

FOURTH QUARTER SECTOR STATISTICS REPORT FOR THE FINANCIAL YEAR 2016/2017 (APRIL-JUNE 2017)

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Disclaimer:

Although every effort has been made to ensure accuracy of the data contained in this report, the Authority is not liable for inaccuracies in any of the information contained in this report, which is contingent upon the operators/service providers' compliance returns.

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LIST OF ABBREVIATIONS

DTT	Digital Terrestrial Television
EASSy	Eastern Africa Submarine Cable Systems
ICTs	Information Communication Technologies
EVDO	Evolution-Data Optimized
LION2	Lower Indian Ocean Network
GSM	Global Systems for Mobile Communications
Mbps	Megabits per second
MMS	Multimedia Service
MoU	Minutes of Use
MVNO	Mobile Virtual Network Operator
SEACOM	Sea Sub-Marine Communications Limited
SIM	Subscriber Identification Module
SMS	Short Messaging Service
TEAMS	The East African Marine System
VSAT	Very Small Aperture Terminal
FY	Financial Year
OTT	Over-The-Top

I. PRELIMINARY NOTES

- This report is based on data provided by service providers as per their license conditions.
- The information provided in this report is subject to review in case of any revisions or updates from the service providers.

II. REPORT SUMMARY

The Fourth Quarter Sector Statistics Report provides an overview of the sector performance and trends for the period April to June 2016 and the Financial Year 2016/17 on the following service categories:

- Mobile Telephony Service
- Fixed Telephony Service
- Data/Internet Service
- Broadcasting Service
- Postal and Courier Service
- Tariffs, Promotions and Special Offers

As at the end of the fourth quarter of 2016/17 financial year, the number of mobile subscriptions stood at 40.2 million. This marked a growth of 2.8 per cent from 39.1 million subscriptions recorded in the third quarter. When compared to the same period of the previous financial year, a growth of 1.2 per cent has been registered. The mobile penetration level rose by 2.5 percentage points to stand at 88.7 per cent from 86.2 per cent recorded in the previous quarter.

During the quarter under review, the number of mobile money subscriptions stood at 28.0 million while the number of agents was registered at 180,657. A total of 480.5 million transactions (withdrawals and deposits) valued at 1.2 trillion Kenya shillings were made during the quarter. In addition, goods and services purchased over mobile platform amounted to 692.1 billion Kenya shillings which involved 316.5 million mobile commerce transactions. Person to person transfers were valued at 541.8 billion Kenya Shillings. The positive growth witnessed in the mobile money transfer service was largely driven by the widespread use of mobile money solutions and adoption of the service among traditionally underserved groups (rural populations), and increasingly broad range of mobile money services (including insurance and loan products) in Kenya.

The number of ported mobile numbers declined by 17.1 per cent during the quarter under review to record 311 in-ports from 375 recorded in the preceding quarter.

The total inter-network local mobile voice traffic stood at 10.6 billion minutes during the quarter under review up from 10.4 billion recorded in the previous quarter representing a growth of 2.1 per cent over the period.

Total traffic originating from mobile networks stood at 42.7 billion minutes during 2016/17 financial year. This was an increase of 2.6 per cent from 41.6 billion minutes recorded in the previous fiscal year.

The total number of Short Messaging Service (SMS) sent during the quarter increased significantly to post 14.6 billion messages from 12.8 billion registered last quarter.

Roaming-out¹ voice traffic recorded 37.9 million minutes with those roamers within EAC region calling for 31.1 million minutes while roamers in non-EAC region contributed 5.8 million minutes. On the other hand, roaming-in² voice traffic registered 37.7 million minutes with in-roamers from EAC region contributing 85.6 per cent of the traffic which is equivalent to 32.3 million minutes while non-EAC roamers made calls lasting for 5.3 million minutes.

International incoming mobile voice traffic rose by 3.2 per cent during the quarter under review to register 146.9 million minutes from 142.3 million minutes recorded in the previous quarter. Traffic originating from EAC region stood at 45.3 million minutes while non-EAC region contributed 101.5 million minutes. Traffic terminating in EAC countries was recorded at 45.5 million minutes while in non-EAC countries stood at 64.7 million minutes.

Generally, the international mobile traffic declined during the year under review when compared to the previous financial year, and this could be as a result of many activities took place in the country during FY 2015/16 such as international meetings.

The total number of fixed network subscriptions in the country stood at 71,307 with the number of fixed terrestrial and fixed wireless connections registering at 70,967 and 340 respectively.

During the financial year 2016/17, data/internet subsector maintained upward growth across all technologies as witnessed during the quarter under review. The total number of Internet subscriptions amounted to 29.6 million, which was an increase of 15.2 per cent from 25.7 million registered in the previous quarter. The growth was driven by 15.3 per cent increase of mobile data subscriptions to stand at 29.4 million at the end of the quarter, which accounted for approximately 99.0 per cent of total subscriptions. The internet/data penetration level rose to 100.2 per cent up from 89.4 per cent recorded during the previous quarter.

The number of broadband subscriptions was recorded at 15.4 million up from 13.7 million posted in the preceding quarter representing a growth of 12.6 per cent. This translated to broadband penetration level of 34.2 per cent as at the end of quarter under review up from last quarter's 30.4 per cent.

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¹ Roaming-out is traffic originated and terminated by subscribers of national networks as users of foreign networks abroad.

² Roaming in is traffic originated and terminated by foreign subscribers as users of local network.

International Internet Bandwidth available in the country stood at 2,906.873 Gbps as at the end of the quarter under review. The total used international Internet bandwidth rose to 882.5 Gbps during the quarter under review reflecting a growth of 0.3 per cent.

As at 30th June 2017, the number of .KE domain names stood at 66,724. When compared to the same period of the previous year, a growth of 14.8 per cent has been recorded over the year.

Digital TV signal grew to record 78.0 per cent up from 75.0 per cent land coverage at the end of the period, which was occasioned by inclusion of the Self-provisioning signal distributors. The number of FM stations in the country stood at 178 stations as at 30th June 2017. When compared to the previous financial year as at June 2016, the number of FM stations was recorded at 139. This could be attributed to licensing of new operators in market.

Postal and courier sub sector registered mixed reactions during the 2016/17 financial year. The volume of letters posted locally increased substantially during the quarter under review to post 15.7 million from 8.2 million letters registered in the previous quarter. Conversely, the total number of letters sent during the financial year under review was recorded at 57.0 million down from 60.0 million letters registered in the previous representing a drop of 5.1 per cent.

The number of courier items sent locally stood at 1.4 million in the period under review down from last quarter's 1.6 million items. However, the items sent throughout the financial year registered an increase of 59.3 per cent to record 6.1 million up from 3.8 million items in the previous year. This could be attributed to adoption of e-commerce services by consumers.

The Authority received a total of 24 applications in the quarter under review for tariffs and promotions & special offers out of which 4 were tariffs and 20 were promotions and special offers, which were all reviewed and approved accordingly.

