For immediate release

(Press Release No.104/2017)

Information Note to the Press





TELECOM REGULATORY AUTHORITY OF INDIA

New Delhi, 12th December, 2017 (www.trai.gov.in)

Highlights of Telecom Subscription Da	ta as on 3	1st Octob	er, 2017
Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Total Telephone Subscribers (Million)	1178.20	23.53	1201.72
Net Addition in October, 2017 (Million)	-4.85	-0.14	-4.99
Monthly Growth Rate	-0.41%	-0.60%	-0.41%
Urban Telephone Subscribers (Million)	677.52	20.02	697.54
Net Addition in October, 2017 (Million)	-7.25	-0.11	-7.35
Monthly Growth Rate	-1.06%	-0.52%	-1.04%
Rural Telephone Subscribers (Million)	500.68	3.51	504.19
Net Addition in October, 2017 (Million)	2.40	-0.04	2.37
Monthly Growth Rate	0.48%	-1.04%	0.47%
Overall Tele-density*(%)	91.11	1.82	92.92
Urban Tele-density*(%)	166.17	4.91	171.08
Rural Tele-density*(%)	56.54	0.40	56.94
Share of Urban Subscribers	57.50%	85.09%	58.04%
Share of Rural Subscribers	42.50%	14.91%	41.96%
Broadband Subscribers (Million)	322.18	17.98	340.16

- In the month of October, 2017, 9.60 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 305.39 million at the end of Sep-17 to 314.99 million at the end of Oct-17, since implementation of MNP.
- Number of active wireless subscribers (on the date of peak VLR[#]) in October, 2017 was 1,025.79 million.

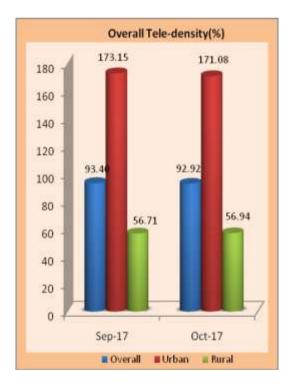
Note:

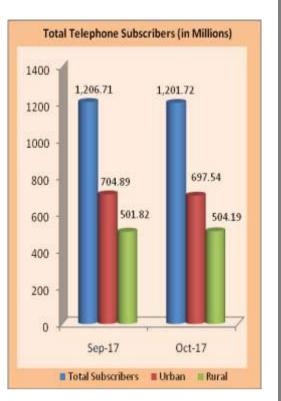
- Information in this Press Release is based on the data provided by the Service Providers
- * Based on the population projections from Census data published by the Office of Registrar General & Census Commissioner of India.
- # VLR is acronym of Visitor Location Register. The dates of peak VLR for various TSPs are different in different service areas.

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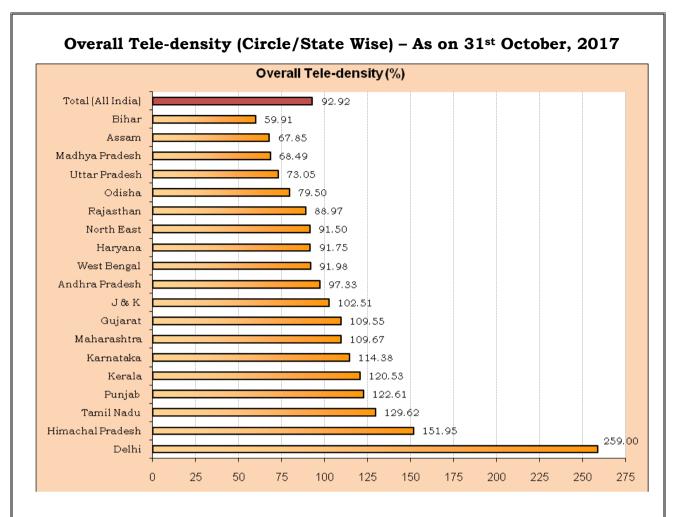
I. Total Telephone Subscribers

The number of telephone subscribers in India slightly declined from 1,206.71 million at the end of Sep-17 to 1,201.72 million at the end of Oct-17, thereby showing a monthly growth rate of -0.41%. The urban subscription declined from 704.89 million at the end of Sep-17 to 697.54 million at the end of Oct-17, however, the rural subscription increased from 501.82 million to 504.19 million during the same period. The monthly of growth rates urban and rural subscription were -1.04% and 0.47% respectively during the month of Oct-17.





