



**NATIONAL
COMMUNICATIONS
AUTHORITY**

COMMUNICATIONS INDUSTRY REPORT (CIR) 2025



Communications for Development

ABOUT THE REPORT

The Communications Industry Report (CIR) highlights information on the various markets in the communications industry with a five-year trend analysis from 2021 to 2025. The scope of this report covers Mobile Network Operators (MNOs), Fixed Network Operators, Broadband Wireless Access (BWA) Providers, Tower Infrastructure Companies, Submarine and Domestic Fibre Cables, Television and Radio Broadcasting, and other services regulated by the National Communications Authority (NCA).

The report provides critical statistical data for policymakers, telecom analysts, consumers, academia, investors and other stakeholders to support decision-making. It combines concise year-on-year analyses of the trends in the industry with a substantial use of tables, graphs and figures for easy understanding. The report is the product of data received from the various authorisation and licence holders and other relevant stakeholders in the communications industry.

The publication of the Communications Industry Report (CIR) is consistent with the National Communications Authority's mandate under Section 26 (2)(a) of the Electronic Communications Act, 2008 (Act 775).

About the NCA

The National Communications Authority (NCA) was established by an Act of Parliament, Act 524, in December 1996; this was repealed and replaced by the National Communications Authority Act, 2008 (Act 769). The Authority is the statutory body mandated to license and regulate electronic communication activities and services in the country.



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



MISSION

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INNOVATION



TRANSPARENCY

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Published: July 2026

Author: National Communications Authority (NCA)

The Communications Industry Report (CIR) can be downloaded from the website of the National Communications Authority at www.nca.org.gh

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Glossary

Broadband Wireless Access (BWA) - Refers to mobile data subscriptions connected to high-speed internet access via fixed wireless technologies (LTE) that generated internet traffic (uploaded and/ or downloaded data) in the last ninety (90) days.

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 network coverage, which can be used for transmission of voice, data, and others.

Fixed Voice Subscriptions – This refers to the number of active public fixed telephony access lines provided at a fixed location, enabling two-way voice communication over PSTN, ISDN, fixed wireless, or fixed.

Fibre Broadband Subscriptions – refers to active fixed Internet subscriptions provided to end users using fibre-optic access technologies (FTTH, FTTB, FTTP or FTTO), with downstream speeds equal to or greater than 256kbit/s.

Satellite Broadband Subscriptions - refers to the number of satellite Internet subscriptions with an advertised download speed of at least 256 kbit/s. It refers to the retail subscription technology and not to backbone technology.

Minutes of Use per Subscription - It is calculated by dividing the total voice traffic in minutes for the year by the total average subscriptions for that year.

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

Basic Phones - Refers to a voice-centric mobile device / phones with limited data functionality, and lacking advanced operating system or app ecosystem. It primarily supports voice calls and SMS text messaging.

Feature Phones - A class of mobile devices / phones that support limited multimedia functions (camera, FM Radio, MMS) and may have basic limited internet access (WAP, GPRS) but not full web browsing. Such phones often use a proprietary operating system.

Smartphones - A class of mobile phones with powerful computing capability, heterogeneous connectivity and advanced operating system providing a platform for third-party applications.

Mobile Voice Subscriptions – Refers to the number of active mobile voice subscriptions on mobile networks that generated voice traffic (outgoing and / or incoming calls) in the last ninety (90) days.

Mobile Data Subscriptions - refers to active mobile data subscriptions to GPRS, EDGE, 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 year by the total average mobile data subscriptions for that year.

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

Net Addition – It refers to the difference between total subscriptions added to the network and total subscriptions churned from the network during the month.

On-Net traffic - refers to telecommunications traffic (calls, SMS) that originates and terminates on the same network operated by the same service provider.

Off-Net traffic – refers to telecommunications traffic (calls, SMS) that originates on one network and terminates on a different network operated by another service provider, requiring interconnection between the two networks.



Mobile Network Services



CHAPTER ONE

MOBILE NETWORK SERVICES

1.0 Introduction

This chapter provides insight into the mobile services offered by the three (3) Mobile Network Operators (AT, MTN, and Telecel) in Ghana. The Chapter presents a five-year trend analysis of mobile voice and data subscriptions, traffic volume, short messaging service (SMS), default tariffs, and related topics.

1.1 Mobile Voice Subscriptions and Penetration

Mobile voice subscriptions declined from 40.45 million in 2021 to 33.38 million in 2023, then increased to 42.87 million in 2025, with a Compound Annual Growth Rate (CAGR) of 1.46 percent. Year-on-year mobile voice subscriptions rose from 39.13 in 2024 to 42.87 million, reflecting a 9.57 percent increase.

The penetration rate also decreased from 131.38 per cent in 2021 to 127.03 percent in 2025. The year-on-year penetration rate rose from 118.24 percent in 2024 to 127.03 percent in 2025. The mobile voice subscriptions and penetration from 2021 to 2025 are listed in Table 1 and shown in Figure 1.

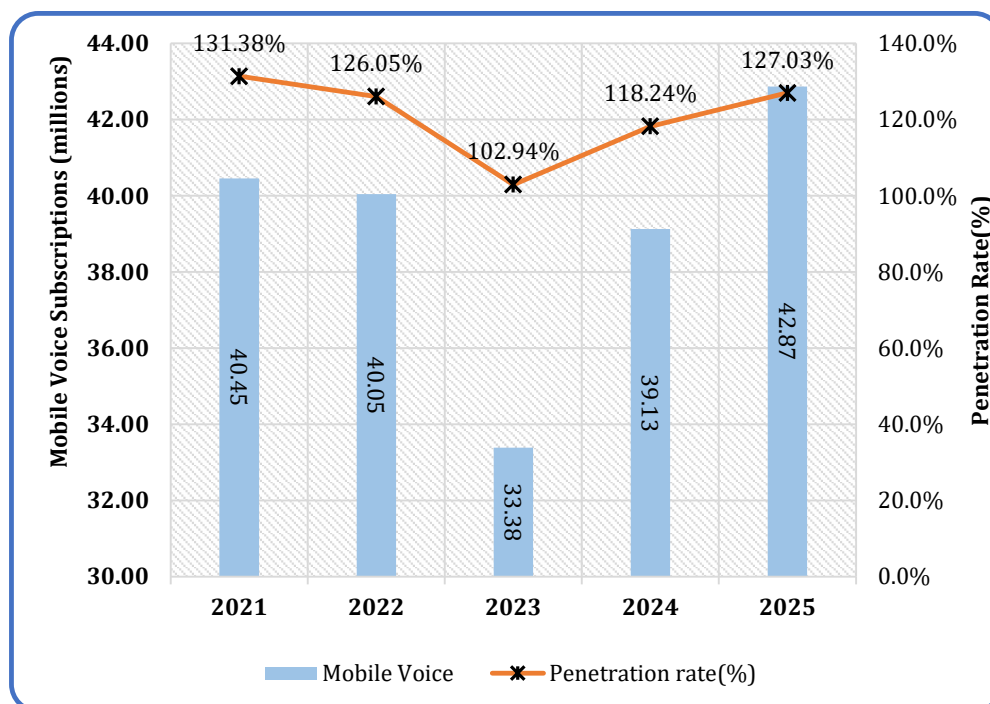


Figure 1: Mobile Voice Subscriptions and Penetration Rate (%)

Table 1: Mobile Voice Subscriptions and Penetration Rate (%)

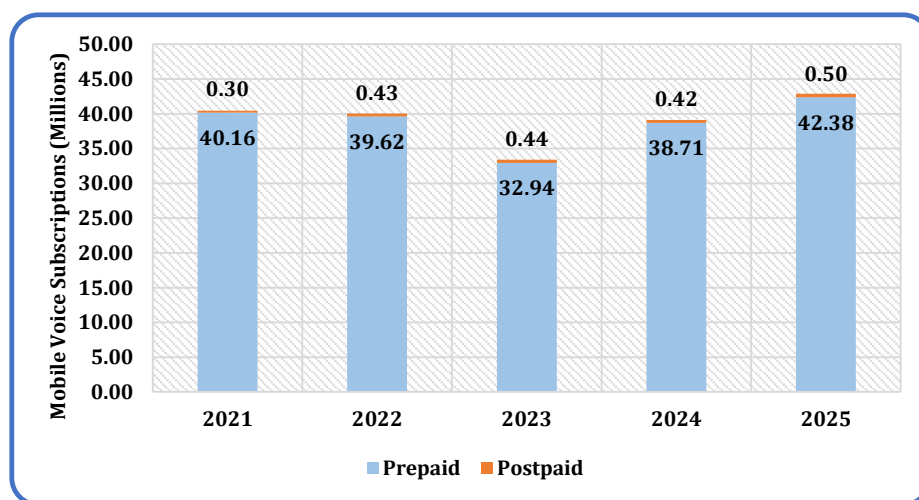
Subscriptions	2021	2022	2023	2024	2025
Mobile Voice	40,454,073	40,045,308	33,384,460	39,126,056	42,871,955
Net Additions	-7,536	-408,765	-6,660,848	5,741,596	3,745,899
Growth rate	-0.02%	-1.01%	-16.63%	17.20%	9.57%
Population	30,792,608	31,769,363	32,429,591	33,089,819	33,750,047
Penetration rate	131.38%	126.05%	102.94%	118.24%	127.03%

Source: National Communications Authority, 2025

1.2 Prepaid and Postpaid Mobile Voice Subscriptions

Prepaid mobile voice subscriptions rose to 42.38 million in 2025 from 40.16 million in 2021, while postpaid subscriptions grew from 0.30 million in 2021 to 0.50 million in 2025.

In 2025, 98.84 percent of mobile voice subscriptions were prepaid, whereas 1.16 percent were postpaid. The prepaid and postpaid mobile voice subscriptions from 2021 to 2025 are summarised in Table 2 and shown in Figure 2.

**Figure 2: Distribution of Mobile Subscriptions by Prepaid or Postpaid****Table 2: Distribution of Postpaid and Prepaid Subscriptions**

	2021	2022	2023	2024	2025
Prepaid	40,158,443	39,617,681	32,941,379	38,705,336	42,375,251
Postpaid	295,630	427,627	443,081	420,720	496,704
Total Mobile Voice Subscriptions	40,454,073	40,045,308	33,384,460	39,126,056	42,871,955
<i>Growth rate</i>	-0.02%	-1.01%	-16.63%	17.20%	9.57%

Source: National Communications Authority, 2025

1.3 Net Additions

Mobile voice subscriptions recorded a net increase of 3,745,899, rising from 39,126,056 in 2024 to 42,871,955 in 2025. The data on net additions from 2021 to 2025 are shown in Table 1 and Figure 3.

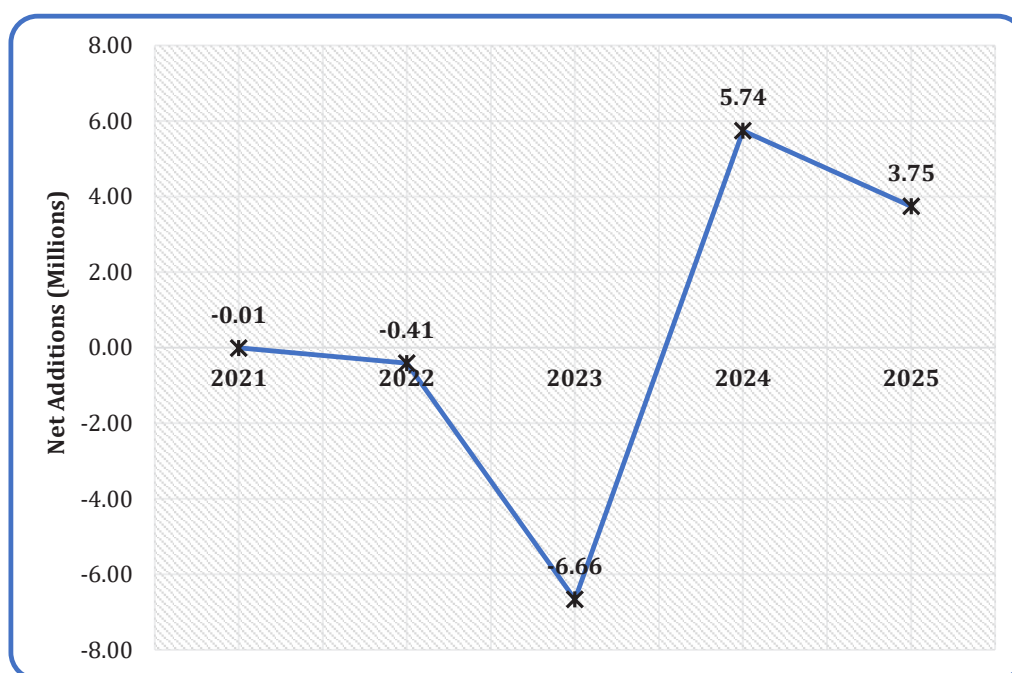


Figure 3: Net Additions in Subscriptions

1.4 Mobile Voice Subscriptions per Operator¹

MTN's mobile voice subscriptions stood at 31.25 million at end of 2025, compared to 29.12 million in 2024. Over the period from 2021 to 2025, subscriptions increased from 23.97 million in 2021 to 26.61 million in 2022, declined to 24.65 million in 2023, and subsequently rose to 29.12 million in 2024 and 31.26 million in 2025. This represents a Compound Annual Growth Rate (CAGR) of 6.89 percent over the period.

Over the five-year period, Telecel's mobile voice subscriptions declined from 8.25 million in 2021 to 6.28 million in 2023, before rebounding to 8.65 million in 2025. Telecel recorded a Compound Annual Growth Rate (CAGR) of 1.18 per cent over the period, with subscriptions increasing from 8.25 million in 2021 to 8.65 million in 2025. On a year-on-year basis, subscriptions increased from 6.98 million in 2024 to 8.65 million in 2025, representing a growth rate of 23.98 per cent.

¹ Glo exited the Ghanaian market in the year 2022, hence data on Glo is not available for subsequent years

By the end of 2025, AT had 2.96 million subscriptions, a decline from 3.03 million in 2024, representing a decline in growth of 2.26 percent. Over five years, AT recorded 7.39 million subscriptions in 2021 and 2.96 million in 2025, resulting in a negative Compound Annual Growth Rate of 20.43 percent. The mobile voice subscriptions per operator from 2021 to 2025 are available in Table 3 and illustrated in Figure 4.

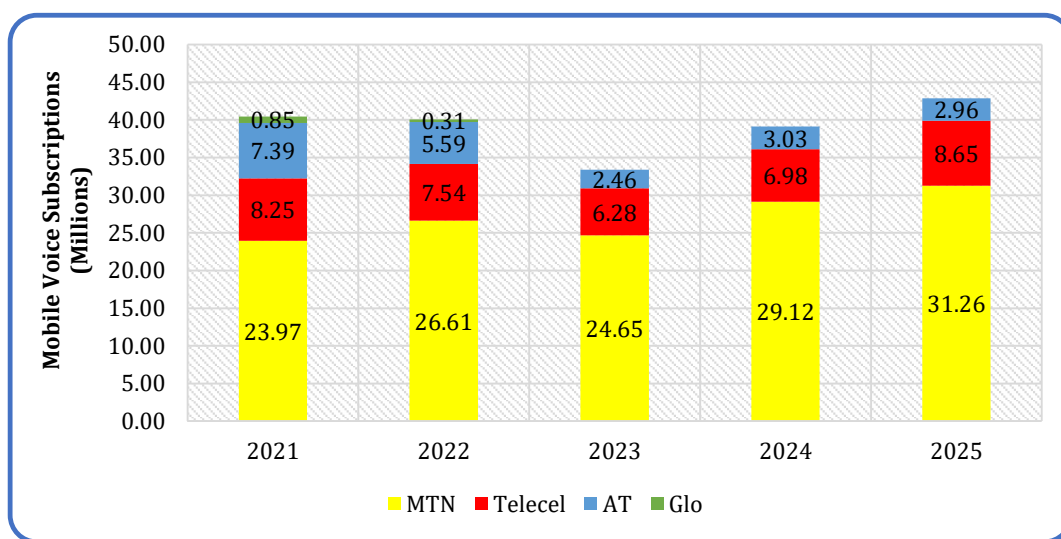


Figure 4: Mobile Voice Subscriptions per Operator

Table 3: Mobile Voice Subscriptions per Operator

Mobile Network Operator		2021	2022	2023	2024	2025
MTN	Subscriptions	23,966,302	26,613,845	24,652,582	29,118,511	31,260,304
	Market Share (%)	59.24	66.46	73.84	74.42	72.92
Telecel	Subscriptions	8,250,436	7,537,400	6,275,415	6,975,946	8,648,431
	Market Share (%)	20.39	18.82	18.80	17.83	20.17
AT	Subscriptions	7,390,278	5,585,510	2,456,463	3,031,599	2,963,220
	Market Share (%)	18.27	13.95	7.36	7.75	6.91
Glo	Subscriptions	847,057	308,553			
	Market Share (%)	2.09	0.77			
Total		40,454,073	40,045,308	33,384,460	39,126,056	42,871,955

Source: National Communications Authority, 2025

1.5 Market Share (%) per Operator for Mobile Voice Subscriptions²

By the end of 2025, MTN voice subscriptions represented 72.92 percent of total Mobile Voice Subscriptions, down from 74.42 percent in 2024. Telecel voice subscriptions ended with 20.17 percent market share, up from 17.83 percent in 2024. AT voice subscriptions held a 6.91 percent market share in 2025, declining from 7.75 percent in the previous year. The market share per operator for mobile voice subscriptions from 2021 to 2025 is detailed in Table 3 and shown in Figure 5.

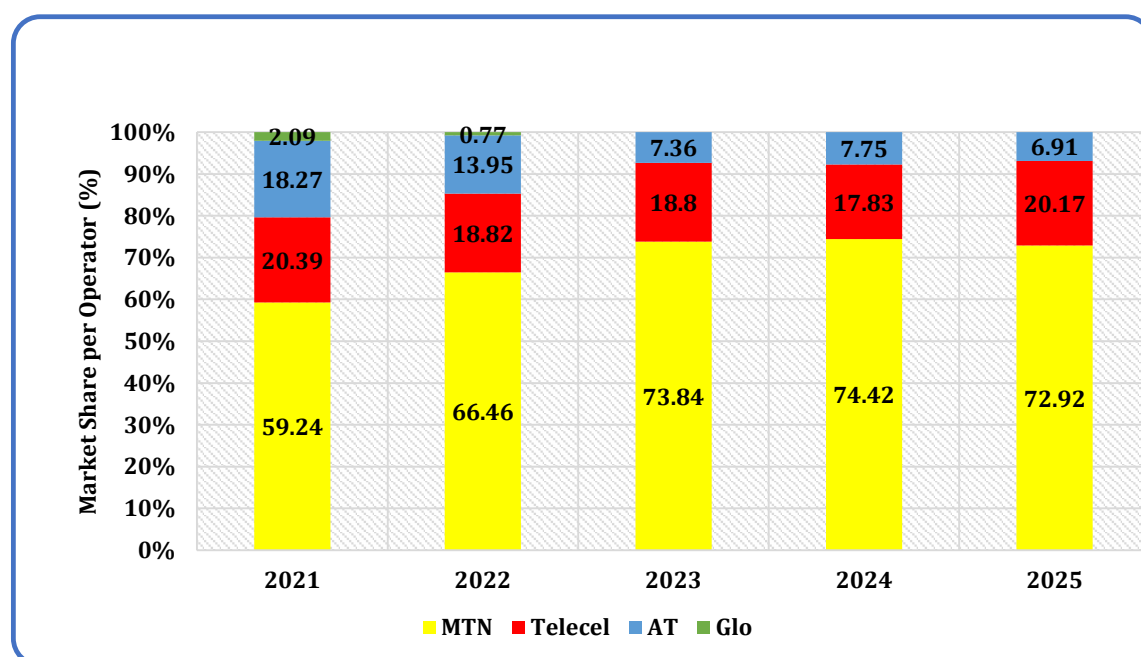


Figure 5: Market Share (%) of the Mobile Voice Subscriptions

1.6 Total Domestic Mobile Voice Traffic

Domestic mobile traffic grew at a Compound Annual Growth Rate of 1.95 percent, increasing from 108.07 billion minutes in 2021 to 116.77 billion minutes in 2025. The volume declined from 108.07 billion minutes in 2021 to 98.74 billion minutes in 2023 but then increased to 116.77 billion minutes in 2025.

Year on year, total domestic mobile voice traffic increased by 3.61 percent, from 112.70 billion minutes in 2024 to 116.77 billion minutes in 2025.

The total domestic mobile voice traffic from 2021 to 2025 is shown in Table 4 and illustrated in Figure 6.

² Glo exited the Ghanaian market in the year 2022, hence data on Glo is not available for subsequent years

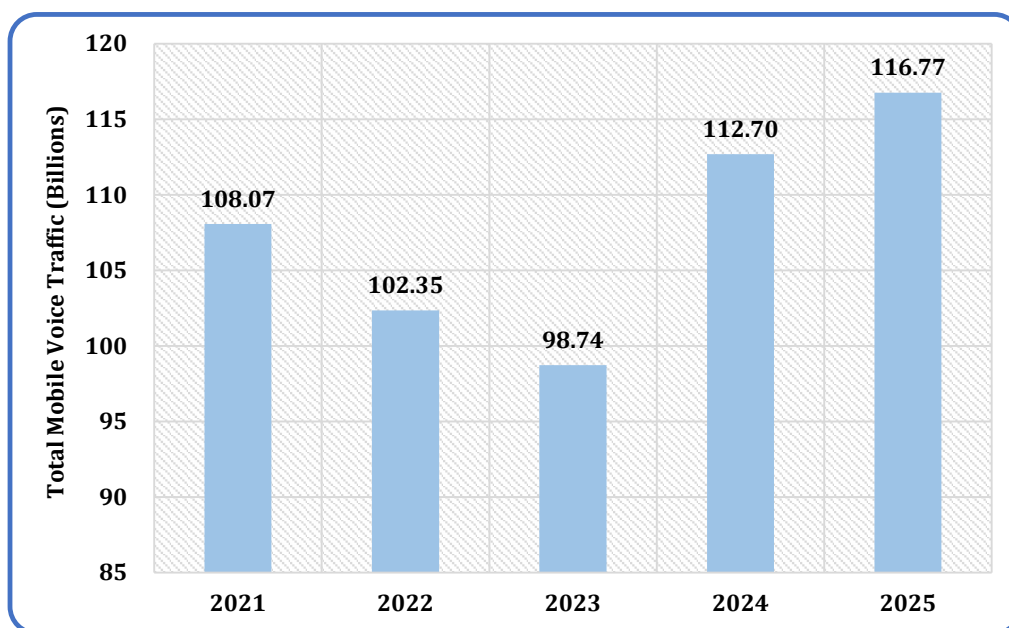


Figure 6: Total Domestic Mobile Voice Traffic

Table 4: Mobile Voice Traffic per Operator

Mobile Operator		2021	2022	2023	2024	2025
MTN	Traffic	98,334,998,826	92,774,464,908	91,203,644,161	105,854,932,043	108,258,519,285
	Share (%)	90.99	90.64	92.37	93.93	92.71
Telecel	Traffic	5,547,932,163	6,463,007,442	6,641,969,907	6,493,843,802	8,219,070,127
	Share (%)	5.13	6.31	6.73	5.76	7.04
AT	Traffic	4,010,269,647	3,006,884,218	891,964,858	351,012,791	290,581,594
	Share (%)	3.71	2.94	0.90	0.31	0.25
Glo	Traffic	179,977,127	110,523,331			
	Share (%)	0.17	0.11			
Total Voice Traffic		108,073,177,763	102,354,879,899	98,737,578,926	112,699,788,636	116,768,171,006

Source: National Communications Authority, 2025

1.7 Domestic Off-Net and On-Net Mobile Voice Traffic

At the end of 2025, off-net mobile voice traffic grew by 30.22 percent from 8.41 billion minutes in 2024 to 10.95 billion minutes. Off-net mobile voice traffic makes up 9.38 percent of the total domestic mobile voice traffic in 2025. From 2021 to 2025, off-net mobile voice traffic has experienced an increase from 7.90 billion minutes in 2021 to 10.95 billion minutes in 2025, with a Compound Annual Growth Rate of 8.51 percent.

On-net domestic mobile voice traffic stood at 105.82 billion minutes in 2025, up from 104.29 billion minutes in 2024, showing a 1.46 percent growth rate. On-net domestic voice traffic made up 90.62 percent of the total domestic traffic in 2025. Between 2021 and 2025, on-net mobile voice traffic grew at a Compound Annual Growth Rate of 1.38

percent, rising from 100.17 billion minutes to 105.82 billion minutes. The domestic off-net and on-net mobile voice traffic from 2021 to 2025 is listed in Table 5 and illustrated in Figure 7.

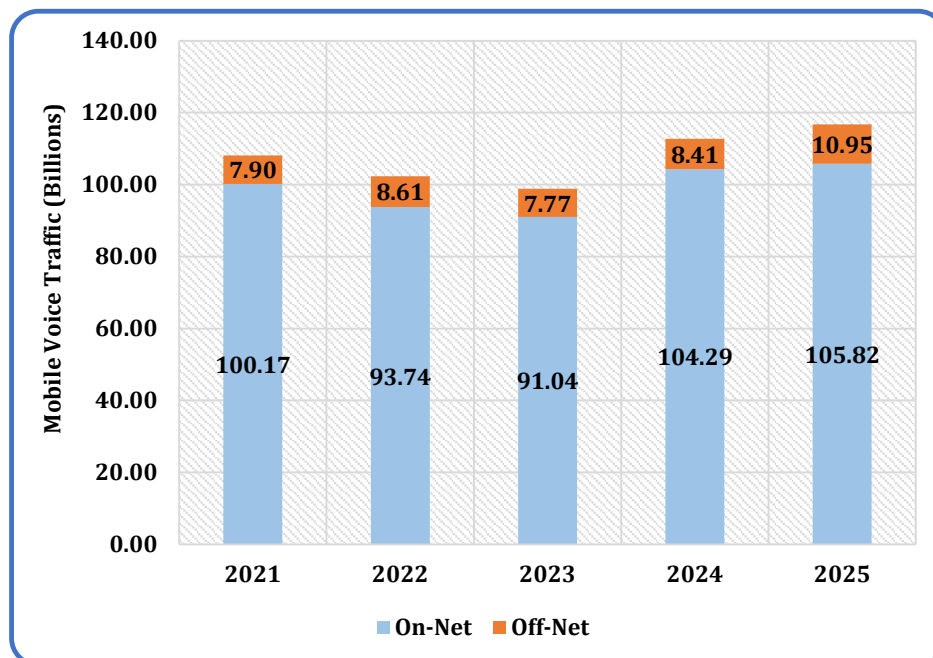


Figure 7: Distribution of Mobile Voice Traffic by On-Net and Off-Net

Table 5: Distribution of On-Net and Off-Net Traffic

Year	2021	2022	2023	2024	2025
On-Net					
Traffic	100,174,180,889	93,743,975,726	91,038,847,890	104,289,151,715	105,815,484,757
Share (%)	92.69	91.59	92.14	92.54	90.62
Growth (%)	8.77	-6.42	-2.89	14.55	1.46
Off-Net					
Traffic	7,898,996,874	8,610,904,173	7,771,139,575	8,410,636,922	10,952,686,249
Share (%)	7.31	8.41	7.86	7.46	9.38
Growth (%)	8.65	9.01	-9.75	8.23	30.22
Total	108,073,177,763	102,354,879,899	98,809,987,46	112,699,788,636	116,768,171,006

Source: National Communications Authority, 2025

1.8 Domestic Mobile Voice Traffic per Operator³

MTN subscriptions generated 92.71 percent of the total mobile voice traffic, reaching 108.26 billion minutes in 2025. This represents a 2.27 percent increase from 105.85 billion minutes in 2024. Between the period of 2021 to 2025, MTN's mobile voice traffic grew from 98.33 billion minutes to 108.26 billion minutes.

Telecel subscriptions generated 8.22 billion minutes of mobile voice traffic in the year under review, up from 6.49 billion minutes in 2024, representing 7.04 per cent of the total mobile voice traffic. Over the five years, Telecel's mobile voice traffic grew from 5.55 billion minutes in 2021 to 8.22 billion minutes in 2025, with a Compound Annual Growth Rate of 10.32 per cent.

AT also generated 0.29 billion minutes of mobile voice traffic in 2025, representing 0.25 percent of total voice traffic, down from 0.35 billion minutes in 2024. This represents a negative 17.22 percent year-on-year decline. Over five years, the Compound Annual Growth Rate was negative at 48.12 percent, decreasing from 4.01 billion minutes in 2021 to 0.29 billion minutes in 2025. The domestic mobile voice traffic per operator from 2021 to 2025 is shown in Table 4 and illustrated in Figure 8.