KEY ICT INDICATORS

SELECTED INDICATORS	July-Sep 2016	Oct-Dec 2016	Jan-Mar 2017	Apr-Jun 2017	% change Q3 to Q4
	Q1	Q2	Q3	Q4	
Mobile Subscriptions (Millions)	39.784	38.982	39.146	40.259	2.8
Fixed subscriptions	80,388	72,801	72,259	71,307	-1.3
Mobile cellular telephone subscriptions per 100 inhabitants	87.3	88.2	86.2	88.7	2.9
Fixed telephone lines per 100 inhabitants	0.18	0.16	0.16	0.16	0.0
VOICE TRAFFIC IN MINUTES					
On-Net Voice Traffic (Billions)	9.446	9.522	9.265	9.541	3.0
Off-Net Voice Traffic (Billions)	1.296	1.321	1.169	1.108	-5.2
International Incoming Mobile Voice traffic (Millions)	132.013	147.157	142.353	146.964	3.2
International Outgoing mobile Voice traffic (Millions)	117.545	116.75	117.44	110.269	-6.1
Roaming-out (Own Subscribers) (Millions)	36.129	36.857	38.544	37.988	-1.4
Roaming-in (Foreign Subscribers) (Millions)	43.101	30.509	32.362	37.722	16.6
Total Local Fixed network traffic	697,332	675,123	727,283	680,082	-6.5
International Incoming Fixed Network Voice traffic (Millions)	3.332	2.573	2.600	2.422	-6.8
International Outgoing Fixed Network Voice traffic (Millions)	2.345	2.091	2.135	1.961	-8.1
International Outgoing Fixed Network VoIP traffic	916,020	1,000,509	811,029	741,622	-8.6
SMS TRAFFIC			1		1
Outgoing SMS On-Net (Billions)	11.775	15.264	12.801	14.670	14.6
Outgoing SMS Off-Net (Millions)	508.889	593.367	527.75	556.934	5.5
Incoming International SMS (Millions)	9.629	9.227	8.530	8.210	-3.8
Outgoing International SMS (Millions)	10.798	9	9.169	9.461	3.2
MOBILE MONEY	<u>I</u>	<u>I</u>	1		
Number of Mobile Money subscribers (Millions)	31.092	31.996	27.543	28.074	1.9
Number of Transactions (Millions)	400.695	456.646	471.133	480.585	2.0
Value of Transactions (Ksh in trillions)	1.081	1.151	1.170	1.218	4.1
Number of Mobile money agents	169,698	161,583	174,018	180,657	3.8
DATA/INTERNET					
Data/ Internet subscriptions (Millions)	25.672	26.679	25.707	29.624	15.2
Total Available Bandwidth (Gbps)	2,028.74	2,028.74	2,906.87	2,906.87	0.00
Internet penetration per 100 inhabitants	85.3	89.7	89.4	100.2	10.8
Broadband Subscriptions per 100 inhabitants	27.0	28.7	30.3	34.2	12.9
BROADCASTING	I	1	1	I	
Number of free-to-air TV channels	63	66	60	66	10.0
Number of Radio FM stations	139	139	178	178	0.0
Digital Signal Population Coverage (%)	66	66	75	78	3.0

	July-Sep 2016	Oct-Dec 2016	Jan-Mar 2017	Apr-Jun 2017	% change Q3 to Q4
POSTAL AND COURIER					
Postal Outlets	623	623	623	623	0.0
Private Courier Outlets*	976	976	976	997	2.2
Number of Letters (Up to 350 gms) Posted Locally (Millions)	17.211	15.894	8.209	15.722	91.5
Total Courier Items Sent locally	1,324,786	1679188	1,630,765	1,472,290	-9.7
International Incoming Letters (Up to 350 gms)	2,112,537	2,299,588	964,013	1,075,611	11.6
International Outgoing Letters (Up to 350 gms)	2,014,753	1,907,271	912,825	1,074,105	17.7
Total Population (Millions) based on Economic Survey 2017	44.2	44.2	45.4	45.4	0.0

^{*} Revised Data

1 CELLULAR MOBILE SERVICES

1.1 Mobile Subscriptions

As at the end of the fourth quarter of the financial year2016/17, the number of mobile subscriptions stood at 40.2 million. This marked a growth of 2.8 per cent from 39.1 million subscriptions recorded during the third quarter. When compared to the same period of the previous financial year, a growth of 1.2 per cent was realized. Expansion of the markets by the service providers and availability of affordable phones are some of the factors that continue to spur mobile telephony growth in the country. Consequently, mobile penetration rose by 2.5 percentage points to stand at 88.7 per cent up from 86.2 per cent recorded in the previous quarter. However this was a decline of 1.3 percentage points in comparison to the same period of the previous financial year. This is mainly attributed to the review of base population upwards to 45.4 million from 44.2 million as per Economic Survey 2017.

Figure 1 illustrates the trends in mobile subscriptions and penetration levels.

41.0 91.0 90.0 Mobile Subscriptions (Millions) 90.0 88. 40.0 89.0 88.2 88.0 87.3 39.0 87.0 86.0 **Wopile I** 40.2 39.7 38.0 39. 38.9 38.5 84.0 37.0 83.0 Jun-16 Dec-16 Sep-16 Mar-17 Jun-17 Mobile Subscriptions -Mobile Penetration (%)

Figure 1: Mobile Subscriptions

Source: CA, Operators' Returns,

As shown in Figure 2, there were 1.1 million new mobile subscriptions during the quarter under review up from 163,876 net additions recorded in the previous period.

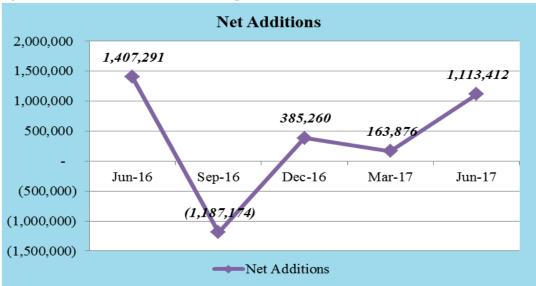


Figure 2: Net additions in Mobile Subscriptions

Source: CA, Operators' Returns

The quarter under review saw only three operators' record marginal changes in their market shares. Safaricom Limited registered an increase of 0.7 percentage points to stand at 72.6 per cent from 71.9 per cent recorded in the previous quarter.

Finserve Africa Limited market share rose to 4.6 per cent during the period under review from 4.4 per cent posted in the third quarter.

Airtel Networks Limited registered a decline of 1.0 percentage points to record a market share of 15.3 per cent from 16.3 per cent.

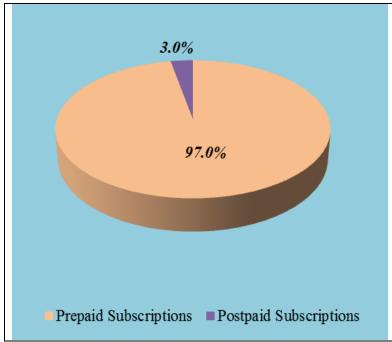
Telkom Kenya Limited, Mobile Pay Limited and Sema Mobile Services market shares remained unchanged over the quarter to stand at 7.2 per cent, 0.2 per cent and 0.0 per cent respectively.

Market Share per Operator

| 0.0% | 0.2% |
| 15.3% |
| 15.3% |
| 2.6% |
| 3.84aricom |
| Airtel |
| Finserve |
| Telkom Kenya |
| Sema Mobile Services |
| Mobile Pay Limited |

Source: CA, Operators' Returns,

Figure 4: Pre paid and Postpaid Mobile cellular Subscriptions



The total number of mobile subscriptions reported as at 30th June 2017 was 40.2 million, of which prepaid subscriptions accounted for 97.0 per cent while postpaid subscriptions stood at 3.0 per cent

Source: CA, Operators' Returns,

The total number of mobile subscriptions recorded by Safaricom Limited during the quarter under review stood at 29.2 million which marked an increase of 3.9 per cent up from 28.1 million subscriptions recorded in the previous period. The number of pre-paid and post-paid subscriptions was registered at 28.1 million and 1.0 million respectively.

Airtel Networks Limited posted a total of 6.1 million subscriptions down from 6.3 million registered during the preceding quarter. This translated to a decline of 3.4 per cent during the period under review.

Finserve Africa Limited registered a positive growth of 8.0 per cent to post 1.8 million subscriptions during the period under review from 1.7 million recorded in the preceding quarter. Likewise Telkom Kenya Limited total subscriptions rose by 3.4 per cent to stand at 2.89 million from last quarter's 2.80 million.