• The overall Tele-density in India declined from 93.40 at the end of Sep-17 to 92.92 at the end of Oct-17. The Urban Tele-density declined from 173.15 at the end of Sep-17 to 171.08 at the end of Oct-17, however the Rural Tele-density increased from 56.71 at the end of Sep-17 to 56.94 at the end of Oct-17. The share of urban subscribers and rural subscribers in total number of telephone subscribers at the end of Oct-17 was 58.04% and 41.96% respectively.



Notes:

- 1. Population data/projections are available state wise only.
- 2. Tele-density figures are derived from the telephone subscriber data provided by the access service providers and the projections of population published by the Office of the Registrar General & Census Commissioner, India.
- 3. Telephone subscriber data for Delhi, includes, apart from the data for the State of Delhi, wireless subscriber data for the areas served by the local exchanges of Ghaziabad & Noida (in Uttar Pradesh) and Gurgaon & Faridabad (in Haryana).
- 4. Data/information for West Bengal includes Kolkata, Maharashtra includes Mumbai, Tamil Nadu includes Chennai and Uttar Pradesh includes UPE & UPW service area(s).
- 5. Data/information for Andhra Pradesh includes Telengana, Madhya Pradesh includes Chhatishgarh, Bihar includes Jharkhand, Maharashtra includes Goa, Uttar Pradesh includes Uttarakhand, West Bengal includes Sikkim and North-East includes Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland & Tripura States.

II. Category-wise Growth in subscriber base

			•				
Circle		s in the month ber, 2017	Telephone Subscriber base as on 31 st October, 2017				
Category	Wireline segment	Wireless segment	Wireline segment	Wireless segment			
Circle A	-61,065	-210,223	9,325,567	410,080,454			
Circle B	-48,356	-2,658,245	6,066,382	470,618,972			
Circle C	-11,117	-1,109,693	1,056,480	176,389,688			
Metro	-21,366	-867,113	7,080,094	121,106,537			
All India	-141,904	-4,845,274	23,528,523	1,178,195,651			

Circle Category-wise Net Additions in Telephone Subscribers in the month of October, 2017

Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of October, 2017

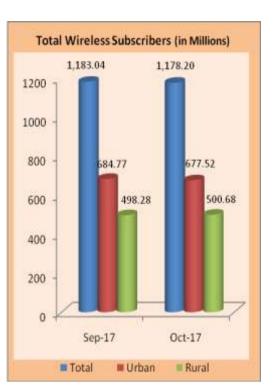
Circle		wth rate (%) to Oct-17)	Yearly growth rate (%) (Oct-16 to Oct-17)				
Category	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment			
Circle A	-0.65	-0.05	-3.43	8.53			
Circle B	-0.79	-0.56	-7.69	9.26			
Circle C	-1.04	-0.63	-10.71	8.71			
Metro	-0.30	-0.71	-0.37	12.56			
All India	-0.60	-0.41	-4.04	9.25			

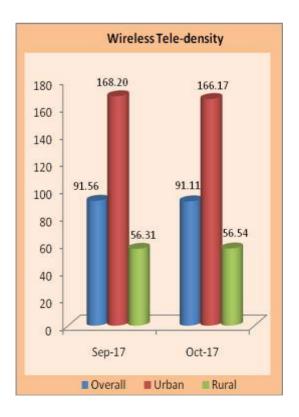
Note: Circle Category-Metro includes Delhi, Mumbai and Kolkata. Data for Chennai has been included in Circle Category-A, as part of TamilNadu.

