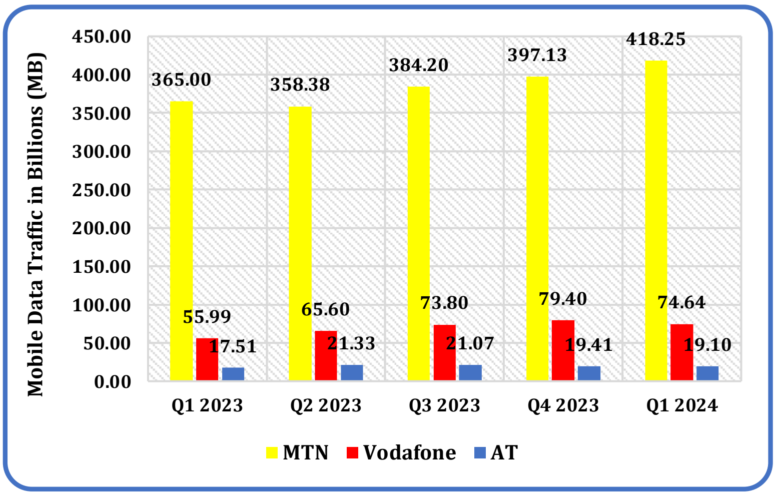


Figure 18: Mobile Internet Traffic (MB) per Operator

1.6 Mobile Telecommunications Service Tariffs

Quarter-on-Quarter average default tariffs for Off-Net mobile voice was GHc 0.14 at the end of Q1 2024. Average default On-Net tariffs mobile voice was also GHc 0.14. Average default Off-Net and On-Net SMS tariffs both stood at GHc 0.06. The average default data tariff for the quarter under review was GHc 0.14. (Figure 19) (Appendix, Table 18).

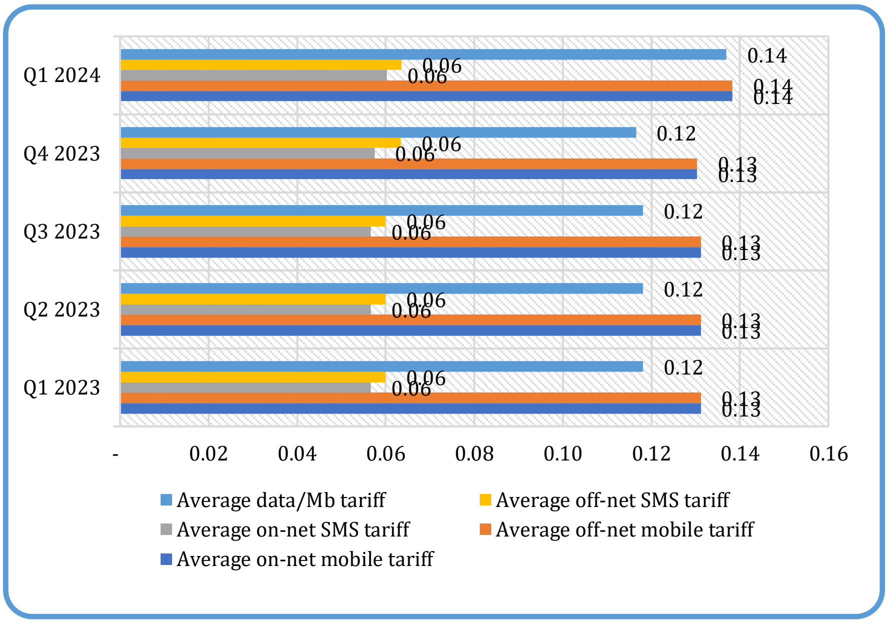


Figure 19: Average Mobile Tariffs per Service

2.0 BROADBAND WIRELESS ACCESS (BWA)

As at Q1 2024, Telesol is the only operational BWA(s) and thus submitted data for this report.

2.1 BWA Subscriptions and Penetration Rate

BWA subscriptions remained 1,431 in Q1 2024 (same figure was recorded in the previous quarter), indicating no growth in the Broadband Wireless Access subscriptions in the country.
Year-on-Year subscriptions also declined by 96.21% from 37,784 in Q1 2023 to 1,431 at the end Q1 2024. Penetration rate for Broadband Wireless Access was 0.004% at the end of Q1 2021. (Figure 20) (Appendix, Table 19).

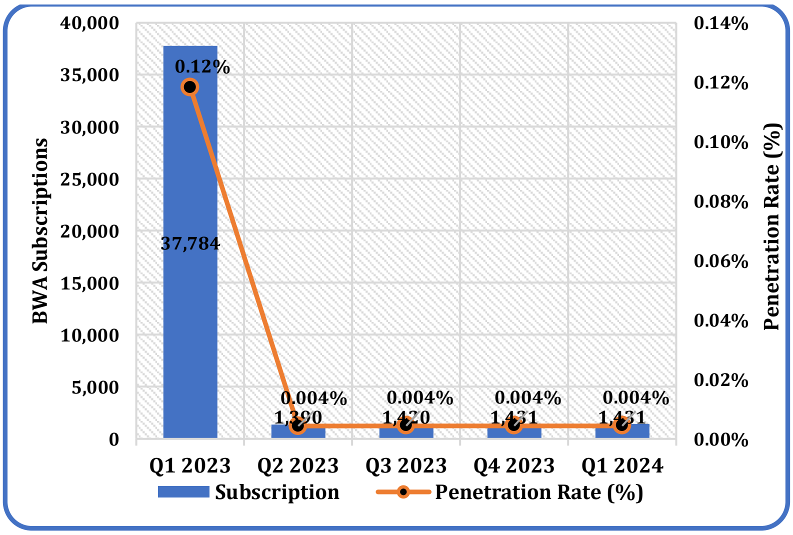


Figure 20: BWA Subscription and Penetration Rate

2.1.1 Subscriptions per Broadband Wireless Access (BWA) per Operator

Telesol ended Q1 2024 with a subscription of 1,431 and a market share of 100.00%. (Figure 21) (Appendix, Table 20).

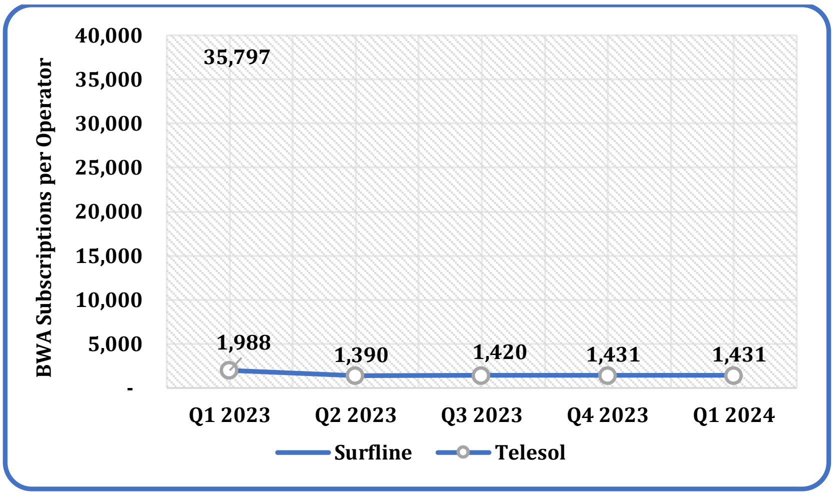


Figure 21: Subscriptions per Broadband Wireless Access (BWA) Operator

2.2 Broadband Wireless Access (BWA) Volume of Data Traffic

The total volume of data traffic generated by the BWA(s) decreased from 0.257 billion (MB) at the end of Q4 2023 to 0.153 billion (MB) at the end of Q1 2024 recording a negative growth of 40.5%.