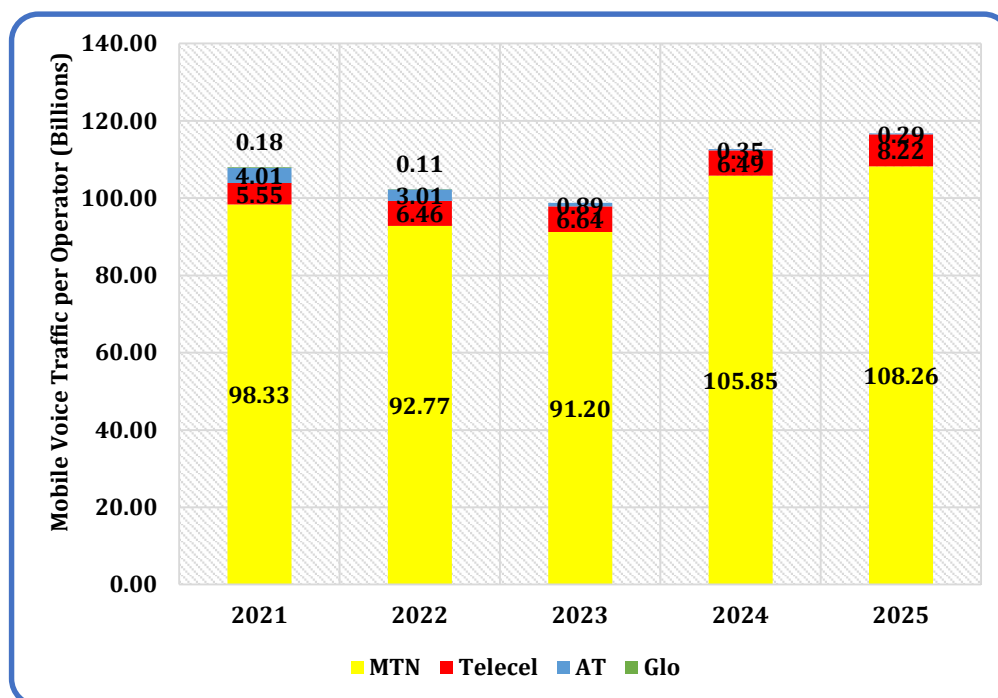


Figure 8: Mobile Voice Traffic per Operator

³ Glo exited the Ghanaian market in the year 2022, hence data on Glo is not available for subsequent years

1.9 International Mobile Voice Traffic

Outgoing International Mobile Voice traffic for 2025 reached 346.25 million minutes, increasing from 324.39 million minutes in 2024, a growth of 6.74 percent. The international outgoing mobile voice traffic decreased from 453.15 million minutes in 2021 to 346.25 million minutes in 2025 with a negative Compound Annual Growth Rate (CAGR) of 6.51percent.

The incoming international mobile voice traffic increased from 143.73 million minutes in 2024 to 153.80 million minutes in 2025. Over the five-year period, incoming international voice traffic declined from 239.09 million minutes to 153.80 million minutes with a negative Compound Annual Growth Rate of 10.44 percent. The international mobile voice traffic is listed in Table 6 and shown in Figure 9.

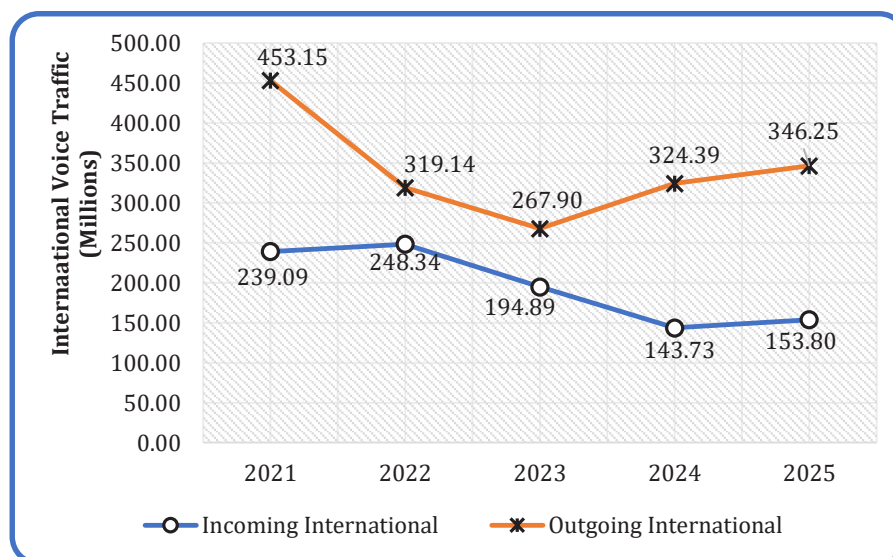


Figure 9: Mobile Voice International Traffic

Table 6: Distribution of International Voice Traffic

	2021	2022	2023	2024	2025
Incoming International					
Traffic	239,092,078	248,344,559	194,888,083	143,728,596	153,798,180
Share (%)	34.54	43.76	41.58	30.70	30.76
Growth (%)	8.24	3.87	-21.53	-26.25	7.01
Outgoing International					
Traffic	453,152,114	319,144,643	267,901,157	324,388,417	346,248,385
Share (%)	65.46	56.24	57.89	69.30	69.24
Growth (%)	-4.69	-29.57	-16.06	21.09	6.74
Total	692,244,192	567,489,201	462,789,240	468,117,013	500,046,565

Source: National Communications Authority, 2025

1.10 Yearly Average Domestic Traffic per Subscription

The average volume of domestic voice traffic per subscription declined from 2024. It decreased from 2,880 minutes in 2024 to 2,724 minutes in 2025, representing a 5.44 percent year-on-year decline in average domestic traffic per subscription.

Over five years, the average domestic voice traffic per subscription increased from 2,672 minutes in 2021 to 2,724 minutes in 2025, with a Compound Annual Growth Rate of 0.48 percent. The yearly average domestic traffic per subscription is shown in Figure 10.

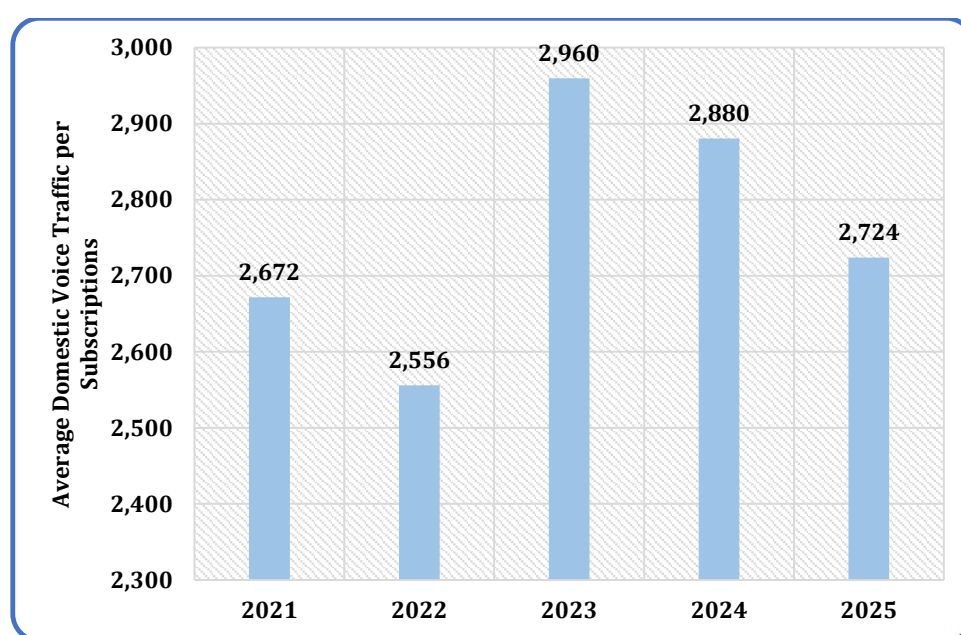


Figure 10: Average Domestic Voice Traffic per Subscription

1.11 Mobile Data Subscriptions and Penetration Rate (%)

At the end of 2025, the total mobile data subscriptions rose to 28.70 million, up from 26.13 million in 2024, representing a 9.84% increase. Mobile data subscriptions declined steadily from 23.41 million in 2021 to 22.85 million in 2022 but grew from 2023 to 2025. The five-year Compound Annual Growth Rate was 5.22 percent, rising from 23.41 million in 2021 to 28.70 million in 2025.

The penetration rate increased by 6.07 percent points, from 78.96 percent in 2024 to 85.03 percent in 2025. The mobile data subscriptions and penetration rate from 2021 to 2025 are listed in Table 7 and illustrated in Figure 11.

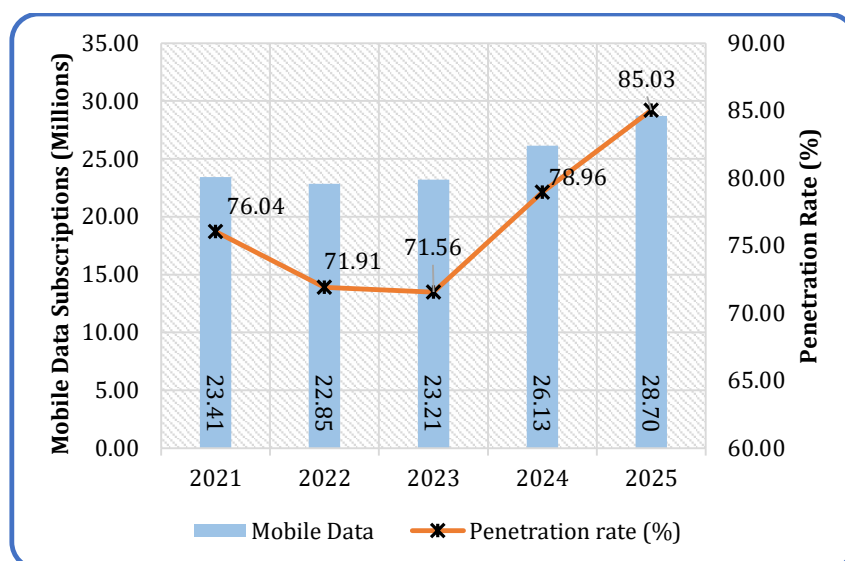


Figure 11: Mobile Data Subscriptions and Penetration Rate (%)

Table 7: Mobile Data Subscriptions and Penetration Rate

Subscriptions	2021	2022	2023	2024	2025
Prepaid	23,237,338	22,657,917	22,996,027	25,909,066	28,446,083
Postpaid	177,189	188,331	211,601	218,526	252,307
Mobile Data	23,414,527	22,846,248	23,207,628	26,127,592	28,698,390
Growth rate (%)	-11.54	-3.11	2.30	12.58	9.93
Net Additions	-3,055,436	-568,279	361,380	2,919,964	2,570,798
Population	30,792,608	31,769,363	32,429,591	33,089,819	33,750,047
Penetration rate (%)	76.04	71.91	71.56	78.96	85.03

Source: National Communications Authority, 2025

1.12 Postpaid and Prepaid Mobile Data Subscriptions

Prepaid mobile data subscriptions was 28.45 million, accounting for 99.12 percent of all mobile data subscriptions. Postpaid mobile data subscriptions stood at 0.25 million, representing 0.88 percent of total mobile data subscriptions. The postpaid and prepaid mobile data subscriptions from 2021 to 2025 are listed in Table 7 and illustrated in Figure 12.

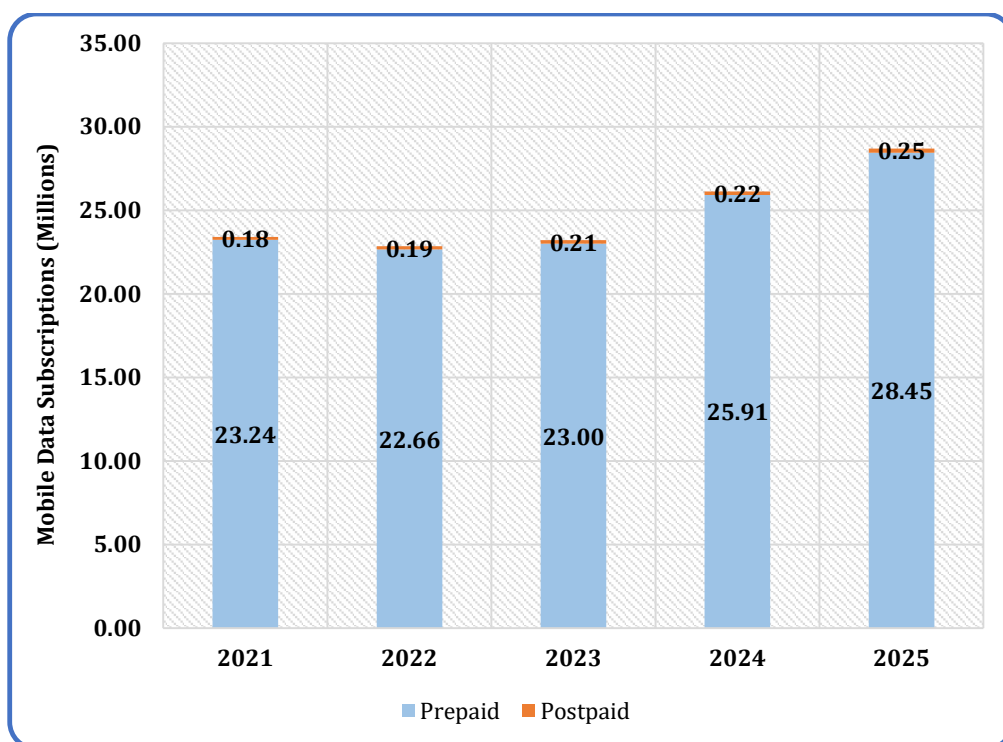


Figure 12: Distribution of Mobile Data Subscriptions by Postpaid and Prepaid

1.13 Mobile Data Subscriptions per Operator⁴

MTN recorded 22.87 million subscriptions at the end of 2025, up from 20.63 million in 2024. The year-on-year growth rate was 9.07 percent over the period. Over the five years, MTN's mobile data subscriptions increased from 16.16 million in 2021 to 22.87 million in 2025, representing a Compound Annual Growth Rate of 9.10 percent.

Telecel in 2025 recorded 4.53 million subscriptions, representing an increase of 16.36 percent from 3.89 million in 2024. From 2021 to 2025, Telecel's subscriptions grew from 3.35 million to 4.53 million, resulting in a Compound Annual Growth Rate of 7.86 percent.

AT had 1.30 million subscriptions at the end of 2025, down from 1.61 million in 2024. Year-on-year, AT's mobile data subscriptions decreased by 19.10 percent. AT subscriptions declined from 3.52 million in 2021 to 1.30 million in 2025, with an average compound growth rate of negative 22.04 percent. The mobile data subscriptions per operator from 2021 to 2025 are listed in Table 8 and shown in Figure 13.

⁴ Glo exited the Ghanaian market in the year 2022, hence data on Glo is not available for subsequent years

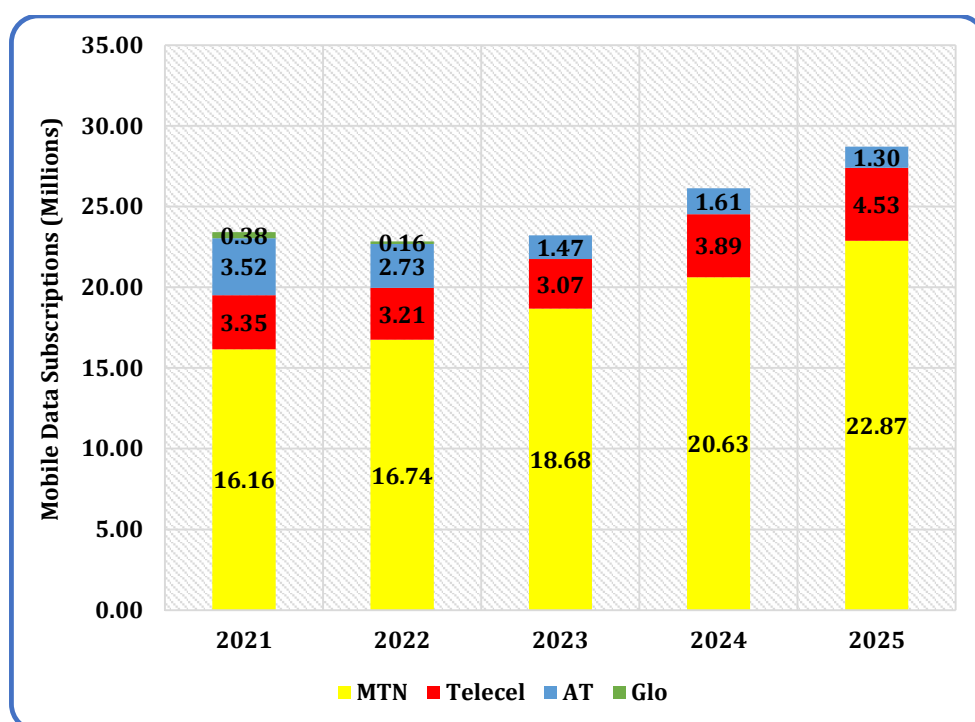


Figure 13: Mobile Data Subscriptions per Operator

Table 8: Mobile Data Subscriptions per Operator

Mobile Network Operator		2021	2022	2023	2024	2025
MTN	Subscriptions	16,159,901	16,744,370	18,675,841	20,626,311	22,867,689
	Market Share (%)	69.02	73.29	80.47	78.94	79.68
Telecel	Subscriptions	3,346,148	3,210,797	3,066,359	3,892,046	4,528,907
	Market Share (%)	14.29	14.05	13.21	14.90	15.78
AT	Subscriptions	3,524,022	2,730,454	1,465,428	1,609,235	1,301,794
	Market Share (%)	15.05	11.95	6.31	6.16	4.54
Glo	Subscriptions	384,456	160,627			
	Market Share (%)	1.64	0.70			
Total		23,414,527	22,846,248	23,207,628	26,127,592	28,698,390

Source: National Communications Authority, 2025

1.14 Market Share (%) per Operator for Mobile Data Subscriptions⁵

By the end of 2025, MTN subscriptions accounted for 79.68 percent of total mobile data subscriptions, down from 78.94 percent in 2024. Telecel's subscriptions also reached 15.78 percent of the total data subscriptions, marking an increase from 14.90 percent in 2024. AT's market share decreased from 6.16 percent in 2024 to 4.54 per cent in 2025. The market share (%) per operator for mobile data subscriptions is illustrated in Figure 14.

⁵Glo exited the Ghanaian market in the year 2022, hence data on Glo is not available for subsequent years.

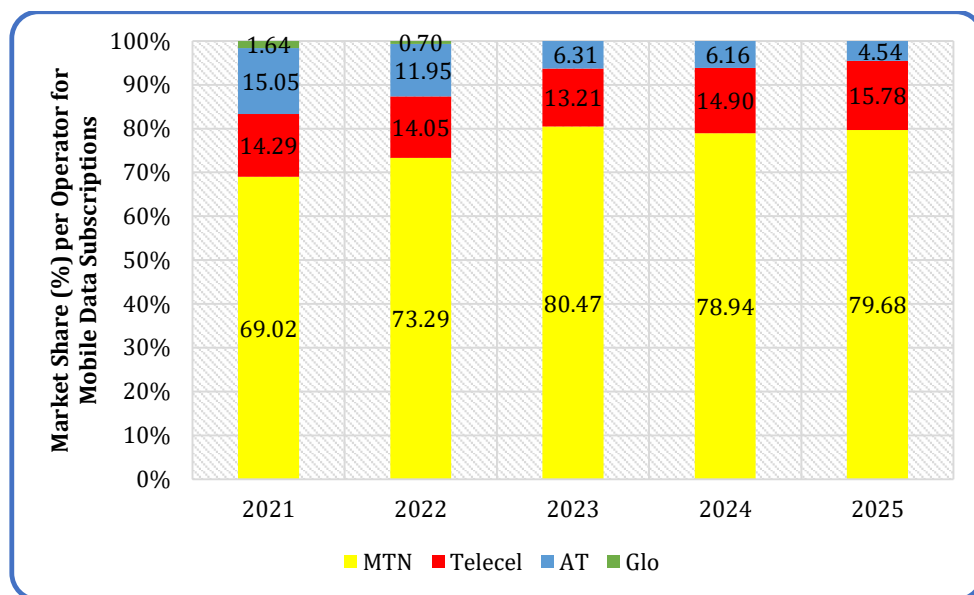


Figure 14: Market Share (%) per Operator for Mobile Data Subscriptions

1.15 Mobile Data Traffic

At the end of 2025, total mobile data traffic reached 3.87 million terabytes, representing a 54.16 percent increase from 2.51 million terabytes in 2024.

From 2021 to 2025, the volume of mobile data traffic increased steadily at a Compound Annual Growth Rate of 41.80 percent. Mobile data traffic rose from 0.96 million terabytes in 2021 to 3.87 million terabytes in 2025. The mobile data traffic from 2021 to 2025 is shown in Figure 15.

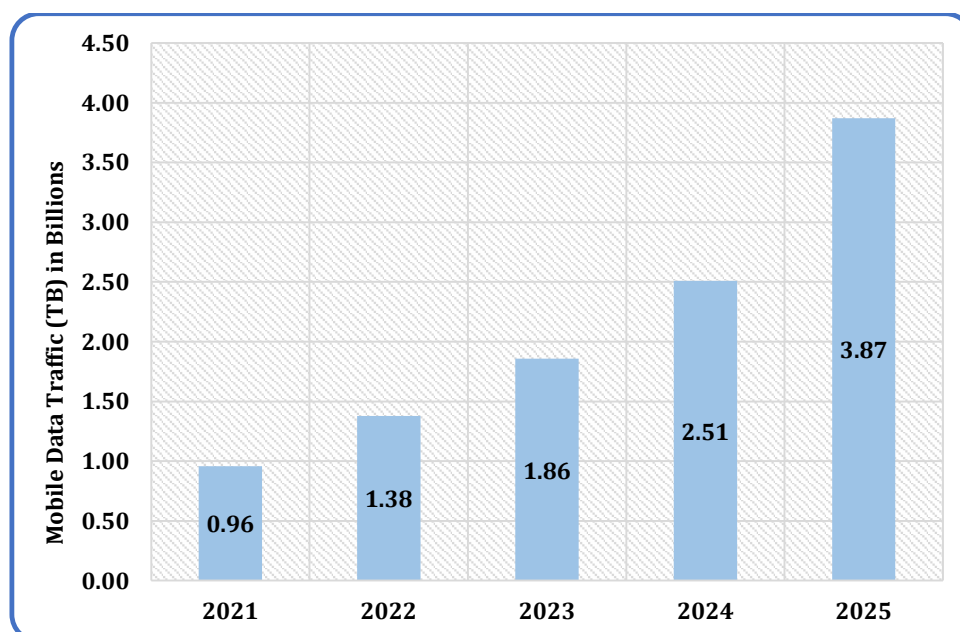


Figure 15: Mobile Data Traffic

1.16 Mobile Data Traffic per Operator

MTN subscriptions generated 3.30 million terabytes in 2025, up from 2.06 million terabytes in 2024, indicating a growth rate of 60.13 percent. MTN's mobile data traffic rose from 0.68 million terabytes in 2021 to 3.30 million terabytes in 2025, with a Compound Annual Growth Rate of 48.63 percent.

Telecel's year-on-year mobile data traffic increased by 34.70 percent, from 0.36 million terabytes in 2024 to 0.49 million terabytes in 2025. From 2021 to 2025, Telecel's mobile data traffic grew from 0.18 million terabytes to 0.49 million terabytes, with a Compound Annual Growth Rate of 27.77 percent.

AT's data traffic declined by 5.31 percent, falling from 0.09 million terabytes in 2024 to 0.08 million terabytes during the review period. However, it also rose from 0.07 million terabytes in 2021 to 0.08 million terabytes in 2025, with a Compound Annual Growth Rate of 4.06 percent. The mobile data traffic per operator from 2021 to 2025 is listed in Table 9 and shown in Figure 16.

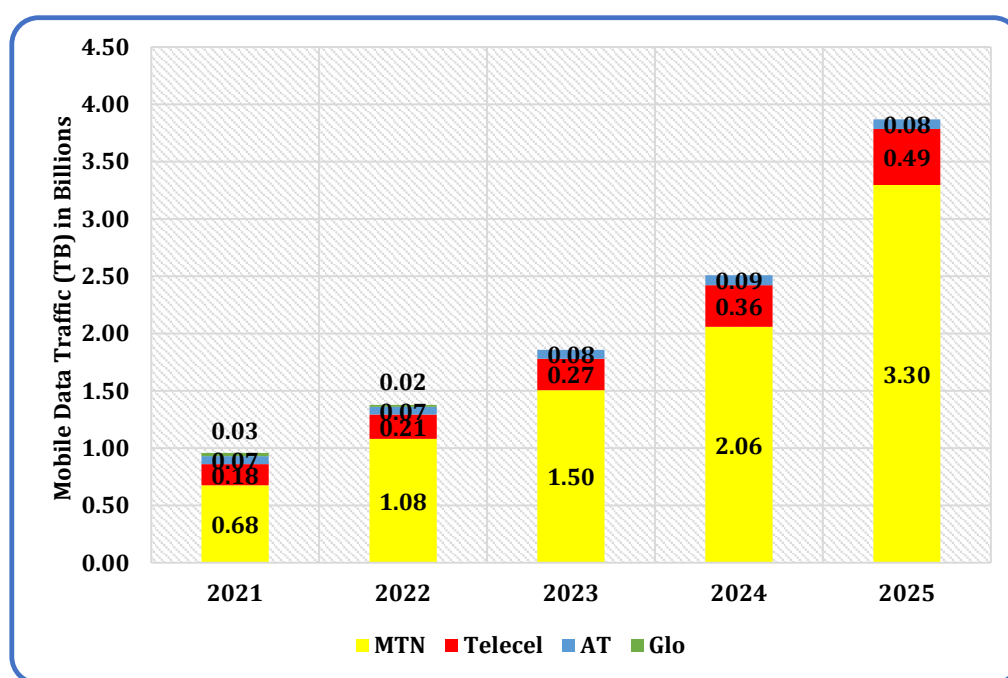


Figure 16: Mobile Data Traffic (GB) per Operator

1.17 Market Share (%) per Operator for Mobile Data Traffic

MTN accounted for 85.21 percent of the total mobile data traffic, up from 82.03 percent in 2024. Telecel also made up 12.65 percent of the total data traffic, a decrease from 14.47

percent in 2024. AT's market share dropped from 3.50 percent in 2024 to 2.15 percent in 2025. The market share per operator for mobile data traffic from 2021 to 2025 is listed in Table 9 and illustrated in Figure 17.

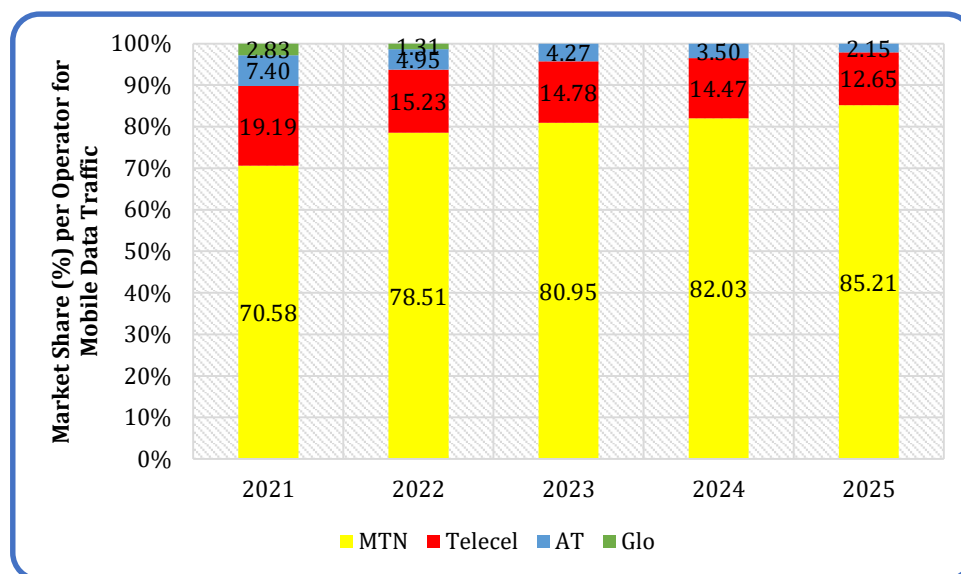


Figure 17: Market Share (%) per Operator for Mobile Data Traffic

Table 9: Mobile Data Traffic per Operator in GB

Mobile Network Operator		2021	2022	2023	2024	2025
MTN	Data Traffic (GB)	675,662,190	1,082,401,526	1,504,709,782	2,059,247,269	3,297,440,000
	Market Share (%)	70.58	78.51	80.95	82.03	85.21
Telecel	Data Traffic (GB)	183,653,560	210,000,989	274,785,598	363,326,382	489,382,990
	Market Share (%)	19.19	15.23	14.78	14.47	12.65
AT	Data Traffic (GB)	70,881,825	68,286,450	79,314,699	87,781,607	83,124,196
	Market Share (%)	7.40	4.95	4.27	3.50	2.15
Glo	Data Traffic (GB)	27,047,252	18,075,656			
	Market Share (%)	2.83	1.31			
Total		957,244,828	1,378,764,621	1,858,810,079	2,510,355,257	3,869,947,186

Source: National Communications Authority, 2025

1.18 Average Mobile Data Traffic per Subscription

Average mobile data traffic per subscription increased by 40.23 percent, rising from 96.08 gigabytes in 2024 to 134.74 gigabytes in 2025.