- As can be seen in the above tables, in wireless segment, all Categories showed negative monthly growth rate in subscriber base during the month of Oct-17. Metro Circles showed maximum decline rate in wireless subscriber base during the month.
- In Wireline segment, Circles of Category-A showed maximum monthly net decline in number of subscribers during the month of Oct-17. However, Circles of Category-C showed maximum monthly decline rate in wireline subscriber base during the same period.

III. Wireless Subscribers

Total wireless subscribers (GSM, CDMA & LTE) declined from 1,183.04 million at the end of Sep-17 to 1,178.20 million at the end of Oct-17, thereby registering a monthly growth rate of -0.41%. The Wireless subscription in urban areas declined from 684.77 million at the end of Sep-17 to 677.52 million at the end of Oct-17, however wireless subscriptions in rural areas increased from 498.28 million to 500.68 million during the same period. The monthly growth rates of urban and rural wireless subscription were -1.06% and 0.48% respectively.



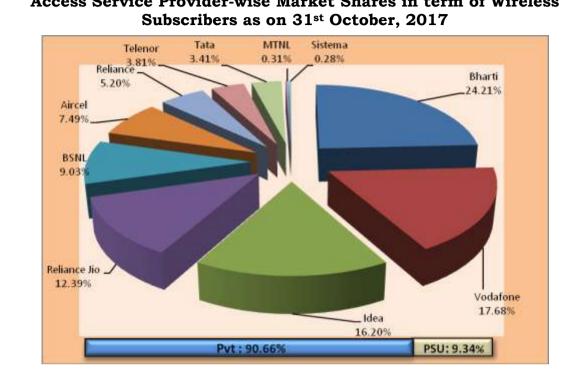


The Wireless Tele-density in India declined from 91.56 at the end of Sep-17 to 91.11 at the end of Oct-17. The Urban Wireless Tele-density declined from 168.20 at the end of Sep-17 to 166.67 at of Oct-17, however the end Rural Wireless Tele-density increased from 56.31 to 56.54 during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 57.50% and 42.50%respectively at the end of Oct-17. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

• As on 31st October, 2017, the private access service providers held 90.66% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 9.34%.

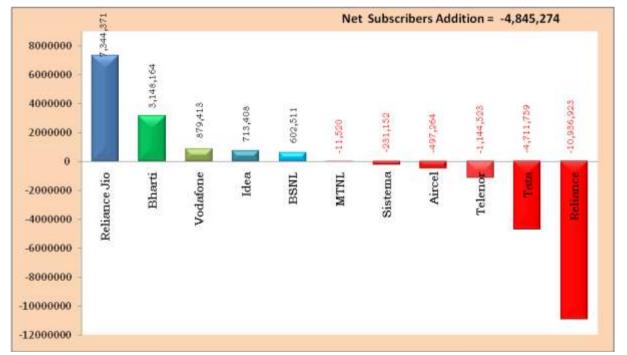
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• The graphical representation of access service provider-wise market share and net additions in wireless subscriber base are given below:



Access Service Provider-wise Market Shares in term of Wireless

Net Additions* in Wireless Subscribers of Access Service Providers in the Month of October, 2017

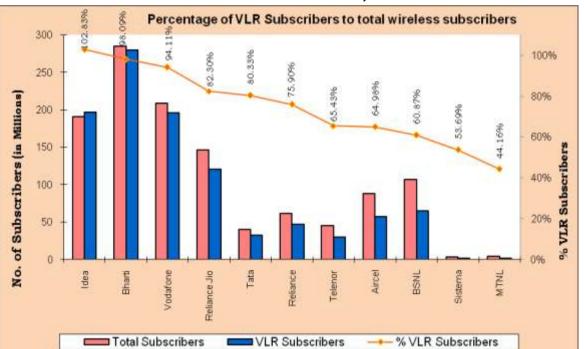


*Note: On noticing that while reporting number of subscribers, some of the TSPs were deducting inactive subscribers. A Direction was issued on 18th August 2017 to TSPs to strictly adhere to the Department of Telecommunications' methodology for reporting their number of subscribers. However, some of the Telecom Service Providers are yet to comply with the Direction.