Year-on-Year data traffic generated by the BWA(s) decreased from 0.566 billion (MB) at the end of Q1 2023 to 0.153 billion (MB) at the end of Q1 2024, representing a decline in growth by 72.96%. (Figure 22) (Appendix A, Table 21).

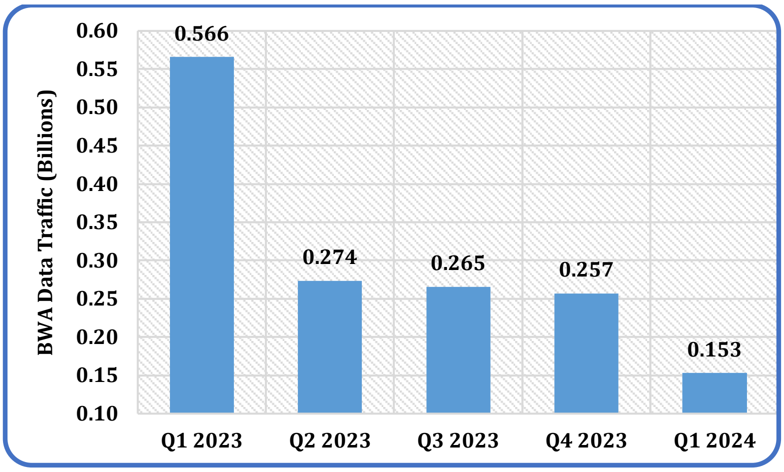


Figure 22: BWA Data Traffic in Billions of Megabytes (MB)

2.2.1 Volume of BWA Traffic per Operator

Telesol's total volume of data traffic for the quarter under review was 0.257 billion MB with a market share of 100.00%. (Figure 23) (Appendix, Table 22).

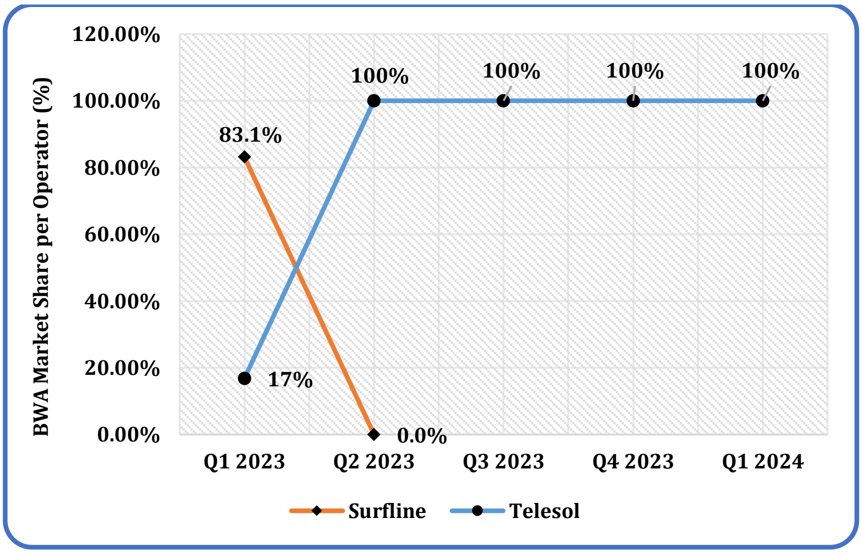


Figure 23: BWA Traffic Market Share per Operator (MB)

2.2.2 Data Usage per BWA Subscription[5]

Data usage per BWA subscription decreased from 180,088 (MB) in Q4 2023 to 106,906 (MB) in Q1 2024.

Year-on-Year data usage per subscription also increased from 23,065 thousand (MB) in Q1 2023 to 106,906 (MB) at the end of Q1 2024 (Figure 24) (Appendix, Table 23).

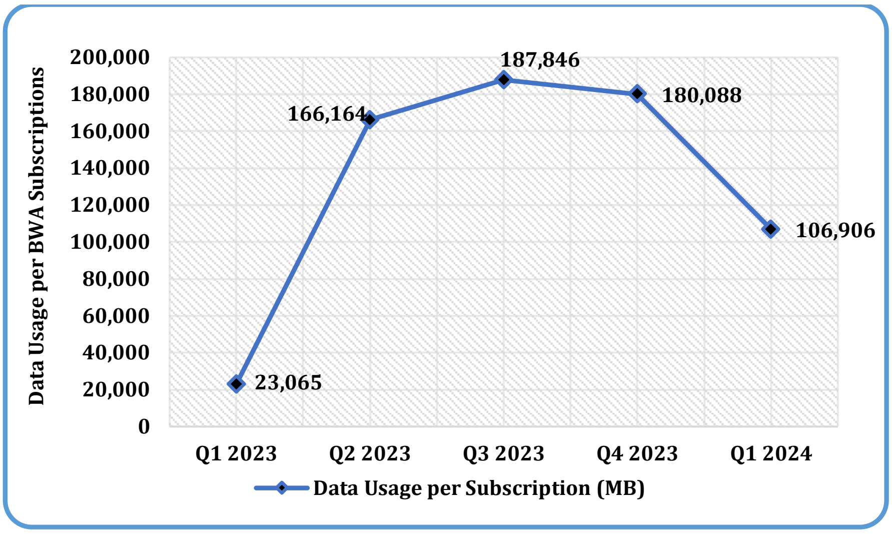


Figure 24: Data Usage per BWA Subscription

5BWA data per subscriptions is calculated by dividing the total 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. There are three (3) operators namely Telecel, AT and MTN that provide this service.

3.1 Fixed Voice Subscriptions and Penetration Rate

The total number of Fixed Voice subscriptions decreased by 0.54% from 318,460 in Q4 2023 to 316,753 at the end of Q1 2024 with a penetration rate of 0.97%.

Year-on-Year subscriptions decreased from 333,057 in Q1 2023 to 316,753 at the end of Q1 2024, representing a negative growth rate of 4.90% (Figure 25) (Appendix, Table 24).

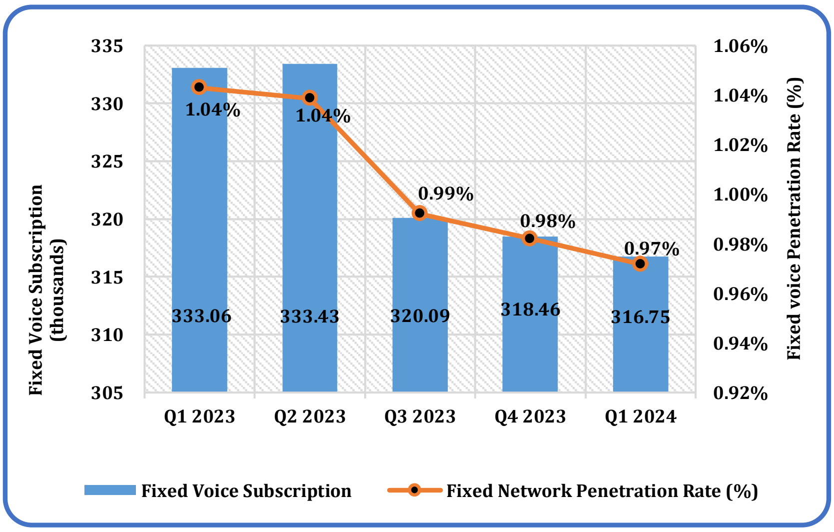


Figure 25: Fixed Network Voice Subscription and Penetration Rate

3.2 Fixed Voice Traffic

The total Fixed Voice Traffic decreased by 3.16% from 7.27 million minutes in Q4 2023 to 7.04 million minutes in Q1 2024.
Year-on-Year total Fixed Voice Traffic also decreased by 19.34%, from 8.73 million minutes in Q4 2023 to 7.04 million minutes in Q1 2024. (Figure 26) (Appendix, Table 25).

