



# Quarterly Report on Telecom Sector Indicators

Q4, 2016
Competition and Tariffs Unit

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#### > Introduction

We are pleased to present Q4 2016 Report on the Indicators of Telecom Sector of Oman. The TRA has been compiling and publishing this Report on quarterly basis to provide market intelligence on Telecom Sector to all interested parties including the investors, consumers, and the licensees. The Quarterly reports provide a brief update on the status of major telecom services in the Sultanate of Oman. These reports cover voice and data services for both fixed and mobile seaments.

The quarterly reports are being compiled collecting data from the telecom service providers operating in Oman. The TRA would like to acknowledge and appreciate the service providers' cooperation and support for providing data to TRA, which helped in preparing this report and disseminating the information contained in it. The source data is sometimes delayed by the licensees, which ultimately cause delays in publishing the report. We hope the publication timing will improve in future with the cooperation of service providers.

Comments and suggestions from the users of these reports are welcome for improvement of the contents and structure of the reports.

This report is also published on the TRA website (www.tra.gov.om).

#### > Disclaimer

The TRA tries its best to ensure accuracy of the information provided in this report. However, the users of any information contained in this report are advised to perform their own due-diligence to assess accuracy and relevance of the information and use it at their own risk and responsibility. Since the data is provided by the licensees, the TRA cannot assume full responsibility for any loss, damage, and cost or expense whether direct, indirect, or consequential, suffered by any person using or relying on this information whether caused by reason of any inaccuracy, error, omission or misinterpretation.

## **Major Market Observations**

## Q4, 2016

- As per the Monthly Statistical Bulletin of December 2016 which was published by NCSI, the population of the Sultanate reached to 4,550,538 inhabitants .
- The total number of households are reported as 575,000 by end of 2015 as per the NCSI estimation.

The penetration of different services stood at the following levels at the end of the Q4/2016:

- Fixed line 9.3% of inhabitants
- Mobile subscriptions 151% of inhabitants
- Fixed Internet 49.95% of households.

The Active Mobile Broadband Subscribers' reached to 88.9% of inhabitants by the end of Q4/2016 with the total active subscribers of 4,047,014.

The Blackberry Subscribers represent 0.26% of the total Mobile Subscribers base at the end of Q4/2016.

During the Q4/2016, the TRA received and approved:

- 9 new and revised Tariff Plans.
- 46 promotional tariff offers

TRA type approved 187 telecom equipments, and issued 7 authorizations for importing equipments. In addition, TRA Issued 149 releases to customs for importing telecom equipments during Q4/2016.

TRA carried out 51 inspections of dealers to check compliance of TRA regulations.

## <u>Summary of Main Telecommunications Indicators</u>

# Q4, 2016

Indicator	Fixed Telephony Service (other than Fixed Internet)	Fixed Internet Service	Mobile Service
Subscribers	422,518	287,213	6,866,260
Penetration rate <sup>1</sup>	73.48% of household	49.95% of household	151% of inhabitant
Revenue (Mln.RO)	29.429	26.518	146.826
International Outgoing Voice Minutes (mln),	6.060	NA	227.622
ARPU, (RO) <sup>2</sup>	5.2	30.78	7.130
Service Providers	Omantel, Ooredoo, Teo, Connect Arabia International	Omantel, Ooredoo,Awaser	Oman Mobile, Ooredoo, Friendi, Renna, Teo

<sup>&</sup>lt;sup>1</sup>Note: Penetration rate is the total number of subscriptions on every 100 inhabitants/households. The Q4/2016 penetration rates are calculated based on the population (4,550,538), as per the latest bulletin published by NCSI – December 2016. Households: 575,000 (as per the NCSI estimation for year 2015).

<sup>&</sup>lt;sup>3</sup>Household figure used is 575,000 as per NCSI estimation for the year 2015.

	Q4/2016	Q3/2016	% Change
Population	4,550,538	4,490,943	1.33
Households <sup>3</sup>	575,000	575,000	-

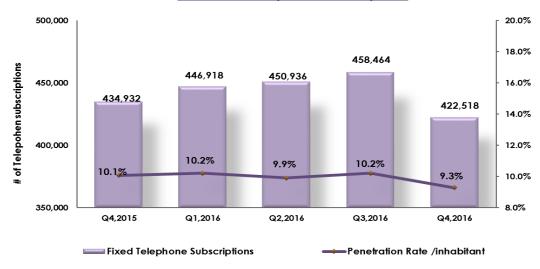
 $<sup>^2</sup>$  ARPU (the average revenue per user). The Fixed ARPU is based on revenue for the fixed telephone lines (post-paid and prepaid).