IV. Active Wireless Subscribers (VLR Data)

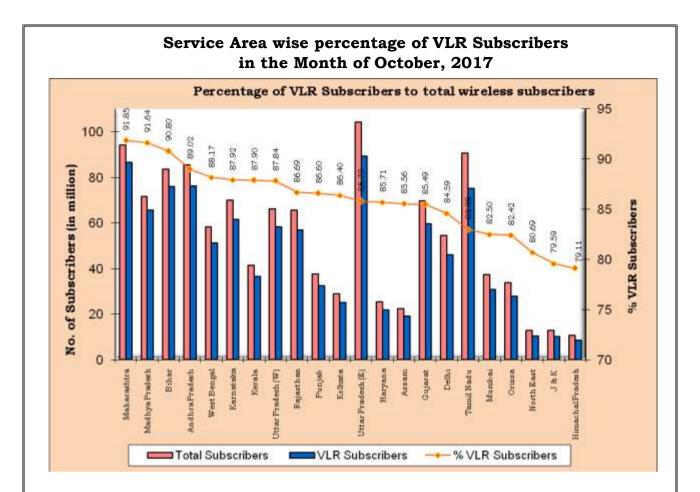
- Out of the total wireless subscribers (1,178.20 million), 1,025.79 million wireless subscribers were active on the date of peak VLR in the month of Oct-17. The proportion of active wireless subscribers was approximately 87.06% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of Oct-17 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

Access Service Provider-wise Percentage of VLR Subscribers in the Month of October, 2017



Note-

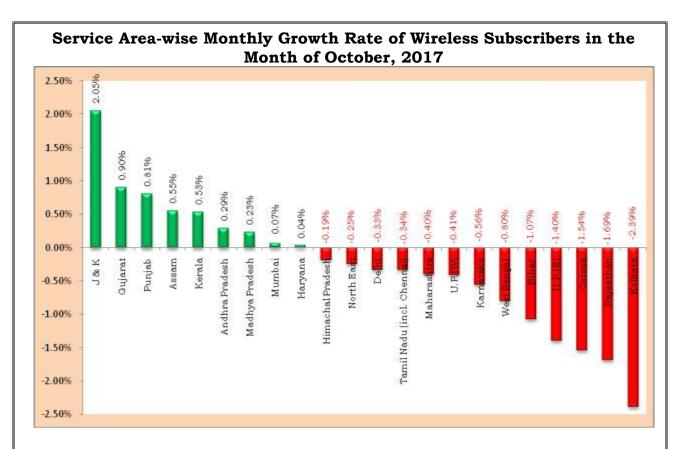
1. Number of VLR subscribers of Idea Cellular was more than its subscriber base due to a large number of inroamers in its network.



V. Growth in Wireless Subscribers

Access Service Provider-wise Monthly Growth Rate of Wireless Subscribers in the Month of October, 2017





• During the month of Oct-17, J&K service area showed maximum growth rate in wireless subscribers. However, Kolkata service areas showed maximum decline rate in wireless subscribers during the month.

VI. Mobile Number Portability (MNP)

- Intra-service area Mobile number portability (MNP) was implemented first in Haryana service area w.e.f. 25.11.2010 and in the rest of the country w.e.f. 20.01.2011. Inter-Service Area MNP has been implemented in the country w.e.f. 03.07.2015. Now, the wireless telephone subscribers can retain their mobile numbers when they relocate from one service area to another.
- During the month of Oct-17, a total of 9.60 million requests were received for MNP. With this, the cumulative MNP requests increased from 305.39 million at the end of Aug-17 to 314.99 million at the end of Oct-17, since the implementation of MNP.

- In MNP Zone-I (Northern and Western India), the highest number of requests till date have been received in Rajasthan (about 26.24 million) followed by Gujarat (about 22.96 million).
- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 33.51 million) followed by Andhra Pradesh (about 28.30 million).