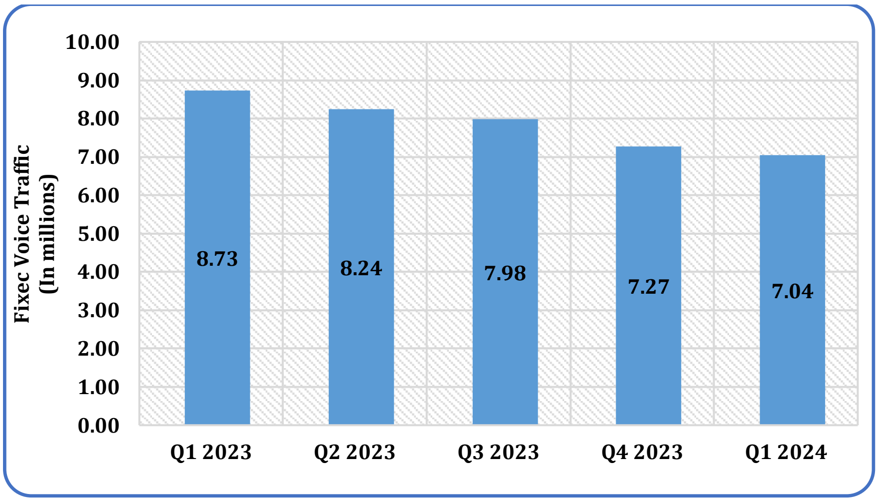


Figure 26: Total Fixed Voice Traffic

3.3 Fixed Voice Minute of Use[6]

Fixed Voice Traffic per subscription decreased by 2.58% from 22.81minutes in Q4 2023 to 22.22 minutes at the end of Q1 2024.

Year-on-Year minutes of use per subscription decreased by 15.47% from 26.29 minutes in Q1 2023 to 22.22 minutes at the end of Q1 2024 (Figure 27) (Appendix A, Table 26).

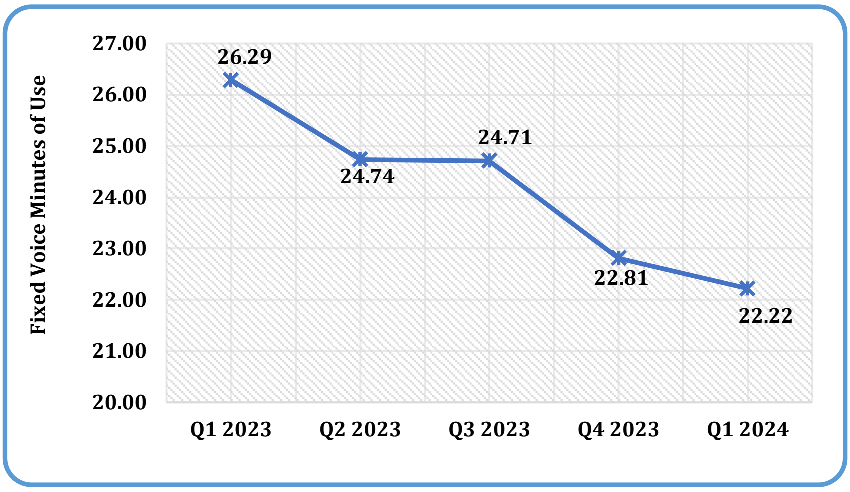


Figure 27: Fixed Network Minute of Use

3.4 Fixed Data Subscriptions and Penetration Rate

Fixed Data subscriptions went up from 116,860 in Q4 2023 to 118,884 in the quarter under review, which represents a growth rate of 1.73%.

Year-on-Year Fixed Data subscriptions increased from 105,778 in the preceding year to 118,884 at the end of Q1 2024 representing a growth rate of 12.39%.

Fixed Data penetration rate at the end of Q1 2024 was 0.36%. (Figure 28) (Appendix, Table 27).

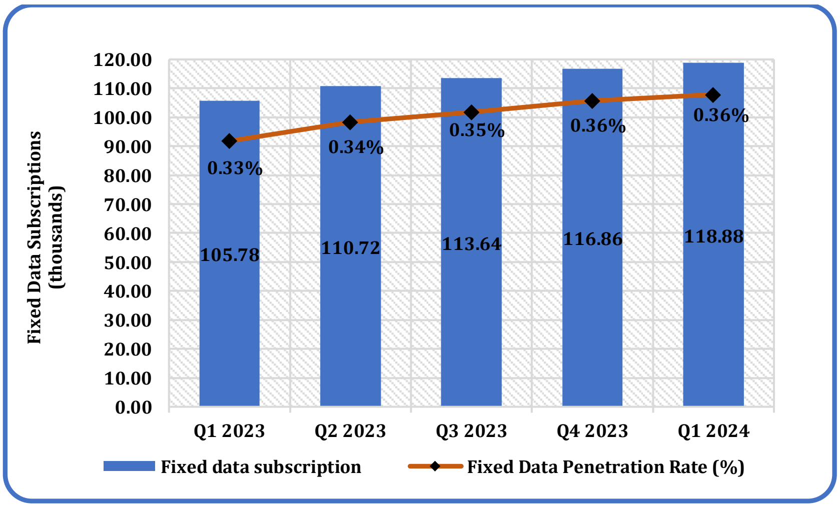


Figure 28: Fixed Data Subscriptions and Penetration

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

3.5 Fixed Data Subscriptions per Operator

Telecel's subscriptions at the end of Q1 2024 was 80,788 representing 67.96% of the market share as against 80,465 in Q4 2023.

MTN's subscriptions at the end of Q1 2024 was 37,696 representing 31.71% of the market share as compared to 36,047 in Q4 2023.

AT recorded 400 subscriptions at the end of Q1 2024 with a market share of 0.34% as compared to 348 subscriptions in the previous quarter. (Figure 29) (Appendix, Table 28).

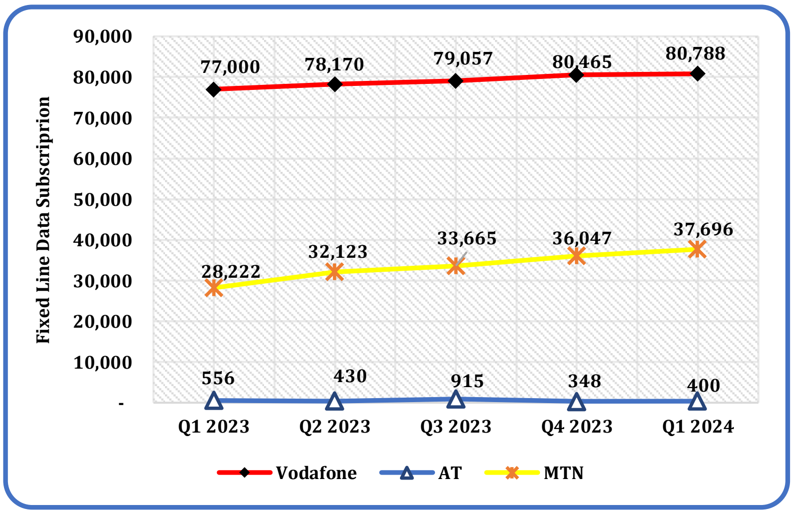


Figure 29: Fixed Data Subscription per Operator

3.6 Fixed Broadband Subscriptions

The Total Fixed Broadband subscriptions in the country grew by 1.85% from 223,278 subscriptions at the end of Q4 2023 to 227,400 subscriptions during the period under review.

Year-on-Year Fixed Broadband subscriptions also increased by 5.27% from 216,013 subscriptions at the end of Q1 2023 to 227,400 subscriptions at the end of Q1 2024. (Figure 30) (Appendix, Table 29).