Average mobile data traffic per subscription rose from 40.88 gigabytes in 2021 to 134.74 gigabytes over five years, with a Compound Annual Growth Rate of 5.24 percent. The

average mobile data traffic per subscription from 2021 to 2025 is shown in Table 10 and illustrated in Figure 18.

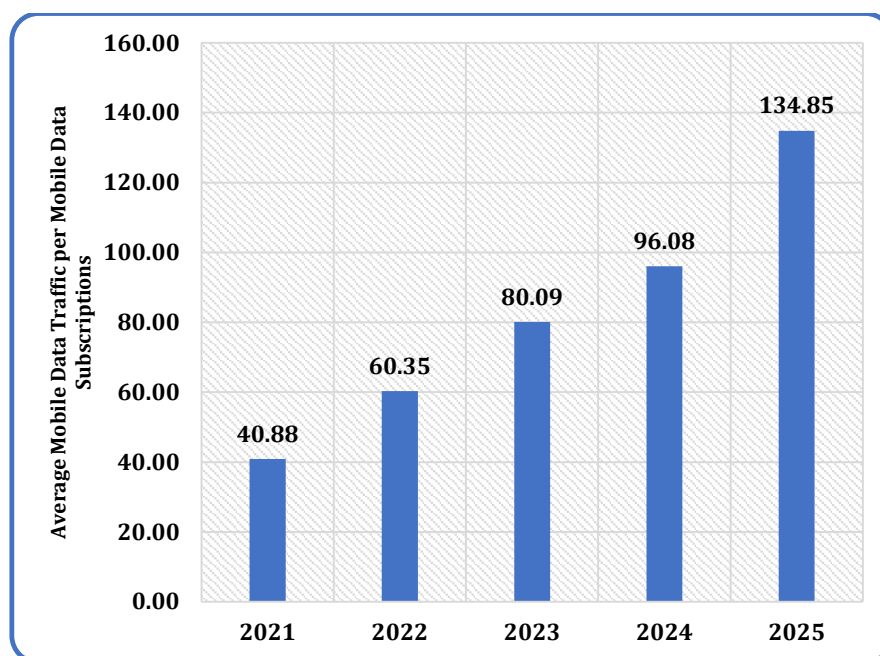


Figure 18: Average Mobile Data Traffic per Mobile Data Subscriptions

Table 10: Average Mobile Data Traffic per Subscription

Subscriptions	2021	2022	2023	2024	2025
Mobile Data Subscription	23,414,527	22,846,248	23,207,628	26,127,592	28,698,390
Mobile Data Traffic (GB)	957,244,828	1,378,764,621	1,858,810,079	2,510,355,257	3,869,947,186
Average traffic per subscription	40.88	60.35	80.09	96.08	134.85

Source: National Communications Authority, 2025

1.19 Machine-to-Machine Subscriptions

Machine-to-Machine (M2M) mobile subscriptions increased to 3.54 million at the end of 2025 from 2.2 million recorded in 2024, representing a growth rate of 59.61%.

Over the five years, M2M subscriptions rose from 1.11 million in 2021 to 3.54 million in 2025 with a Compound Annual Growth Rate of 33.73%. The machine-to-machine subscriptions from 2021 to 2025 are listed in

Table 11 and shown in Figure 19.

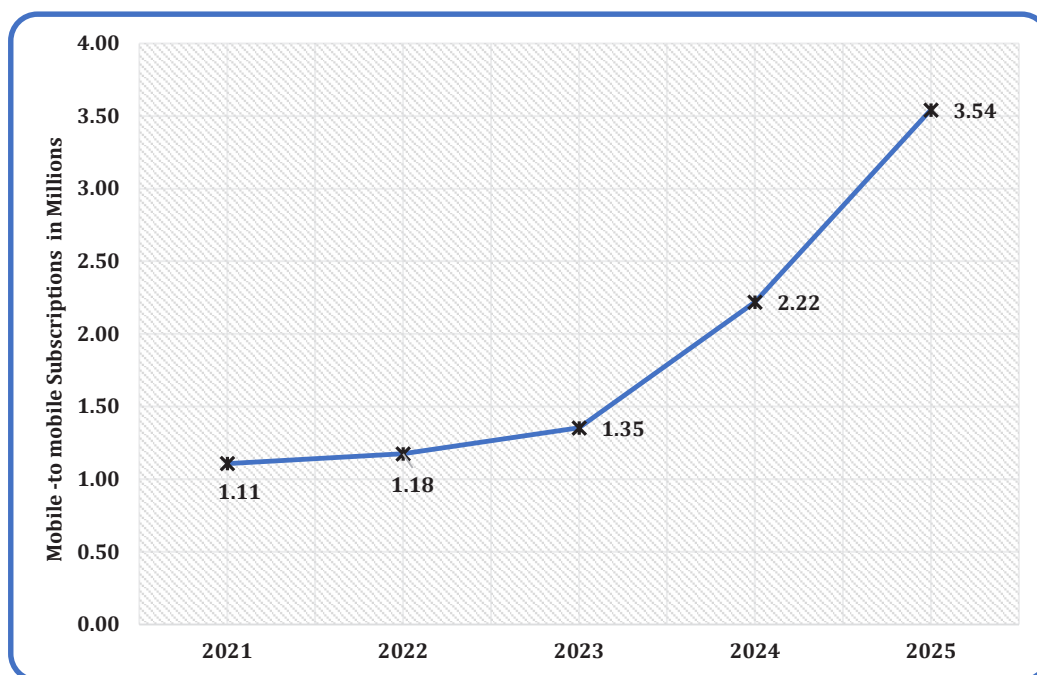


Figure 19: Machine-to-Machine Subscriptions

1.20 Machine-to-Machine Subscriptions per operator

MTN machine-to-machine subscriptions stood at 1.69 million in 2025, up from 1.08 million in 2024, indicating a growth rate of 55.97 percent. MTN's machine-to-machine subscriptions rose from 0.64 million in 2021 to 1.69 million in 2025, with a Compound Annual Growth Rate of 27.48 percent.

Telecel's year-on-year machine-to-machine subscriptions stood at 1.85 million in 2025, up from 1.13 million in 2024, indicating a growth rate of 63.18 percent. Telecel's machine-to-machine subscriptions rose from 0.47 million in 2021 to 1.85 million in 2025, with a Compound Annual Growth Rate of 40.85 percent.

AT recorded 3,256 machine-to-machine subscriptions, from 2,654 in 2024 indicating a growth rate of 22.68 percent. From 2021 to 2025, AT's machine-to-machine subscriptions grew at a Compound Annual Growth Rate of 6.27 percent.

The machine-to-machine subscriptions per operator from 2021 to 2025 are listed in Table 11 and shown in Figure 20. Figure 13

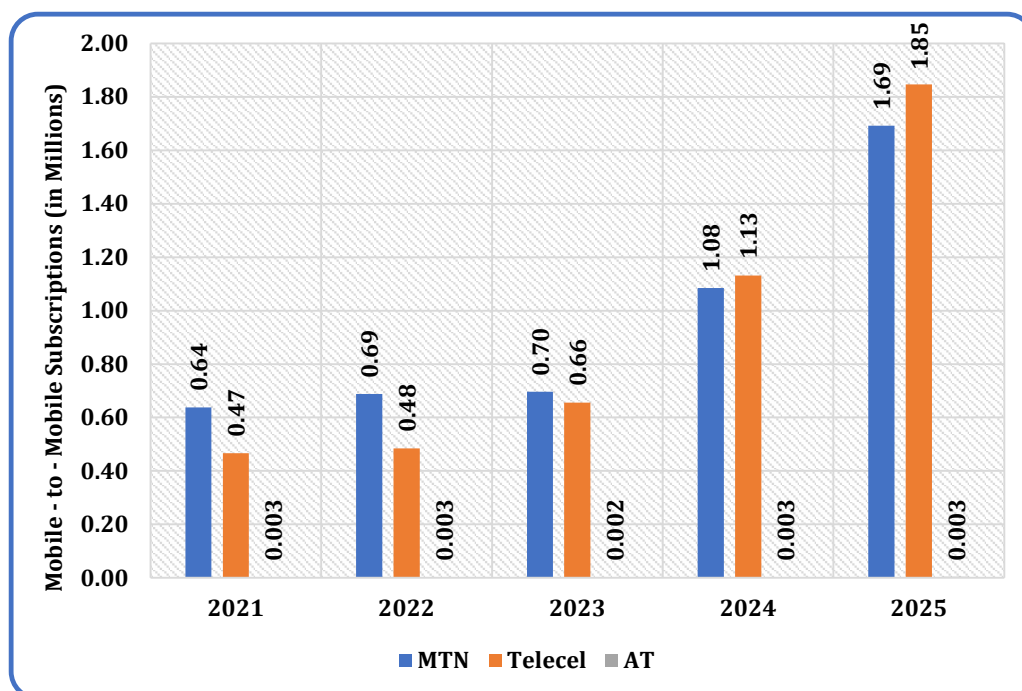


Figure 20: Machine-to-Machine Subscriptions per Operator

Table 11: Machine-to-Machine Subscriptions

Mobile Network Operator	2021	2022	2023	2024	2025
MTN	638,178	687,862	696,099	1,084,627	1,691,740
Telecel	466,705	484,579	655,653	1,131,926	1,847,059
AT	2,553	2,592	1,706	2,654	3,256
Total	1,107,436	1,175,033	1,353,458	2,219,207	3,542,055

Source: National Communications Authority, 2025

1.21 Total Short Messaging Service (SMS)

Total Short Messaging Service (SMS) counts increased by 205.04 percent from 3.75 billion in 2024 to 11.44 billion in 2025.

From 2021 to 2025, the total SMS counts steadily increased and they grew exponentially in 2025, with a Compound Annual Growth Rate of 51.39 percent- from 2.18 billion in 2021 to 11.44 billion in 2025. The total number of Short Messaging Service (SMS) from 2021 to 2025 is listed in Table 12 and shown in Figure 21.

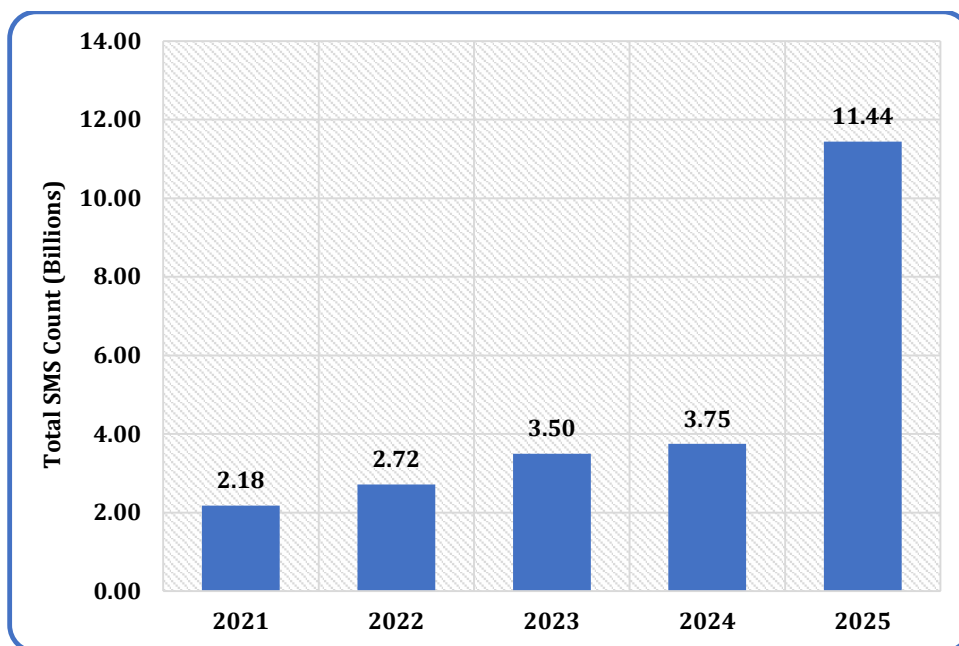


Figure 21: Total SMS Counts

1.22 On-Net and Off-Net SMS Counts

On-Net SMS counts experienced an exponential increase from 2.10 billion in 2024 to 8.52 billion in the year under review, indicating a **305.35** percent increase. Over the five years, On-Net SMS counts increased from 1.60 billion to 8.52 billion with a Compound Annual Growth Rate of 51.89 percent.

Off-Net SMS counts rose to 2.92 billion from 1.65 billion in 2024, indicating a 77.12 percent growth. Overall, Off-Net SMS counts rose from 0.58 billion in 2021 to 2.92 billion in 2025, with a Compound Annual Growth Rate of 49.95 percent.

On-Net SMS made up 74.48 percent of the total SMS, while Off-Net SMS counts represented 25.52 percent. The On-Net and Off-Net SMS counts from 2021 to 2025 are listed in Table 12 and shown in Figure 22.

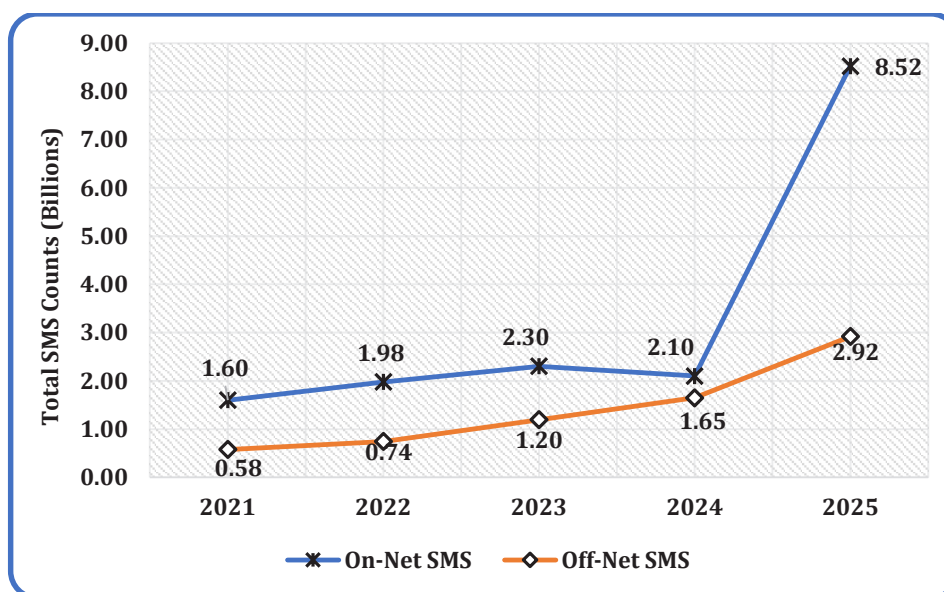


Figure 22: Distribution of Total SMS Count by On-Net and Off-Net

Table 12: Distribution of Off-Net and On-Net SMS Counts

Year	2021	2022	2023	2024	2025
On-Net SMS					
Traffic	1,600,711,943	1,976,546,289	2,303,380,905	2,102,023,195	8,520,512,306
Growth (%)	-2.91	23.48	16.51	-8.72	305.35
Off-Net SMS					
Traffic	577,412,214	742,702,003	1,195,717,077	1,648,207,635	2,919,316,991
Growth (%)	46.94	28.63	61.00	37.84	77.12
Total	2,178,124,157	2,719,248,292	3,498,641,208	3,750,230,830	11,439,829,297

Source: National Communications Authority, 2025

1.23 Total SMS Count per Operator⁶

MTN recorded 8.51 billion SMS counts in 2025, up from 2.10 billion in 2024, representing 74.35 percent of the total SMS counts. Over the five years, MTN's SMS counts increased from 1.27 billion to 8.51 billion, with a Compound Annual Growth Rate of 60.92 percent. Telecel's SMS counts increased from 1.61 billion in 2024 to 2.89 billion in 2025, accounting for 25.22 percent of the total SMS volume. The count rose from 0.88 billion in 2021 to 2.89 billion in 2025, with a Compound Annual Growth Rate of 34.38 percent. AT generated 0.05 billion SMS counts, up from 0.04 billion in the previous year, representing 0.43 percent of the market share. AT's SMS counts recorded a Compound

⁶ Glo exited the Ghanaian market in the year 2022, hence data on Glo is not available for subsequent years.

Annual Growth Rate of 29.73 percent, rising from 0.02 billion in 2021 to 0.05 billion in 2025. The total SMS count per operator from 2021 to 2025 is listed in Table 13 and shown in Figure 23.

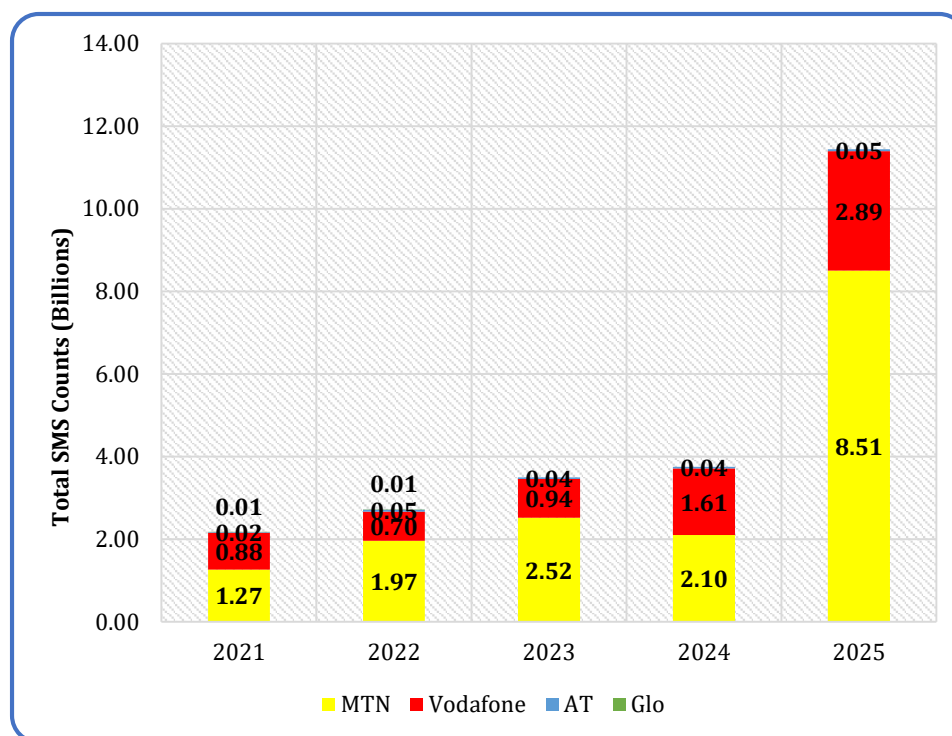


Figure 23: Total SMS Counts per Operator

Table 13: SMS Count per Operator

Operator	2021	2022	2023	2024	2025
MTN	1,268,498,378	1,965,836,108	2,520,750,757	2,102,598,897	8,505,652,978
Telecel	884,774,319	701,508,358	935,516,832	1,611,665,220	2,885,296,925
AT	17,255,704	45,871,731	42,373,619	35,966,713	48,879,394
Glo	7,595,756	6,032,095			
Total	2,178,124,157	2,719,248,292	3,498,641,208	3,750,230,830	11,439,829,297

Source: National Communications Authority, 2025

1.24 Average SMS Count per Mobile Voice Subscription

At the end of 2025, the average number of SMS counts per subscription rose to 267 SMS counts from 96 SMS counts, representing a growth rate of 178.39 percent.

The average SMS counts per subscription rose from 54 in 2021 to 267 in 2025, with a Compound Annual Growth Rate of 49.20 percent. The average SMS counts per mobile voice subscription between 2021 and 2025 is presented in Table 14 and Figure 24.

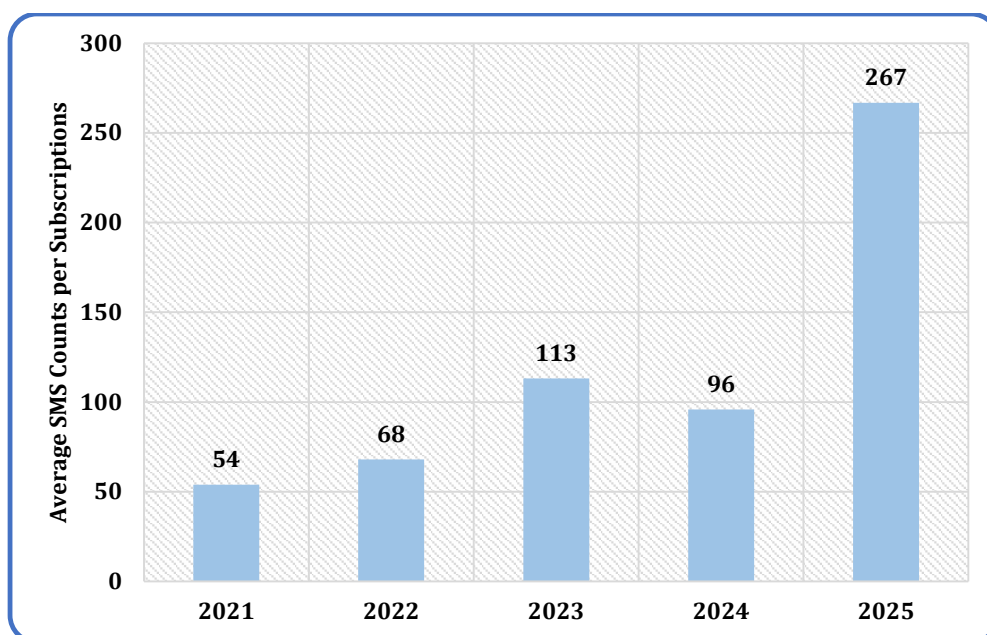


Figure 24: Average SMS Counts per Mobile Voice Subscriptions

Table 14: Average SMS Count per Subscription

Subscriptions	2021	2022	2023	2024	2025
Mobile Voice Subscription	40,454,073	40,045,308	33,384,460	39,126,056	42,871,955
Total SMS Count	2,178,124,157	2,719,248,292	3,498,641,208	3,750,230,830	11,439,829,297
Average traffic per subscription	54	68	113	96	267

Source: National Communications Authority, 2025

1.25 Default Tariffs on Mobile Services

The average industry tariffs for both On-Net and Off-Net voice services was GHS 0.14 per minute at the end of 2025. The default tariffs on mobile services from 2021 to 2025 is shown in Table 15 and Figure 25.

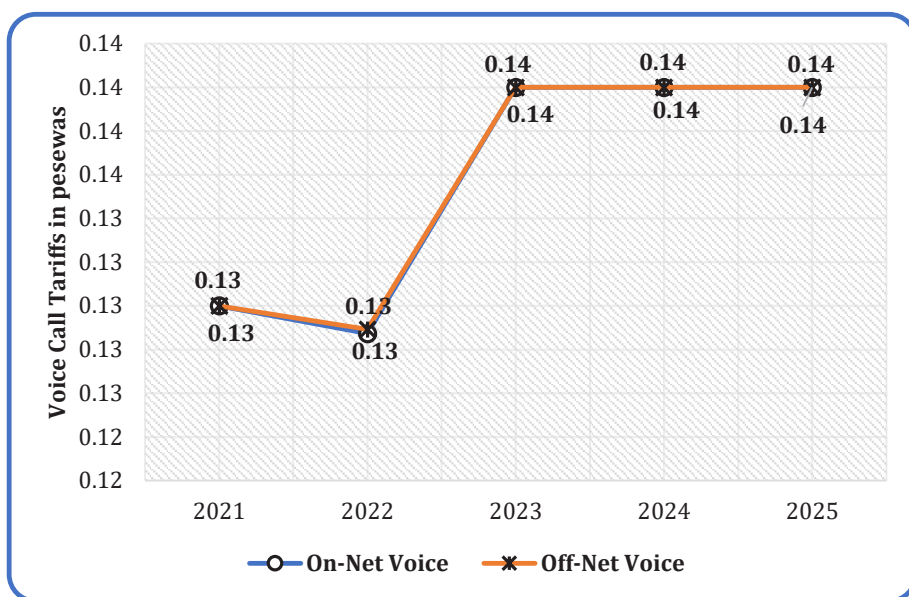


Figure 25: Mobile Voice On-Net and Off-Net Tariff

At the end of 2025, the average On-Net and Off-Net SMS tariffs were GHS 0.06 and GHS 0.07 per SMS respectively, as shown in Table 16 and Figure 26.

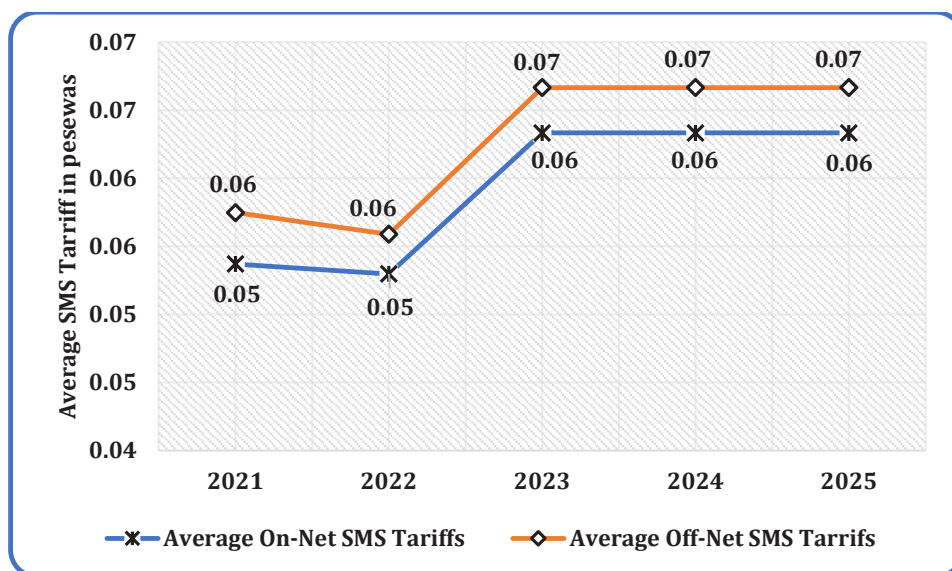


Figure 26: Average SMS Tariffs

Over the five years, the average mobile data tariff increased from GHS 0.08 per MB in 2021 to GHS 0.14 per MB in 2025, as shown in Table 15 and Figure 27.