Mobile Pay Limited reported a total of 87,786 subscriptions during the period under review up from 86,724 posted in the previous quarter while on the other hand Sema Mobile Services recorded a decline to post 263 subscriptions from 295 recorded in the previous quarter.

Table 1 shows mobile subscription per operator.

Table 1: Mobile Subscription per operator

Name of operator		Jun-17			Mar-17		Quarterly
	Pre-paid	Post-paid	Total	Pre-paid	Post-paid	Total	variation (%)
Safaricom Limited	28,155,068	1,073,828	29,228,896	27,099,918	1,033,670	28,133,588	3.9
Airtel Networks Limited	6,037,020	142,162	6,179,182	6,255,020	138,658	6,393,678	-3.4
Finserve Africa Limited	1,864,838	-	1,864,838	1,727,270	-	1,727,270	8.0
Telkom Kenya Limited	2,889,756	8,755	2,898,511	2,795,762	8,747	2,804,509	3.4
Sema Mobile Services	263	-	263	295	-	295	-10.8
Mobile Pay Limited	87,786	-	87,786	86,724	-	86,724	1.2
Total	39,034,731	1,224,745	40,259,476	37,964,989	1,181,075	39,146,064	2.8

Source: CA, Operators' Returns

1.2 Mobile Money Transfer Services

As at 30th June 2017, the number of active mobile money subscriptions stood at 28.0 million while the number of agents was registered at 180,657. A total of 480.5 million transactions (withdrawals and deposits) valued at 1.2 trillion Kenya shillings were made during the fourth quarter. In addition, goods and services purchased over mobile platform amounted to 692.1 billion Kenya shillings, which involved 316.5 million mobile commerce transactions. Person to person transfers were valued at 541.8 billion Kenya Shillings.

Table 2 shows the details of mobile money transfer and mobile commerce services.

Table 2: Mobile Money Transfer Service

		Apr-June 17									
Service	Agents	Subscriptions	Number of transactions	Value of transactions (Kshs)	Mobile commerce transactions	Value of mobile commerce (Kshs)	Person to Person transfers (Kshs)				
M-Pesa	142,832	22,624,298	380,008,279	903,637,032,067	273,288,881	461,823,160,232	447,666,109,008				
Airtel Money	14,872	1,530,645	2,195,804	1,200,124,975	2,622,863	2,275,244,137	869,489,346				
Orange Money	800	194,445	19,000	85,270,000	221	51,881	2,025,405				
Equitel Money	-	1,864,838	97,158,440	311,817,417,433	40,611,231	228,048,000,000	92,550,261,181				
Mobikash*	16,749	1,772,696	815,881	127,032,829	6,430	9,227,168	22,876,608				
Mobile Pay	5,404	87,786	388,218	1,450,485,349	-	-	757,982,401				
Total	180,657	28,074,708	480,585,622	1,218,317,362,653	316,529,626	692,155,683,418	541,868,743,949				

Source: CA, Operators' Returns * Provisional data

1.3 Mobile Number Portability

As illustrated in Table 3, the number of ported mobile numbers declined by 17.1 per cent during the quarter under review to stand at 311 in-ports from last quarter's 375. A similar trend was observed during the financial year under review where a total of 1,243 in-ports were registered down from 1,453 recorded in the previous fiscal year.

Table 3: Mobile Number Portability

Period	Apr-Jun 17	Jan-Mar 17	Quarterly Variation (%)	FY 2016/17	FY 2015/16	Annual Variation (%)
Number of in-ports	311	375	-17.1	1,243	1,453	-14.5

Source: CA, Operators' Returns

1.4 Mobile Traffic and Usage Pattern

1.4.1 Voice Traffic

During the quarter under review, the volume of intra-network mobile traffic grew by 3.0 per cent to reach 9.5 billion minutes from 9.2 billion recorded in the previous quarter. A similar trend was observed during the financial year under review whereby the volume of intra-network traffic rose to 37.7 billion minutes from 36.6 billion recorded in the previous year.

The volume of off net mobile traffic declined by 5.2 per cent to stand 1.10 billion minutes during the quarter under review from 1.16 billion recorded in the preceding quarter.

Mobile to fixed network traffic increased to 22.2 million minutes during the quarter under review from 20.2 million posted in the previous quarter. A similar trend was reflected during the fiscal year under review where the traffic rose to 74.5 million minutes from 67.0 million registered during 2015/16 financial year.

The total inter-network local mobile voice traffic stood at 10.6 billion minutes during the quarter under review from 10.4 billion recorded in the previous quarter representing a growth of 2.1 per cent over the period. Total traffic originating from mobile networks stood at 42.7 billion minutes during 2016/17 financial year. This was an increase of 2.6 per cent from 41.6 billion minutes recorded in the previous fiscal year.

The increase in volume of mobile voice traffic could be attributed to the growth of the number of mobile subscriptions.

Table 4: Local Mobile Voice Traffic in Minutes

Mobile Traffic	Apr-Jun 17	Jan-Mar 17	Quarterly Variation (%)	FY 2016/17	FY 2015/16	Annual Variation (%)					
By Traffic originating (outgoing traffic)											
Own Network –Own Network	37,775,948,439	36,695,058,937	2.9								
Own Network to Other Mobile Networks	1,108,748,533	1,169,552,639	-5.2	4,895,887,311	4,901,169,055	-0.1					
Mobile Network to Fixed Network	22,206,435	20,265,293	9.6	74,500,816	67,027,299	11.1					
Total Traffic Origination (Outgoing)	10,672,399,781	10,455,771,790	2.1	42,746,336,566	41,663,255,291	2.6					
		By Traffic terminatin	ig (incoming tr	affic)							
Own Network –Own Network	9,541,444,813	9,265,953,858	3.0	37,775,948,439	36,695,058,937	2.9					
Other Mobile Networks to Own Network	1,108,748,533	1,117,786,855	-0.8	4,742,450,819	4,785,299,692	-0.9					
Fixed Network to Mobile Network	10,810,309	11,742,761	-7.9	43,294,557	52,472,963	-17.5					
Total traffic termination (Incoming)	10,661,003,655	10,395,483,474	2.6	42,561,693,815	41,521,523,453	2.5					

Source: CA, Operators' Returns,

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The volume of total traffic terminating on local mobile networks stood at 10.6 billion minutes during the quarter under review up from 10.3 billion minutes reported in the previous quarter. On the other hand the volume of fixed to mobile network traffic declined to post 10.8 million minutes from last quarter's 11.7 million minutes with the same downward trend observed during the fiscal year 2016/17 when compared to the previous fiscal year. This could be attributed to the decline in the number of fixed network subscriptions over the year.

1.4.2 Voice Traffic by Operator

The total volume of local mobile voice traffic registered by Safaricom limited during the quarter under review was 8.4 billion minutes down from last quarter's 8.5 billion minutes. Subsequently its quarterly voice market share dropped to 79.6 per cent from 82.0 per cent. Nevertheless, the volume of mobile traffic originating from its network rose to 35.6 billion minutes during 2016/17 fiscal year from 31.4 billion reported in the previous year.

Airtel Networks limited local voice mobile traffic rose to 1.5 billion minutes from 1.2 billion minutes recorded in the previous quarter. The increase could be attributed to *Tubonge* tariff introduced by the service provider where its customers could purchase airtime as low as ksh.10 and get 100 minutes of talk time. However, during the financial

year under review, the total volume of mobile traffic dropped to 5.7 billion minutes from 6.3 billion minutes reported in 2015/16 fiscal year. The decline could be attributed to the review of some voice tariffs upwards by the operator during the period.