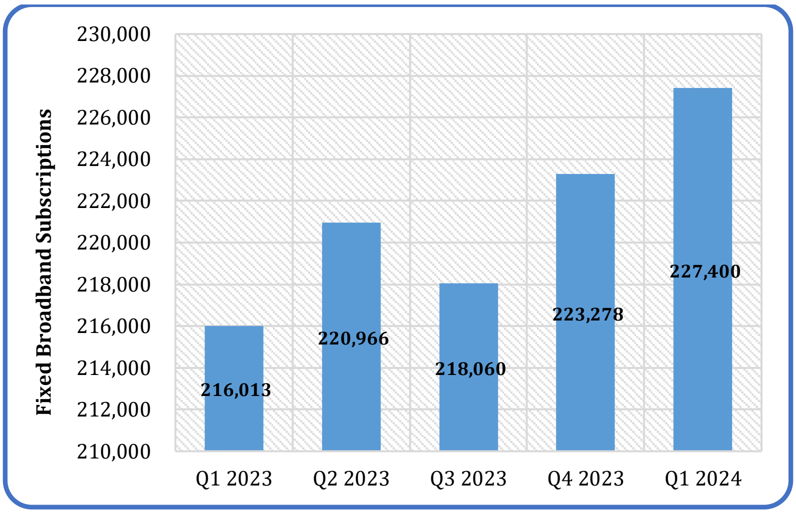


Figure 30: Fixed Data Subscription per Operator

3.6.1 Fixed Broadband Subscriptions per Operator

MTN recorded a market share of 65.46% with a Fixed Broadband subscription of 148,855 from total subscriptions of 227,400 during the reference period, whilst Telecel registered a market share of 35.07% with a 78,545 Fixed Broadband subscriptions during the same period with a growth of 0.30%.

The Quarter-on-Quarter Fixed Broadband subscriptions for MTN increased from 144,967 in Q4 2023 to 148,855 in Q1 2024 with a growth rate of 3.00%, whilst Telecel also recorded growth of 0.30% from 78,311 in Q4 2023 to 78,545 in Q1 2024.

The Year-on-Year growth rates of Fixed Broadband Subscriptions in the country for MTN and Telecel were 5.37% and 5.09% respectively. (Figure 31) (Appendix, Table 30)

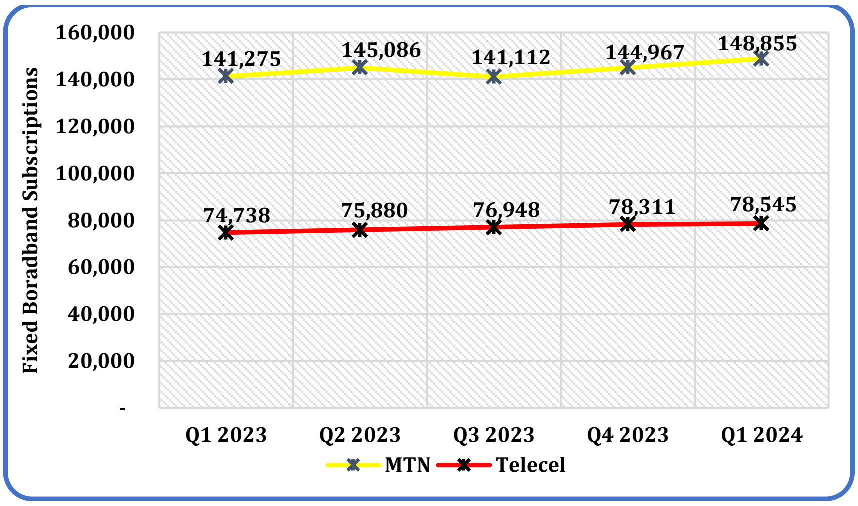


Figure 31: Fixed Data Subscription per Operator

3.6.2 Fixed Broadband Traffic

The total Fixed Broadband Traffic declined by 6.37% from 104.93 billion in Q4 2023 to 98.25 billion minutes during the reference period.

Year-on-Year total Fixed Broadband Traffic however increased by 58.15% from 62.13 billion minutes at the end of Q1 2023 to 98.25 billion minutes at the end of Q1 2024. (Figure 32) (Appendix, Table 31)

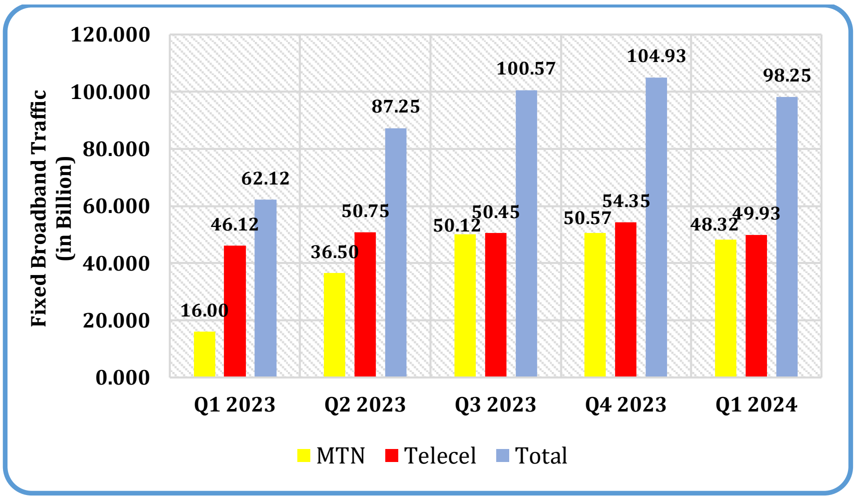


Figure 32: Fixed Broadband Traffic

4.0 BROADCASTING

4.1 Authorised Frequency Modulation (FM) Radio Stations

The total number of Authorised FM Stations in Ghana as at the end of Q1 2024 was 729 with 526 in operation.

The Ashanti Region had the highest number of FM stations (106), representing 14.54% of the total number of Authorised FM Stations in the country. The North East Region had the least number of Authorised FM Stations (11), representing 1.51% of the total Authorised FM Stations in the country. (Figure 33, 34 & 35) (Appendix A, Table 32 & 33).