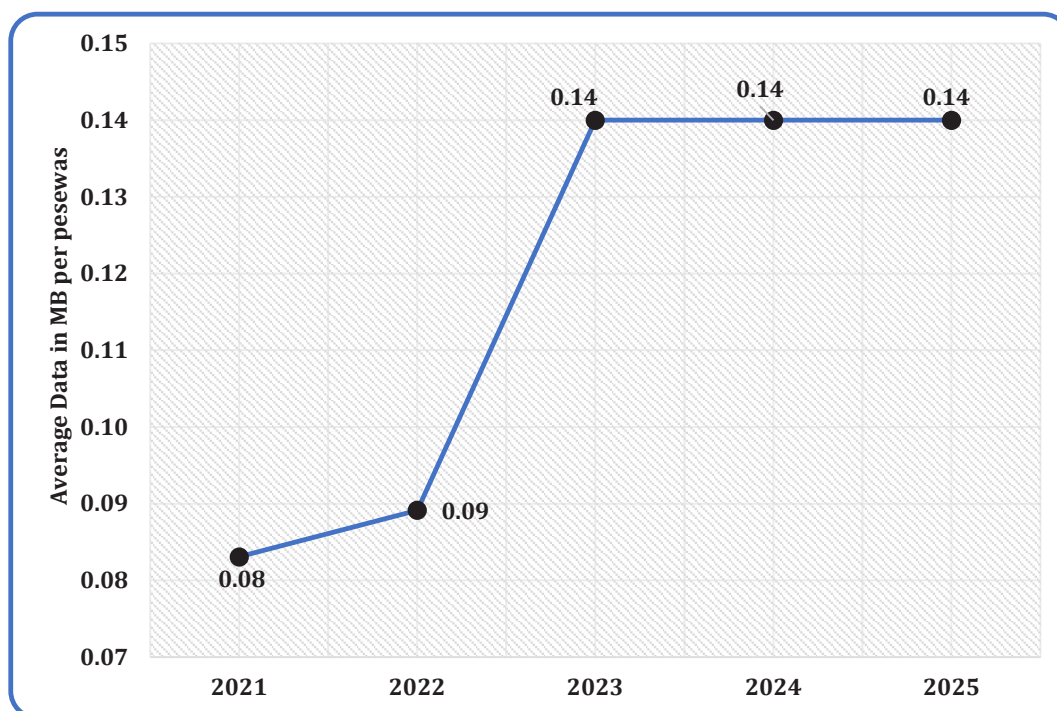


Figure 27: Average Mobile Data Tariffs

Table 15: Default Tariffs for Mobile Services

Average Industry Tariffs	2021	2022	2023	2024	2025
On-Net Voice	0.13	0.13	0.14	0.14	0.14
Off-Net Voice	0.13	0.13	0.14	0.14	0.14
On-Net SMS	0.05	0.05	0.06	0.07	0.06
Off-Net SMS	0.06	0.06	0.06	0.06	0.06
Data/MB	0.08	0.09	0.14	0.14	0.14

Source: National Communications Authority, 2025

1.26 Mobile Number Portability (MNP)

In the period under review, a total of 2.29 thousand mobile numbers were ported between networks, compared to 2.58 thousand in the previous year, recording a decline in growth by 11.05 percent.

From 2021 to 2025, the total number of mobile numbers ported decreased from 219.96 thousand to 2.29 thousand, resulting in a Compound Annual Growth Rate of negative 68.04 percent. The total number of ports each year from 2021 to 2025 is shown in Table 16 and Figure 28.

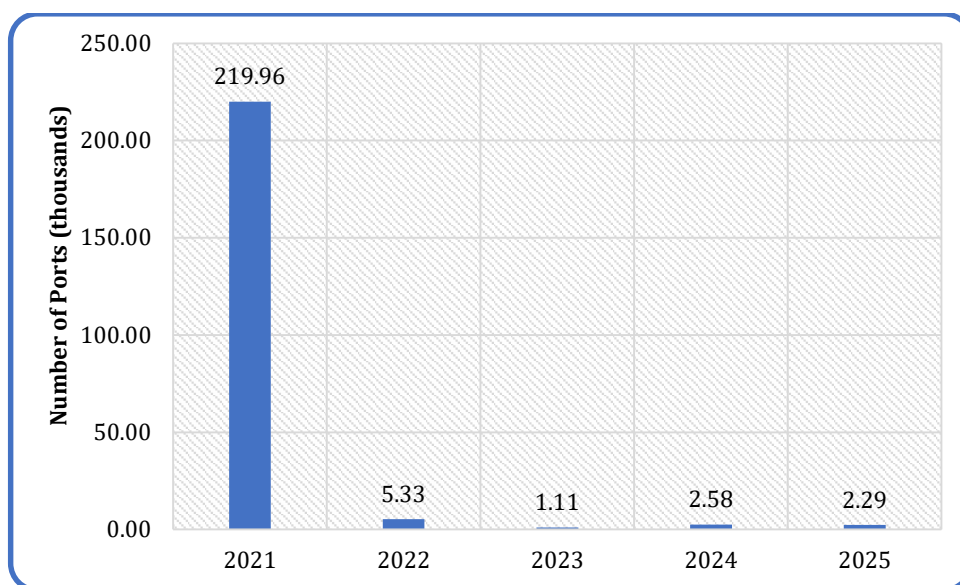


Figure 28: Total number of ports per year

Table 16: Total Number of Ports

Year	Total No. of Ports	Cumulative Total Port	Growth Rate (%)
2021	219,957	4,867,992	-6.8
2022	5,333	4,873,325	-97.6
2023	1,113	4,874,438	-79.1
2024	2,579	4,877,016	131.72
2025	2,294	4,879,310	-11.05

Source: National Communications Authority, 2025

1.26.1 Cumulative Total Ports

Since the inception of MNP, the total number of mobile number ports carried out by mobile network operators in Ghana stood at 4.88 million by the end of 2025. Over the five years, the cumulative total number of ports has increased at a steady rate with a Compound Annual Growth Rate of 0.06 percent. The cumulative total ports from 2021 to 2025 are shown in Table 16 and Figure 29.

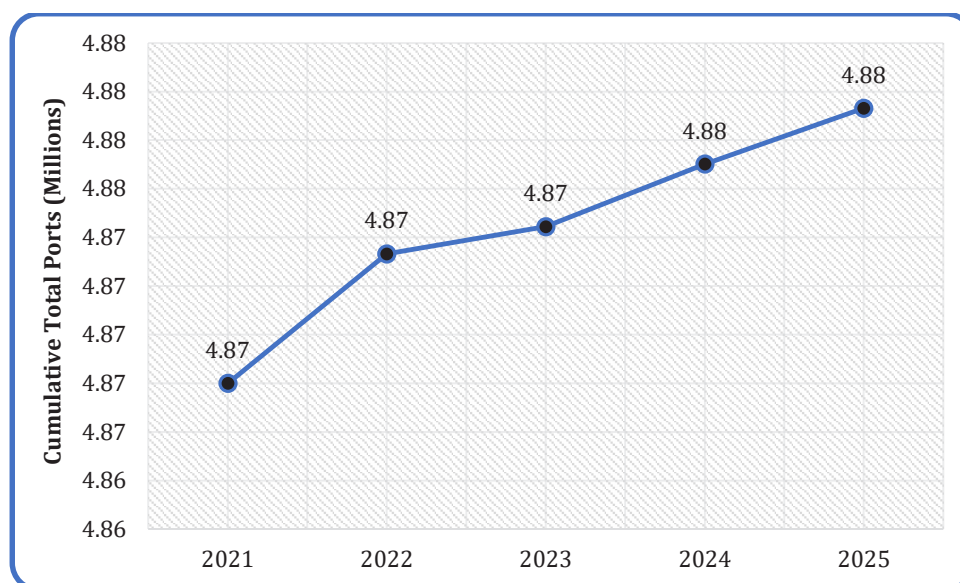


Figure 29: Cumulative Total Ports

1.26.2 Porting per Operator

At the end of 2025, MTN recorded a decline in net porting gains, decreasing from 1,826 to 1,589 subscribers. This represents a 12.98 reduction. Despite this decline, MTN remains the only operator with consistent positive net porting. Over the five-year period, MTN's performance shows a sharp decline from 216,117 in 2021 to 1,589 in 2025. This corresponds to a negative Compound Annual Growth Rate of 70.72 percent.

Telecel's net losses reduced from 992 in 2024 to 562 in 2025, reflecting a decline in growth by 43.35 percent. While still operating in the negative, it increased from net loss of 515 in 2021 to 562 in 2025, with a Compound Annual Growth Rate of 2.21 percent.

AT's net losses increased from 763 in 2024 to 983 in 2025, representing a 28.83 percent decline. From 2021 to 2025, its net losses reduced drastically from 215,206 to 983 in 2025, implying a strong recovery over time, with a Compound Annual Growth rate of 74.00 percent. The total number of ports each year from 2021 to 2025 is shown Table 17.

Table 17: Net Porting per Operator

	2021	2022	2023	2024	2025
MTN	216,117	2,431	491	1,826	1,589
Telecel	(515)	787	(48)	(992)	(562)
AT	(215,206)	(3,025)	(413)	(763)	(983)
Glo	(391)	(192)	(30)	(71)	(44)

Source: National Communications Authority, 2025

1.27 Categories of Mobile Phones on Mobile Networks⁷

The total number of mobile phones connected to networks increased by 16.08 percent from 40.15 million in 2024 to 46.61 million in 2025. Between 2021 and 2025, smartphones remained the dominant type. The number of smartphones connected to the network indicates a market share of 57.66 percent. The number of smartphones on the network grew by 15.65 percent from 23.24 million in 2024 to 26.87 million in 2025.

Feature phone users declined from 10.79 million in 2024 to 10.59 million, while basic phone users increased to 9.15 million in the year under review, from 6.12 million in 2024, representing a rise of 49.42 percent. The number of mobile phones active on networks in Ghana from 2021 to 2025 is shown in Table 18 and Figure 30.

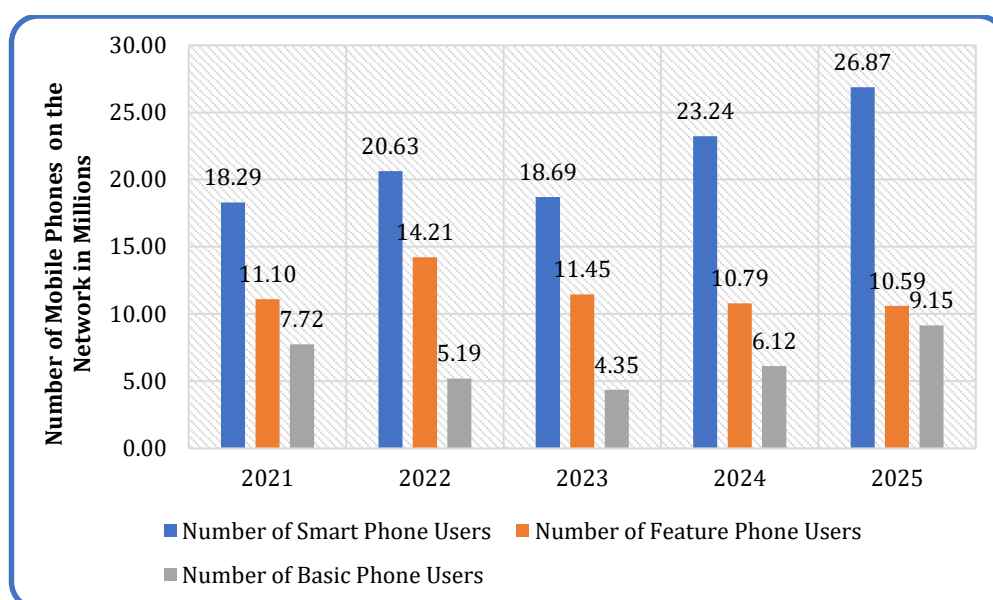


Figure 30: Number of Mobile Phones on the network

1.27.1 Market Share of Mobile Phone Type

The market shares for smartphone users decreased from 57.87 percent in 2024 to 57.66 percent in 2025. Also, the feature phone market share decreased from 26.88 percent to 22.71 percent in 2025. The basic phone market share increased from 15.25 percent to 19.63 percent in 2025. The market shares of different mobile phone types are shown in Table 18 and Figure 31.

⁷ This data covers mobile phones connected to the AT and MTN networks.

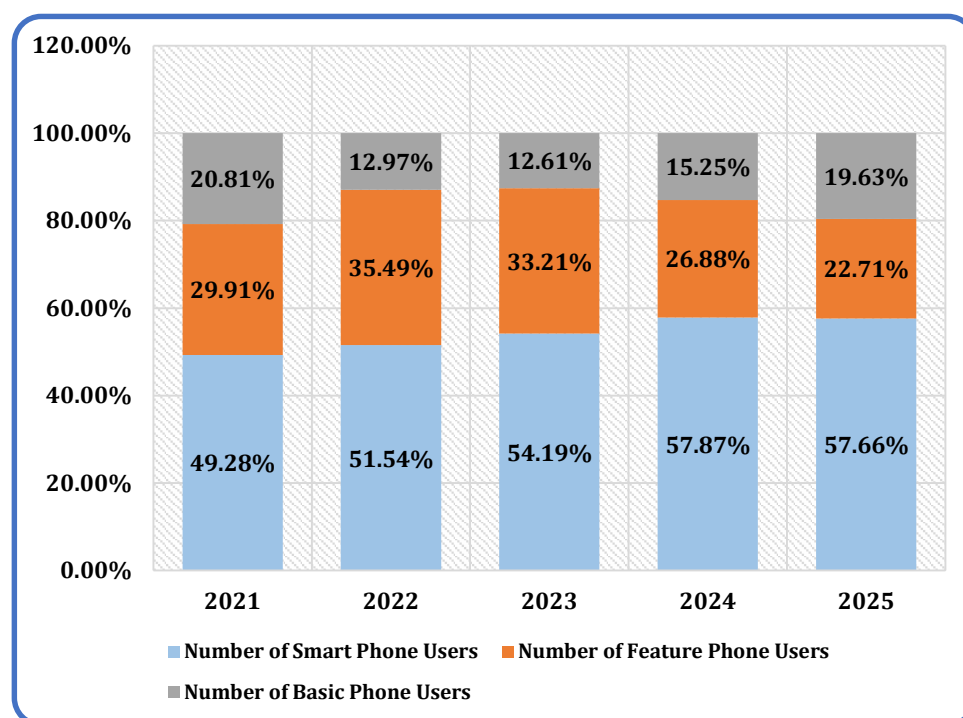


Figure 31: Market Share of Mobile Phone Types

Table 18: Types of Mobile Phones connected to the Network

Types of Phones	2021	2022	2023	2024	2025
Number of Smartphone Users	18,288,346	20,626,277	18,686,118	23,236,048	26,873,338
Market Share (%)	49.28	51.54	54.19	57.87	57.66
Number of Feature Phone Users	11,098,344	14,206,200	11,450,697	10,792,867	10,585,002
Market Share (%)	29.91	35.49	33.21	26.88	22.71
Number of Basic Phone Users	7,723,395	5,190,747	4,347,697	6,124,118	9,150,523
Market Share (%)	20.81	12.97	12.61	15.25	19.63
Total	37,110,085	40,023,224	34,484,512	40,153,033	46,608,863

Source: National Communications Authority, 2025

1.27.2 Mobile Phone on Operator's Network

Mobile phone and device usage on the network increased to 46.61 million in 2025, up from 40.15 million in 2024. Mobile phones on MTN's network rose from 37.51 million in the previous year to 43.91 million in 2025. Mobile phones on AT's network grew from 2.64 million to 2.70 million in 2025. The distribution of mobile phones on the network per operator from 2021 to 2025 is shown in Table 19 and Figure 32.

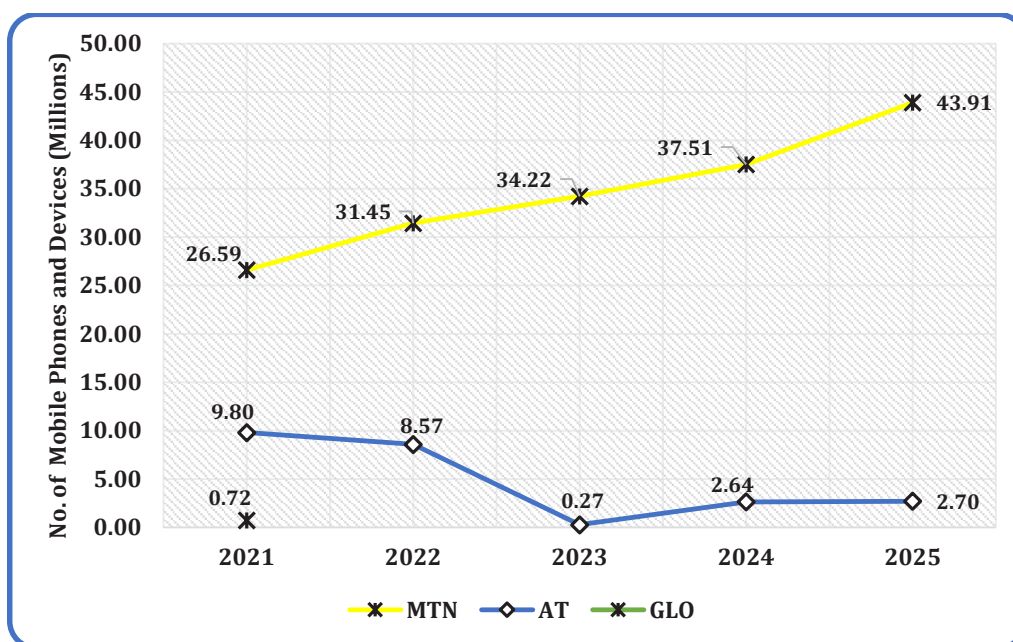


Figure 32: Distribution of mobile phones on the network per operator

Table 19: Mobile Phones connected to the Network per Operator

Mobile Network Operator	2021	2022	2023	2024	2025
MTN	26,589,211	31,450,992	34,217,886	37,513,812	43,908,343
Market Share (%)	71.65%	78.58%	99.23%	93.43%	94.21%
AT	9,797,934	8,572,232	266,626	2,639,221	2,700,520
Market Share (%)	26.40%	21.42%	0.77%	6.57%	5.79%
GLO	722,940				
Market Share (%)	1.95%				
Total	37,110,085	40,023,224	34,484,512	40,153,033	46,608,863

Source: National Communications Authority, 2025



Fixed Network Services

CHAPTER TWO

FIXED NETWORK SERVICES

2.0 Introduction

The chapter presents a five-year trend analysis of fixed network services from 2021 to 2025. AT, MTN, and Telecel are the three (3) licensed fixed network operators.

2.1 Fixed Voice Subscriptions and Penetration Rate (%)

Fixed voice subscriptions declined from 269.36 thousand in 2024 to 265.24 thousand in 2025, a drop of 1.53 percent. Over five-year period, fixed voice subscriptions decreased at a CAGR of 4.23 percent, from 315.27 thousand in 2021 to 265.24 thousand in 2025.

The penetration rate decreased from 0.81 percent in 2024 to 0.79 percent in 2025. Over the five-year period, the fixed voice penetration rate dropped from 1.02 percent to 0.79 percent in 2025, with a negative Compound Annual Growth Rate of 6.40 percent. The fixed voice subscriptions and penetration rate from 2021 to 2025 are presented in Table 20 and Figure 33.

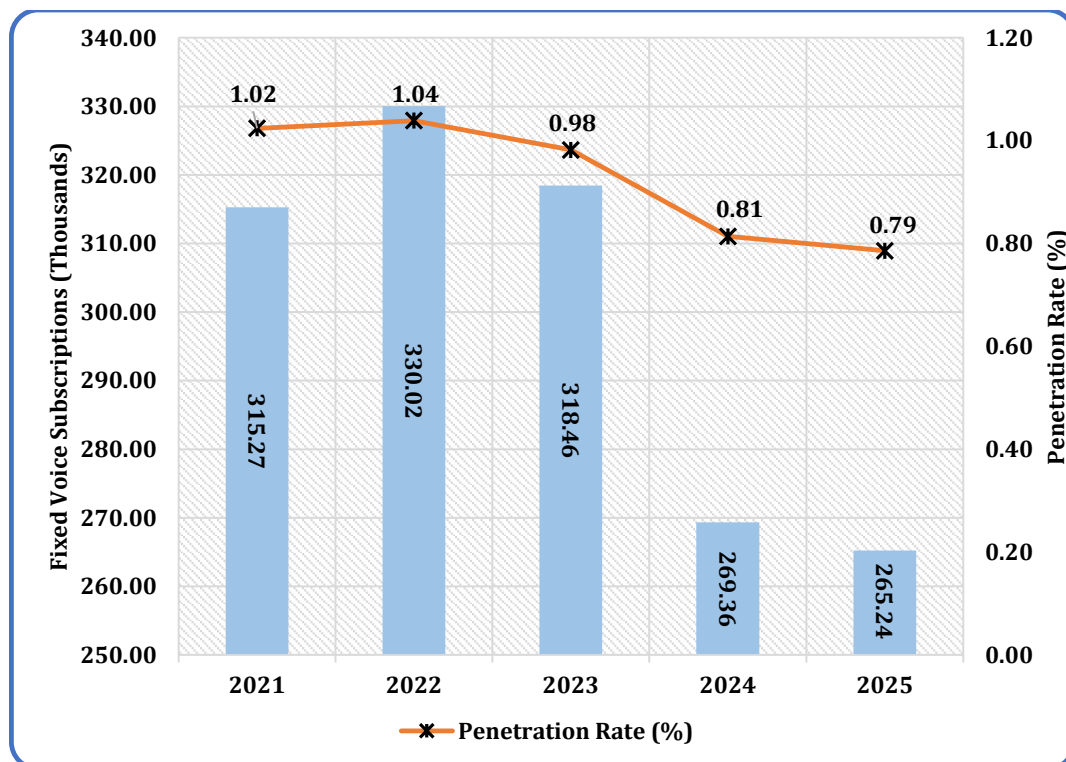


Figure 33: Fixed Voice Subscriptions and Penetration Rate (%)

Table 20: Fixed Voice Subscriptions and Penetration Rate (%)

Subscriptions	2021	2022	2023	2024	2025
Fixed Network Subscriptions	315,271	330,016	318,460	269,356	265,236
Growth Rate (%)	2.47	4.68	-3.50	-15.42	-1.53
Net Additions	7,603	14,745	-11,556	-49,104	-4,120
Country Population	30,792,608	31,769,363	32,429,591	33,089,819	33,750,047
Penetration Rate (%)	1.02	1.04	0.98	0.81	0.79

Source: National Communications Authority, 2025

2.2 Postpaid and Prepaid Fixed Voice Subscriptions

Fixed prepaid voice subscriptions stood at 131.29 thousand at the end of 2025, accounting for 49.50 percent of the fixed voice subscriptions. Fixed postpaid voice subscriptions also reached 133.94 thousand, representing 50.50 percent of the total fixed voice subscriptions. The fixed voice prepaid and postpaid subscriptions from 2021 to 2025 are shown in Figure 34.

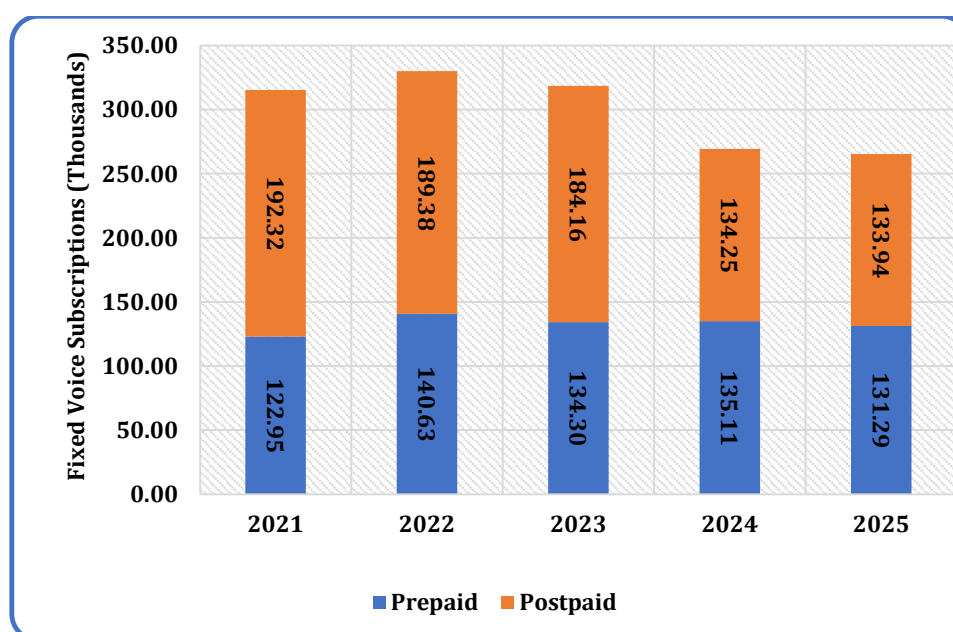


Figure 34: Fixed Voice Prepaid and Postpaid Subscriptions

2.3 Fixed Voice Subscriptions per Operator

Telecel recorded 257.36 thousand fixed voice subscriptions in 2025, representing a decline of 1.54 percent from 261.55 thousand in 2024. From 2021 to 2025, Telecel's fixed voice subscriptions decreased from 307.28 thousand to 257.54 thousand with a Compound Annual Growth Rate of negative 4.32 percent. AT recorded 0.77 thousand subscriptions, a decrease of 15.24 percent from 0.91 thousand in 2024. Over the five-year period, AT fixed voice subscriptions fell from 3.63 thousand to 0.77 thousand, indicating a negative Compound Annual Growth Rate of 32.07 percent. MTN experienced a 0.52 percent increase, rising from 6.89 thousand in 2024 to 6.93 thousand in 2025. MTN's fixed voice subscriptions grew at a Compound Annual Growth Rate of 12.28 percent, from 4.36 thousand in 2021 to 6.93 thousand in 2025. The fixed voice subscriptions per operator from 2021 to 2025 are shown in Figure 35.

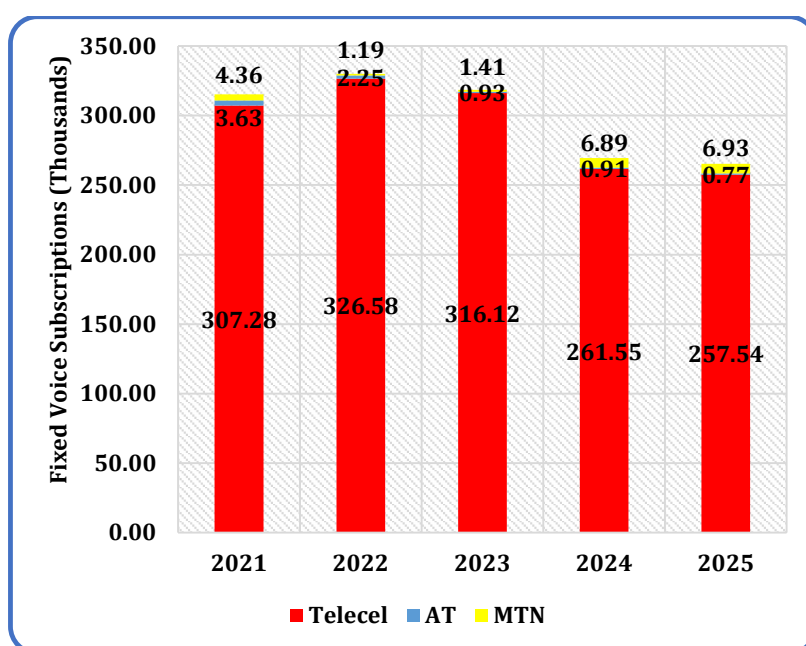


Figure 35: Fixed Voice Subscriptions per Operator

2.4 Fixed Voice Subscriptions Market Share

Telecel's market share of fixed voice subscriptions remained at 97.10 percent in 2025. MTN's fixed voice subscriptions market share increased from 2.56 percent in 2024 to 2.61 percent in 2025. AT's market share declined from 0.34 percent in 2024 to 0.29 percent in 2025, indicating a 0.05 percent decrease. The market share for fixed voice subscriptions in 2025 is shown in

Table 21 and Figure 36.

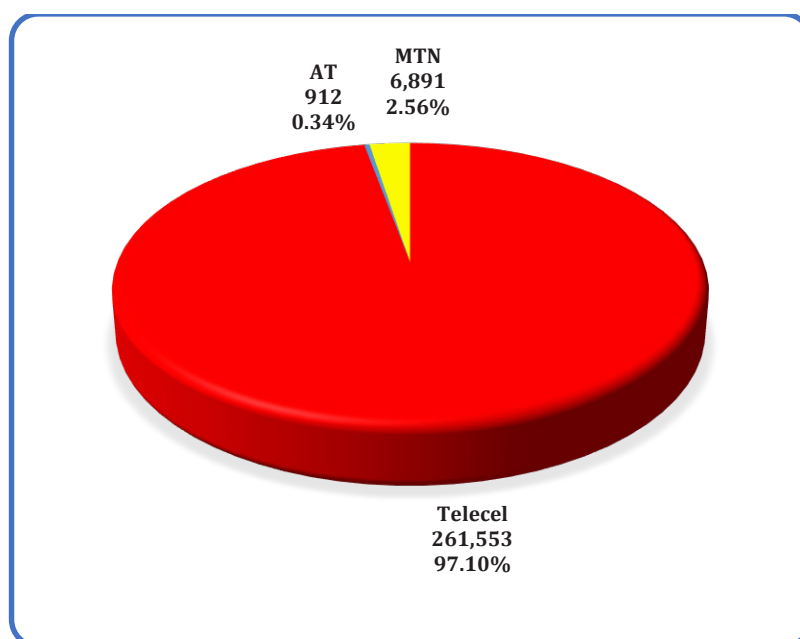


Figure 36: Market share (%) for Fixed Voice Subscriptions

Table 21: Fixed Voice Subscriptions per Operator

Fixed Network Operators		2021	2022	2023	2024	2025
Telecel (Formerly Vodafone)	Subscriptions	307,278	326,579	316,120	261,553	257,536
	Share (%)	97.46	98.96	99.27	97.10	97.10
AT (Formerly AirtelTigo)	Subscriptions	3,634	2,247	933	912	773
	Share (%)	1.15	0.68	0.29	0.34	0.29
MTN	Subscriptions	4,359	1,190	1,407	6,891	6,927
	Share (%)	1.38	0.36	0.44	2.56	2.61
Total Industry Subscriptions		315,271	330,016	318,460	269,356	265,236

Source: National Communications Authority, 2025

2.5 Fixed Voice Traffic in Minutes

Traffic generated from fixed voice subscriptions recorded a decrease from 29.71 million minutes, down to 25.94 million minutes in 2025, marking a decline of 12.70 percent. From 2021 to 2025, fixed voice traffic steadily decreased from 38.05 million minutes in 2021 to 25.94 million minutes in 2025, resulting in a negative Compound Annual Growth Rate of 10.17 percent. The fixed voice traffic in minutes from 2021 to 2025 is shown in Table 22 and Figure 37.