# Fixed Telephone Service

Type of Service	Q4/2016	Q3/2016	% Change
Fixed Telephone Subscriptions:1			
1.1 Analouge Fixed Telephone Lines:(Postpaid+ Prepaid)	297,094	412,517	-28%
1.2 VoIP Subscription	73,377	533	13666.8%
1.3 WLL Connections	1,574	1,526	3.1%
1.4 ISDN Channels (Equivalent DELs)*	43,672	37,080	17.8%
1.5 Public Telephone – Payphones	6,801	6,801	0.0%
1.Total Fixed Telephone Lines in Operation (1.1-1.5)	422,518	458,464	-7.8%
Fixed Line Penetration per 100 Inhabitant	9.29%	10.2%	
			-0.91
Fixed Line Penetration Per 100 Household	73.48%	79.73%	-6.3%

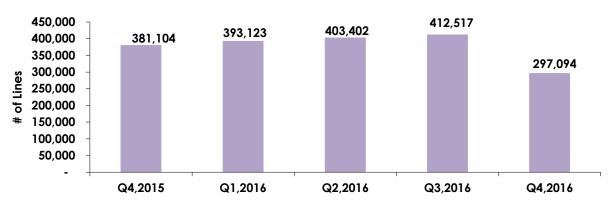
- Note: The Q4/2016 penetration rates are calculated based on the population (4,550,538), as per the latest bulletin published by NCSI December 2016.
- Households: 575,000 (as per the NCSI estimation for year 2015).
- Ooredoo reviewed the calculation of the fixed telephone subscriptions as per the ITU definition. Some connected through IP protocol so considered VoIP subscriptions not Analogue and some related to (PRI and SIP) was calculated as lines not channels which is not corrects per ITU definition. This resulted in drop in the total fixed telephone subscriptions.
- ISDN (Integrated services digital network): a network that provides digital connections between user-network interfaces.

#### **Total Fixed Telephone Subscriptions**



- Fourth Quarter 2016 achieved 422,518 fixed line subscribers with decrease of 7.8% due to the technical adjustment and recalculation of the indicators as per ITU standard as compared to the previous quarter (Q3/2016).
- The penetration rate per inhabitant of the fixed line subscriptions decreased by 0.9% during the last quarter.
- ➤ However, the penetration rate per household increased by -6.3% during the fourth quarter from 79.73% to 73.48%.

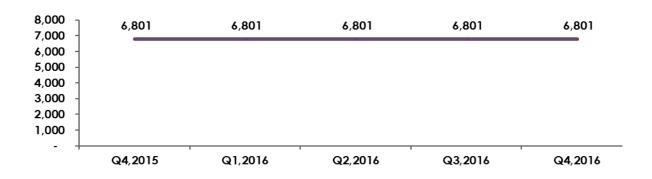
Total Analouge Fixed Telephones Subscriptions: (Post paid & Pre paid)



■ Total Analouge Fixed Telephone Subscriptions

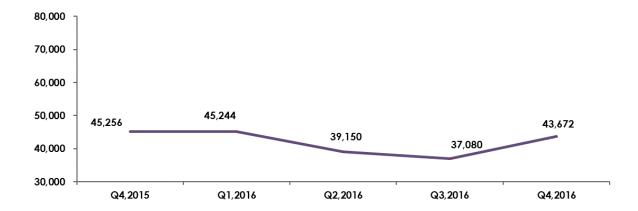
➤ Total analogue postpaid and prepaid fixed telephone subscriptions fixed declined during the fourth quarter 2016 by 28%. The reason behind such decline is the recalculation of fixed line subscriptions of services providers as some fixed lines (postpaid & prepaid) moved to VoIP subscription and as per ITU definition these lines are provided through internet protocol.

**Pay Phones** 



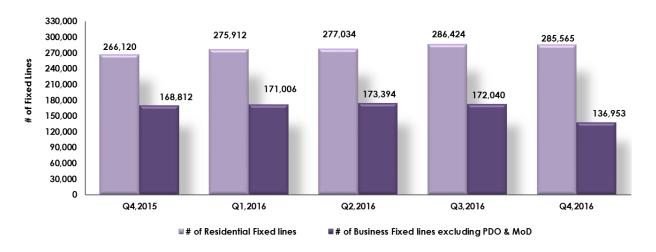
Public payphones remained unchanged since last year with the total of 6,801 pay phones in service. These are being kept as a license obligation.

#### **ISDN Equivalent Channels**



During the fourth quarter 2016, the ISDN1 equivalent channels increased by 18% reaching 43,672 channels.

#### **Residential Vs Business Fixed Line Subscribers**



- > During the fourth quarter, both residential and business fixed line subscriptions decreased slightly by 0.3% and 20.4% respectively as compared to the previous quarter.
- The split between fixed residential and business lines stood at 60.57% and 39.43% respectively in Q4/2016.

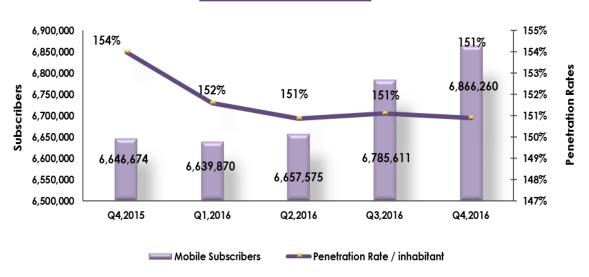
ISDN (Integrated services digital network): a network that provides digital connections between user-network interfaces.