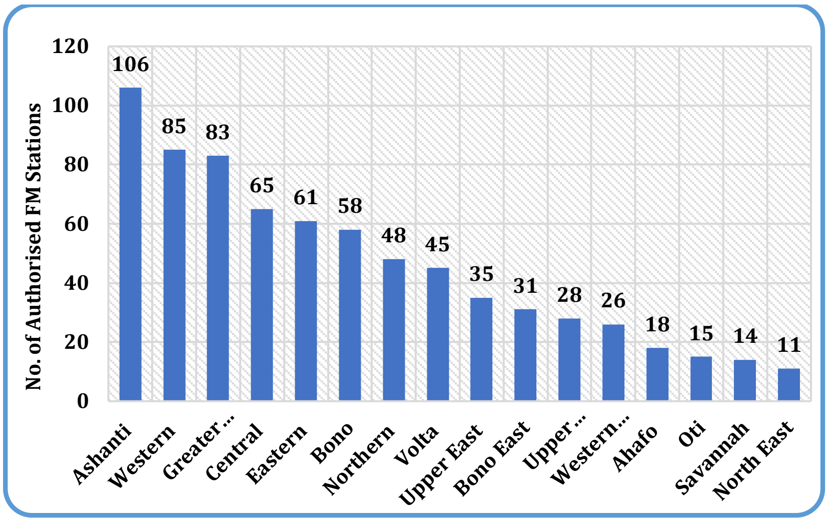


Figure 33: Regional distribution of Authorised FM Stations as at end of Q1 2024

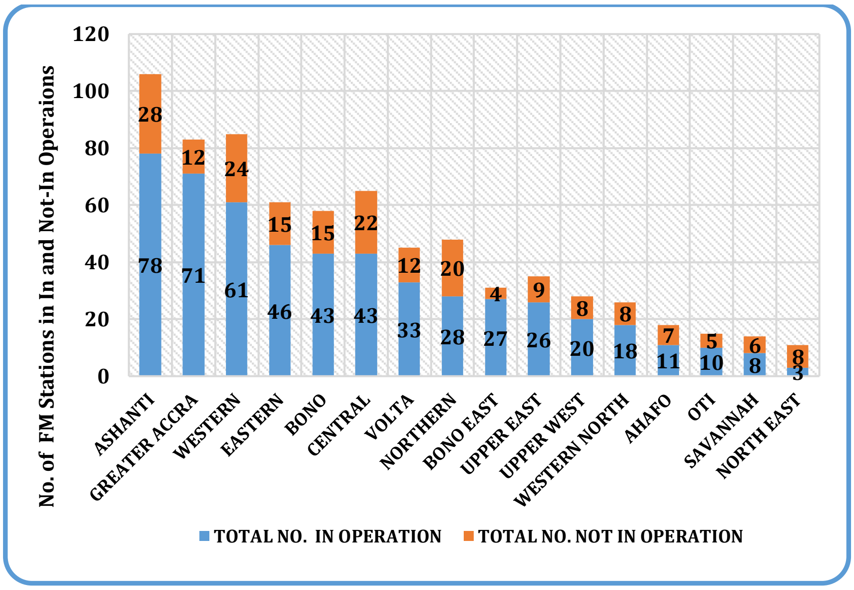


Figure 34: Regional distribution of On-air and Off-air FM Stations as at end of Q1 2024

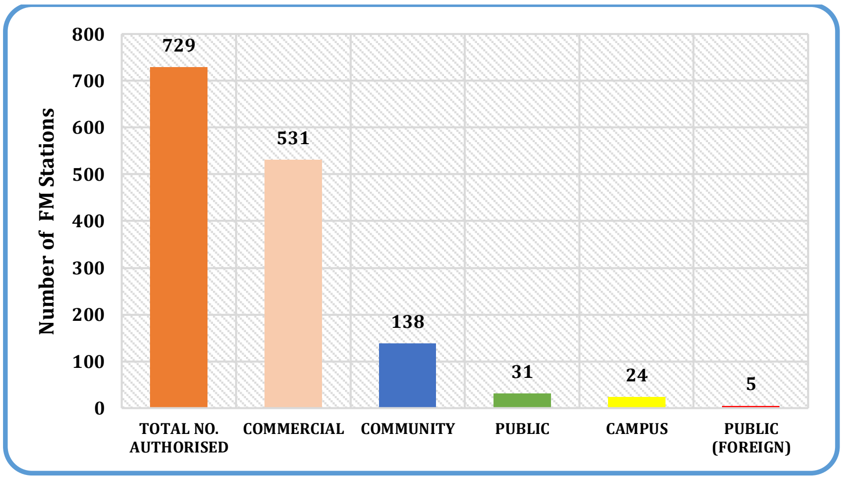


Figure 35: Category by Purpose of Authorised Radio Stations as at Q1 2024

4.2 Authorised Television Stations

The total number of Authorised TV Stations in Ghana at the end of Q1 2024 was 176 out of which 137 were operational during the quarter under review, representing 77.84% of the total number of Authorised TV Stations in the country (Figure 36 & 37) (Appendix A, Table 34 & 35)

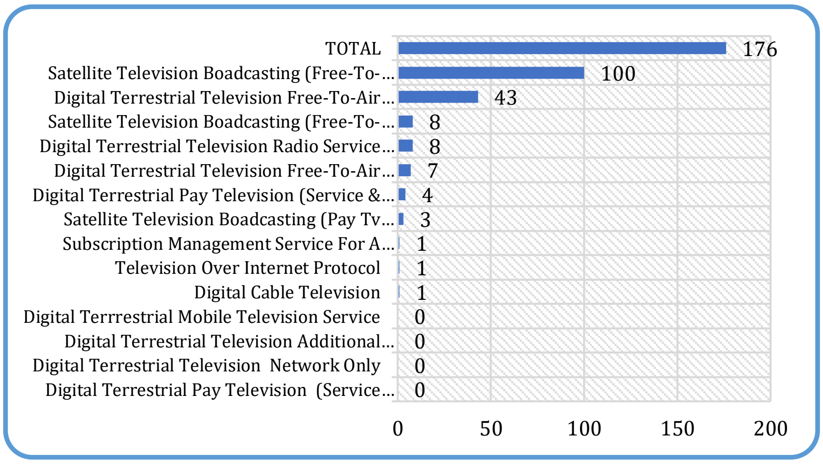


Figure 36: Authorised TV Stations as at Q1 2024

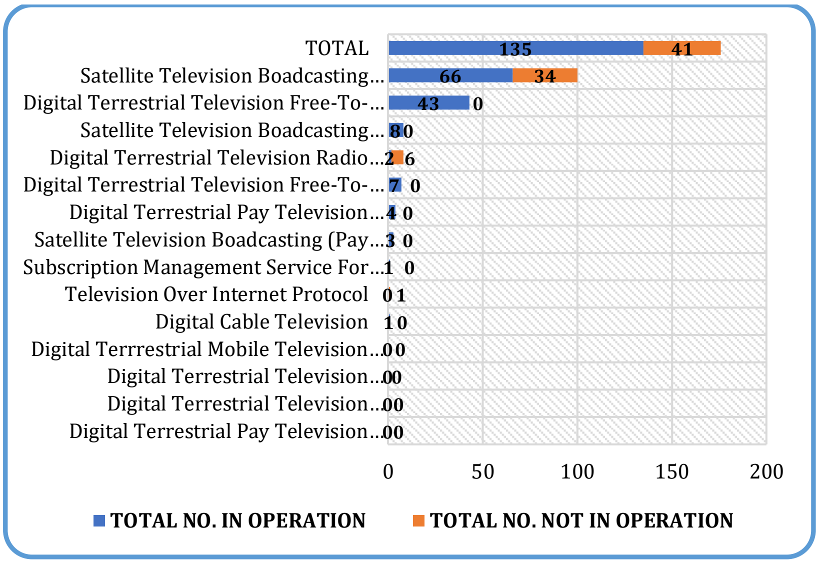


Figure 37: Distribution of Types of TV Services (On-Air and Off-Air TV Stations) as at end of Q1 2024

Appendix A (List of Tables)

Table 1: Mobile Voice Subscriptions and Penetration Rate

Subscription	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Mobile Voice Subscription	38,408,481	34,153,684	32,547,305	33,384,460	34,878,543
Mobile Voice Subscription Growth Rate (%)	-4.09%	-11.08%	-4.70%	2.57%	4.48%
Net additions	-1,636,827	-4,254,797	-1,606,379.00	837,155	1,494,083
Population	31,934,420	32,099,477	32,264,534	32,429,591	32,594,648
Penetration Rate (%)	**120.27%**	**106.40%**	**100.88%**	**102.94%**	**107.01%**

Table 2: Mobile Voice Subscriptions and Market Share per Operator

Mobile Network Operator		Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
MTN	Subscriptions	25,625,097	25,164,189	23,345,146	24,652,582	25,900,163
	Market Share (%)	66.72%	73.68%	71.73%	73.84%	74.26%
Telecel	Subscriptions	7,080,107	6,193,870	6,327,342	6,275,415	6,248,863
	Market Share (%)	18.43%	18.14%	19.44%	18.80%	17.92%
AT	Subscriptions	5,703,277	2,795,625	2,874,817	2,456,463	2,729,517
	Market Share (%)	14.85%	8.19%	8.83%	7.36%	7.82%
Total Industry Subscription		**38,408,481**	**34,153,684**	**32,547,305**	**33,384,460**	**34,878,543**