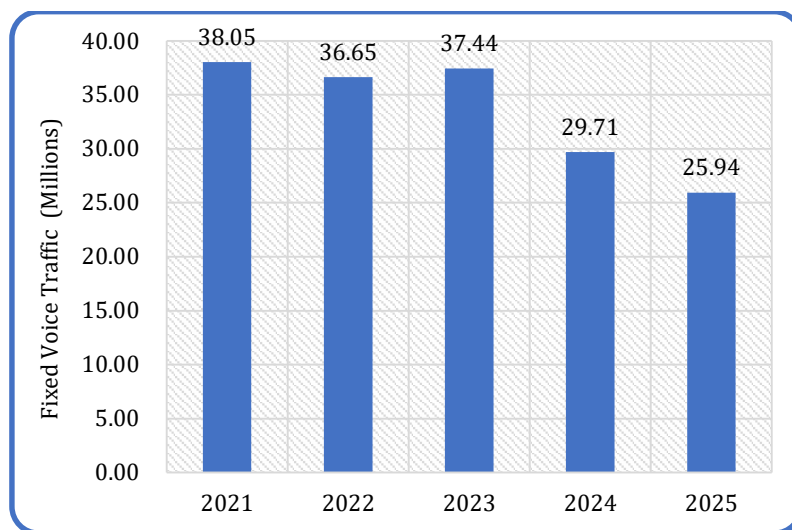


Figure 37: Fixed Voice Traffic in Minutes

Table 22: Fixed Voice Traffic per Operator

Fixed Network Operators		2021	2022	2023	2024	2025
Telecel	Traffic in minutes	37,144,772	36,635,138	37,330,800	29,668,101	25,918,908
	Share (%)	97.63	99.96	99.71	99.86	99.93
AT	Traffic in minutes	873,298	15,032	40,457	947	0
	Share (%)	2.30	0.04	0.11	0.00	0.00
MTN	Traffic in minutes	28,265	739	67,034	41,925	17,775
	Share (%)	0.07	0.00	0.18	0.14	0.07
Total Fixed Voice Traffic		38,046,335	36,650,909	37,438,291	29,710,973	25,936,683

Source: National Communications Authority, 2025

2.6 Fixed Data Subscription & Penetration Rate (%)

Fixed data subscriptions declined from 113.72 thousand in 2021 to 102.95 thousand in 2022 but then increased to 175.46 thousand in 2025, which saw a 13.26 percent compound annual growth rate from 2021 to 2025. On year-on-year basis, fixed data subscriptions grew from 126.74 thousand in 2024 to 175.46 thousand at a growth rate of 38.44 percent. The penetration rate grew from 0.38 percent in 2024 to 0.52 percent in 2025. The details on fixed data subscriptions and penetration rate from 2021 to 2025 are shown in Table 23 and Figure 38.

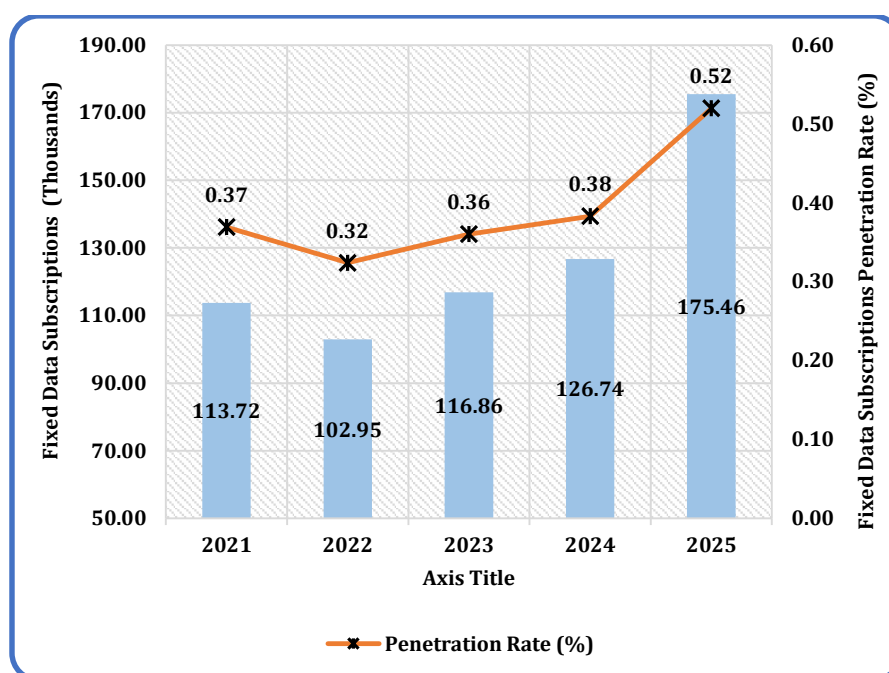


Figure 38: Fixed Data Subscriptions and Penetration Rate (%)

Table 23: Fixed Data Subscriptions and Penetration Rate (%)

Subscriptions	2021	2022	2023	2024	2025
Fixed Network Subscriptions	113,722	102,952	116,860	126,745	175,458
Growth Rate (%)	47.65%	-9.47	13.51	8.46%	38.44%
Net Additions	36,700	-10,770	13,908	9,882	48,716
Country Population	30,792,608	31,769,363	32,429,591	33,089,811	33,750,047
Penetration Rate (%)	0.37	0.32	0.36	0.38	0.52

Source: National Communications Authority, 2025

2.7 Fixed Data Subscriptions per Operator

Telecel fixed data subscriptions increased from 84.31 thousand in 2024 to 92.52 thousand in 2025, recording a 9.74 percent growth rate. Over five years, Telecel fixed data subscriptions grew at a Compound Annual Growth Rate of 8.37 percent, from 67.09 thousand subscriptions in 2021 to 92.52 thousand in 2025.

MTN's fixed data subscriptions increased from 45.99 thousand in 2021 to 82.60 thousand in 2025, indicating a Compound Annual Growth Rate of 15.77 percent. It also rose by 96.47 percent from 42.04 thousand in 2024 to 82.60 thousand in 2025.

AT recorded 0.34 thousand fixed data subscriptions in 2025, up from 0.40 thousand in 2024, reflecting a negative 12.94 percent decline. However, AT's fixed data subscriptions declined from 0.65 thousand in 2021 to 0.34 thousand in 2025, with a negative

Compound Annual Growth Rate of 14.74 percent. The fixed data subscriptions per operator from 2021 to 2025 are shown in Table 24 and Figure 39.

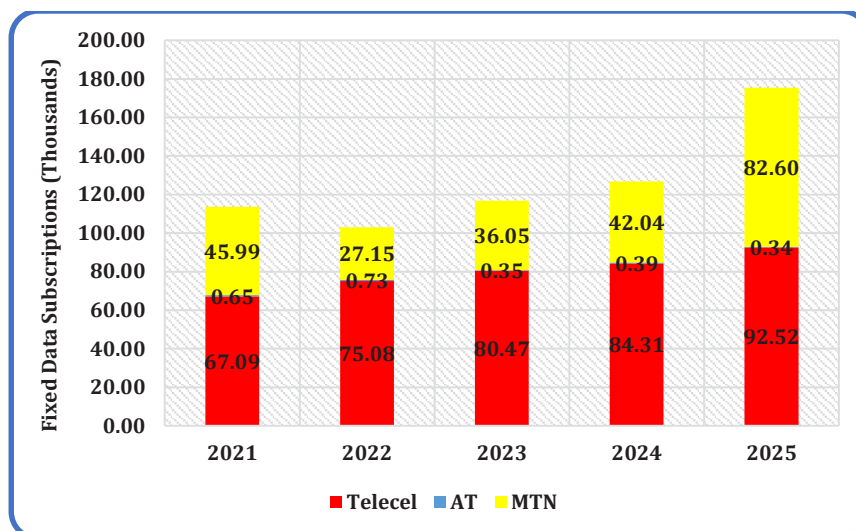


Figure 39: Fixed Data Subscriptions per Operator

2.8 Market Share (%) per Operator

Over the five years, Telecel's market share declined from 58.99 percent in 2021 to 52.73 percent in 2025. MTN fixed data subscriptions' market share increased from 40.44 percent in 2021 to 47.08 percent in 2025. AT's fixed data subscriptions accounted for 0.57 percent of the market share in 2021 and decreased to 0.20 percent in 2025. The market share of fixed data subscriptions from 2021 to 2025 is shown in Table 24 and Figure 40.

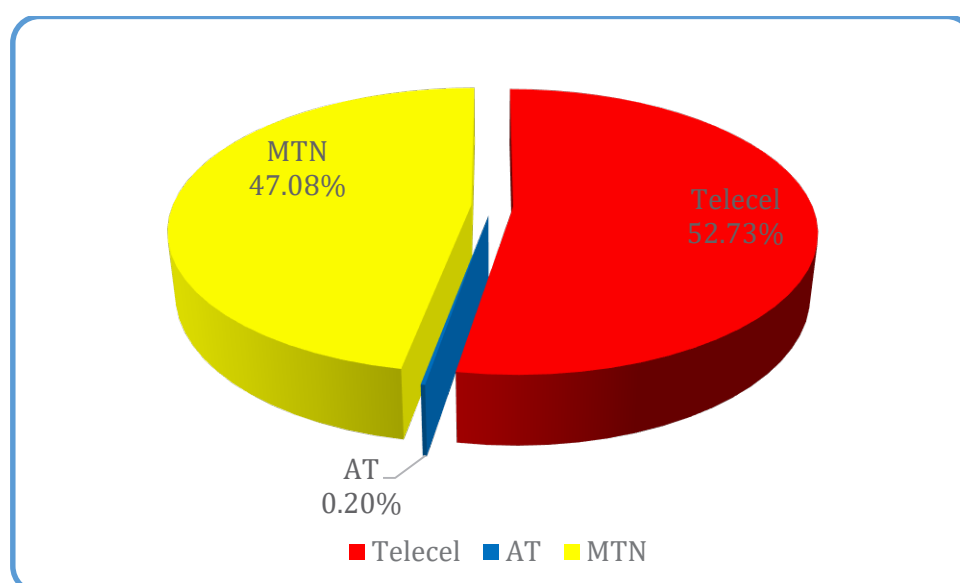


Figure 40: Market Share (%) of Fixed Data Subscriptions

Table 24: Fixed Data Subscriptions per Operator

Fixed Network Operator		2021	2022	2023	2024	2025
Telecel	Subscriptions	67,086	75,078	80,465	84,307	92,515
	Shares (%)	58.99	72.93	68.86	66.52	52.73
AT	Subscriptions	649	726	348	394	343
	Shares (%)	0.57	0.71	0.30	0.31	0.20
MTN	Subscriptions	45,987	27,148	36,047	42,041	82,600
	Shares (%)	40.44	26.37	30.85	33.17	47.08
Total Industry Subscriptions		113,722	102,952	116,860	126,742	175,458

Source: National Communications Authority, 2025

2.9 Fibre Broadband Subscriptions and Penetration Rate (%)

Fibre broadband subscriptions at the end of 2025 numbered 261.94 thousand, up from 221.15 thousand in 2024, reflecting an 18.44 percent growth. Since 2021, fibre broadband subscriptions have continually grown from 80.99 thousand to 261.94 thousand in 2025, with a Compound Annual Growth Rate of 34.10 percent.

The penetration rate for fibre broadband increased from 0.26 percent in 2021 to 0.78 percent in 2025. The fibre broadband subscriptions and penetration rates from 2021 to 2025 are shown in Table 25 and Figure 41.

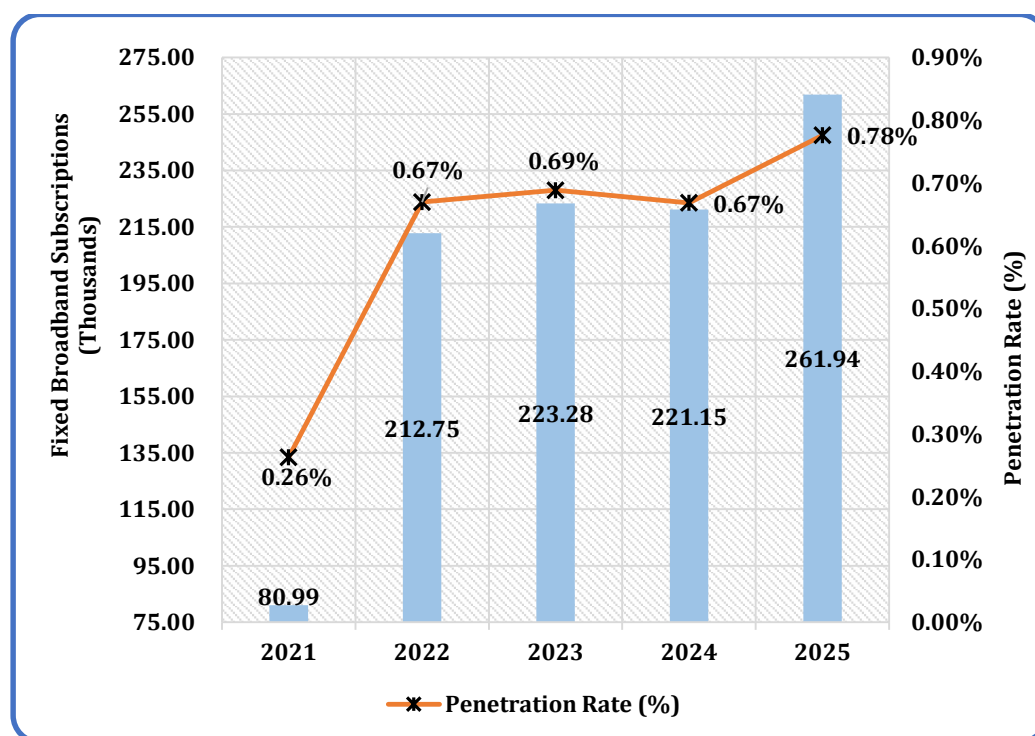


Figure 41: Fibre Broadband Subscriptions and Penetration Rate (%)

2.10 Fibre Broadband Subscription per Operator

MTN fibre broadband subscriptions rose from 16.53 thousand in 2021 to 144.97 thousand in 2023, then sharply increased to 171.86 thousand in 2025. MTN recorded 171.86 thousand subscriptions, representing 65.61 percent of the total fibre broadband subscriptions in 2025. Over the five years, Telecel subscriptions steadily grew from 6.46 thousand in 2021 to 90.08 thousand in 2025, accounting for 34.39 percent of the market share. The fibre broadband subscriptions per operator from 2021 to 2025 are shown in Table 25 and Figure 42.

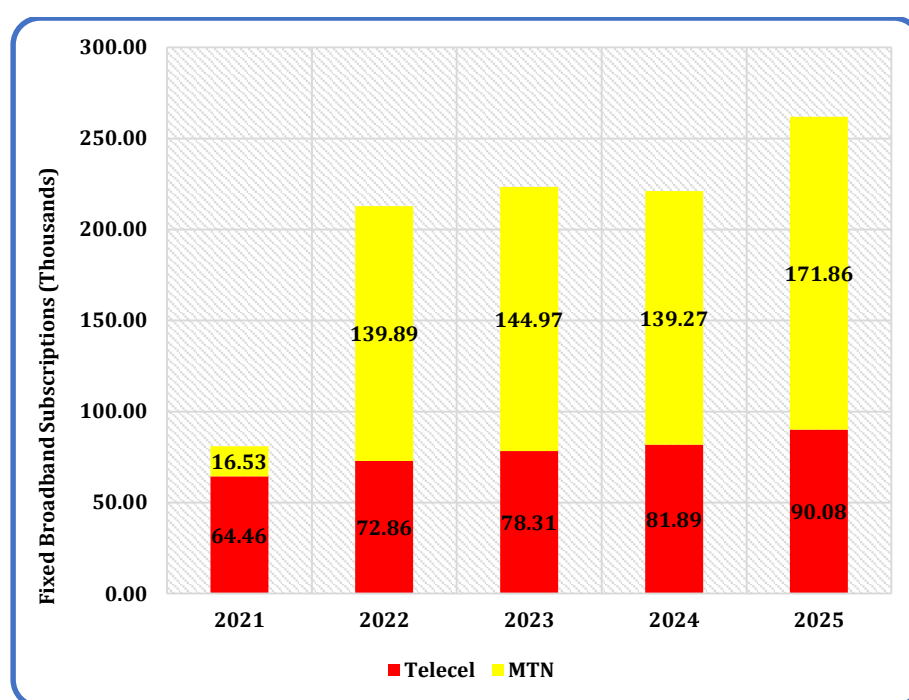


Figure 42: Fibre Broadband Subscriptions per Operator

Table 25: Fibre Broadband Subscriptions per Operator

Fibre Broadband Operator		2021	2022	2023	2024	2025
Telecel	Subscriptions	64,457	72,856	78,311	81,886	90,076
	Shares (%)	79.59	34.24	35.07	37.03	34.39
MTN	Subscriptions	16,533	139,894	144,967	139,267	171,862
	Shares (%)	20.41	65.76	64.93	62.97	65.61
Total		80,990	212,750	223,278	221,153	261,938

Source: National Communications Authority, 2025

2.11 Fibre Broadband Traffic⁸

Fibre broadband traffic continues to grow gradually from 425.25 million gigabytes in the previous year to 487.25 million gigabytes in the year under review by 14.58 percent. The volume of traffic rose by a Compound Annual Growth Rate of 20.31 percent, from 232.56 million gigabytes in 2021 to 487.25 million gigabytes in 2025. The fibre broadband traffic from 2021 to 2025 is shown in Figure 43.

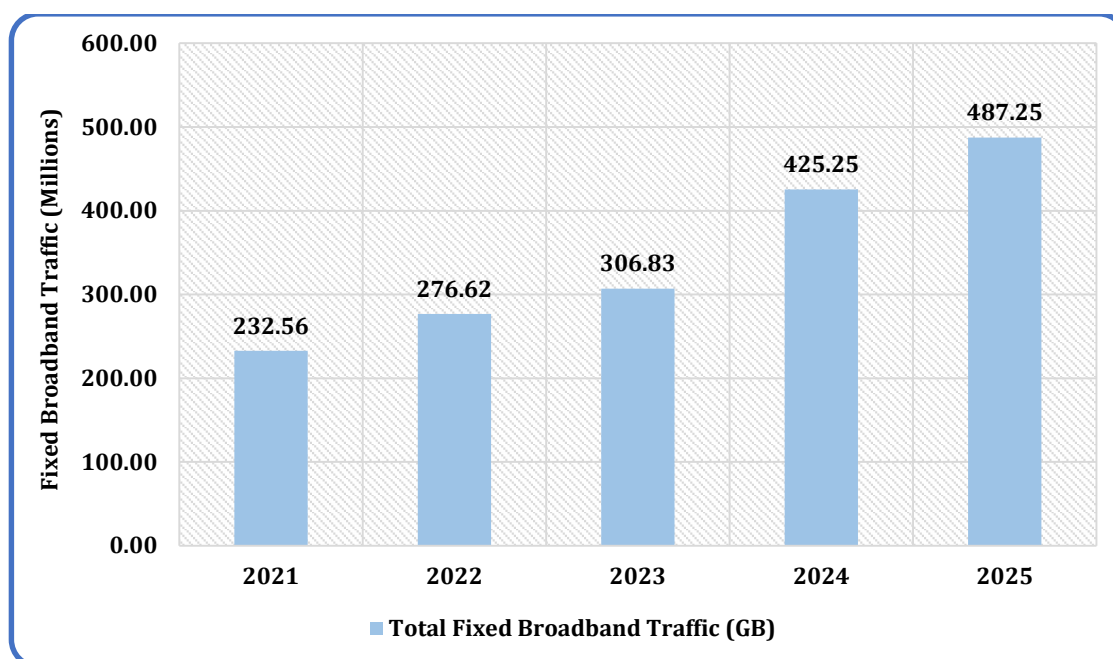


Figure 43: Fibre Broadband Traffic

2.12 Fibre Broadband Traffic market share

Telecel's share of fibre broadband traffic reduced from 51.92 percent in 2024 to 45.04 percent in 2025, while MTN's share of the fibre broadband traffic grew from 48.08 percent in the previous year to 54.96 percent in 2025. The fibre broadband traffic per operator in 2025 is shown in Figure 44.

⁸ This Fibre Broadband Traffic consists of that of MTN and Telecel

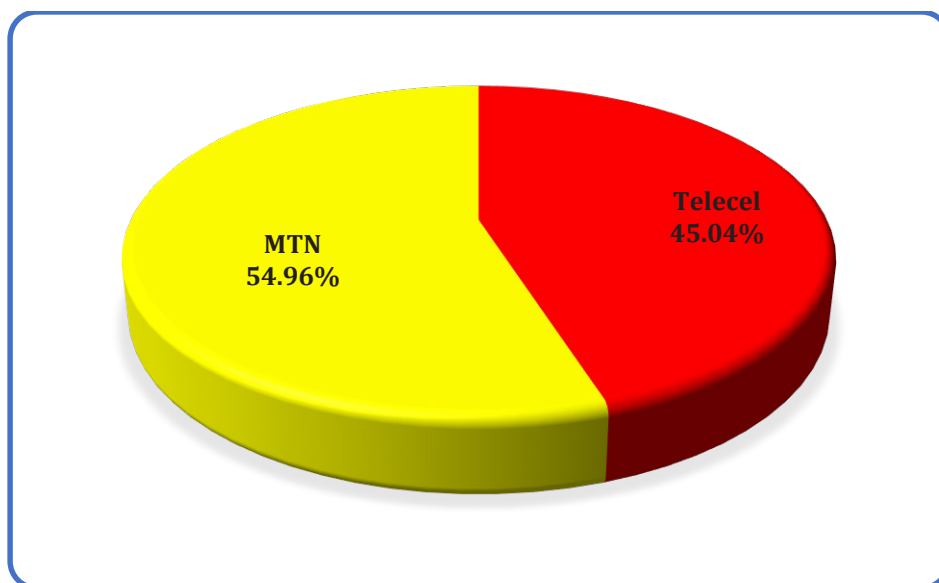


Figure 44: Fibre Broadband Traffic per Operator

Table 26: Fibre Broadband Traffic

Fibre Network Operator		2021	2022	2023	2024	2025
Telecel	Traffic	126,533,459	157,793,466	201,680,600	220,774,331	219,449,640
	Shares (%)	54.41	57.04	65.73	51.92	45.04
MTN	Traffic	106,031,417	118,824,426	105,153,657	204,479,640	267,799,540
	Shares (%)	45.59	42.96	34.27	48.08	54.96
Total Traffic (GB)		232,564,876	276,617,892	306,834,257	425,253,971	487,249,180

Source: National Communications Authority, 2025

2.13 Satellite Broadband Subscriptions

Space X Starlink Ghana limited (Starlink) and Eutelsat-OneWeb are currently the only Low Earth Orbit (LEO) satellite providers who have launched services in the country as at the end of 2025. This report provides data on Starlink only. Starlink recorded total satellite broadband subscriptions of 22.71 thousand representing a 195.04 percent increase from 7.70 thousand in 2024. The satellite broadband subscriptions from 2021 to 2025 are shown in Table 27**Table 25** and Figure 45.

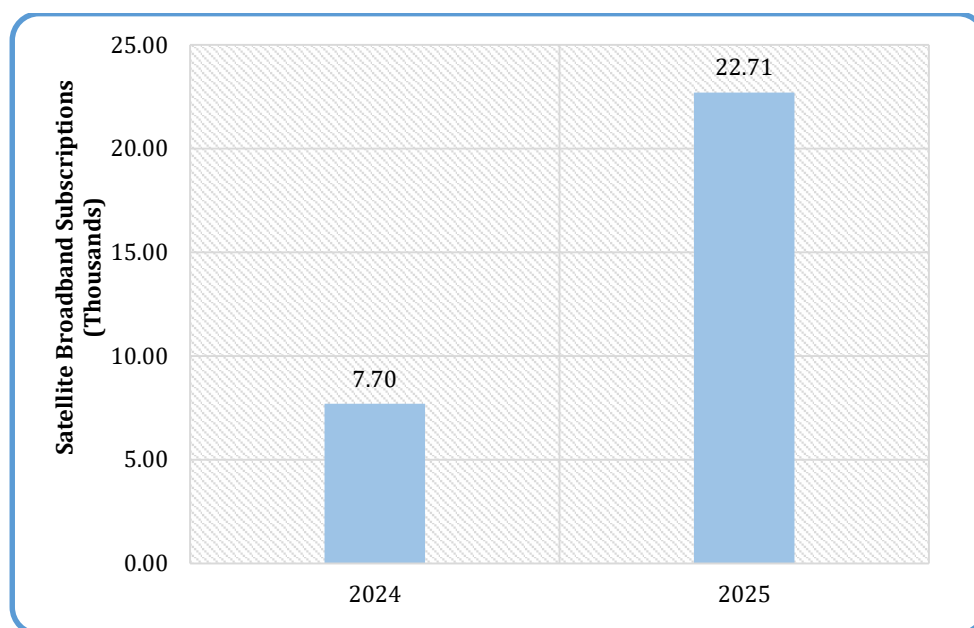


Figure 45: Starlink Total Subscriptions

2.13.1 Starlink Subscriptions per Price Plan

There were nine (9) different price plans available for Starlink subscribers in Ghana at the end of 2025, namely:

- i. Residential Lite Plan
- ii. Residential Plan
- iii. Priority Plan
- iv. Enterprise Plan
- v. Reseller
- vi. Roam Unlimited
- vii. Lite Roam
- viii. Global Roam
- ix. Mobile Priority

During the year under review, 11,536 subscriptions were on the Residential plan, with a market share of 50.81%. Enterprise Plan subscriptions were 558 at the end of 2025. Total subscriptions on Residential Lite Plan were 9,666, whilst 717 subscriptions were also on Priority Plan. The plan with the least number (5) of subscriptions was Mobile Priority Plan. The Starlink subscriptions in 2025 is shown Figure 46.

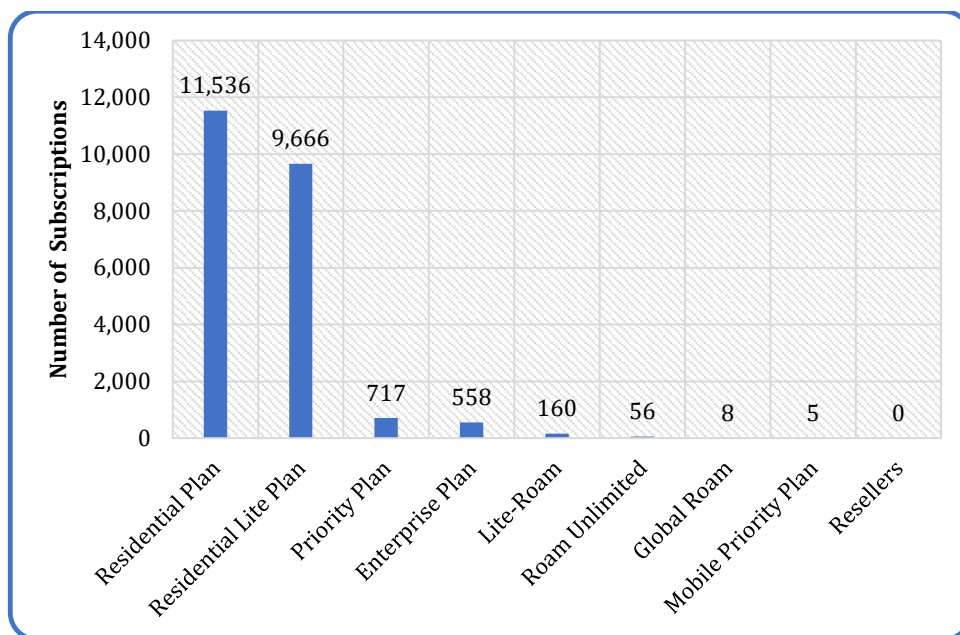


Figure 46: Starlink Subscriptions by Price Plan

Table 27: Starlink Subscriptions per Price Plan

Price Plan	2024	2025
Residential Lite Plan	1,204	9,666
Residential Plan	5,202	11,536
Priority Plan	363	717
Enterprise Plan	620	558
Roam Unlimited	193	56
Lite-Roam		160
Global Roam	88	8
Mobile Priority Plan	26	5
Total	7,696	22,706

Source: National Communications Authority, 2025

2.13.2 Starlink Subscriptions per Regions

Greater Accra recorded the highest subscriptions of 9,034 while North-East Region had 46 subscriptions in the year under review. Ashanti Region emerged as the region with the second highest subscriptions of 4,253. Western Region followed with a total subscription of 2,455. The regional distribution of Starlink Subscriptions is shown in Figure 47 and Table 28: Starlink Subscriptions per RegionTable 28.