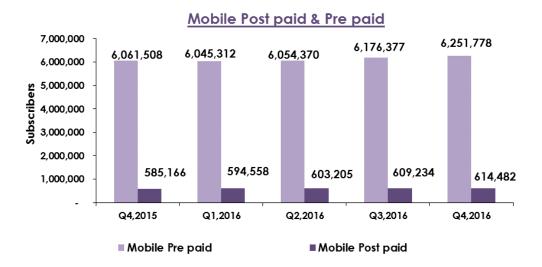
# **Mobile Service**

Mobile Subscribers	Q4/2016	Q3, 2016	% change
1 Post Paid			
1.1 Operators	614,482	609,234	0.86%
Total Postpaid Subscribers	614,482	609,234	0.86%
2 prepaid			
2.1 Operators	5,080,636	5,049,204	0.62%
2.2 Resellers	1,171,142	1,127,173	3.9%
Total Prepaid Subscribers	6,251,778	6,176,377	1.2%
Total Mobile Subscribers: (2.1+2.2)	6,866,260	6,785,611	1.18%
Mobile Penetration/100 Inhabitant	151%	151%	0%
BlackBerry Subscriptions:			
3.1 Post Paid	3,310	3,963	-16.48%
3.2 Pre-Paid	14,342	19,659	-27.05%
Total BlackBerry Subscribers (3.1+3.2)	17,652	23,622	-25.3%
% of BlackBerry Mobile Subscribers of total Base in Oman	0.26%	0.35%	-25.7%

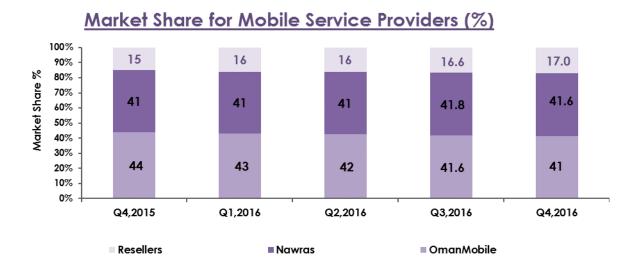
- Note: The Q4/2016 penetration rates are calculated based on the population (4,550,538), as per the latest bulletin published by NCSI – December 2016.
- The total mobile subscribers increased slightly by 1.18% during the fourth quarter 2016 achieving a total of 6,866,260 subscribers base.
- > The mobile penetration stayed constant during fourth quarter.

# **Mobile Subscribers**





- ➤ Post-paid mobile subscribers reached 614,482 with 0.86% growth over the previous quarter.
- > Prepaid mobile subscribers increased by 1.2 % reaching to 6,251,778 subscribers.



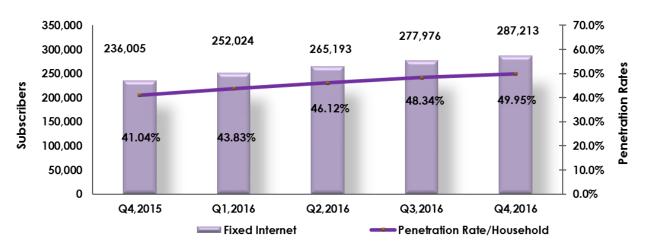
> During the fourth quarter 2016, Omantel mobile and Ooredoo almost attained equal market share. The Resellers attained 17% market share slightly higher than previous quarter 2016.

# **Internet Services**

Type of Service	Q4/2016	Q3/2016	% change
Fixed Narrowband			
1.1Dial-up Fixed Internet Subscribers	2,531	2,581	-1.94%
1.2 Internet Leased Lines(Narrowband)	35	1	•
1. Total fixed Narrowband Subscriptions : (1.1+1.2)	2,531	2,581	-1.94%
Fixed Broadband Subscribers			
2. Total Fixed Broadband Subscribers	284,647	275,395	%3.36
Total Fixed Internet Subscribers (1+2)	287,213	277,976	%3.32
Fixed Internet Penetration /100 Household	49.95%	48.34%	%1.61
Fixed Broadband Subscribers Penetration/100 Household	49.50%	47.89%	%1.61
Active Mobile Broadband Subscribers <sup>1</sup>			
3.1 Dedicated mobile-broadband Subscribers <sup>1</sup>	680,771	2,539,307	NA
3.2 Standard mobile-broadband Subscribers <sup>1</sup>	3,366,243	1,298,782	-
Total Active Mobile Broadband Subscribers (3.1+3.2)	4,047,014	3,838,089	%5.44
Active Mobile Broadband Penetration Rate /100 Inhabitant	88.9%	85.5%	%3.43

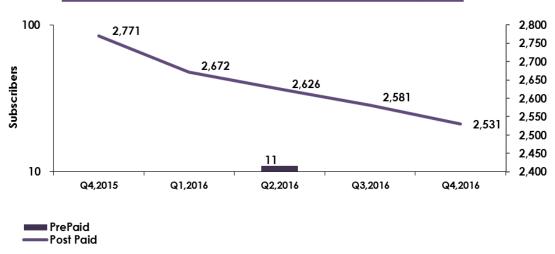
- Note: The Q4/2016 penetration rates are calculated based on the population (4,550,538), as per the latest bulletin published by NCSI – December 2016.
- Households: 575,000 (as per the NCSI estimation for year 2015).
- ¹the big variance in the Dedicated & Standard mobile-broadband subscriptions resulted from the update
  recalculation of operators subscriptions as per the ITU standard and the updated classification between the two
  categories. Calculating the percentage change is not applicable between Q4 & Q3 as they are not
  comparable in the method.