Telkom Kenya limited recorded an increase in local mobile voice traffic to post 599.1 million minutes from last quarter's 572.3 million minutes. On the other hand there was a decline in its voice traffic during 2016/17 fiscal year which saw the operator post a total of 2.7 billion minutes from 3.5 billion minutes recorded in the previous year. This could be attributed to revision of subscription data by the operator which led to the drop in its number of subscriptions.

Finserve Africa Limited reported a total of 44.6 million minutes of mobile voice traffic down from 46.6 million minutes recorded in the previous quarter. However, its local voice traffic rose to 187.3 million minutes during the financial year under review from 146.5 million registered during 2015/16 financial year. Its voice market share remained fairly stable at 4.6 per cent over the year.

Sema Mobile Services local voice traffic declined by 16.5 per cent during the period under review to stand at 39,255 minutes from 47,057 minutes recorded in the previous quarter. On the contrary, its voice traffic increased by nearly four-fold over during the financial year under review when compared to 2015/16 fiscal year.

Mobile Pay limited saw its local traffic register a slight increase to reach 29,508 minutes during the period under review from 28,654 minutes reported in the previous quarter. Notably the three MVNO's has its local mobile traffic being off net traffic and also their voice market share were recorded at 0.0 per cent

The traffic volumes for each of the mobile operators and MVNOs, and their respective market shares are shown in Table 5.

Table 5: Local Mobile Voice Traffic by Operator

Period	Name of	Safaricom	Airtel Networks	Telkom Kenya	Finserve	Sema	Mobile
	Operator/Indicator	Limited	Kenya Limited	Limited	Africa	Mobile	Pay
					Limited	Services	Limited
Apr-Jun 17	On-net	8,154,182,598	956,923,000	426,433,847	3,898,845	3,407	3,116
	Off-net	322,857,408	572,399,328	172,686,776	40,743,038	35,848	26,392
	Total	8,477,040,006	1,529,322,328	599,120,623	44,641,883	39,255	29,508
	Market share (%)	79.6	14.4	5.6	0.4	0.0	0.0
Jan-Mar 17	On-net	8,191,883,021	660,920,000	409,544,140	3,600,081	3,596	3,020
	Off-net	361,270,839	602,363,650	162,824,828	43,024,227	43,461	25,634
	Total	8,553,153,860 1	1,263,283,650	572,368,968	46,624,308	47,057	28,654
	Market share (%)	82.0	12.1	5.5	0.4	0.0	0.0
FY 2016/17	On-net	32,529,179,619	3,164,827,000	2,066,233,723	15,689,896	12,066	6,136
	Off-net	3,164,827,000	2,573,765,051	710,273,114	171,617,376	149,101	52,026
	Total	35,694,006,619	5,738,592,051	2,776,506,837	187,307,272	161,167	58,162
	Market Share (%)	80.4	12.9	6.3	0.4	0.0	0.0
FY 2015/16	On-net	30,156,710,061	3,815,068,000	2,706,982,956	16,295,020	2,900	-

Off-net	1,315,894,188	2,579,939,779	877,180,189	130,300,612	42,073	-
Total	31,472,604,249	6,395,007,779	3,584,163,145	146,595,632	44,973	-
Market Share (%)	75.7	15.4	8.6	0.4	0.0	-

Source: CA, Operators' Returns,

During the quarter under review, per centage of on net traffic to total mobile traffic increased by 1.4 per centage points to stand at 89.6 per cent from last quarter's 88.2 per cent.

Similarly, during the financial year under review the proportion of on net traffic to total mobile traffic rose slightly to 88.5 per cent from 88.2 per cent recorded in the 2015/16 fiscal year.

The proportion of on-net and off-net traffic to total mobile voice traffic is shown in Figure 5.

Proportion of on-net to off-net Voice Traffic (%) 100.0 10.4 11.8 11.8 11.5 90.0 80.0 89.6 88.2 88.5 88.2 70.0 60.0 50.0 Jan-Mar 17 Apr-June 17 FY2015/2016 FY2016/17 On-net ■Off net

Figure 5: Proportion of On-net and Off-net Voice Traffic

Source: CA, Operators' Returns

1.4.3 Minutes of Use

As illustrated in Figure 6, the Minutes of Use (MoU) per month per subscriber stood at 88.4 minutes during the quarter under review down from 89.0 minutes registered in the previous period.

MoU Per Month 95.0 Minutes of use per subscriber per month 92.8 92.7 93.0 91.0 89.0 88.4 89.0 86.0 87.0 85.0 83.0 81.0 79.0 77.0 75.0 Apr-Jun 16 Jul-Sep 16 Oct-Dec 16 Jan-Mar 17 Apr-Jun 17

MoU Per Month

Figure 6: Minutes of Use

Source: CA, Operators' Returns

1.4.4 Short Messaging Service

The use of SMSs continue to face stiff competition from the growing influence of OTTs. In order to merge this, the year under review saw the service providers introduce SMS tariffs which could enable customers to send nearly twenty sms as low as one shilling. This has seen the growth in SMS traffic with the quarter under review recording 14.6 billion messages up from 12.8 billion registered last quarter.

Safaricom Limited recorded 14.6 billion outgoing messages during the quarter under review up from last quarter's 12.6 billion messages. Its SMS market share stood at 95.9 per cent. During the year under review its SMS traffic increased substantially to reach 53.9 billion messages from 30.4 billion messages reported during 2015/16 financial year. The increase in traffic is attributed to introduction of SMS tariffs and promotions the service provider offered to its customers during the period.

The total number of SMS originating from Airtel Networks Limited stood at 543.2 million messages down from 563.0 million messages reported in the previous quarter. This translated to a decline in SMS market share to stand at 3.6 per cent. Similarly the number of the messages sent from the network during the year under review declined to stand at 2.41 billion messages from 2.49 billion messages recorded in the previous year.

During the quarter under review, Telkom Kenya Limited registered 68.1 million messages sent from its network up from 61.2 million messages recorded in the previous quarter. On the contary, the volume of outgoing messages recorded in the year under review declined to 267.5 million from 335.1 million messages posted during 2015/16 fiscal year.

Finserve Africa Limited reported 9.1 million outgoing messages up from 8.3 million recorded in the previous quarter. Despite this increase, its SMS market share stood at 0.1 per cent. In addition, the volume of messages sent during the year under review rose to 36.5 million from 28.9 million messages recorded in the previous year.

Sema Mobile Services recorded a decline in SMS volume during the quarter under review to post 9.1 million messages fom last quarter's 8.3 million while its SMS market share remained unchanged at 0.0 per cent. During the year under review, there was a four fold increase in number of SMS to record 48,745 messages.

Mobile Pay Limited reported 22,611 outgoing messages during the quarter under review up from 21,920 recorded in the previous quarter. Its SMS market share was below zero percent.

SMS traffic and the corresponding market share per operator is as shown in Table 6.