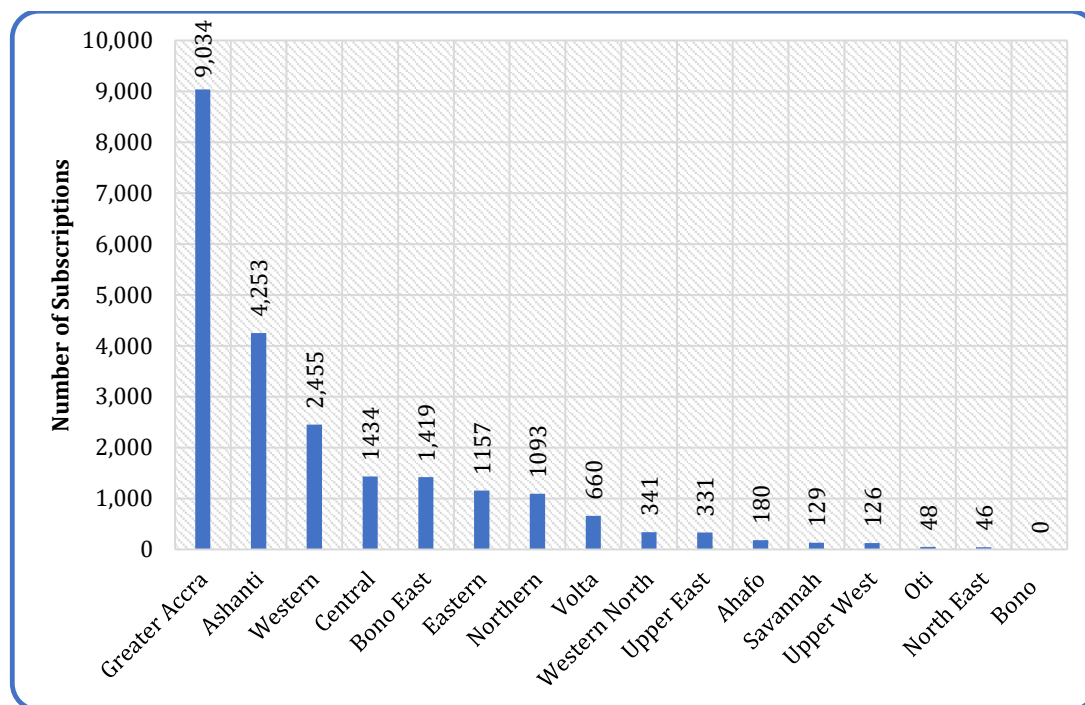


Figure 47: Regional Distribution of Starlink Subscriptions

Table 28: Starlink Subscriptions per Region

Region	2024	2025
Ahafo	46	180
Ashanti	1,575	4,253
Bono East	595	1,419
Bono	0	0
Central	456	1434
Eastern	389	1157
Greater Accra	2,995	9,034
North East	39	46
Northern	398	1093
Oti	18	48
Savannah	35	129
Upper East	96	331
Upper West	33	126
Volta	233	660
Western North	510	341
Western	278	2,455
Total	7,696	22,706

Source: National Communications Authority, 2025

2.14 Satellite Landing Right (Space Segment Operators)

The Authority has issued eight (8) satellite space segment operators with Satellite Landing Right Licences. Table 29 provides the list of all the licenced space segment operators in Ghana as at the end of 2025

Table 29: List of Satellite Landing Right Licencees

No.	Name of Company
1	Space Exploration Technologies Corp.
2	Eutelsat-Oneweb
3	Eutelsat-SA
4	Avanti Hylas 2 Limited
5	Kuiper Systems LLC (Amazon Leo)
6	AST & Science LLC
7	E-Space Inc.
8	Satelio IOT Services SL

Source: National Communications Authority, 2025



Broadband Wireless Access

CHAPTER THREE

BROADBAND WIRELESS ACCESS (BWA)

3.0 Introduction

At the end of 2025, Telesol remained the sole BWA licensed provider in Ghana. This chapter presents an analysis of subscriptions, penetration, and traffic volume generated.

3.1 BWA Subscriptions and Penetration Rate (%)

Broadband Wireless Access (BWA) subscriptions remained flat at 1,454 in 2025, showing no growth from the previous year. This stability at a very low level reflects a sharp long-term decline: subscriptions have fallen drastically from 50,714 in 2021 to just 1,454 in 2025. This represents a steep negative Compound Annual Growth Rate (CAGR) of 58.85%, indicating a sustained contraction in the BWA market.

Similarly, the penetration rate stayed extremely low at 0.004 percent in 2025, unchanged since 2023. Trends from 2021 to 2025 are presented in Table 30 and Figure 48.

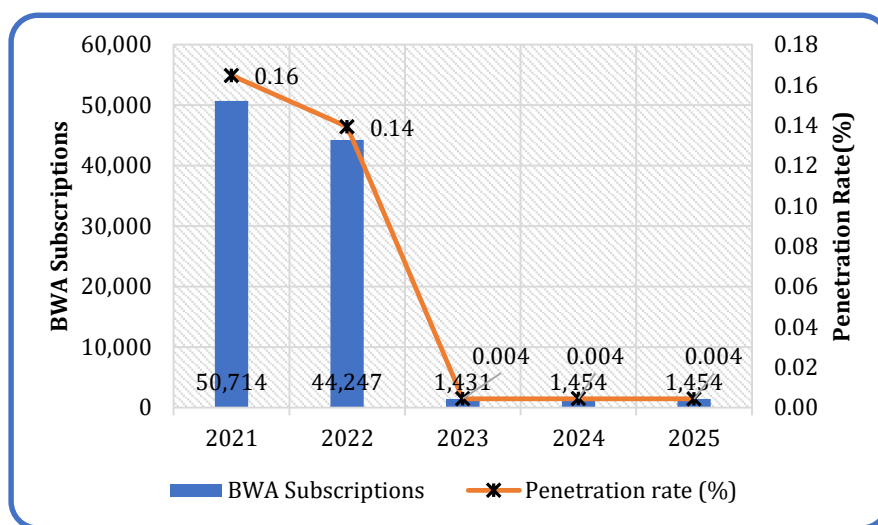


Figure 48: BWA Subscriptions and Penetration Rate

Table 30: BWA Subscriptions and Penetration Rate (%)

Subscriptions	2021	2022	2023	2024	2025
BWA	50,714	44,247	1,431	1,454	1,454
Growth rate (%)	-5.06%	-12.75%	-96.77%	1.61%	0.00%
Net Additions	-2,701	-6,467	-42,816	23	0
Population	30,792,608	31,769,363	32,429,591	33,089,819	33,750,047
Penetration rate (%)	0.16%	0.14%	0.0044%	0.004%	0.004%

Source: National Communications Authority, 2025

3.2 BWA Subscriptions per Operator

The year 2025 ended with Telesol's subscriptions at 1,454, same as the previous year. From 2021 to 2025, Telesol's subscriptions declined by a negative Compound Annual Growth Rate of 17.28 percent. The BWA Subscriptions per Operator from 2021 to 2025 are shown in Table 31 and Figure 49.

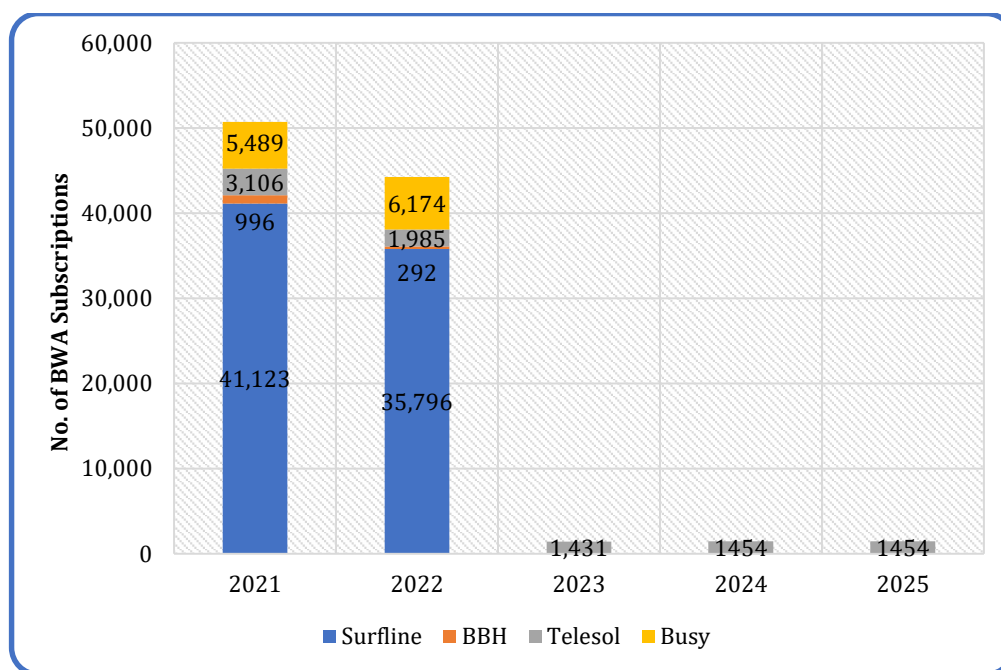


Figure 49: BWA Subscriptions per Operator

Table 31: BWA Subscriptions

BWA Operator		2021	2022	2023	2024	2025
Surflin	Subscriptions	41,123	35,796			
	Growth rate (%)	1.63	-12.95			
	Market Share (%)	81.09	80.90			
BBH	Subscriptions	996	292			
	Growth rate (%)	-5.68	-70.68			
	Market Share (%)	1.96	0.66			
Busy	Subscriptions	5,489	6,174			
	Growth rate (%)	-45.24	12.48			
	Market Share (%)	10.82	13.95			
Telesol	Subscriptions	3,106	1,985	1,431	1,454	1,454
	Growth rate (%)	79.54	-36.09	-27.91	1.61	0.00
	Market Share (%)	6.12	4.49	100.00	100.00	100.00
Total		50,714	44,247	1,431	1,454	1,454

Source: National Communications Authority, 2025

3.3 BWA Traffic in Gigabytes

Total data traffic generated by BWA at the end of 2025 was 498,804 gigabytes, indicating a decrease of 39.56 percent from 825,231 gigabytes in the previous year. The BWA traffic in gigabytes from 2021 to 2025 is shown in Table 32 and Figure 50.

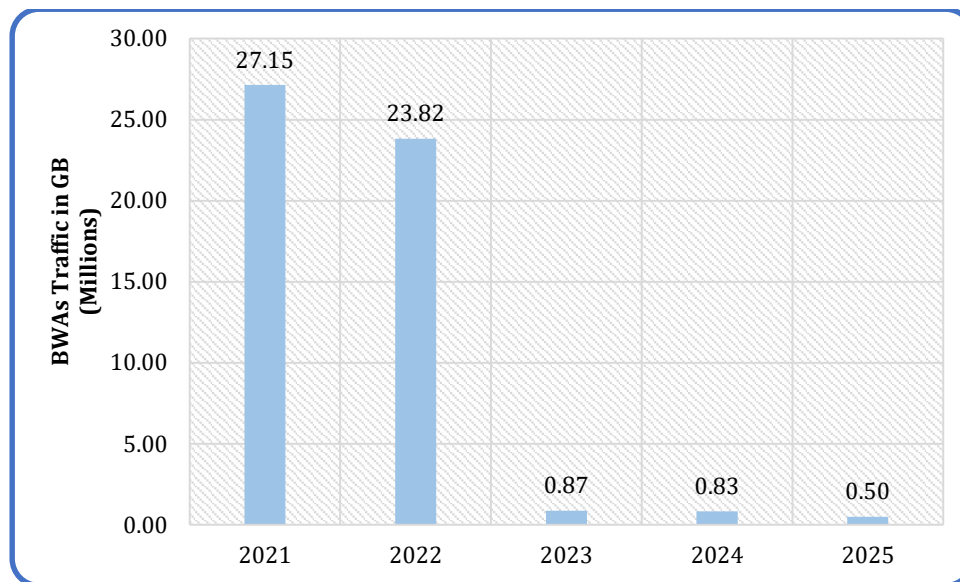


Figure 50: BWA Traffic in Gigabytes

3.4 BWA Traffic per Operator

Telesol generated 498,804 gigabytes of data traffic during the year under review, down from 825,231 gigabytes in 2024, indicating a 39.56 percent decline in growth. The BWA Traffic per Operator from 2020 to 2025 is shown in Table 32 and Figure 51.

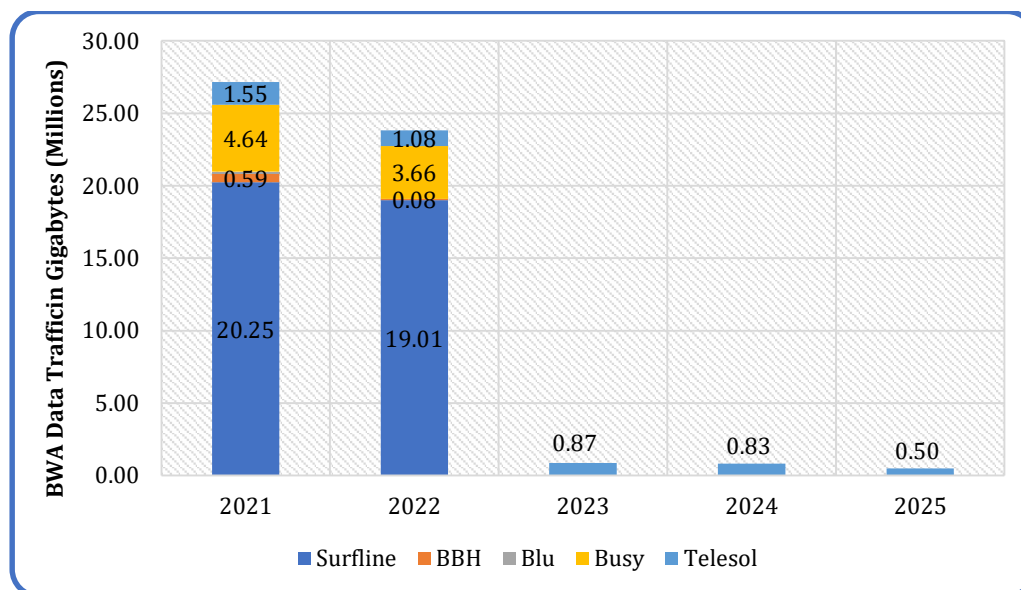


Figure 51: BWA Traffic per Operator

Table 32: BWA Traffic in Gigabytes per Operator

	2021	2022	2023	2024	2025
Surflin	20,247,645	19,005,586			
BBH	593,566	75,478			
Blu	118,983				
Busy	4,635,201	3,655,594			
Telesol	1,553,628	1,079,396	870,950	825,231	498,804
Total	27,149,023	23,816,054	870,950	825,231	498,804

Source: National Communications Authority, 2025

3.5 Internet Service Providers

By the end of 2025, the Authority had granted authorisation to 82 Internet Service Providers, up from 79 in the previous year. Over five years, it increased from 35 authorisations in 2021 to 82 in 2025, reflecting a 23.72 percent Compound Annual Growth Rate. The authorised Internet Service Providers from 2021 to 2025 are shown in Table 33 and Figure 52.

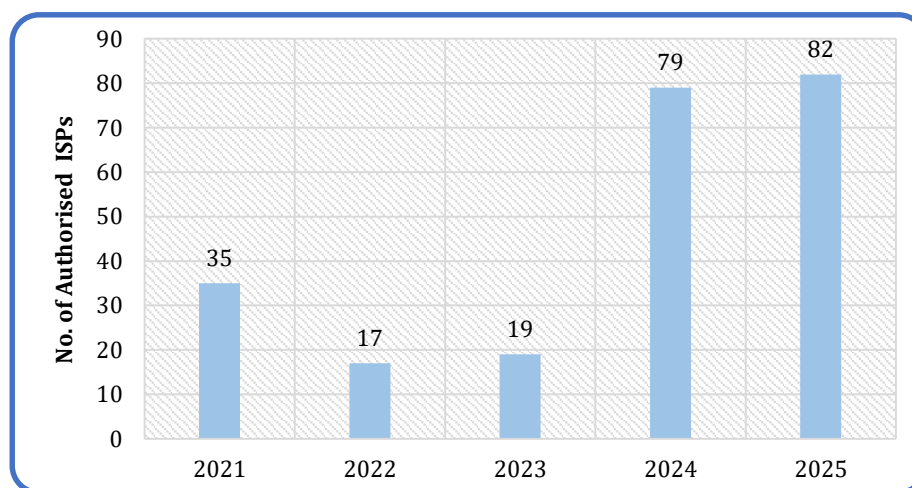


Figure 52: Authorised Internet Service Providers

Table 33: Internet Service Providers

Year	2021	2022	2023	2024	2025
Number of Authorised ISPs	35	17	19	79	82

Source: National Communications Authority, 2025

CHAPTER FOUR

BROADCASTING SERVICES

4.0 Introduction

In Ghana, broadcasting and radio communication services are provided across frequency modulation (FM), television (TV) broadcasting, amateur radio, maritime, Private land mobile and aeronautical radio services. This chapter presents an overview and analysis of these services in 2025.

4.1 Authorised Frequency Modulation (FM) stations

At the end of 2025, 784 FM stations had been authorised. A total of 563 FM stations (71.81%) were operational, while 221 stations were not in operation (28.19%).

4.2 Types of Authorised Frequency Modulation (FM) Stations

Of the authorised FM stations, 565 (72.07%) were Commercial FM stations, 159 (20.28%) were Community FM stations, 31 (3.95%) were public FM stations, 24 (3.11%) were campus FM stations, and 5 (0.64%) were Public (Foreign) FM stations. The types of authorised FM stations as of 2025 are shown in Table 34 and Figure 53.

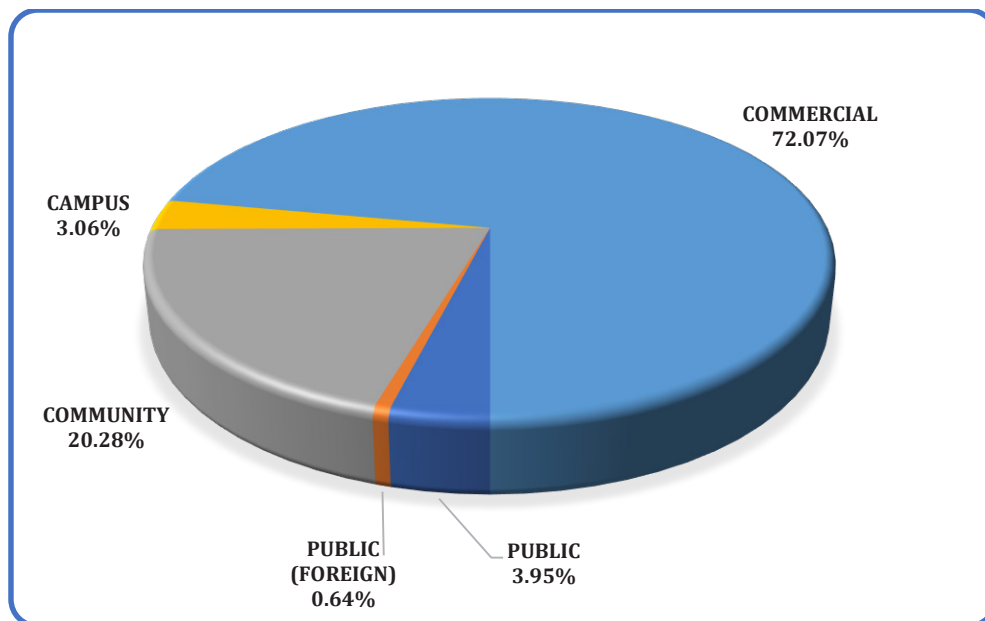


Figure 53: Types of Authorised FM Station

4.3 Regional Distribution of Authorised FM Stations

The Ashanti Region has the highest number of authorised FM stations, with 117 radio stations, while the North East has the fewest, with 13 authorised FM stations. The regional distribution of authorised FM stations as of the end of 2025 is shown in Table 34 and Figure 54.

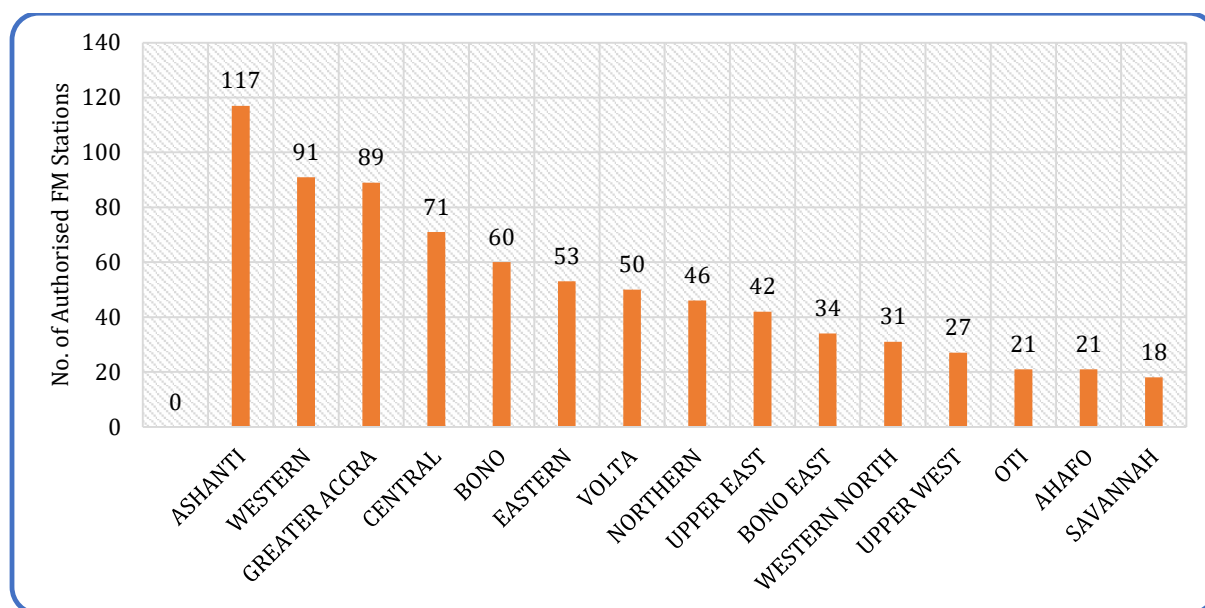


Figure 54: Regional Distribution of Authorised FM Stations

Table 34: Regional Distribution of Authorised FM in Ghana as at the end of 2025

NO.	NAME OF REGIONS	TOTAL NO. AUTHORISED	PUBLIC	PUBLIC (FOREIGN)	COMMUNITY	CAMPUS	COMMERCIAL	TOTAL NO. IN OPERATION	TOTAL NO. NOT IN OPERATION
1	ASHANTI	117	2	1	28	5	81	89	28
2	WESTERN	91	2	1	8	2	78	59	32
3	GREATER ACCRA	89	2	3	17	2	65	77	12
4	BONO	60	1	0	6	3	50	47	13
5	CENTRAL	71	2	0	19	4	46	51	20
6	EASTERN	53	2	0	22	1	28	37	16
7	NORTHERN	46	3	0	8	1	34	28	18
8	VOLTA	50	3	0	5	1	41	41	9
9	UPPER EAST	42	2	0	12	3	25	28	14
10	UPPER WEST	27	2	0	11	2	12	19	8
11	BONO EAST	34	2	0	6	0	26	27	7
12	WESTERN NORTH	31	3	0	0	0	28	16	15
13	AHAFO	21	0	0	4	0	17	13	8
14	NORTH EAST	13	1	0	3	0	9	7	6
15	OTI	21	1	0	4	0	16	13	8
16	SAVANNAH	18	3	0	6	0	9	11	7
TOTAL		784	31	5	159	24	565	563	221

Source: National Communications Authority, 2025

4.4 Authorised Television Broadcasting Platforms

In the year under review, there were 178 authorised television stations, of which 132 were operational (74.16 percent) and 46 were not operational (25.84 percent).

4.5 Types of Authorised Television Broadcasting Platforms

There are four (4) platforms through which TV signals are transmitted in Ghana: satellite, terrestrial, cable, and internet. Satellite television stations account for 63.48 percent of the authorised TV stations with 113 stations, while terrestrial stations make up 35.39 percent, with 63 stations. One television station has been authorised for cable and internet respectively, with each representing 0.56 percent of the market. The types of TV broadcasting platforms as of the end of 2025 are shown in Table 35 and Figure 55.

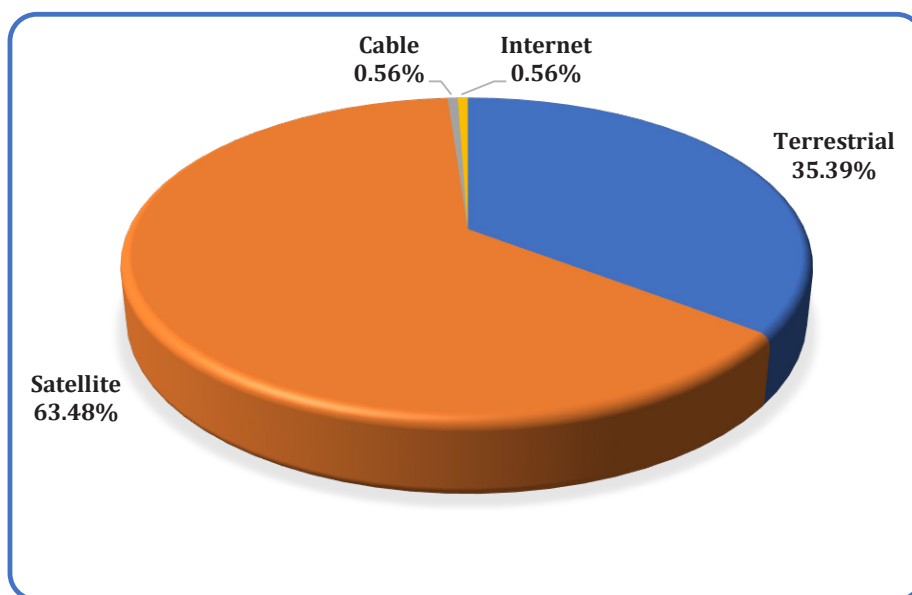


Figure 55: Types of TV Broadcasting Platforms

4.6 Categories of Television Services

The Authority authorised 14 categories of Television Services. The most authorised TV category is Satellite Television Broadcasting (Free-to-home direct-to-home single channel) with 101 TV stations. The categories of television services as of the end of 2025 are shown in Table 35 and Figure 56.