#### Fixed Internet Subscriptions (Dialup+Fixed Broadband)

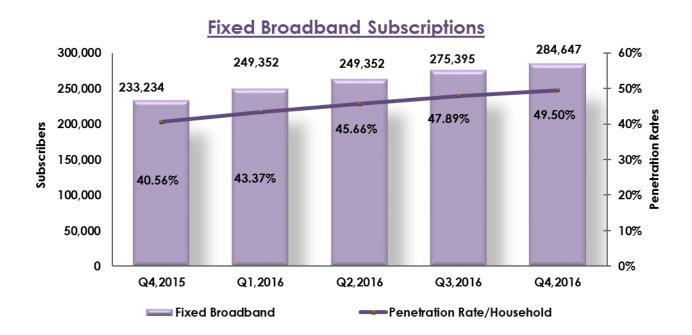


- The total fixed internet subscriptions were increased by 3.3% during the fourth quarter 2016 reaching 287,213 subscriptions against the 3<sup>rd</sup> quarter 2016.
- During the reported quarter, the fixed internet penetration rate per household reached 49.95%, which is almost 1.6% higher than the previous quarter.

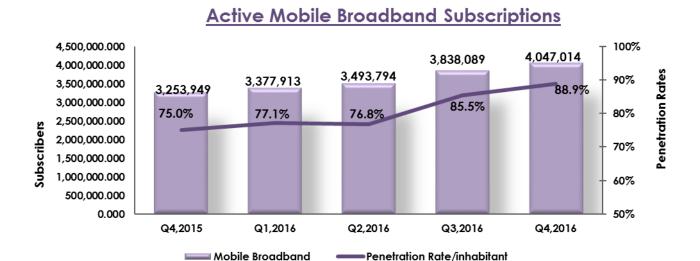
#### Internet Dial-up Subscribers (Prepaid & Postpaid)



> Since last year, dial up postpaid internet subscribers have been gradually shrinking reaching to 2,531 subscribers by end of Q4, 2016.

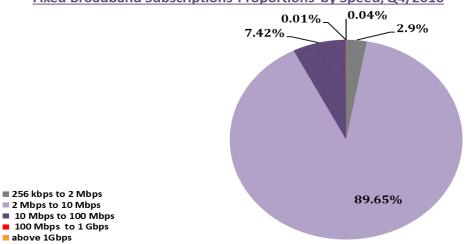


➤ During the fourth quarter 2016, fixed broadband segment has experienced 3.2% growth over the previous quarter. Fixed Broadband subscription reached 284,647 subscribers with penetration rate of 49.50% per household.



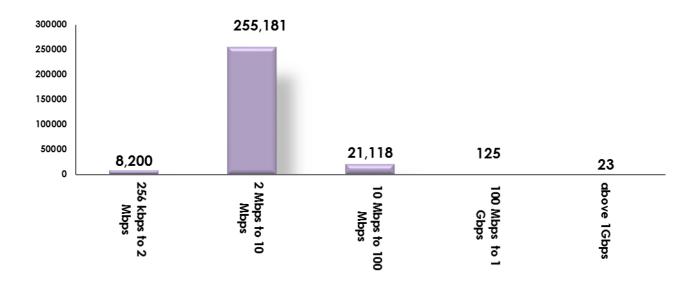
During the fourth quarter 2016, total active mobile broadband subscribers rose by 5.4% to 4,047,014 from 3,838,089. Also, the penetration rate increased by 3.4% from 85.5% to 88.9% per inhabitant.

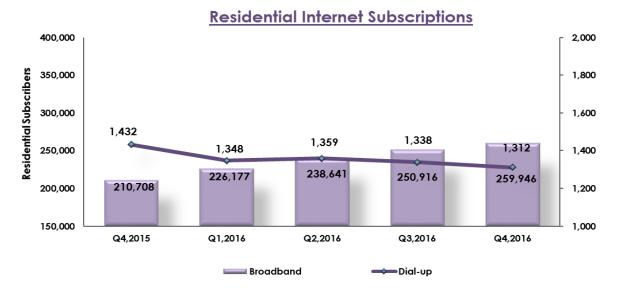




- 2.9% of fixed Broadband subscribers during Q4,2016 had access speed of 256 Kbps to 2 Mbps.
- 89.65% of fixed Broadband subscribers during Q4,2016 had access speed of 2 Mbps to 10 Mbps.
- > 7.42% of fixed Broadband subscribers during Q4, 2016 had access speed of 10 Mbps to 100 Mbps.
- > 0.04% of fixed Broadband subscribers during Q4, 2016 has access speed of 100 Mbps to 1 Gbps.
- 0.01% of fixed Broadband subscriptions during Q4,2016 has access speed of above 1 Gbps.