Table 6: Short Messaging Service per Operator

Period	Name of	Safaricom	Airtel Networks	Telkom Kenya	Finserve	Sema	Mobile
	Operator/Indicator	Limited	Kenya Limited	Limited	Africa	Mobile	Pay
					Limited	Services	Limited
Apr-Jun 17	On-net	14,431,066,765	220,354,774	17,276,167	1,996,676	952	2,302
	Off-net	175,984,130	322,861,272	50,884,685	7,183,879	9,485	20,309
	Total	14,607,050,895	543,216,046	68,160,852	9,180,555	10,437	22,611
	Market Share (%)	95.9	3.6	0.4	0.1	0.0	0.0
Jan-Mar 17	On-net	12,534,726,046	249,014,488	16,381,210	985,042	1,136	2,214
	Off-net	161,383,384	314,064,515	44,905,509	7,369,673	12,203	19,706
	Total	12,696,109,430	563,079,003	61,286,719	8,354,715	13,339	21,920
	Market Share (%)	95.3	4.2	0.5	0.1	0.0	0.0
FY 2016/17	On-net	53,306,185,141	1,117,934,908	82,102,608	5,270,016	4,583	4,516
	Off-net	670,491,240	1,299,643,184	185,442,651	31,294,155	44,162	40,015
	Total	53,976,676,381	2,417,578,092	267,545,259	36,564,171	48,745	44,531
	Market Share (%)	95.2	4.3	0.5	0.1	0.0	0.0
FY 2015/16	On-net	29,875,265,508	1,388,567,930	112,711,413	3,409,155	937	-
	Off-net	591,450,314	1,101,696,343	222,433,265	25,502,323	11,247	-
	Total	30,466,715,822	2,490,264,273	335,144,678	28,911,478	12,184	-
	Market Share (%)	91.4	7.5	1.0	0.1	0.0	-

Source: CA, Operators' Returns,

1.4.5 Roaming Traffic

Roaming-out³ voice traffic stood at 37.9 million minutes with those roaming within EAC region calling for 31.1 million minutes while roamers from non-EAC region contributed 5.8 million minutes. The total messages sent by out roamers were 11.6 million and they spent 4.7 million MB on data services.

Roaming-in⁴ voice traffic registered 37.7 million minutes with in-roamers from EAC region contributing 85.6 per cent of the traffic, which is equivalent to 32.3 million minutes while non-EAC roamers made calls lasting for 5.3 million minutes. The number of messages sent by in roamers from EAC region and non-EAC region stood at 2.4 million and 3.0 million respectively. The amount of data spent by in roamers was 15.9 million MB with roamers from non-EAC region consuming 14.9 million MB.

Uganda contributed the largest volume of both roaming out and roaming in voice traffic in EAC region.

The trends on roaming traffic are indicated in Table 7.

Table 7: Roaming Traffic

Name of		Apr - Jun 17											
Country	Roamin	g-Out (Own Subsc	ribers)	Roaming	g-In (Foreign Subscribers)								
	Voice	Voice SMS Data		Voice	SMS	Data (MB)							
Uganda	21,586,328	3,663,556	678,568	18,746,131	393,047	500,763							
Tanzania	5,275,384	1,570,506	888,430	1,616,241	1,841,010	382,398							
Rwanda	1,805,542	332,666	245,982	5,140,885	155,502	147,090							
Burundi	31,003	21,040	3,573	18,037	13,015	1,072							
S. Sudan	3,464,987	580,556	33,336	6,832,852	74,340	247							
Sub-total	32,163,244	6,168,324	1,849,889	32,354,146	2,476,914	1,031,570							
Others	5,825,476	5,447,875	2,863,784	5,368,648	3,096,312	14,926,839							
Total	37,988,720	11,616,199	4,713,673	37,722,794	5,573,226	15,958,409							

Source: CA, Operators' Returns.

1.4.6 International Mobile Traffic

International incoming mobile voice traffic rose by 3.2 per cent during the quarter under review to register 146.9 million minutes from 142.3 million minutes recorded in the previous quarter. Traffic originating from EAC region stood at 45.3 million minutes while non-EAC region contributed 101.5 million minutes. The total mobile voice traffic received from other countries during the financial year under review declined by 23.4 per cent to post 568.4 million minutes from 742.4 million minutes recorded in the previous fiscal year.

 3 Roaming-out is traffic originated and terminated by subscribers of national networks as users of foreign networks abroad.

⁴ Roaming in is traffic originated and terminated by foreign subscribers as users of local network.

International outgoing mobile voice traffic dropped to 110.2 million minutes from 117.4 million minutes reported in the previous quarter. Traffic terminating in EAC countries was recorded at 45.5 million minutes while in non-EAC countries posted 64.7 million minutes. During the financial year under review, the volume of traffic originating from the country declined by 6.1 per cent to record 462.0 million minutes from 485.3 million minutes registered during 2015/16 fiscal year.

The number of international incoming mobile SMS was registered at 8.2 million during the quarter under review down from last quarter's 8.5 million messages. Similarly the mobile SMS received from other countries during the financial year under review dropped to 35.5 million from 41.9 million recorded during previous financial year.

International outgoing messages increased to 9.4 million during the quarter under review from 9.1 million messages registered in the preceding quarter. Also during the fiscal year under review, the SMS traffic to other countries rose by 7.1 per cent to reach 38.4 million messages from 35.8 million messages.

Generally, the international mobile traffic declined during the year under review when compared to the previous financial year, and this could be as a result of activities like the international meetings that took place in the country during 2015/16 financial year.

International Voice and SMS traffic is indicated in Table 8.

Table 8: International Mobile Traffic

Traffic	Region	Apr-Jun 17	Jan-Mar 17	Quarterly Variation (%)	FY 2016/17	FY 2015/16	Annual Variation (%)
International	EAC	45,366,016	44,434,436	2.1	182,565,063	248,105,807	-26.4
Incoming	Others	101,598,592	97,919,141	3.8	385,923,571	494,376,098	-21.9
Mobile Voice Minutes	Total	146,964,608	142,353,577	3.2	568,488,634	742,481,905	-23.4
International	EAC	45,527,141	45,547,779	-0.1	186,080,909	158,442,938	17.4
Outgoing Mobile Voice	Others	64,742,154	71,893,083	-10.0	275,926,041	326,908,303	-15.6
Minutes	Total	110,269,295	117,440,862	-6.1	462,006,950	485,351,241	-4.8
International Incoming Mobile SMS		8,210,360	8,530,417	-3.7	35,596,925	41,936,811	-15.1
International Outgoing Mobile SMS		9,461,337	9,169,746	3.1	38,429,821	35,883,986	7.1

Source: CA, Operators' Returns

1.5 Mobile Revenue and Investments

Mobile revenue was recorded at 241.0 billion Kenya Shillings whereas Investment stood at 40.9 billion Kenya shillings during the FY 2016/17 as illustrated in Figure 7.

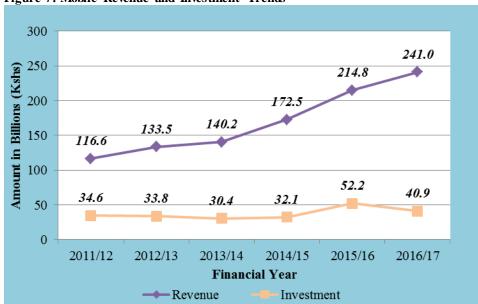


Figure 7: Mobile Revenue and Investment Trends

Source: CA, Operators Return* Includes Telkom Fixed Network Revenue and Investment

1.6 Employment in the Mobile Service Industry

As at the end of 2016/17 financial year, the number of employees in mobile industry stood at 6,907 which was a growth of 11.8 per cent. Table 9 shows the trends of staff over the fiscal years.

Table 9: Staff in Mobile Sector

Employee	Jun- 17	Jun- 16	Jun- 15	Jun- 14	Jun- 13	Jun- 12	Variation (%) Over 2016	Variation (%) Over 2015	Variation (%) Over 2014	Variation (%) Over 2013	Variation (%) Over 2012
Male	3,695	3,383	3,549	3,795	3,535	3,489	9.2	-4.7	-6.5	7.3	1.3
Female	3,212	2,795	2,598	2,644	2,082	2,053	14.9	7.6	-1.7	27.0	1.4
Total	6,907	6,178	6,147	6,439	5,617	5,542	11.8	0.5	-4.5	14.6	1.3

Source: CA, Operators Returns, (*) includes Telkom Fixed Network



2

FIXED TELEPHONE SERVICE

2.1 Fixed Network Subscriptions

During the period under review, the total number of fixed network subscriptions in the country stood at 71,307 down from 72,259 subscriptions recorded in the previous quarter. The number of fixed terrestrial and fixed wireless connections stood at 70,967 and 340 respectively.