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

Subscription	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Prepaid	37,933,736	33,667,743	32,059,243	32,941,379	34,463,243
Market Share	98.76%	98.58%	98.50%	98.67%	98.81%
Post-paid	474,745	485,941	488,062	443,081	415,300
Market Share	1.24%	1.42%	1.50%	1.33%	1.19%
Total mobile subscription	**38,408,481**	**34,153,684**	**32,547,305**	**33,384,460**	**34,878,543**

Table 4 : Machine - to – Machine Subscriptions

Mobile Network Operator	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
MTN	678,985	692,709	694,589	696,099	721,031
Telecel	490,301	501,330	603,286	655,653	857,965
AT	2,760	2,972	3,685	1,706	3,080
Total	**1,172,046**	**1,197,011**	**1,301,560**	**1,353,458**	**1,582,076**

Table 5: Devices and Terminals

No	Category of Phones	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
1	Smartphone Devices	20,626,277	20,700,644	18,128,271	20,550,878	18,686,118	20,938,496
	Market Share (%)	51.54%	52.03%	53.47%	54.16%	54.19%	55.04%
	Growth (%)	0.00%	0.36%	-12.43%	13.36%	-9.07%	12.05%
2	Feature Phone Devices	14,206,200	14,289,634	11,834,178	12,530,665	11,450,697	11,860,489
	Market Share (%)	35.49%	35.91%	34.91%	33.02%	33.21%	31.17%
	Growth (%)	0.00%	0.59%	-17.18%	5.89%	-8.62%	3.58%
3	Basic Phone Devices	5,190,747	4,797,442	3,938,613	4,862,510	4,347,697	5,246,383
	Market Share (%)	12.97%	12.06%	11.62%	12.81%	12.61%	13.79%
	Growth (%)	0.00%	-7.58%	-17.90%	23.46%	-10.59%	20.67%
	Total	**40,023,224**	**39,787,720**	**33,901,062**	**37,944,053**	**34,484,512**	**38,045,368**

Table 6: Mobile Off-Net Traffic Distribution between Mobile and Fixed Network

Breakdown of Off-Net Traffic	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Traffic (Mobile to Mobile)	2,146,689,405	1,790,607,442	1,993,212,728	2,025,958,893	2,019,078,737
Share (%)	99.44%	99.35%	99.39%	99.37%	99.38%
Growth (%)	6.32%	-16.70%	11.31%	1.64%	-0.34%
Traffic (Mobile to Fixed)	12,077,085	11,680,545	12,160,587	12,894,213	12,590,993
Share (%)	0.56%	0.65%	0.61%	0.63%	0.62%
Growth (%)	-7.03%	-3.28%	4.11%	6.03%	-2.35%
Total Off-Net Traffic	**2,158,766,489**	**1,802,287,986**	**2,005,373,315**	**2,038,853,106**	**2,031,669,730**

Table 7: Total Domestic Mobile Voice Traffic in Minutes

Traffic	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Traffic (Off-Net)	2,158,766,489	1,802,287,986	2,005,373,315	2,038,853,106	2,031,669,730
Share (%)	8.84%	7.65%	8.09%	7.76%	7.39%
Growth (%)	6.24%	-16.15%	11.27%	1.67%	-0.35%
Traffic (On-Net)	22,270,082,599	21,758,954,499	22,788,636,170	24,221,174,623	25,461,814,435
Share (%)	91.16%	92.35%	91.91%	92.24%	92.61%
Growth (%)	1.96%	-2.30%	4.73%	6.29%	5.12%
Total traffic	**24,428,849,088**	**23,561,242,485**	**24,794,009,485**	**26,260,027,729**	**27,493,484,165**

Table 8: Mobile Voice Traffic Minutes of Use (MoU) per Subscriptions

Traffic	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Total mobile voice traffic	24,428,849,088	23,561,242,485	24,794,009,485	26,260,027,729	27,493,484,165
Average Mobile voice subscription	39,005,398	34,427,232	33,043,805	33,174,731	34,254,361
Minutes of Use (MoU) per Subscription	626.29	684.38	750.34	791.57	802.63
MoU growth rate (%)	**6.05%**	**9.27%**	**9.64%**	**5.49%**	**1.40%**

Table 9: International Traffic

Traffic	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Incoming International Traffic	51,619,868	50,014,259	51,820,393	41,433,562	37,418,879
Growth (%)	-15.70%	-3.11%	3.61%	-20.04%	-9.69%
Outgoing International Traffic	71,482,592	66,131,091	67,111,911	66,062,017	63,299,390
Growth (%)	**-3.24%**	**-7.49%**	**1.48%**	**-1.56%**	**-4.18%**

Table 10: Total Number of Short Messages Services

SMS	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Off-Net SMS	225,698,714	289,331,474	301,039,062	383,606,210	388,333,987
On-Net SMS	541,839,275	607,127,730	573,100,452	581,313,448	554,291,164
Total SMS	767,537,989	896,459,204	874,139,514	964,919,658	942,625,151

Table 11: Total Number of SMS per Mobile Network Operator in Millions

Mobile Operators	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Off-Net					
MTN	105,533,537	122,133,162	148,915,394	160,524,754	166,466,669
Telecel	108,226,057	155,082,502	141,125,845	216,280,109	215,504,865
AT	11,939,120	11,681,651	10,997,845	6,801,347	6,362,453
Total	**225,698,714**	**288,897,315**	**301,039,062**	**383,606,210**	**388,333,987**
On- net					
MTN	476,222,794	529,070,256	483,733,807	494,182,894	457,869,666
Telecel	64,166,409	76,241,869	88,086,761	86,307,280	95,805,764
AT	1,450,072	1,815,605	1,279,884	823,274	615,734
Total	**541,839,275**	**607,127,730**	**573,100,452**	**581,313,448**	**554,291,164**
Total					
MTN	581,756,331	651,203,418	632,649,201	654,707,648	624,336,335
Telecel	172,392,466	231,324,371	229,212,606	302,587,389	311,310,629
AT	13,389,192	13,497,256	12,277,707	7,624,621	6,978,187
Total	**767,537,989**	**896,025,045**	**874,139,514**	**964,919,658**	**942,625,151**

Table 12: Average SMS per Subscription

SMS per Subscription	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Total SMS	767,537,989	896,025,045	874,139,514	964,919,658	942,625,151
Average Mobile Subscription	39,005,398	34,427,232	33,043,805	33,174,731	34,254,361
SMS per Subscription	**19.7**	**26.0**	**26.5**	**29.1**	**27.5**

Table 13: Mobile Data Subscriptions and Penetration Rate

Subscription	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Mobile data subscription	22,624,990	22,341,014	22,293,487	23,207,628	24,351,778
Data Subscription Growth Rate (%)	-0.97%	-1.26%	-0.21%	4.10%	4.93%
Net Additions	-221,258	-283,976	-47,527	914,141	1,144,150
Net Additions Growth Rate (%)	-115%	-228%	-117%	1823%	25%
Population	31,934,420	32,099,477	32,264,534	32,429,591	32,594,648
Mobile Data Penetration Rate (%)	70.85%	69.60%	69.10%	71.56%	74.71%

Table 14: Mobile Data Subscriptions (Prepaid/Postpaid)

Mobile Data Subscriptions		Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Prepaid	Subscription	22,430,107	22,138,314	22,086,945	22,996,027	24,140,313
	Market Share	99.14%	99.09%	99.07%	99.09%	99.13%
Post-paid	Subscription	194,883	202,700	206,542	211,601	211,465
	Market Share	0.86%	0.91%	0.93%	0.91%	0.87%
Total mobile data subscriptions		**22,624,990**	**22,341,014**	**22,293,487**	**23,207,628**	**24,351,778**