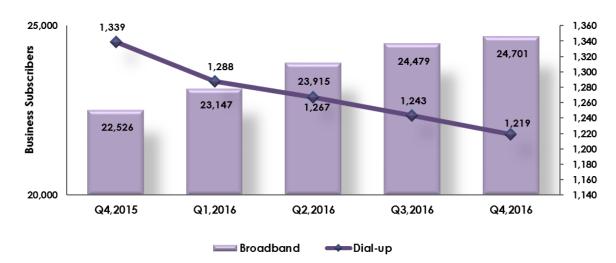
#### Fixed Broadband Subscriptions by Internet Speed, (Q4/2016)



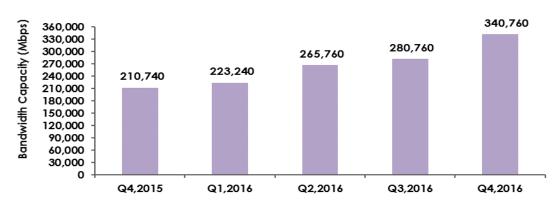


- > The residential broadband subscriptions in the above chart expanded by 4% during the fourth quarter 2016, while the residential dial up subscriptions declined by 1.9% over the fourth quarter 2016.
- > The below chart presents a slight increase of 1% in the business segment of broadband, while 1.9% drop in the dial up internet subscribers.

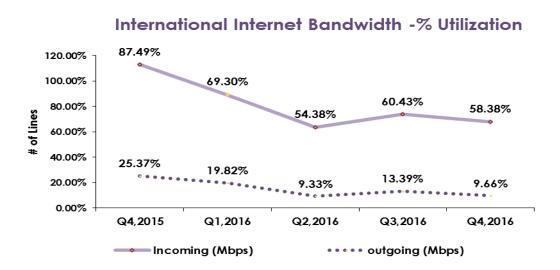
## **Business Internet Subscribers**



#### International Internet Bandwidth (Mbps)

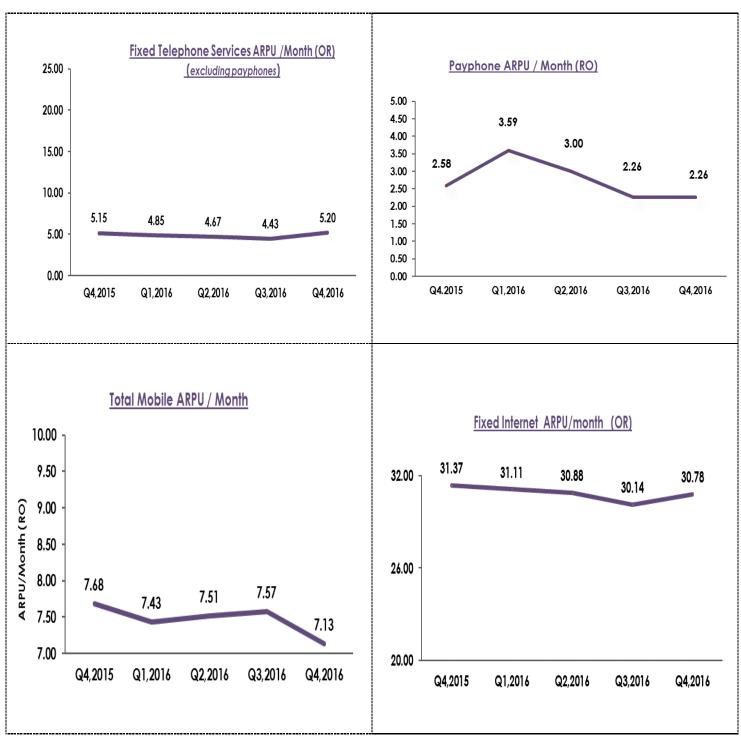


During the fourth quarter 2016, the operators had 340,760 Mbps capacity for international internet bandwidth as compared to the previous quarter when it was 280,760 Mbps.



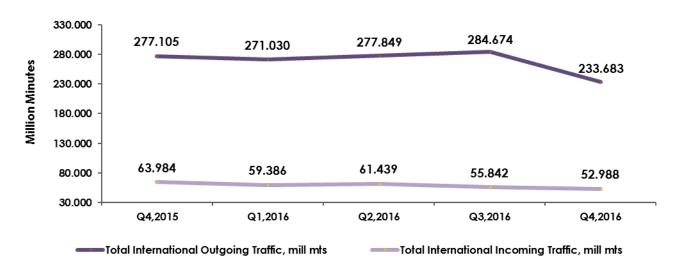
Out of 340,760 Mbps capacity, on average 9.66% was utilized for the outgoing and 58.38% for the incoming traffic.