The trend in fixed network subscriptions is illustrated in Figure 8.

90,000 80,746 79,918 72,427 71,912 70,967 80,000 70,000 Subscriptions 60,000 50,000 40,000 30,000 20,000 10,000 370 370 0 Jun-16 Sep-16 Dec-16 Mar-17 Jun-17 Fixed Terrestrial Lines Fixed Wireless Lines

Figure 8: Fixed Network Subscriptions

Source: CA, Operators' Returns.

2.2 Fixed Network Traffic

Fixed to fixed local network traffic declined by 10.6 per cent during the quarter under review to post 332,248 minutes down from 389,154 minutes reported during the previous quarter. Similarly, during the fiscal year under review fixed to fixed local traffic dropped by 28.4 per cent to post 1.4 million minutes down from 2.0 million minutes posted during previous year.

Fixed wireless to fixed wireless network traffic grew by 2.9 per cent to record 347,834 minutes. Likewise traffic recorded during the financial year increased notably by 5-fold to post 1.3 million minutes.

Table 10 illustrates the trend in fixed network traffic.

Table 10: Local Fixed Network Traffic in Minutes

Local Fixed Network traffic	Apr-Jun 17	Jan-Mar 17 Quarterly FY Variation (%)		FY 2016/17	FY 2015/16	Annual Variation (%)
		Intra	ı-network traffic			
Fixed-fixed	332,248	389,154	-14.6	1,435,442	2,005,986	-28.4
Fixed wireless-fixed wireless	347,834	338,129	2.9	1,344,368	218,934	514.2
Total Local Fixed network traffic	680,082	727,283	-6.4	2,779,810	1,646,470	68.8

Source: CA, Operators' Returns

International incoming fixed network voice traffic dropped by 6.8 per cent to register 2.4 million minutes down from 2.6 million minutes recorded in the previous quarter. Nevertheless the cumulative traffic for the whole fiscal year stood at 10.9 million minutes up from 7.4 million minutes reported in the previous year.

During the quarter under review, international outgoing traffic stood at 1.9 million minutes down from 2.1 million minutes recorded in the previous Similarly the fiscal year under review saw the fixed traffic to other countries decline to register 8.5 million minutes from 9.2 million reported during the 2015/16 financial year.

International outgoing fixed VoIP traffic declined to 741,622 minutes during the quarter under review from last quarter's 811,029 minutes. However the number of VoIP minutes originating from the country to other countries rose by 13.8 per cent during the year under review to record 3.4 million minutes.

The trend in international fixed network traffic is illustrated in Table 11.

Table 11: International Fixed Voice Traffic

International Fixed Network traffic	Apr-Jun 17	Jan-Mar 17	Quarterly Variation (%)	FY 2016/17	FY 2015/16	Annual Variation (%)
International Incoming Fixed Network Voice traffic	2,422,371	2,600,060	-6.8	10,923,999	7,483,318	46.0
International Outgoing Fixed Network Voice traffic	1,961,621	2,135,181	-8.1	8,533,093	9,269,611	-7.9
International Outgoing Fixed Network VoIP traffic	741,622	811,029	-8.6	3,469,780	3,048,325	13.8

Source: CA, Operators' Returns.



DATA/INTERNET SERVICE

3.1 Data/Internet Service

During the financial year 2016/17, data/Internet sub-sector experienced a positive growth across all technologies as witnessed in the quarter under review. The total number of Internet subscriptions amounted to 29.6 million which was an increase of 15.2 per cent from 25.7 million registered in the previous quarter. The growth was driven by 15.3 per

cent increase of in mobile data subscriptions to 29.4 million at the end of the quarter, which quarter, which accounted for approximately 99 per cent of the total subscriptions. The increase of mobile data subscriptions could be attributed to continued fall in the price of smartphones costs as well widespread the availability of the handsets. The number of data subscriptions has grown by 9.9 per cent when compared to the same period of the previous year.

The total number of terrestrial wireless data subscriptions recorded an increase of 30.5 per cent to post 47,231 subscriptions at the end of the quarter under review up from 36,104 subscriptions registered in the previous quarter. When compared to the same period of the previous financial year, there was a two-fold increase, which could be attributed to the licensing of new players in the market during the financial year.

Fixed DSL data/internet subscriptions rose to 2,715 during the period under review from 2,452 subscriptions reported in the third quarter marking an increase of 10.7 per cent. However when compared to the same period of the previous year, there was a decline of 11.4 per cent over the year.

Fibre optic data subscriptions continued to grow with the quarter under review recording 54,700 subscriptions up from 48,040 subscriptions registered during the previous period. In relation to the same period of the previous year, growth of about one fold was realized. The number of Fixed Cable subscriptions grew throughout the year to record 99,971 up from 95,976 representing 4.2 per cent growth at the end of the period under review.

The trend in data/internet subscriptions is as indicated in Table 12.

Table 12: Data/Internet Subscriptions

Internet/Data Subscriptions Quarterly Annual Jun-17 Mar-17 Jun-16 Variation (%) Variation (%) Mobile Data Subscriptions 29,419,164 25,524,363 15.3 26,758,789 9.9 Terrestrial Wireless Data 47,231 36,104 30.8 13,449 251.2 Subscriptions Satellite Data Subscriptions 693 622 11.4 280 147.5 Fixed DSL Data Subscriptions 2,715 2,452 10.7 3,063 -11.4 Fixed Fibre Optic Data 54,700 48,040 13.9 27,571 98.4 Subscriptions Fixed Cable Modem 99,971 95,976 4.2 29.3 77,319 Subscriptions **Total Internet Subscriptions** 29,624,474 25,707,557 15.2 26,880,471 10.2 Estimated Number of Data/Internet Users⁵ 45,485,414 40,594,403 12.0 37,716,579 20.6

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⁵ Total no. of Estimated Internet Users = (1MD+10TW+100FFOS) where MD is the number of mobile data/internet subscriptions, TW is the terrestrial wireless subscriptions; and FFOS by 100 is fixed DSL, Fibre optic and satellite subscriptions. There is no Scientific method of estimating internet users; for the purpose of this report the methodology is adopted from the recommendation of ITII

Source: CA, Operators Returns

The internet/data penetration level⁶ rose to 100.2 per cent up from 89.4 per cent recorded during the previous quarter.

The trends on internet/data subscriptions and penetration level are as demonstrated in Figure 7

50.0 105.0 45.4 100.0 **Second** 45.0 Data/Internet Users (Millions) 40.5 39.6 37.7 37.7 40.0 100.2 35.0 95.0 30.0 25.0 90.0 89.7 20.0 89.4 85.0 15.0 85.3 85.3 10.0 80.0 5.0 0.0 75.0 Jun-16 Dec-16 Mar-17 Sep-16 Jun-17 Internet Users

■ Internet Users ——— % of Population with Internet Access

Figure 9: Data/Internet Subscriptions and Internet Penetration

Source: CA, Operators' Returns

Figure 10 illustrates the market share of mobile data/Internet subscriptions with Safaricom Limited registering the highest share of 77.1 per cent translating to an increase of 2.2 per centage points in relation to last quarter. The data subscriptions market share for Airtel Network Limited dropped by 2.5 per centage points to stand at 15.6 per cent. Similarly, Telkom Kenya Limited slightly fell by 0.2 per centage points to record 6.2 per cent market shares. Finserve Africa Limited recorded a market share of 0.7 per cent whereas Mobile Pay registered 0.3 per cent. Sema Africa Limited market share stood at0per cent.