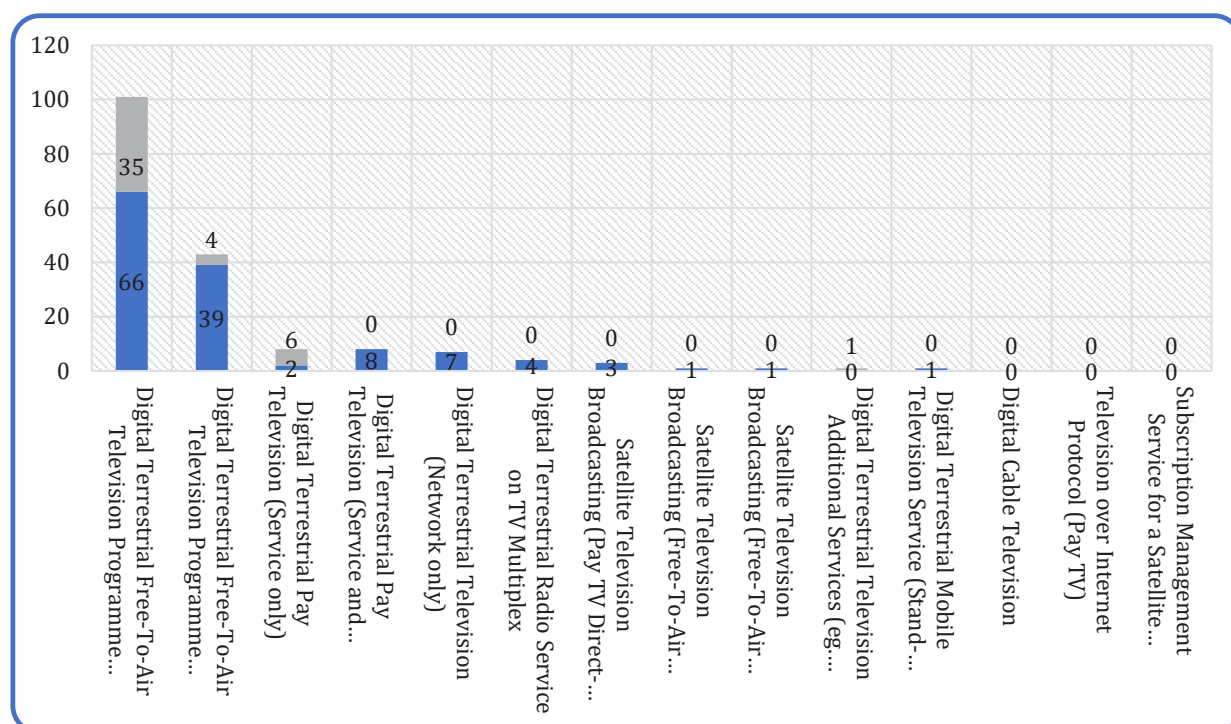


Figure 56: Categories of Television Services

Table 35: Categories of TV Stations as at the end of 2025

NO.	TV SERVICE	TOTAL NO. AUTHORISED	TOTAL NO. IN OPERATION	TOTAL NO. NOT IN OPERATION
1	Digital Terrestrial Pay Television (Service Only)	0	0	0
2	Digital Terrestrial Pay Television (Service & Network)	4	4	0
3	Digital Terrestrial Television (Network) Only	1	1	0
4	Digital Terrestrial Television Free-To-Air Programme Channel (Nationwide Coverage)	43	39	4
5	Digital Terrestrial Television Free-To-Air Programme Channel (Regional Coverage)	7	7	0
6	Digital Terrestrial Television Radio Service on TV Multiplex	8	2	6
7	Satellite Television Broadcasting (Free-To-Air Direct-To-Home Bouquet)	8	8	0
8	Satellite Television Broadcasting (Free-To-Air Direct-To-Home Single Channel)	101	66	35
9	Satellite Television Broadcasting (Pay TV Direct-To-Home Bouquet)	3	3	0
10	Digital Terrestrial Television Additional Services (E.g. Teletext)	0	0	0
11	Digital Terrestrial Mobile Television Service	0	0	0
12	Digital Cable Television	1	1	0
13	Television Over Internet Protocol	1	0	1
14	Subscription Management Service For Satellite Television Broadcasting (Pay TV Direct-To-Home Bouquet)	1	1	0
TOTAL		178	132	46

Source: National Communications Authority, 2025

4.7 Pay TV Services

There are five Pay TV services in Ghana as at the end of 2025: the stations are DStv, GOtv, StarTimes, Nour Vision (Fly TV) and Crystal TV. The report covers DStv, Nour Vision and GOtv. In the year under review, there were 278,300 subscriptions, out of which 93.40 percent were residential subscriptions and 6.60 percent were business subscriptions. The number of Pay TV subscriptions is shown in Table 36 and Figure 57.

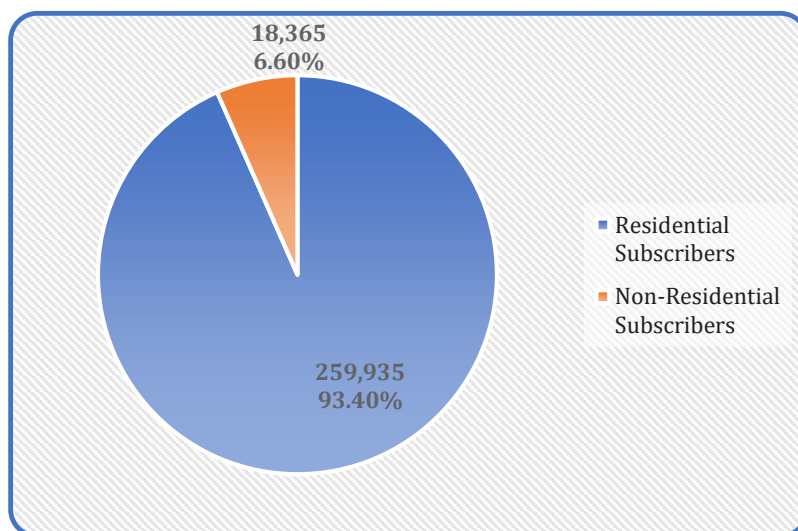


Figure 57 : Pay TV Subscriptions

Table 36: Pay TV Subscriptions

Type of Pay TV Subscriptions	2025
DStv	233,870.00
GOtv	44,230.00
Nour Vision	200.00
Total	278,300.00
Residential subscribers	259,935.00
Non-Residential subscribers	18,365.00

Source: National Communications Authority, 2025

4.8 Amateur Radio Services

At the end of the reference period, 44 amateur radio licences had been issued. Twenty-eight (28) of these were advanced stations, representing 63.64 percent; seven (7) licences were intermediate stations with a share of 15.91 percent; and nine (9) licences, representing 20.45 per cent, were for beginner stations.

From 2021 to 2025, the number of amateur radio licences increased from 41 to 44, with a Compound Annual Growth Rate of 1.78 percent. The total number of amateur radio licences is shown in Table 37 and Figure 58.

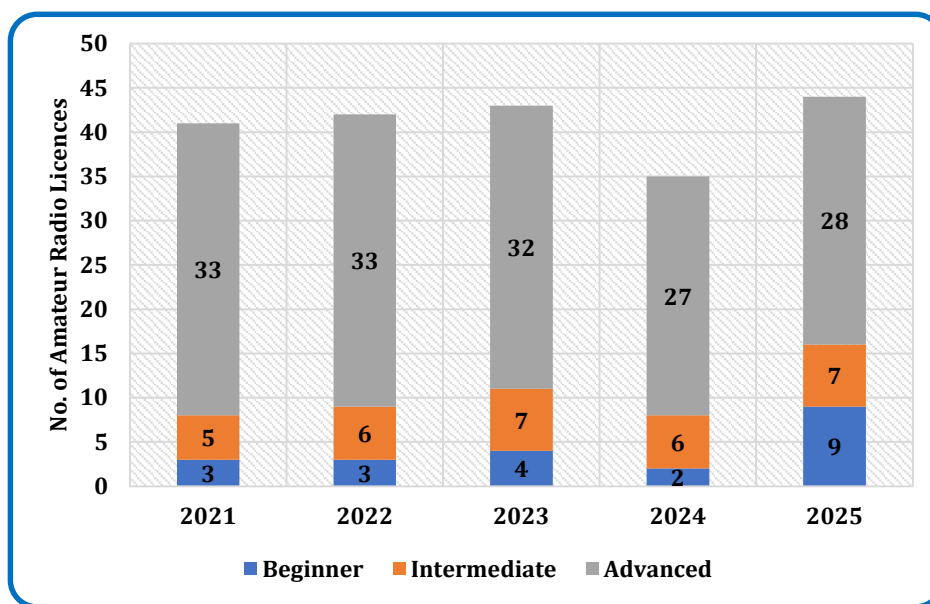


Figure 58: Total Number of Amateur Radio Licences

Table 37: Amateur Radio Services

Class Options	2021	2022	2023	2024	2025
Beginner	3	3	4	2	9
Intermediate	5	6	7	6	7
Advanced	33	33	32	27	28
Total	41	42	43	35	44

Source: National Communications Authority, 2025



Mobile Radio Service

CHAPTER FIVE

MOBILE RADIO SERVICE

5.1 Maritime Radio Service

By the end of 2025, the number of authorisations issued for maritime radio services fell to 17 from 50 in 2024, representing negative 66.00 percent growth rate. The Compound Annual Growth Rate over five years was negative 32.32 percent, down from 81 in 2021 to 17 in 2025. The total number of maritime licences from 2021 to 2025 is shown in Table 38 and Figure 59.

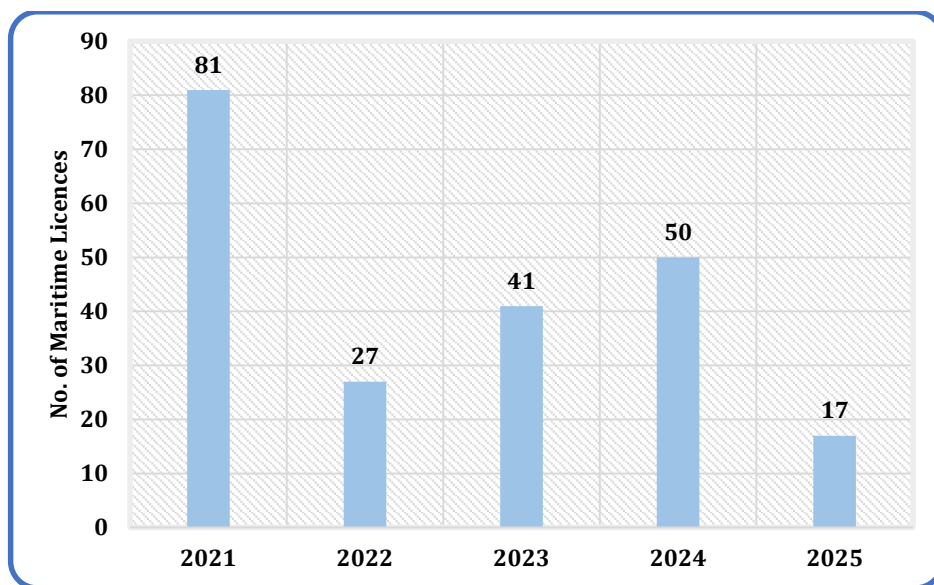


Figure 59: Total Number of Maritime Licences

Table 38: Maritime Services

Types/Classes of Authorisations	2021	2022	2023	2024	2025
Total number of Authorisations	81	27	41	50	17

Source: National Communications Authority, 2025

5.2 Aeronautical Radio Services

Thirteen (13) aircraft radio licences were issued in 2025. Over the five-year period, the number of issued aircraft radio licences declined from 21 in 2021 to 13 in 2025, representing negative 45.83 percent rate of decline. The total number of aircraft radio licences from 2021 to 2025 is shown in Table 39 and Figure 60.

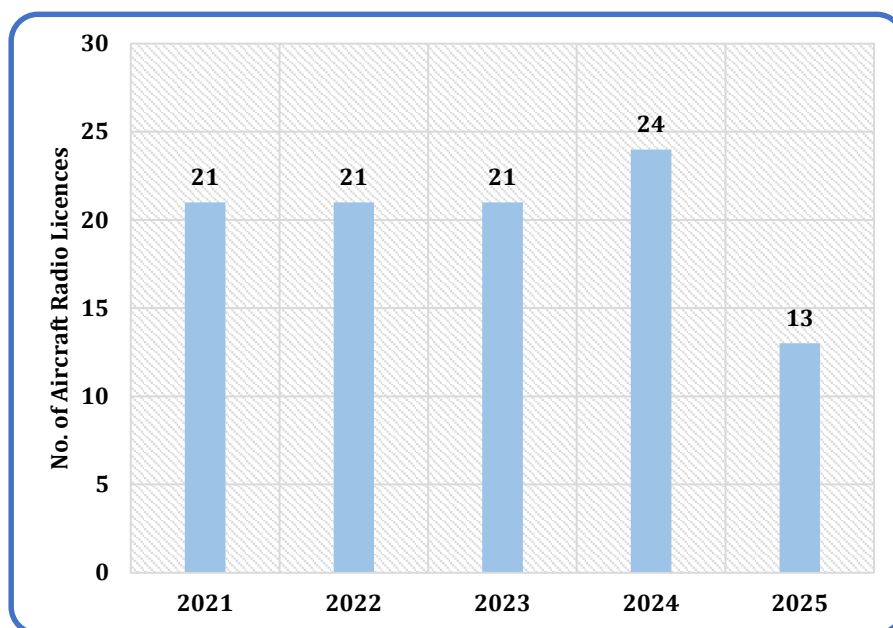


Figure 60: Total Number of Aircraft Radio Licences

Table 39: Aeronautical Services

Year	2021	2022	2023	2024	2025
Total number of Aircraft Radio Licences	21	21	21	24	13

Source: National Communications Authority, 2025

5.3 Private Land Mobile Radio

In 2025, the number of Private Land Mobile Radio licences increased from 114 in 2024 to 127. Over five years, trends show that licences for Private Land Mobile Radio fluctuated with a Compound Annual Growth Rate of 1.23 percent, from 121 licences in 2021 to 127 licences in 2025. The total number of private land mobile licences from 2021 to 2025 is shown in Table 40 and Figure 61.

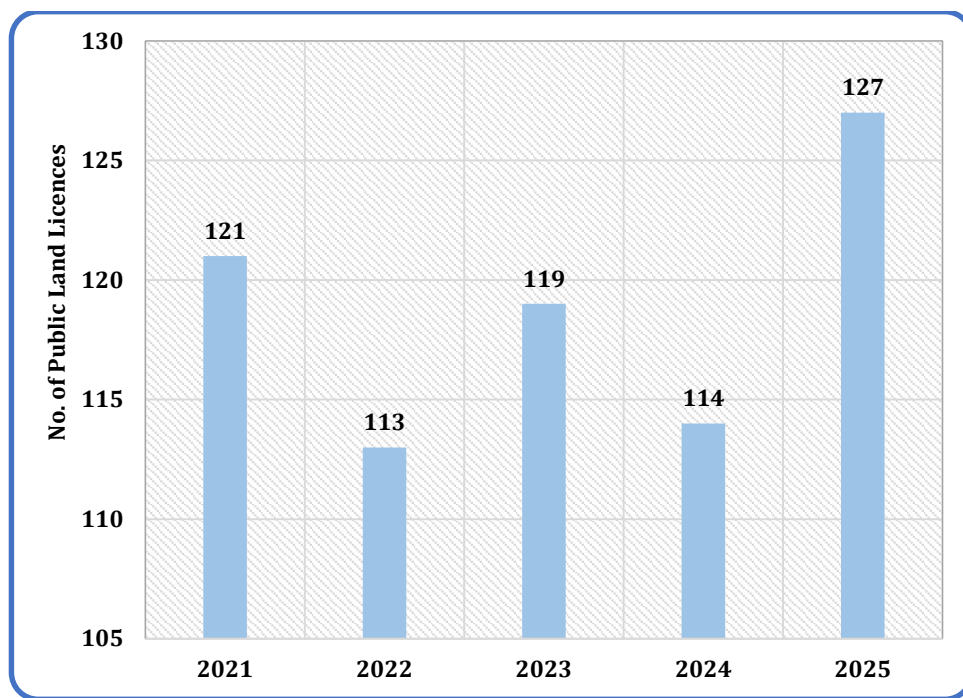


Figure 61: Total Number of Private Land Mobile Licences

Table 40: Private Land Mobile Licences

Licenses	2021	2022	2023	2024	2025
Total number of licenses	121	113	119	114	127

Source: National Communications Authority, 2025



Infrastructure Services

CHAPTER SIX

INFRASTRUCTURE SERVICES

6.0 Introduction

This chapter presents an overview of the infrastructure services provided by Tower Companies, International Submarine Operators, and Domestic Inland Fibre. It covers the total number of towers, tenancy ratios, regional distribution of towers, and the potential and utilised capacities of submarine and inland fibre operators.

6.1 Total Number of Towers

The total number of towers owned and managed by the Tower Companies stood at 4,584 down from 4,613 in 2024, representing a decline of 0.63 percent growth. Over the five years, the number of towers increased from 5,133 in 2021 to 5,310 in 2022 and then decreased to 4,602 in 2023 and increased by 11 eleven towers in 2024. It further decreased to 4,584, with a Compound Annual Growth Rate of negative 2.79 percent. The total number of towers from 2021 to 2025 is shown in Table 41 and Figure 62.

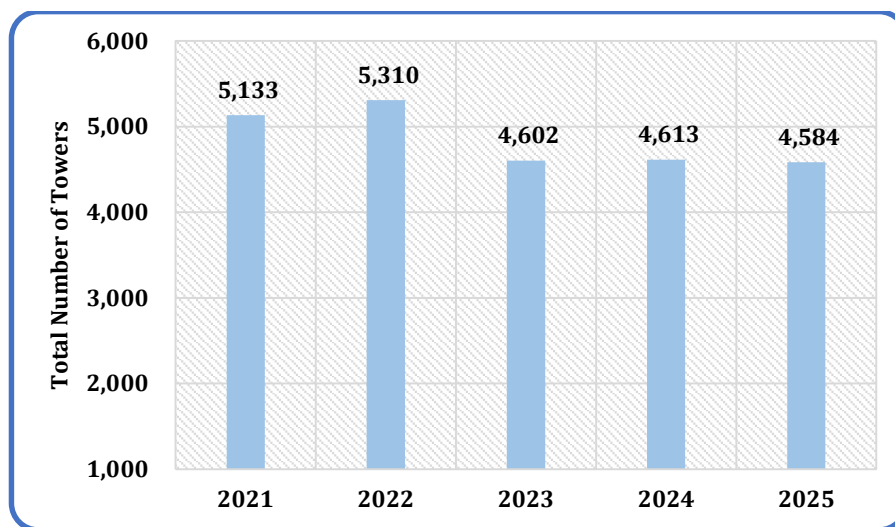


Figure 62: Total Number of Towers

6.2 Number of Towers by Tower Companies

American Tower Company managed 3,475 towers, a decrease of 1.11 percent from 3,514 towers in 2024. Helios Tower Company managed 1,116 towers in 2025, a 1.55 percent increase from 1,099. The total number of towers managed and owned by American Tower rose from 4,070 in 2021 to 4,196 in 2022 and then declined to 3,475 in 2025, resulting in a negative Compound Annual Growth Rate of 3.87 percent.

Over five years, Helios Tower Company's towers increased from 1,063 in 2021 to 1,114 in 2022, then declined to 1,079 in 2023. It then rose to 1,116 in 2025 with a Compound Annual Growth Rate of 1.22 percent. The market shares of tower companies from 2020 to 2025 are shown in Table 41 and Figure 63.

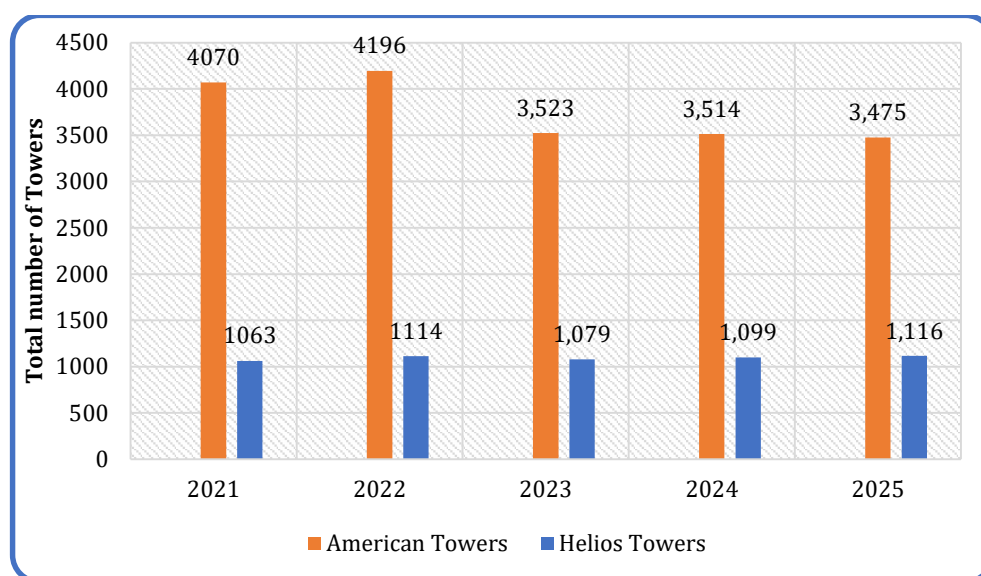


Figure 63: Market Shares of Tower Companies

Table 41: Total Number of Towers per Tower Company

Tower Company		2021	2022	2023	2024	2025
American Towers	Number of Towers	4,070	4,196	3,523	3,514	3,475
	Market Share (%)	79.3	79.0	76.6	76.20	75.81
Helios Towers	Number of Towers	1,063	1,114	1,079	1,099	1,116
	Market Share (%)	20.7	21.0	23.4	23.80	24.19
Industry Total		5,133	5,310	4,602	4,613	4,584

Source: National Communications Authority, 2025

6.3 Types of Towers

There are three different types of towers deployed in Ghana, namely: Greenfield, Rooftop, and Indoor network/mobile site towers. As at the end of 2025, 91.91 percent of the total towers were Greenfield, 7.29 percent were Rooftop towers, and 0.81 percent were Indoor network/mobile sites. The types of towers deployed from 2021 to 2025 are shown in Table 42 Table 42 and Figure 64.

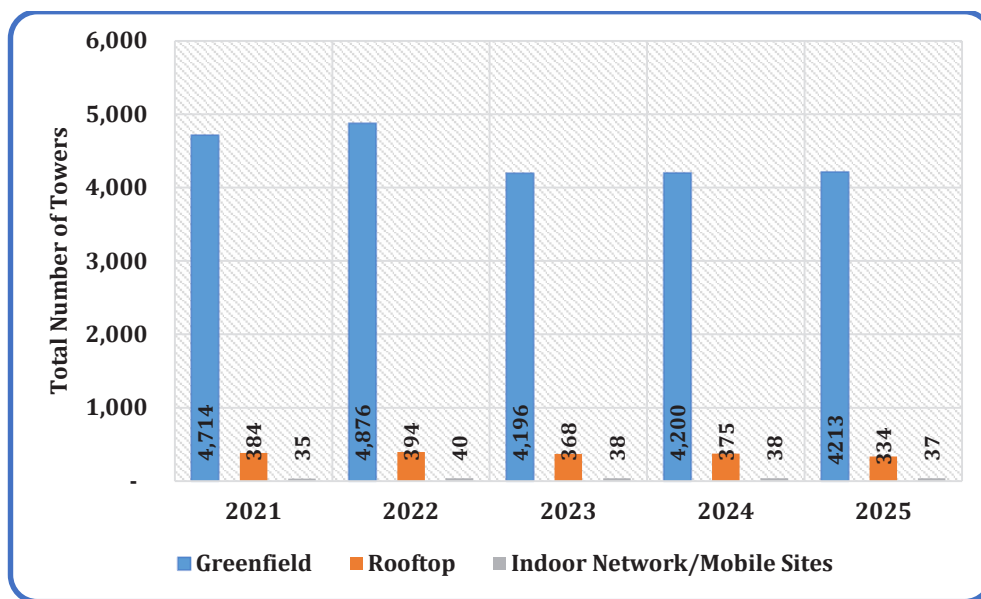


Figure 64: Types of Towers deployed

Table 42: Distribution of Towers by Type

TOWER	2021	2022	2023	2024	2025
Greenfield	4,714	4,876	4,196	4,200	4,213
Rooftop	384	394	368	375	334
Indoor/Mobile Sites	35	40	38	38	37
Total number of towers	5,133	5,310	4,602	4,613	4584

Source: National Communications Authority, 2025

6.4 Regional Distribution of Towers in Ghana

Most towers are located in the Greater Accra region (1,268 towers), mainly because this region is more densely populated than the others. The North East Region has the fewest, with 62 towers. The regional distribution of towers as at the end of 2025 is shown in Table 43 and Figure 65.

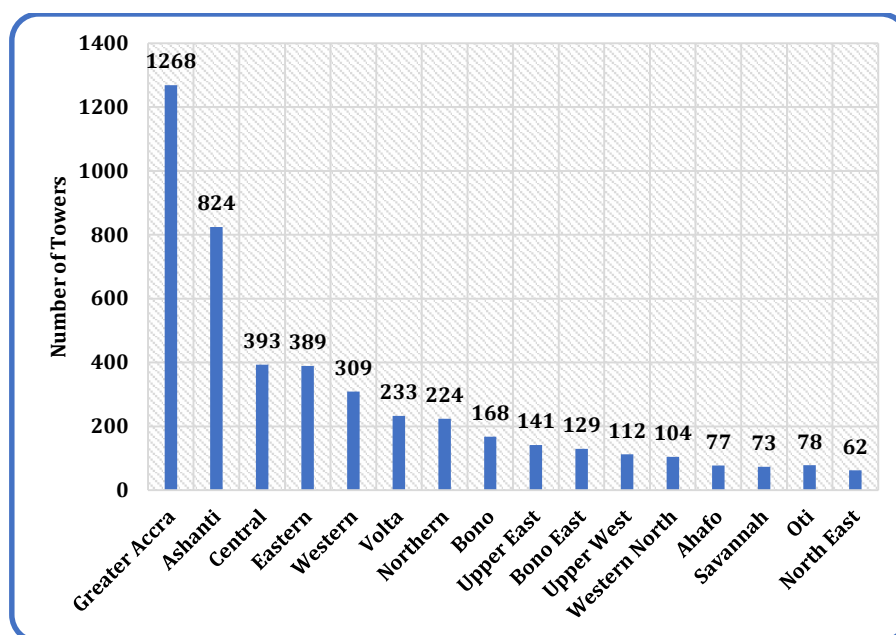


Figure 65: Regional Distribution of Towers

Table 43: Regional Distribution of Towers and Tenancy Ratio

Region	Number of Towers	Number of Tenants	Tenancy Ratio
Ahafo	77	115	1.49
Ashanti	824	1295	1.57
Bono	168	278	1.65
Bono East	129	196	1.52
Central	393	678	1.73
Eastern	389	595	1.53
Greater Accra	1268	2462	1.94
North East	62	92	1.48
Northern	224	337	1.50
Oti	78	107	1.37
Savannah	73	98	1.34
Upper East	141	193	1.37
Upper West	112	133	1.19
Volta	233	353	1.52
Western	309	447	1.45
Western North	104	161	1.55
Total	4584	7540	1.64

Source: National Communications Authority, 2025

6.5 Tenancy Ratio

The tenancy ratio rose from 1.60 in 2024 to 1.64 in 2025, representing a growth of 2.5 percent. Over five years, the tenancy ratio experienced a Compound Annual Growth Rate of negative 2.03 percent from 2021 to 2025. The tower tenancy ratio from 2021 to 2025 is shown in Table 44 and Figure 66.

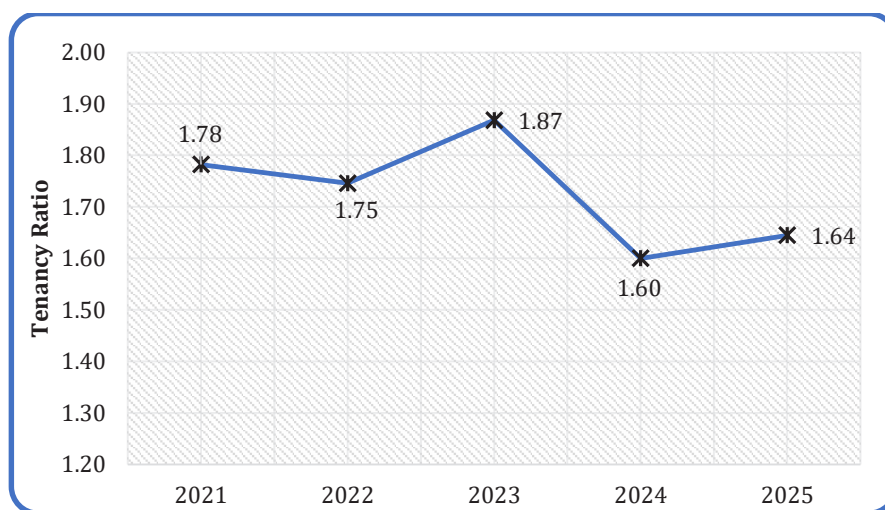


Figure 66: Tenancy Ratio

Table 44: Tenancy Ratio

Towers	2021	2022	2023	2024	2025
Total Number of Towers	5,133	5,310	4,602	4,613	4,584
Total Number of Tenants	9,148	9,270	8,597	7,381	7,540
Tenancy Ratio	1.78	1.75	1.87	1.60	1.64

Source: National Communications Authority, 2025

6.6 Submarine Cable Service

There were five (5) authorised Submarine Cable Landing operators in the country, namely: Scancom PLC (WACS), MainOne Cable Company Ltd (MainOne), ETG (Dolphin) Integrated Services Ltd, Telecel (formerly Vodafone) Ghana Ltd (SAT 3), and Glo-1 Mobile Ghana Ltd. However, the report covers data from three out of five service providers: Scancom PLC (WACS), Telecel (SAT3) and Dolphin Integrated Services Ltd.