# **ARPUs**<sup>1</sup>



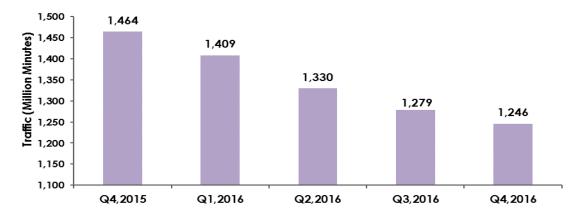
# **Traffic**

#### International Gateway Traffic (Million Minutes)



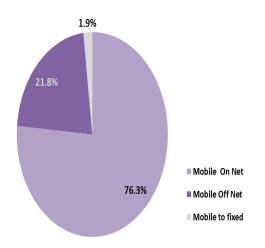
The fourth quarter 2016 experienced decline in the outgoing international traffic by 17.91% and in the incoming traffic by 5.1% against the third quarter 2016.

#### Domestic outgoing mobile minutes, (million)

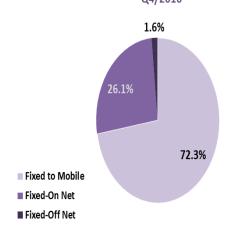


During the fourth quarter 2016, the domestic outgoing mobile traffic declined by 2.58% to 1,246 million minutes from the previous quarter traffic of 1,279 million minutes.

#### % Distribution of domestic outgoing mobile minutes, Q4/2016



#### % Distribution of domestic outgoing fixed minutes, Q4/2016



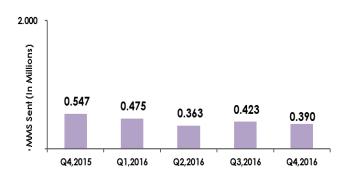
During the fourth quarter 2016, mobile to mobile (On net) traffic had the major share of the 76.3% out of the total domestic outgoing traffic. While the Off net mobile domestic traffic has 21.8%, share Mobile to fixed Traffic represents 1.9% of the mobile domestic traffic.

During the fourth quarter 2016, the domestic outgoing fixed traffic achieved 72.3% share for fixed to mobile, 26.1% for fixed to fixed (On-net), and 1.6% for fixed to fixed (Off-net) traffic.

#### SMS Sent (In Millions), Q4/2016



#### MMS Sent (In Millions), Q4/2016



increased to reach 323 million messages by the fourth quarter 2016 from 321 million messages in the third quarter, 2016.

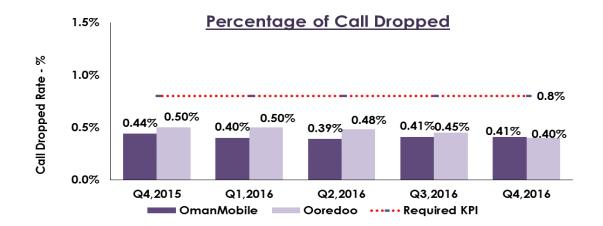
Total outgoing SMS (short messages) Traffic The number of outgoing MMS (multimedia massages) has been gradually decreasing since the last year.

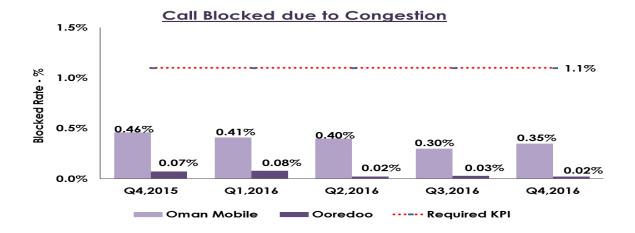
# **Quality of Service**

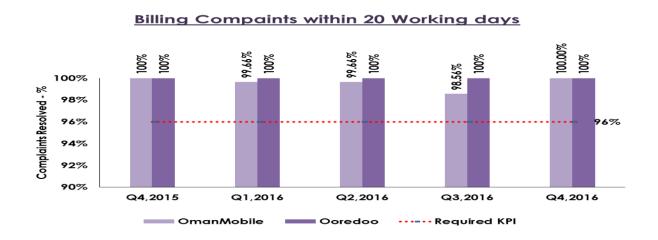
## **Mobile Services KPIs\***

Mobile Services KPIs	Required KPI	Q4/	2016	Q3/2016		
	(Quarterly)	Oman Mobile %	Ooredoo %	Oman Mobile %	Ooredoo %	
Percentage of Calls     Dropped	Less than 0.8%	0.41	0.40	0.41	0.45	
2. Percentage of Calls Blocked due to Congestion	Less than 1.1%	0.35	0.02	0.30	0.03	
3. Percentage of billing complaints resolved within 20 working days	More than 96%	100	100	98.56	100	

<sup>\*(</sup>QoS indicators are as measured and reported by the operators, not audited or verified figures by TRA)