Table 15: Mobile Data Subscriptions per Mobile Network Operator and Market Share

Mobile Network Operator	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
MTN	17,476,846	17,468,104	17,627,801	18,675,841	19,601,366
	77.25%	78.19%	79.07%	80.47%	80.49%
Telecel	2,902,238	3,115,983	2,949,685	3,066,359	3,120,886
	12.83%	13.95%	13.23%	13.21%	12.82%
AirtelTigo	2,245,906	1,756,927	1,716,001	1,465,428	1,629,526
	9.93%	7.86%	7.70%	6.31%	6.69%
Total	22,624,990	22,341,014	22,293,487	23,207,628	24,351,778

Table 16: Mobile Data Traffic in Billions of Megabytes (MB)

Mobile Operator	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Total Mobile data usage (MB)	438,500,459,143	445,300,910,914	479,080,573,930	495,892,100,256	511,988,575,879

Table 17: Mobile Internet Usage per Subscription (MB)

Mobile Operator	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Total Mobile data usage (MB)	438,500,459,143	445,300,910,914	479,080,573,930	495,892,100,256	511,988,575,879
Average Data Subscription	22,507,381	22,625,341	21,878,245	22,637,744	23,649,354
Data Usage per Subscription (MB)	**19,483**	**19,682**	**21,898**	**21,906**	**21,649**

Table 18: Mobile Data Traffic (MB) per Operator

Mobile Operator	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
MTN	365,001,280,155	358,375,826,693	384,202,677,398	397,093,962,380	418,249,540,204
	83.24%	80.48%	80.20%	80.08%	81.69%
Telecel	55,991,841,389	65,598,080,560	73,803,964,062	79,391,712,453	74,642,592,094
	12.77%	14.73%	15.41%	16.01%	14.58%
AT	17,507,337,599	21,327,003,662	21,073,932,470	19,406,425,423	19,096,443,582
	3.99%	4.79%	4.40%	3.91%	3.73%
Total Industry Traffic (MB)	**438,500,459,143**	**445,300,910,914**	**479,080,573,930**	**495,892,100,256**	**511,988,575,879**

Table 19: Average Mobile Tariff per Service (GHp)

Tariff	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Average On-Net mobile tariff	0.13	0.13	0.13	0.13	0.14
Average Off-Net mobile tariff	0.13	0.13	0.13	0.13	0.14
Average On-Net SMS tariff	0.06	0.06	0.06	0.06	0.06
Average Off-Net SMS tariff	0.06	0.06	0.06	0.06	0.06
Average data/Mb tariff	0.12	0.12	0.12	0.12	0.14

Table 20: BWA Data Subscriptions and Penetration

BWA Operator	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Subscription	37,784	1,390	1,420	1,431	1,431
Growth rate (%)	-0.76%	-96.32%	2.16%	0.77%	0.00%
Net Additions	-289	-36,395	30	11	0
Population	31,934,420	32,099,477	32,264,534	32,429,591	32,594,648
Penetration Rate (%)	**0.12%**	**0.004%**	**0.004%**	**0.004%**	**0.004%**

Table 21: Broadband Volume of Internet Traffic

BWA operator	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Industry Total (MB)	565,704,040	273,671,810	265,489,254	257,225,394	152,982,518

Table 22: Subscriptions per Broadband Wireless Access (BWA) Operator

BWA Operator	Subscription and Market Share	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Surfline	Subscription	35,797	-	-	-	-
	Market share (%)	94.74%	-	-	-	-
Telesol	Subscription	1,988	1,390	1,420	1,431	1,431
	Market share (%)	5.26%	100.00%	100.00%	100.00%	100.00%
Industry Total		**37,785**	**1,390**	**1,420**	**1,431**	**1,431**

Table 23: Data Traffic (MB) per Broadband Wireless Access (BWA) per Operator

BWA Operator		Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Surfline	Data usage (MB)	470,238,060	-	-	-	-
	Market share (%)	83.12%	-	-	-	-
Telesol	Data usage (MB)	95,465,980	278,671,810	265,489,254	257,225,394	152,982,518
	Market share (%)	16.88%	100.00%	100.00%	100.00%	100.00%
Industry Total (MB)		**565,704,040**	**273,671,810**	**265,489,254**	**257,225,394**	**152,982,518**

Table 24: Internet Usage per BWA Subscriptions (MB)

BWA Operator	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Total Volume of Data Traffic	565,704,040	273,671,810	265,489,254	257,225,394	152,982,518
Average BWA Subscription	24,527	1,647	1,413	1,428	1,431
Data Usage per Subscription (MB)	**23,065**	**166,164**	**187,846**	**180,088**	**106,906**

Table 25: Fixed Network Voice Subscriptions and penetration

Fixed Operator	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Telecel	329,068	331,080	317,757	316,120	314,143
	98.80%	99.30%	99.27%	99.27%	99.18%
AT	2,698	1,092	1065	933	946
	0.81%	0.33%	0.33%	0.29%	0.30%
MTN	1,291	1,254	1,271	1,407	1664
	0.39%	0.38%	0.40%	0.44%	0.53%
Total industry subscription	333,057	333,426	320,093	318,460	316,753
Population	31,934,420	32,099,477	32,264,534	32,429,591	32,594,648
Fixed Network Penetration Rate (%)	**1.04%**	**1.04%**	**0.99%**	**0.98%**	**0.97%**

Table 26: Fixed Network voice (Volume of Traffic in Minutes)

Traffic	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
On-Net Fixed voice traffic	-	-	-	-	-
Off-Net fixed voice traffic	8,726,139	8,235,905	7,983,343	7,268,804	7,038,835
Total Fixed Voice Traffic	**8,726,139**	**8,235,905**	**7,983,343**	**7,268,804**	**7,038,835**

Table 27: Fixed Network voice (Minute of Use per Subscriptions)

Fixed Network (MoU)	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Total Fixed Voice Traffic	8,726,139	8,235,905	7,983,343	7,268,804	7,038,835
Average Fixed Subscription	331,923	332,948	323,018	318,658	316,753
Minutes of Use per Subscription (MoU)	26.290	24.736	24.715	22.811	22.222
Growth Rate	**-1.76%**	**-5.91%**	**-0.09%**	**-7.70%**	**-2.58%**

Table 28: Fixed Line Data Subscriptions and Penetration

Fixed network	Q1 20223	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Vodafone	77,000	78,170	79,057	80,465	80,788
	72.79%	72.07%	69.57%	68.86%	67.96%
AT	556	430	915	348	400
	0.53%	0.40%	0.81%	0.30%	0.34%
MTN	28,222	32,123	33,665	36,047	37,696
	26.68%	29.01%	29.63%	30.85%	31.71%
Total fixed data	105,778	110,723	113,637	116,860	118,884
Population	31,934,420	32,099,477	32,264,534	32,429,591	32,594,648
Fixed Data Penetration	**0.33%**	**0.34%**	**0.35%**	**0.36%**	**0.36%**

Table 29: Fixed Line Data Subscriptions per Network Operator

Fixed Network Operator	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Telecel	77,000	78,170	79,057	80,465	80,788
AT	556	430	915	348	400
MTN	28,222	32,123	33,665	36,047	37,696
Total fixed data subscription	**105,778**	**110,723**	**113,637**	**116,860**	**118,884**

Table 30: Fixed Broadband Subscriptions

Quarter	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
Fixed Broadband Subscription	216,013	220,966	218,060	223,278	227,400