6.7 Total Submarine Capacity Available in Gbps

The total capacity available in 2025 was 9,606.00 Gbps, an increase from 8,525.00 Gbps in 2024, representing a rise in growth by 12.67percent. WACS reduced its capacity available from 3,620.00 Gbps to 3,500 Gbps.

Over the five-year period, submarine capacity steadily increased from 2,905.00 Gbps in 2021 to 9,606.00 Gbps in 2025, with a Compound Annual Growth Rate of 27.02 percent. The total capacity in use also increased from 1,105.29 Gbps in 2021 to 4,356.64 Gbps in 2025, with a Compound Annual Growth Rate of 31.62 percent for the available capacity used. The total submarine capacity from 2021 to 2025 is shown in

Table 45 and Figure 67.

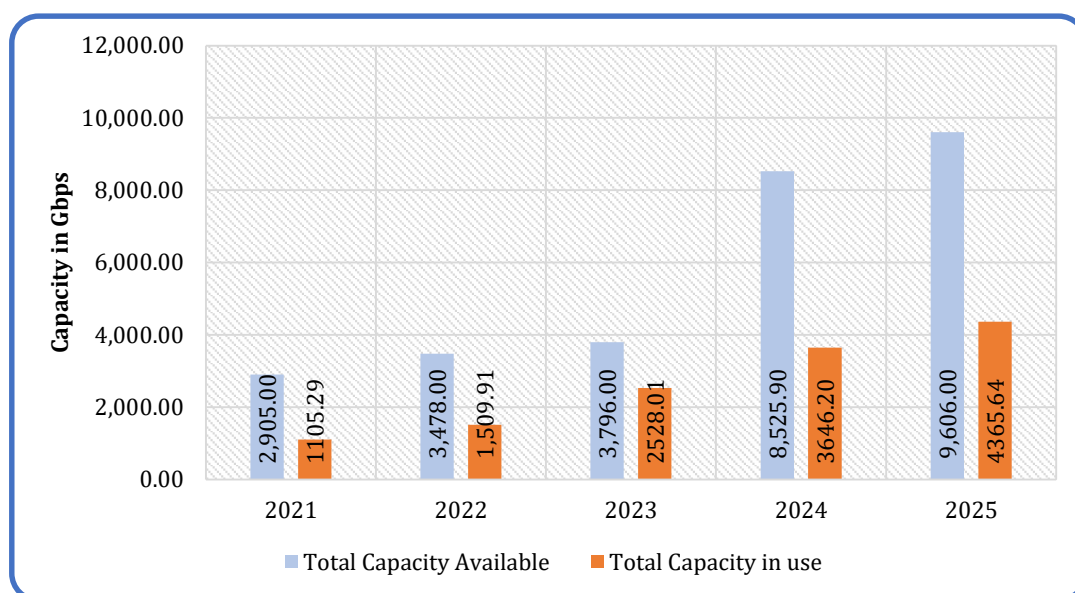


Figure 67: Total Submarine Capacity Available and in Use

Table 45: Total Submarine Capacity Available (Gbps)

Total Capacity Available (Gbps)	2021	2022	2023	2024	2025
SAT 3	95.00	168.00	196.00		196.00
WACS	1,580.00	1,580.00	1580.00	3,620.00	3500.00
MainOne	470.00	970 .00	1300.00	4,600.00	4,600.00
ETG (Dolphine)	720.00	720 .00	720.00	305.90	1,310.00
GLO-1	40.00	40 .00			
Total	2,905.00	3,478 .00	3,796.00	8,525.90	9,606.00

Source: National Communications Authority, 2025

6.8 Share of Submarine Capacity in Use in Gbps

In 2025, MainOne utilises 49.80 percent of the total capacity in use. This is followed by WACS with 38.08 percent, ETG (Dolphine) with 9.21 percent and WASC with 2.91 percent. The proportion of submarine capacity in use at the end of 2025 is shown in Table 46 and Figure 68.

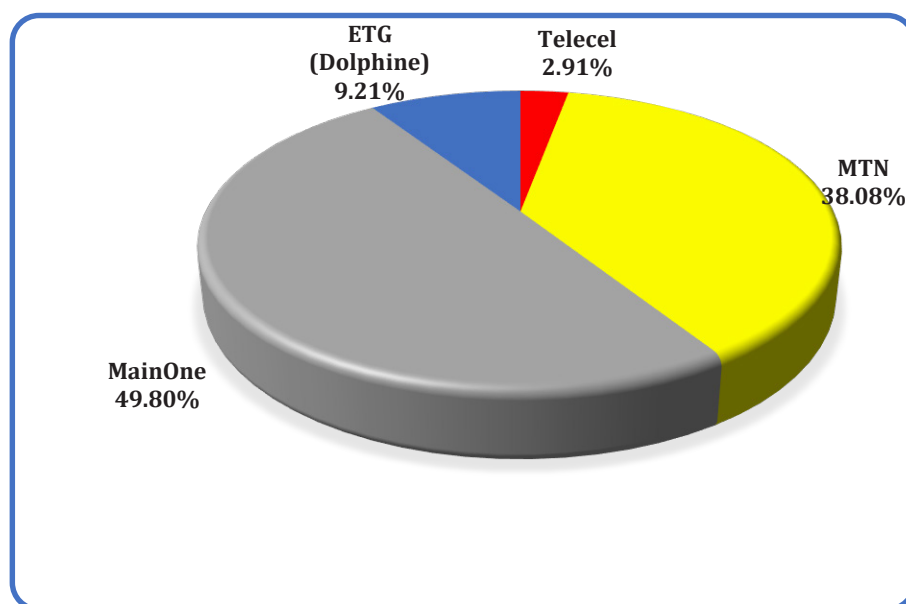


Figure 68: Share of Submarine Capacity in Use

Table 46: Total Submarine Capacity in Use (Gbps)

Total Capacity in Use (Gbps)	2021	2022	2023	2024	2025
SAT 3	55	125.00	144.00		127
WACS	561.3	624.60	1,111.70	1,449.27	1,662.46
MainOne	360	398.00	840.00	1,850	2,173.95
ETG (Dolphine)	98.99	332.31	432.31	346.93	402.23
GLO-1	30.00	30.00			
Total	1,105.29	1,509.91	2,528.01	3,646.20	4,365.64

Source: National Communications Authority, 2025

6.9 Domestic Inland Fibre Optics⁹

The companies authorised include Scancom PLC (MTN), MainOne Cable Company Ltd., Ghana Telecommunications Limited (Telecel), C-Squared Ghana Ltd, Comsys Ghana

⁹ In 2024, the data on Domestic Fibre covered three companies, that is MainOne, C Squared Ghana Ltd and Scancom Ltd.

Limited (Comsys), PPL Net (AT), Ghana Grid Company, NITA, Spectrum Fibre Co. and Vobiss Ghana.

The data in this section covers six (6) out of the ten (10) Domestic Inland Fibre operators: MainOne, Scancom PLC (MTN), C-Squared Ghana Ltd, Comsys, AT and Ghana Telecommunications Company Limited.

6.10 Total Domestic Fibre Capacity Available in Gbps

Total capacity available as at the end of 2025 was 104,841.46 Gbps, out of which 75,254.29 Gbps was used, representing 71.78 percent of the available capacity. The domestic fibre capacity available and in use is shown in Table 47 and Figure 69.

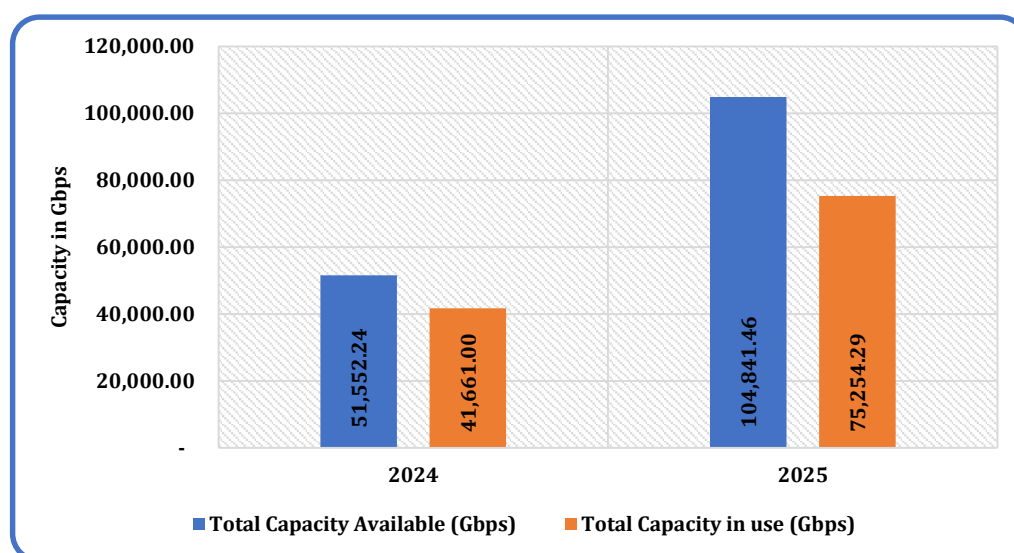


Figure 69: Domestic Fibre Capacity Available and in Use

Table 47: Total Terrestrial Fibre Capacity Available (Gbps)

Total Capacity Available (Gbps)	2022	2023	2024	2025
Comsys	8.00	10.00		700.00
Spectrum Fibre Co.	200.00	200.00		
MainOne	970.00	1300.00	4,600.00	4,600.00
C Squared Ghana Ltd	300.00	300.00	330.00	385.00
Scancom PLC			46,622.00	91,352.70
AT				26.50
Ghana Telecommunications Company Limited				7,777.26
Total	1,478.00	1,810.00	51,552.00	104,841.46

Source: National Communications Authority, 2025

6.11 Share of Inland Fibre Capacity in Use in Gbps

Scancom (MTN) PLC used 67.27 percent of the available capacity in use, followed by MainOne with 8.92 percent and C Squared Ghana Ltd with 0.64. The share of inland fibre capacity in use as at the end of 2025 is shown in Table 48 and Figure 70.

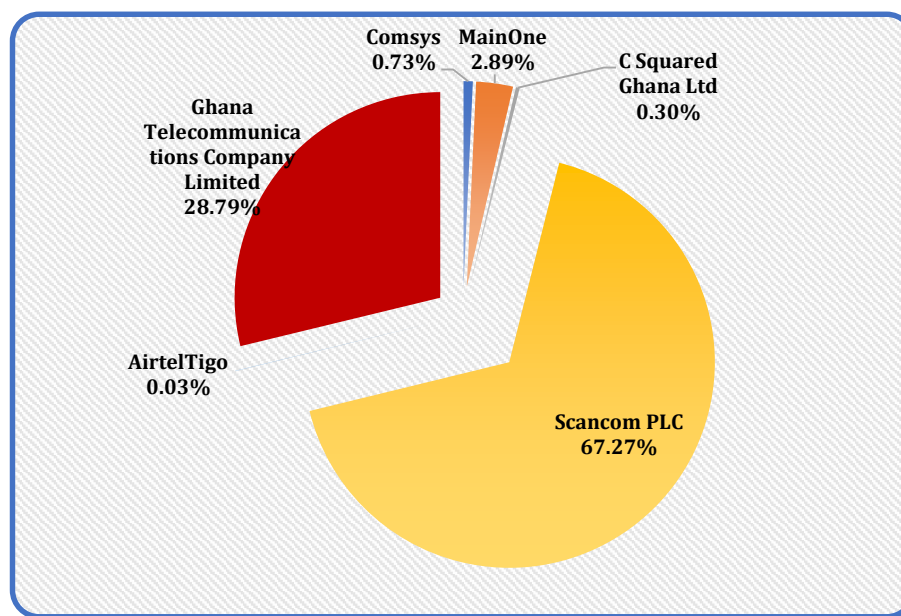


Figure 70: Share of Inland Fibre Capacity in Use

Table 48: Total Terrestrial Fibre Capacity in Use (Gbps)

Total Capacity in use (Gbps)	2022	2023	2024	2025
Comsys	6.30	8.00		546.97
Spectrum Fibre Co.	5.50	61.70		
MainOne	398.00	840.00	1,850.00	2,173.95
C Squared Ghana Ltd	409.80	158.15	203.00	225
Scancom PLC			39,608.23	50,622.41
AT				23.5
Ghana Telecommunications Company Limited				21,662.46
Total	819.59	1067.85	41,661.23	75,254.29

Source: National Communications Authority, 2025

6.12 Total Length of Fibre run

As at the end of 2025, the total length of fibre run was 23,550.31km, with 19,444.01 run underground (82.6%) and 4,106.31 (17.4%) run aerially. The total length of fibre is shown in Table 49.

Table 49: Total length of Fibre Run in km

Total Length of Fibre run in km	2025	
	Underground	Aerial
Comsys	2,250.62	0
AT	1396	0
Ghana Telecommunications Company Limited	6,871.55	2,698.81
SCANCOM PLC	7,309.84	1,093
MainOne	46	0
C Squared Ghana Ltd	1,570	314.5
Total	19,444.01	4,106.31

Source: National Communications Authority, 2025

6.13 Fibre Cuts in 2025

The total fibre cuts in 2025 were summed to 8,023. The operators most affected were Ghana Telecommunications Company Ltd and Scancom PLC, with approximately 3,971 and 3,087 cuts respectively. These fibre cuts are mainly caused by road construction, private developers, illegal mining activities, cable theft, vandalism, and other factors. The terrestrial fibre cuts from 2023 to 2025 are shown in Table 50.

Table 50: Terrestrial Fibre Cuts

Fibre Cuts	2023	2024	2025
Comsys	62		97
Spectrum Fiber Co.	530		
MainOne	31	19	17
C Squared Ghana Ltd	128	25	320
Scancom PLC		1,614	3087
AT			531
Ghana Telecommunications Company Limited			3971
Total	751	1,658	8,023

Source: National Communications Authority, 2025



Other Services

CHAPTER SEVEN

OTHER SERVICES

7.1 Type Approval

In the year under review, 400 type approval certificates were issued, representing a negative 17.01 percent drop from the 482 certificates issued in 2024. Type approval certificates issued between 2021 and 2025 are shown in Table 51 and Figure 71.

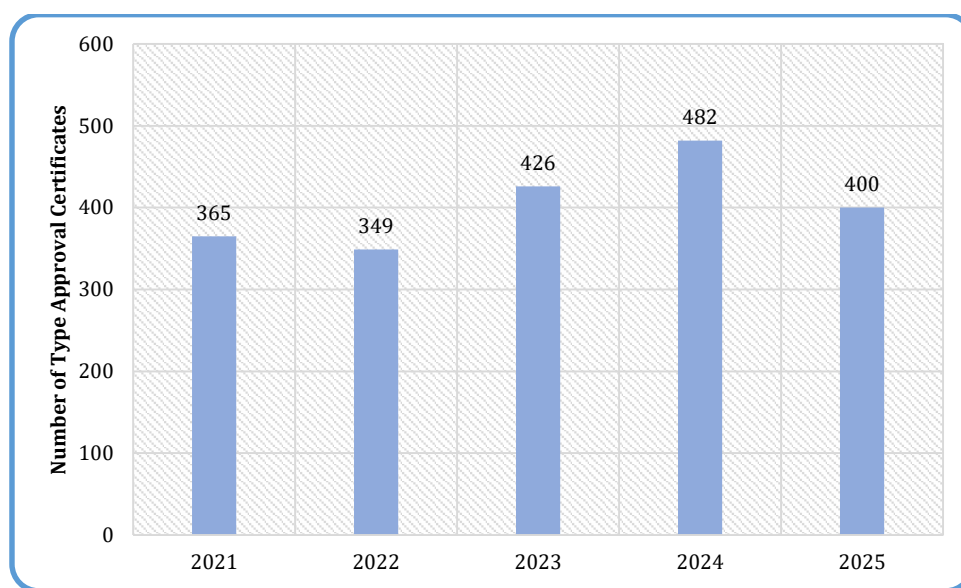


Figure 71: Type Approval Certificates

Table 51: Type Approval Certificates

Year	2021	2022	2023	2024	2025
Number of Type Approval certificates	365	349	426	482	400

Source: National Communications Authority, 2025

7.2 Numbering Resources

The Authority regulates and authorises two Telephony Numbering Resources: the Normal Numbering Resource and the Special Numbering Resource.

At the end of 2025, 133,215,000 numbering resources had been assigned to various service providers. The normal numbering resources assigned as of the end of 2025 are shown in Table 52 and Figure 72.

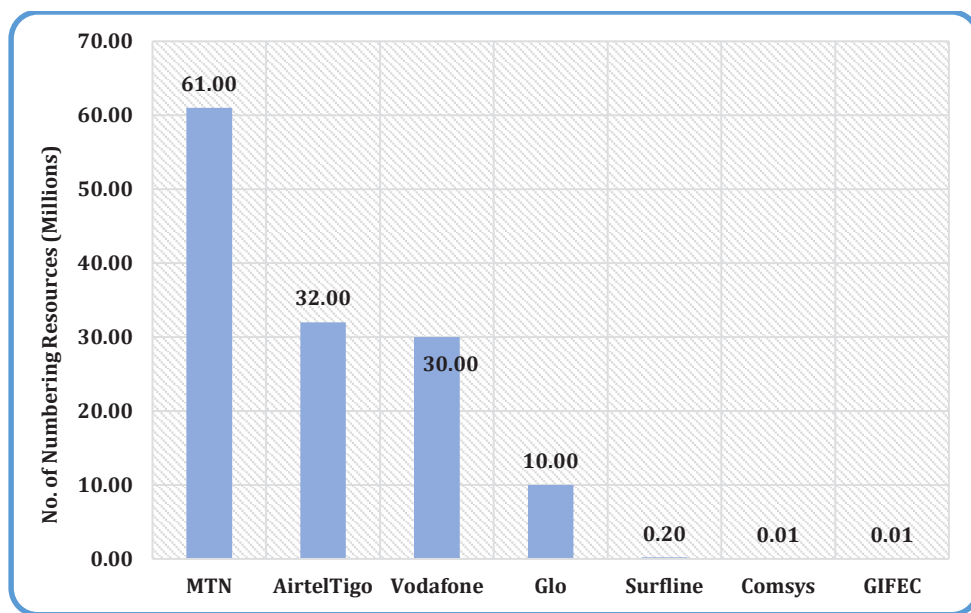


Figure 72: Normal Numbering Resources

7.3 Special Numbering Resources Assigned

In 2025, 1,236 numbers were Toll Free, accounting for 75.23 percent of the special numbers issued. The total number of Short Codes were 404 (24.5%), and Premium Numbers were 3, representing 0.18 percent. The special numbering resources assigned as of the end of 2025 are detailed in Table 52 and Figure 73.

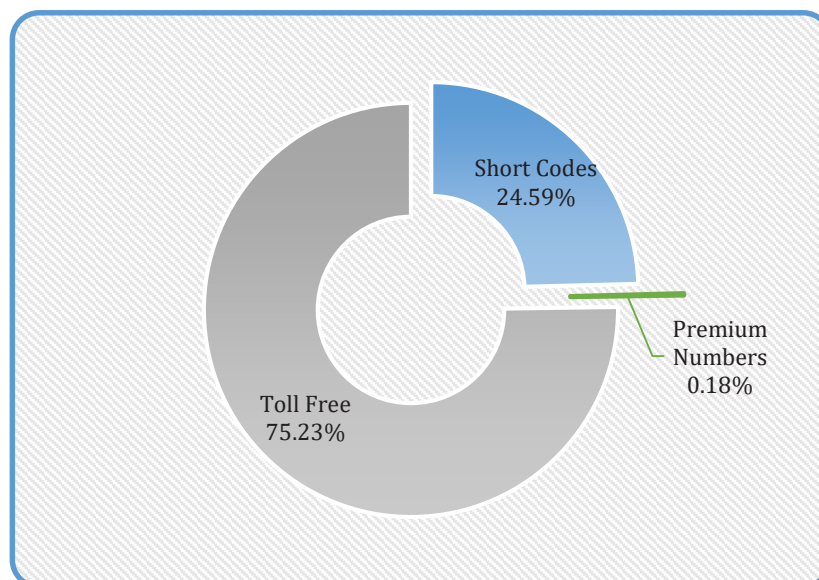


Figure 73: Special Numbering Resources

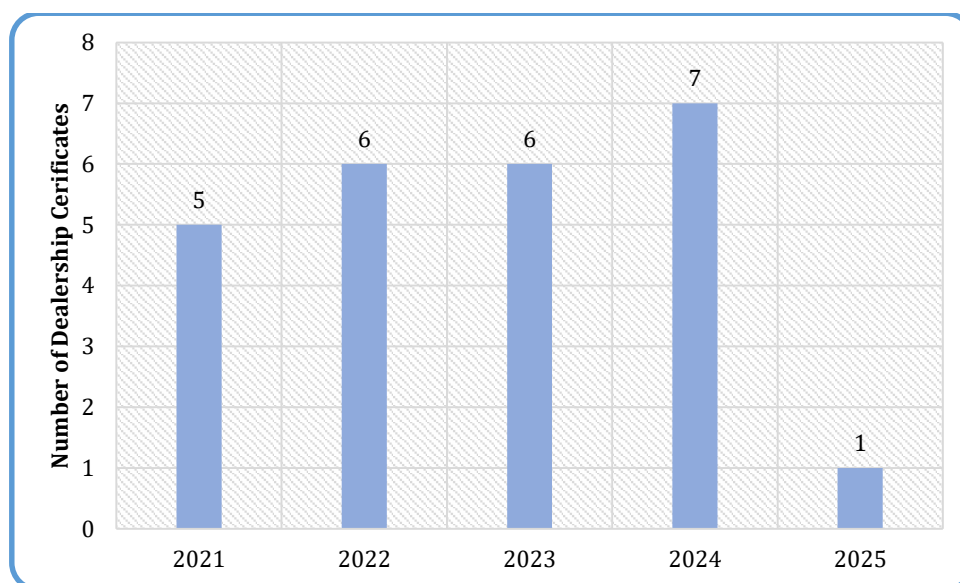
Table 52: Numbering Resources

Numbering Resources	2021	2022	2023	2024	2025
Short Codes	437	464	398	474	404
Premium Numbers	5	3	9	9	3
Toll Free	1033	292	1259	1242	1236
Mobile Numbers (SIM Cards)	116,410,000	123,215,000	133,215,000	133,215,000	133,215,000

Source: National Communications Authority, 2025

7.4 Dealership

At the end of 2025, there was one (1) dealership licence that had been issued as compared to 7 in the previous year. From 2021 to 2025, the number of dealerships has increased from 5 licences to 7 in 2024 and decreased to 1 licence in 2025. The dealership licences issued as of the end of 2025 are shown in Table 53 and Figure 74.

**Figure 74: Dealership Licences****Table 53: Dealership Certificates**

CLASS	2021	2022	2023	2024	2025
Class A	1	3	2	3	
Class B	3	1	2		
Class C	1	2	2	4	1
Class D					

Source: National Communications Authority, 2025

7.5 Satellite Services Licence

As of the end of 2025, Satellite (including VSAT) licences increased from 21 to 29. Between 2021 and 2025, the number of satellite related services increased from 35 in 2021, then decreased to 17 in 2022. It subsequently rose to 29 licences in 2025. Overall, licences experienced a Compound Annual Growth Rate of negative 4.59 percent. The Satellite services licences issued from 2021 to 2025 are shown Table 54 and Figure 75.

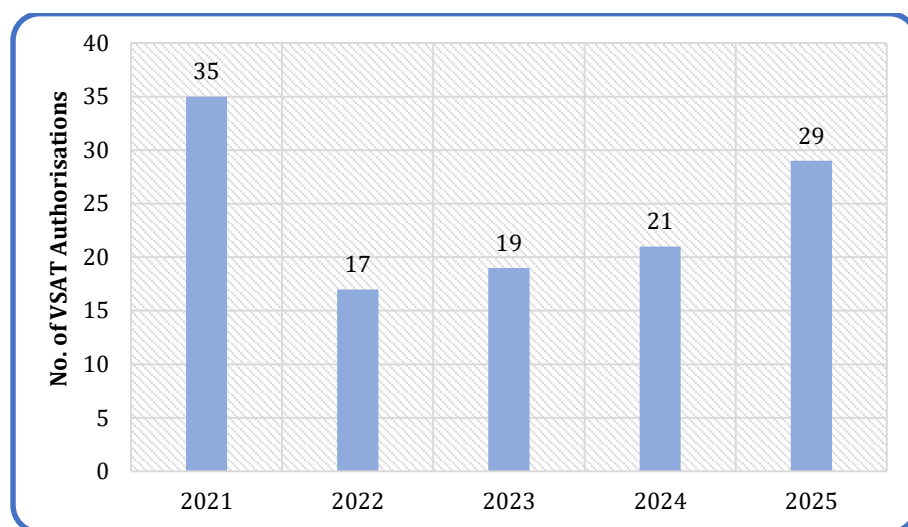


Figure 75: Satellite Services Licences

Table 54: Satellite Services

SATELLITE	2021	2022	2023	2024	2025
Total number of Satellite Authorisations	35	17	19	21	29
Total Number of Satellite Earth Station Network (SESN) Class 1 (Unlimited Terminals, 1001+) - Authorisations	2	1	1	2	2
Total Number of SESN Class 2 (501-1000 Terminals) - Authorisations				0	0
Total Number of SESN Class 3 (101 – 500 Terminals) - Authorisations				0	0
Total Number of SESN Class 4 (51 – 100 Terminals) - Authorisations	1	1	2	1	1
Total Number of SESN Class 5 (Less <= 50Terminals) - Authorisations	9	6	7	8	8
Satellite Landing Right Licence				1	8
Satellite Earth Station Terminal (SEST) (Corporate Use) Licence				6	7
SEST (Educational Use) Licence				1	1
SEST Gateway Earth Station Licence				2	2
Satellite Earth Station terminals					25,372

Source: National Communications Authority, 2025

NCA CONTACTS AND PRESENCE COUNTRYWIDE

The Authority currently has eight (7) regional offices to support its operations. Their addresses are listed below

- **Accra, Head Office**

National Communications Authority,
No. 6 Airport City
KIA, Accra, Floors 1-2, 4-9
GL-126-7029
P. O. Box CT 1568, Cantonments, Accra, Ghana
Tel: +233 (0)30 277 1701, +233 (0)30 277 6621,
+233 (0) 50 145 1522 - 3
Email: info@nca.org.gh
Website: www.nca.org.gh

- **Kumasi Office**

National Communications Authority,
Fuller Road, Danyame, Kumasi
AK-063-2250
P. O. Box KS 10768, Kumasi,
Ashanti Region
Tel: +233 (0)32 202 0014/ (0)32 202 0018
Email: complaints.kumasi@nca.org.gh

- **Bolgatanga Office**

National Communications Authority,
Zorbisi Zaare Residential Area in Bolgatanga
Municipality
UB-0034-8536
Private Mail Bag, Bolgatanga,
Upper East Region
Tel: +233 (0)38 202 1141
Email: complaints.bolgatanga@nca.org.gh

- **Sunyani Office**

National Communications Authority,
House No. 83, North Nkwabeng
BS-0032-6614
P. O. Box SY125, Sunyani,
Bono Region
Tel: +233 (0)35 202 7564
Email: complaints.sunyani@nca.org.gh

- **Ho Office**

National Communications Authority,
Plot No. 75, Stadium Road, Kabore Junction, Ho
VH-0006-0554
P. O. Box HP1576, Ho,
Volta Region
Tel: +233 (0)36 202 6339
Email: complaints.ho@nca.org.gh

- **Takoradi Office**

National Communications Authority,
Bakado, 3km Away from the Prisons (R.S.K.
Barnes Ct, Sekondi – Takoradi)
WS-014-8190
P. O. Box SL 409, Sekondi,
Western Region
Tel: +233 (0) 31 20 28069 / 31 20 28063
Email: complaints.takoradi@nca.org.gh

- **Koforidua Office**

National Communications Authority,
Plot No. 31, Sector 5,
Block C along the Galloway Road
EN-001-4621
Private Mail Bag, Koforidua,
Eastern Region
Tel: +233 (0)34 202 8380/ 34 202 8382
Email: complaints.koforidua@nca.org.gh

- **Tamale Office**

National Communications Authority,
Watherson Residential Area, Plot No. 3 & 4,
Tamale
NT-0027-8191
P. O. Box TL 1590, Tamale,
Northern Region, Ghana
Tel: +233 (0)37 202 8105/ 37 202 0104
Email: complaints.tamale@nca.org.gh



NCA

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