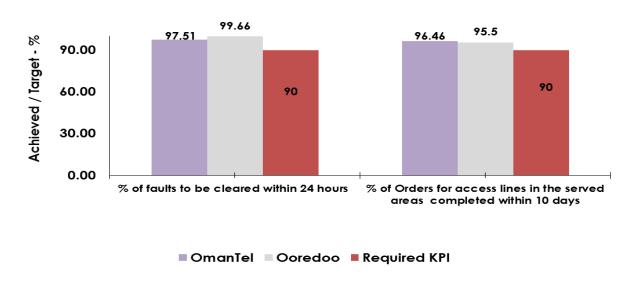


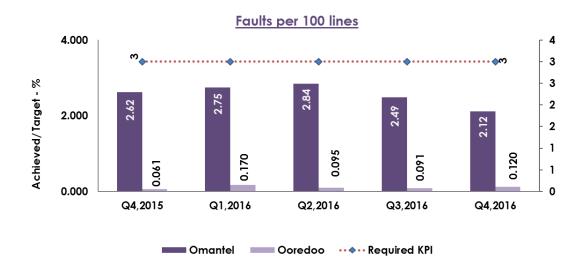
# **Fixed Services KPIs\***

		Required KPI	Q4/2	016	Q3/2016		
Fix	ked Services KPIs	·	Omantel	Ooredoo	Omantel	Ooredoo	
		(Quarterly)	%	%	%	%	
1.	Faults per 100 lines per quarter	Less than 3	2.12	0.120	2.49	0.091	
2.	% of faults to be cleared within 24 hours	More than 90%	97.51	99.66	96.56	99.37	
3.	Unsuccessful call Ratio for local and national fixed calls	Less than 1%	0.01	0.150	0.01	0.16	
4.	Percentage of Orders for access lines in the served areas completed within 10 days	More than 90%	96.46	95.5	96.91	98.71	
5.	Billing complaints per 1000 Bills	Less than 1.5	0.23	0.646	0.22	0.169	
6.	Percentage of billing complaints resolved within 20 working day	More than 96%	100	100	99	100	

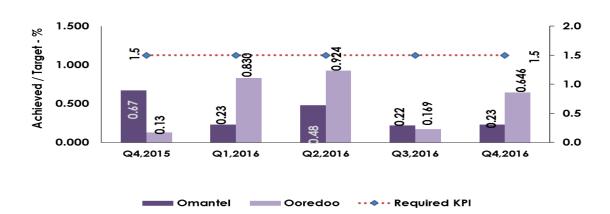
<sup>\*(</sup>QoS indicators are as measured and reported by the operators, not audited or verified figures by TRA)

#### Fixed KPIs (Higher than RED bar is GOOD), Q4/2016

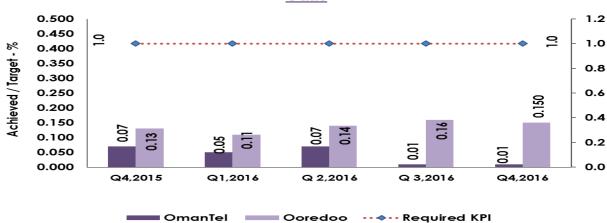




#### Billing complaints per 1000 Bills



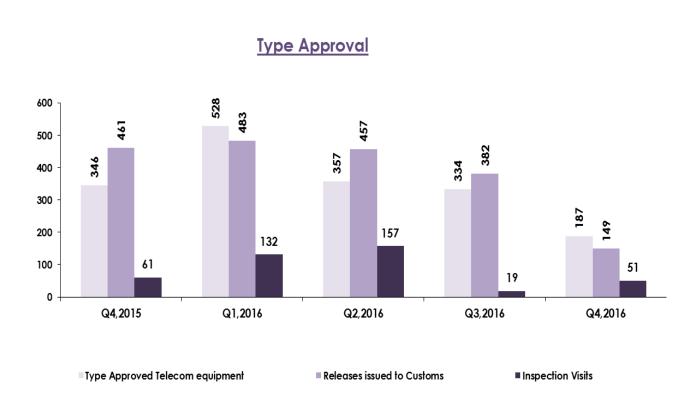
# Unsuccessful call Ratio for local and national fixed calls

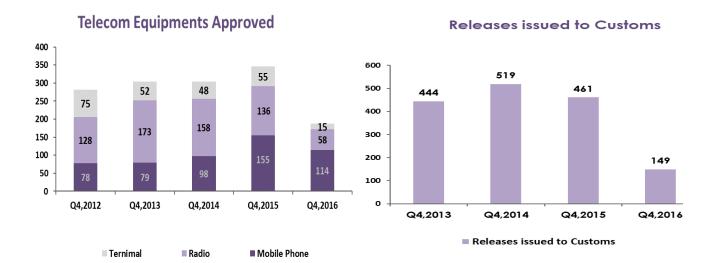


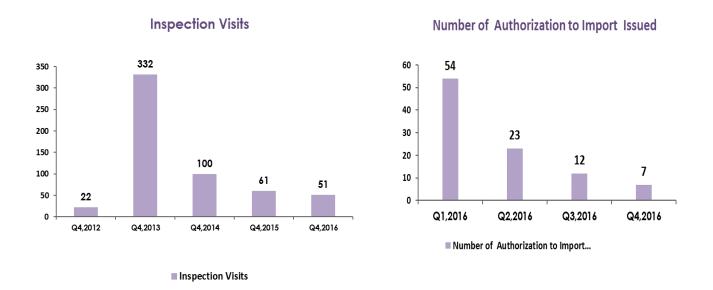
# Type Approval

## **During the fourth Quarter 2016, TRA:**

- > Approved a total number of 187 (Previous Quarter 334) Telecom Equipment.
- > Issued 149 (Previous Quarter: 382) Releases to Customs for Import of Telecom equipment.
- ➤ Inspected 51 (Previous Quarter: 19) dealerships.