Table 31: Fixed Broadband Subscriptions per Operator

Fixed Broadband Operators	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
MTN	141,275	145,086	141,112	144,967	148,855
Telecel	74,738	75,880	76,948	78,311	78,545
AT					
Total	**216,013**	**220,966**	**218,060**	**223,278**	**227,400**

Table 32: Fixed Broadband Traffic

Fixed Broadband Operators	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024
MTN	16,000,976,116	36,495,545,652	50,123,027,895	50,574,572,851	48,318,002,739
Telecel	46,123,005,552	50,752,481,296	50,450,151,547	54,354,961,966	49,929,433,855
AT	-	-	-	-	-
Total	**62,123,981,669**	**87,248,026,948**	**100,573,179,442**	**104,929,534,817**	**98,247,436,594**

Table 33: Regional Distribution of FM Stations by Purpose as at the end of Q1 2024

Name of Regions	Public	Public (Foreign)	Community	Campus	Commercial
Ashanti	2	1	22	4	77
Bono	1	0	6	3	48
Bono East	2	0	4	0	25
Ahafo	0	0	3	0	15
Central	2	0	16	4	43
Eastern	2	0	22	1	36
Greater Accra	2	3	14	3	61
Northern	3	0	10	1	34
Savannah	3	0	4	0	7
North East	1	0	3	0	7
Upper East	2	0	10	3	20
Upper West	2	0	10	2	14
Volta	3	0	4	1	37
Oti	1	0	3	0	11
Western	2	1	7	2	73
Western North	3	0	0	0	23
Total	**31**	**5**	**138**	**24**	**531**

Table 34: Regional Distribution of FM Stations as at the end of Q1 2024

Name Of Regions	Authorised FM Stations	FM Stations In Operation
Ashanti	106	78
Bono	58	43
Bono East	31	27
Ahafo	18	11
Central	65	43
Eastern	61	46
Greater Accra	83	71
Northern	48	28
Savannah	14	8
North East	11	3
Upper East	35	26
Upper West	28	20
Volta	45	33
Oti	15	10
Western	85	61
Western North	26	18
Total	**729**	**526**

Table 35: Authorised TV Stations as at the end of Q1 2024

Type of Television Service	Authorised TV Stations		No. of TV Stations in Operation (Q1 2024)	No. of TV Stations not in Operation (Q1 2024)
	End of Q4 2023	End of Q1 2024		
Analogue Terrestrial Television	1	1	0	0
Digital Terrestrial Free-To-Air Television Programme Channel (Nationwide Coverage)	42	43	43	0
Digital Terrestrial Free-To-Air Television Programme Channel (Regional Coverage)	6	7	7	0
Digital Terrestrial Pay Television (Service only)	0	0	0	0
Digital Terrestrial Pay Television (Service and Frequency)	5	4	4	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)	8	8	8	0
Satellite Television Broadcasting (Free-To-Air Direct-To-Home Single Channel)	99	100	66	34
Digital Terrestrial Television Additional Services (e.g. Teletext, etc.)	0	0	0	0
Digital Terrestrial Mobile Television Service	0	0	0	0
Digital Cable Television	1	1	1	0
Television over Internet Protocol (Pay TV)	1	1	0	1
Subscription Management Service for a Satellite Television Broadcasting (Pay TV Direct-To-Home Bouquet)	1	1	1	0
Total	**175**	**176**	**135**	**41**

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

- ### 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

- ### 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

- ### Sunyani Office

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

- ### Takoradi Office

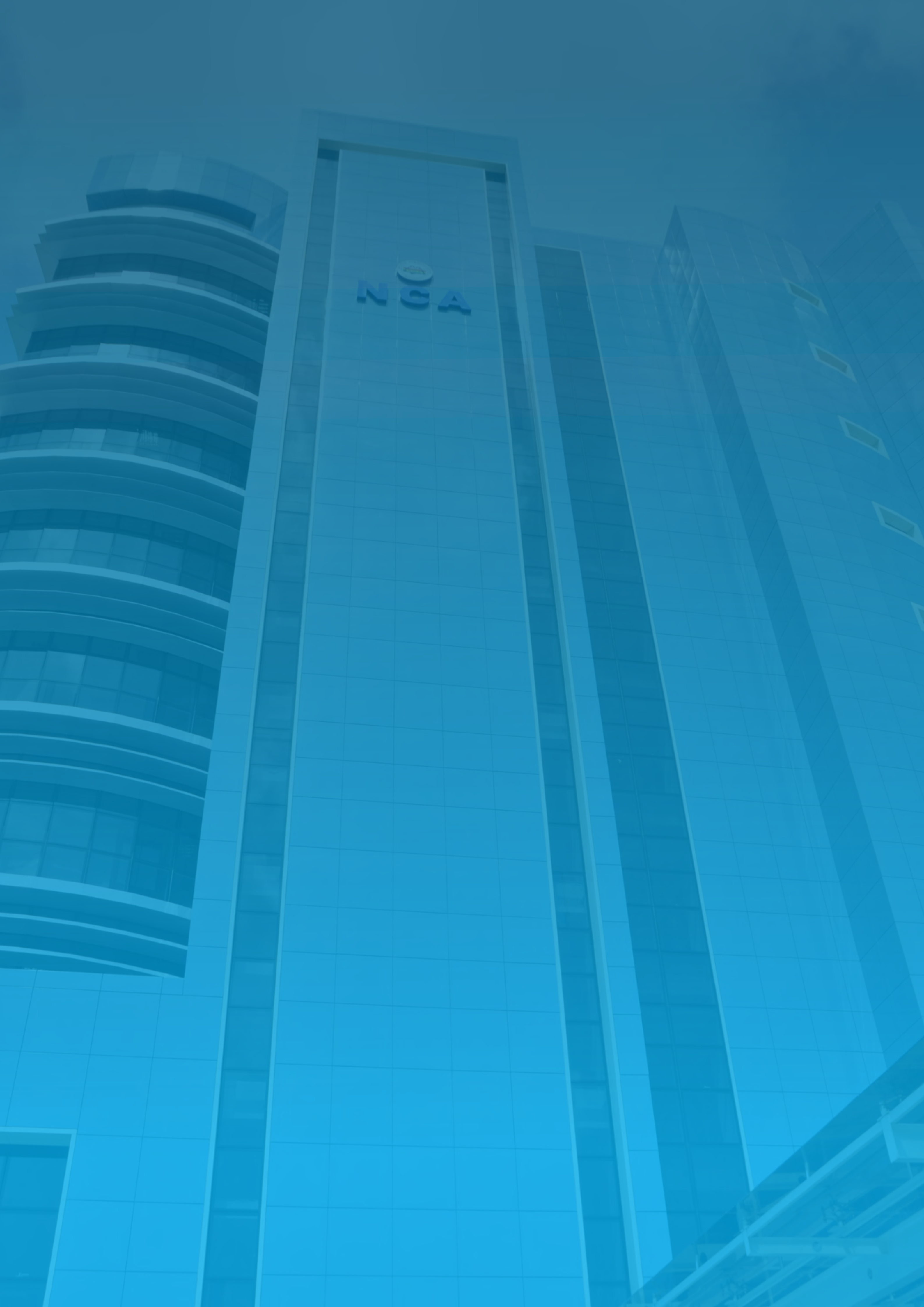
National Communications Authority,
Bakado, 3kms away from the Prisons
(R.S.,K. Barnes Ct, Sekondi - Takoradi
P. O. Box SL 409, Sekondi,
Western Region, Ghana
Tel: +233 (0) 31 202 8073 / 31 202 8049
Fax: +233 (0) 31 202 8063
E-Mail: complaints.takoradi@nca.org.gh

- ### 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

- ### 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
Fax: +233 (0) 37 202 8104
E-Mail: complaints.tamale@nca.org.gh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