26

Percentage Market Shares

0.0 % 0.3 % 0.7 %

15.6 %

Finserve Africa Ltd

Airtel Networks Ltd

Safaricom Ltd

Telkom Kenya Ltd

Sema Mobile Services

Mobile Pay Ltd

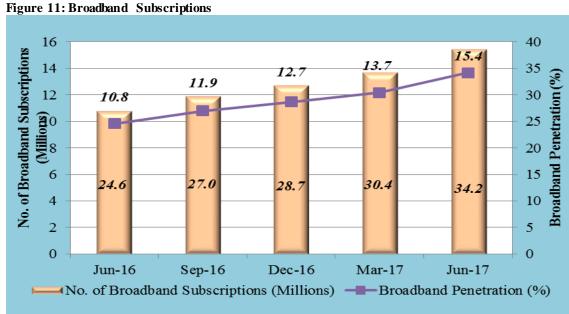
Figure 10: Mobile/Data Subscriptions

Source: CA, Operators' Returns

3.2 Broadband Services

3.2.1 Data / Internet broadband subscriptions

During the quarter under review, the number of broadband subscriptions was recorded at 15.4 million up from 13.7 million posted in the preceding quarter representing a growth of 12.6 per cent. This translated to broadband penetration level of 34.2 per cent as at the end of quarter under review up from last quarter's 30.4 Per cent.



Source: CA, Operators' Returns

3.2.2 Fixed Broadband subscriptions by Speed

As illustrated in Figure 12, fixed broadband speeds of greater than or equal to 256 kbps recorded the least number of subscriptions while those above 2 Mbps recorded the highest number of subscriptions during the period under review. The same trend has been observed from quarter-to-quarter.

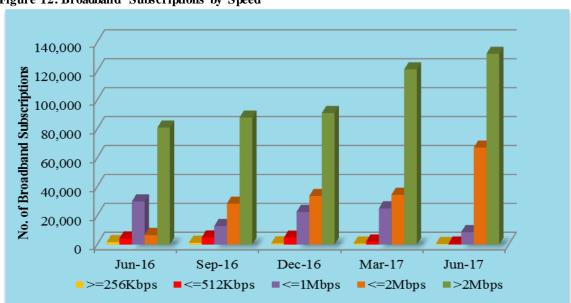


Figure 12: Broadband Subscriptions by Speed

Source: CA, Operators' Returns.

3.3 International Bandwidth

The amount of International Internet Available Bandwidth remained unchanged as at end of the quarter under review. On the other hand, when compared to the same period in the last financial year, a growth of 68 per cent has been attained. This was driven by 112.6 per cent increase in SEACOM bandwidth as a result of Increase of their capacity. This could be attributed to increase of supply capacity by the service providers as the demand for the bandwidth in the country increases. EASSy and Lion 2 increased their capacity by 112.5 and 158.6 respectively when compared to the same period the previous year.

The trend on International Internet bandwidth available is as shown in Table 13.

Table 13: International Internet Available Bandwidth (Gbps)

International Connectivity Bandwidth	Jun-17	Mar-17	Quarterly Variation (%)	Jun-16	Annual Variation (%)
SEACOM	2,020.0	2,020.0	0.0	950.0	112.6
TEAMS	702.0	702.0	0.0	702.0	0.0
Telkom Kenya Limited (EASSY)	83.0	83.0	0.0	39.06	112.5
Lion 2	101.4	101.4	0.0	39.21	158.6
Satellite Internet Bandwidth	0.473	0.473	0.0	0.475	-0.4
Total International Internet Bandwidth (Mbps)	2,906.873	2,906.873	0.0	1,730.745	68.0

Source: CA, Operators' Returns

Total used international Internet bandwidth rose to 882.5 Gbps during the quarter under review reflecting a growth of 0.3 per cent. Similarly, there was an increase of 0.5 percent was recorded when compared to the same period of previous financial year.

The undersea cable used bandwidth increased by 0.3 percent to reach 882.3 Gbps up from 879.3 Gbps recorded during the last quarter. When compared to the same period of the previous year, a growth of 0.6 per cent was realized.

Satellite used bandwidth increased to 0.273 Gbps up from 0.2703 Gbps reported during the previous quarter representing a minimal growth of 1.0 per cent. Conversely, used bandwidth dropped by 42.5 per cent when compared to the same period of the previous year.

The trend in international Internet connectivity (used) bandwidth is shown in Table 14.

Table 14: International Internet Connectivity Bandwidth (Gbps)

International Leased (Used) Bandwidth	Jun-17	Mar-17	Quarterly Variation (%)	Jun -16	Annual Variation (%)
International Undersea Internet Connectivity Bandwidth (Gbps)	882.30	879.30	0.3	877.30	0.6
International Satellite Internet Connectivity Bandwidth	0.273	0.2703	1.0	0.475	-42.5
Total International Internet Connectivity Bandwidth (Gbps)	882.573	879.5703	0.3	877.775	0.5

Source: CA, Operators' Returns

3.4 Revenue and Investment in the Data/Internet Market

During the fiscal year 2016/17, the data/internet market generated revenues of 15.8 billion Kenya Shillings after 3.7 billion Kenya Shillings were utilized for investment in the same sector.

Table 15: Data/Internet Revenue and Investment

Data/Internet Revenue and Investments	2016*	2015*	2014*	2013	2012	Variation (%) Over 2015	Variation (%) Over 2014	Variation (%) Over 2013	Variation (%) Over 2012
Data/Internet Revenue (KES Millions)	15,945	8,498	10,158	21,941	25,627	87.6	-16.3	-53.7	-14.4
Data/Internet Investments (KES Millions)	3,706	2,233	3,440	3,537	6,115	66.0	-35	-2.7	-42.2

Source: CA, Operators' Returns.

3.5 Registered Domain Names

As at 30th June 2017, the number of .KE domain names stood at 66,724. When compared to the same period of the previous year, a growth of 14.8 per cent was recorded over the year.

Table 16: Number of Domain names

		Jun-20	017	Jun-2	2016
Sub- domain	Use	No. of Domains	Percentage (%)	No. of Domains	Percentage (%)
CO.KE	Companies	61,969	92.87	53,990	92.76
GO.KE	Government Entities	397	0.59	368	0.63
OR.KE	Non Profit Making Organizations	1,947	2.92	1,759	3.02
AC.KE	Institutions of Higher Education	738	1.12	791	1.36
SC.KE	Lower and Middle Level Institutions	980	1.47	605	1.04
NE.KE	Personal Websites and E-mail	189	0.28	182	0.31
ME.KE	Personal Websites and E-mail	309	0.46	337	0.58
MOBI.KE	Mobile Content	48	0.07	46	0.08
INFO.KE	Information	147	0.22	128	0.22
Total		66,724	100	58,206	100

Source: Kenya Network Information Centre (KeNIC)



4.1 Digital Television

At the end of the financial year 2016/17, the number of free-to-air TV channels on the digital terrestrial platform stood at 66 up from 60 recorded in the previous quarter. The increase is mainly as a result of licensing of new entrants in the broadcasting market. On the other hand, the number of pay TV service providers on the Digital Terrestrial Television (DTT) platform remained unchanged (GoTV and Star Times).

4.2 Digital Terrestrial Television sites rollout

The digital signal covered 78 per cent of the Kenyan population as at the end of June 2017 up from 75 per cent reported during the previous quarter. This was occasioned by the extension of network coverage by some of the self-provisioning digital signal distributors.. The signal is currently available in; Nairobi, Nakuru, Nyeri, Mombasa, Kisumu, Webuye, Eldoret, Malindi, Meru (Nyambene), Kisii, Kericho, Narok, Nyahururu, Embu, Kisii, Machakos, Murang'a, Naivasha, Nyeri, Webuye, Narok, Mbuinzau, Kapenguria, Wajir, Kitui, Lamu and Namanga.

4.3 Set top Boxes

The cumulative number of digital Set Top Boxes purchased as at 30th June 2017 stood at 729,477 for Free-to-Air set top boxes (FTA STBs) and 3,788,417 for PAY TV.