# **Tariffs & Promotions**

	Number of Promotions approved Q4, 2016																
	Voice N	Vational	Voice Intern	national	Da	ta		nections/ arter Pack	International	Value	Top-Up	Leased			~		
Licensee	Mobile	Fixed	Mobile	Fixed	Mobile	Fixed	Mobile	Fixed	Mobile Roaming	Services	Added Services		Bundled services	line/MPLS	Miscellanious	Total	%
Renna	2		3		2		1							8	17%		
Friendi	1		1				2				2			6	13%		
Teo			4											4	9%		
Omantel	1		1		4		1		2	1	6		1	17	37%		
Ooredoo					1	2	1		1		4			9	20%		
Awaser						2								2	4%		
Total	4	0	9	0	7	4	5	0	3	1	12	0	1	46	100%		
	8.7%	0.0%	19.6%	0.0%	15.2%	8.7%	10.9%	0.0%	6.5%	2.2%	26.1%	0.0%	2.2%	100%	100/0		

	Number of new services, Tariffs and Revisions approved Q4, 2016																					
	Voice Voice International Data New Connections/ Starter Pack International Value	Data I		Data I				· ·					Value   and	Added Bun	Added	Added	Mobile Added	Top-Up	Leased line/MPLS	Miscellanious	Total	_
Licensee	Mobile	Fixed	Mobile	Fixed	Mobile	Fixed	Mobile	Fixed		Bundled services	%											
Renna					1									1	11%							
Friendi					1						1			2	22%							
Teo			2											2	22%							
Omantel					1	2				1				4	44%							
Ooredoo														0	0%							
Awaser														0	0%							
Total	0	0	2	0	3	2	0	0	0	1	1	0	0	9	10007							
	0%	0%	22%	0%	33%	22%	0%	0%	0%	11%	11%	0%	0%	100%	100%							

# Number of promotions/ new services and revisions segment wise

No. of Promotions	Mobile	Fixed	Mobile & Fixed	Total
	42	4	0	46
%	91%	9%	0%	100%
No. of new services	5	2	2	9
and revisions	56%	22%	22%	100%

No. of Promotions	Personal	Corporate	Personal & Corporate	Total
	44	2		46
%	93%	0%	0%	93%
	9	0	0	9
No. of new services and revisions	100%	0%	0%	100%

No. of Promotions	Prepaid	Postpaid	Prepaid & Postpaid	Total
	24	9	13	46
%	67%	17%	17%	100%
	3	3	3	9
No. of new services and revisions	33%	33%	33%	100%

#### Summary of Promotion's Statistics for Q4/2016:

- Number of Promotions increased by 28% comparing with Q4 2015 from 36 to 45.
- Most of Promotions approved or filed related to Top-Up and Bundled Services (26%), International Voice (20%), MBB(15%) and Welcome Packs (11%).
- Most of services and revisions approved and filed dominated by MBB (33%), FBB and International voice with the same percentage each of 22% and Value Added Services, Top-Up (11%) and Bundled Services (11%).
- Non-dominant licensees contributed for 43 % of the total promotions approved and filed this quarter and for 56% of the total Services and Revisions approved and filed for the same quarter.

#### Most Remarkable Aspects of Promotions for the subject quarter:

- This period witnessed launching number of promotions on the occasion of National Days such as reductions in rates of local voice, free data usage, Bonus credit and special international roaming packages.
- Omantel introduced 3 new prepaid bundles on a promotional basis.
- > Omantel also launched their double data offering on their Baqati plans in return for a one-year commitment.
- Ooredoo introduced Musafir World for first time as a promotion.
- > Renna introduced a promotion on their new VOIP international Calling Service.

#### The most important services and revisions approved this quarter are as follows:

- Omantel made a revision to their Omantel TV Plus (IPTV) Service reflecting the revamp on their fixed broadband plans.
- Omantel reduced the Pay as You Go Rate for data for subscribers of Baqati Basic from 29Bz/MB to 9 Bz/MB.
- Omantel introduced a new service offering consumers temporary disconnection of their fixed broadband service.

- > Direct Carrier Billing was introduced by Omantel as a permanent value added service.
- Friendi decreased the rate of Friendi to Friendi call Plan from 19 Bz/Min to 10 Bz/Min.
- > TeO introduced new Allo Card and made a revision to the rates of international calling.