4.4 FM Radio Stations

The total number of FM stations in the country stood at 178 stations as at 30th June 2017. When compared to the 139 stations recorded last financial year, there has been a

remarkable increase of 28.0 percent, which was as a result of licensing of new operators in market.



POSTAL AND COURIER SERVICES

5.1 Postal and Courier Traffic

Postal and courier sub sector registered mixed trends during the 2016/17 financial year. The volume of letters posted locally increased substantially during the quarter under review to post 15.7 million from 8.2 million letters registered in the previous quarter. Conversely, the total number of letters sent during the financial year was recorded at 57.0 million down from 60.0 million letters registered in the previous representing a drop of 5.1 per cent.

In contrast, the number of courier items sent locally stood at 1.4 million during the period under review down from 1.6 million items posted last quarter. However, the courier items sent throughout the financial year registered an increase of 59.3 per cent to record 6.1 million up from 3.8 million items posted in the previous financial year. This is attributed to the fast adoption of e-commerce services by consumers.

The number of International incoming letters increased to 1.0 million letters during the quarter under review up from 964,013 letters recorded in the previous quarter. On the contrary, the volume of letters received throughout the financial year registered a drop of 27.4 per cent to record 6.4 million down from 8.8 million letters recorded in the previous year.

On the other hand, the volume of letters sent to other countries increased by 17.7 per cent to stand at 1.0 million letters from last quarter's 912,825 letters. Conversely, during 2016/17 financial year the number of letters posted the declined by 29.4 per cent posting 5.2 million letters.

Table 17: Postal and Courier Traffic

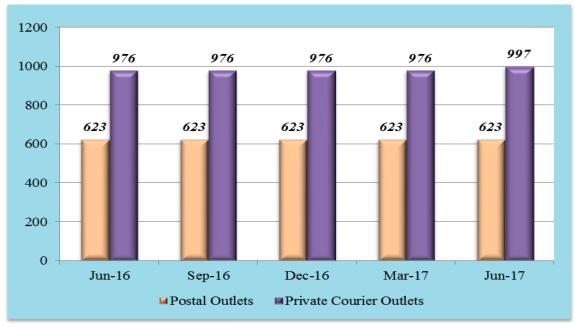
Post and Courier Traffic	Apr-Jun 17	Jan-Mar 17	Quarterly Variation (%)	FY 2016/17	FY 2015/16	Annual Variation (%)
Number of Letters (Up to 350 gms) Posted Locally	15,722,104	8,209,615	91.5	57,037,674	60,072,233	-5.1
Total Courier Items Sent Locally	1,472,490	1,630,765	-9.7	6,107,552	3,832,946	59.3
International Incoming Letters (Up to 350 gms)	1,075,611	964,013	11.6	6,451,749	8,889,643	-27.4
International Outgoing Letters (Up to 350 gms)	1,074,105	912,825	17.7	5,908,954	8,366,623	-29.4

Source: CA, Operators' Returns,

5.2 Number of Postal and Courier Outlets

During the quarter under review, the number of courier outlets rose to 997 up 996 recorded in the previous quarter representing a growth of 2.6 per cent while Postal outlets remained stable at 623.

Figure 13: Number of Postal and Private Courier Outlets



Source: CA, Operators' Returns, Note*: Number of Courier Outlets data revised

5.3 Postal and Courier Revenue and Investments

The postal and courier revenues declined by 2.7 per cent during 2016/17 fiscal year to post 4.6 billion Kenya Shillings down from 4.8 Kenya Shillings recorded in previous

financial year. Conversely, the amount used in investments in the sub-sector rose by 39.8 per cent during the financial year to stand at 457 million Kenya Shillings up from 327 million shillings recorded in 2015/16 FY.

Table 18: Postal and Courier Revenue and Investments

Post/Courier Revenue and Investment	2016	2015	2014	2013	2012	Variatio n (%) Over 2016	Variatio n (%) Over 2015	Variatio n (%) Over 2014	Variatio n (%) Over 2013	Variati on (%) Over 2012
Revenue (KShs. Millions)	4,670	4,800	8,530	7,086	7,467	2.7	-43.7	20.4	-5.1	-36.7
Investments (KShs Millions)	457	327	397	519	390	39.8	-17.6	-23.5	33.1	-22.6

Source: CA, Operators' Returns

6 TARIFFS, PROMOTIONS AND SPECIAL OFFERS

The Authority received a total of 24 applications in the quarter under review for tariffs and promotions & special offers out of which 4 were tariffs and 20 were promotions and special offers, which were all reviewed and approved accordingly.

There were 4 more applications during the period under review compared to the previous period.

Tables 19 and 20 show the detailed distribution of the applications.

Table 19: Tariffs

Service		Apr - Jun 17							
provider	Voice	SMS	Data	Bundle	Mobile Money	Others	Total		
Safaricom	-	-	-	-	-	1	1		
Airtel	-	-	-	1	-	-	1		
Telkom	-	-	2	-	-	-	2		
Total	-	-	2	1	-	1	4		

There were 4 more applications during the period under review compared to the previous period.

Tables 19 and 20 show the detailed distribution of the applications.

Table 20: Promotions and Special Offers

Service			Apr - Jun 17						
provider	Voice	SMS	Data	Bundle	Airtime	Lucky Draw ⁷	Others ⁸	Total	
Safaricom	-	-	7	1	2	-	2	12	
Airtel	-	-	1	-	-	-	-	1	
Telkom	-	1	1	2	-	-	-	4	
Finserve	-	-	2	-	1	-	-	3	
Total	-	1	11	3	3	-	2	20	

7 CONCLUSION

During the fiscal year 2016/17, telecommunications sector continued to register a positive growth when compared to the previous years and this could be attributed to increased uptake and usage of the mobile phone services by the people. Despite the growing influence of over the top services, which are widely available local mobile traffic as well as SMS services. This was as result of the introduction of services such as SMS tariffs, one-bundle tariffs by mobile service providers to keep up with the competition in the industry. The increase in mobile network coverage has led to a decline in fixed-line networks.

The volume of mobile money transactions (withdrawals and deposits) valued at 1.2 trillion Kenya shillings were made during the fourth quarter. In addition, goods and services purchased over mobile platform amounted to 692.1 billion Kenya shillings, which involved 316.5 million mobile e-commerce transactions. The positive growth witnessed in the mobile money transfer service has largely been driven by the widespread use of mobile money solutions in Kenya. The mobile money transfer service is driven by Kenya's commitment to advancing financial inclusion, widespread adoption of mobile money services among traditionally underserved groups, an increasingly broad range of mobile money services (including insurance and loan products), and an enabling regulatory environment for digital financial services.

Data/Internet sub-sector continued to sustain substantial growth over the period as technological and infrastructural environment become more conducive for better Internet access as a result of the rollout of 4G infrastructures by the Mobile Network Operators (MNOs) in Kenya. With the rapid expansion of fibre optic infrastructure across the country, more homes will be connected as well as better higher speed fibre broadband services will be accessed. In addition, service providers' increased Internet capacity bandwidth as the demand rise as witnessed during the year under review.

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⁷Lucky draw is a game of chance where the operator has no control over the specific user to receive a reward set out

⁸"Other" refers to promotions that cannot be clearly attributed to any particular service or bundle of services, neither can they be attributed to a lucky draw

As Internet infrastructure become available and more efficient coupled with growing number of younger population in the country, mobile video traffic is anticipated to increase substantially.

The postal and courier sub-sector experienced mixed reactions during the year under review. Despite the presence of electronic communications, the volume of letters posted locally increased substantially during the quarter. Total courier items sent locally during the year grew significantly and this could have been driven by the increase in Internet shopping as e-commerce continues to be seen as a key driver of courier services in Kenya.

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