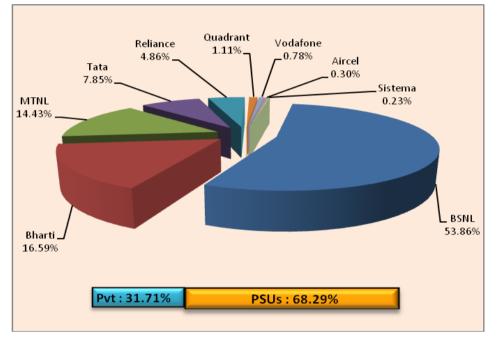
Service Area W	ise MNP Status at	the end of Octobe	r, 2017
Zone -	ſ	Zone -	- II
Service Area	Number of Porting Requests	Service Area	Number of Porting Requests
Delhi	14515662	Andhra Pradesh	28297363
Gujarat	22962537	Assam	1724560
Haryana	12737488	Bihar	11302859
Himachal Pradesh	1231873	Karnataka	33512726
Jammu & Kashmir	244610	Kerala	8378315
Maharashtra	22024944	Kolkata	6617720
Mumbai	17229800	Madhya Pradesh	21320777
Punjab	12402842	North East	621253
Rajasthan	26239980	Orissa	6211769
Uttar Pradesh - East	16276180	Tamil Nadu	19416196
Uttar Pradesh - West	14364528	West Bengal	17359725
Total	160,230,444	Total	154,763,263
Total (Zone-I + Zone-II)			314,993,707
Net Addition (in October, 2017)	1		9,600,141

VII. Wireline Subscribers

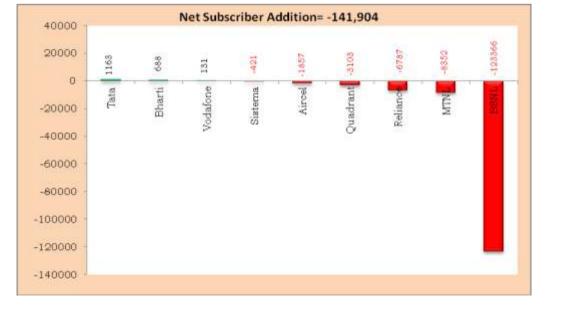
 Wireline subscribers further declined from 23.67 million at the end of Sep-17 to 23.53 million at the end of Oct-17. Net decline in the wireline subscriber base was 0.14 million with a monthly decline rate of 0.60%. The share of urban and rural subscribers in total wireline subscribers were 85.09% and 14.91% respectively at the end of Oct-17.

- The Overall Wireline Tele-density(%) declined from 1.83 at the end of Sep-17 to 1.82 at the end of Oct-17. Urban and Rural Wireline Teledensity were 4.91 and 0.40 respectively during the same period.
- BSNL and MTNL, the two PSU access service providers, held 68.29% of the wireline market share. Detailed statistics of wireline subscriber base are available at **Annexure-III**.

Access Service Provider-wise Market Shares of Wireline Subscribers as on 31st October, 2017



Access Service Provider-wise Net Additions/declines in Wireline Subscribers during the Month of October, 2017



VIII. Broadband (≥ 512 Kbps download)

• As per the reports received from the service providers, the number of broadband subscribers increased from 324.89 Million at the end of Sep-17 to 340.16 million at the end of Oct-17 with a monthly growth rate of 4.70%. Segment-wise broadband subscribers and their monthly growth rates are as below:

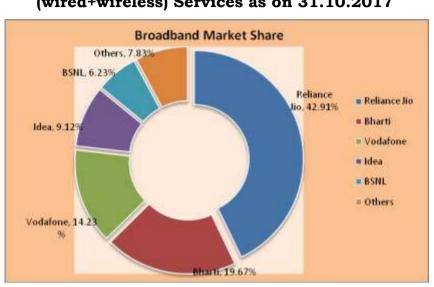
		Broadband subscribers (in million)						
Segment	As on 30 th September, 2017	As on 31 st October, 2017	rate in the month of Oct-17					
Wired subscribers	18.04	17.98	-0.32					
Mobile devices users (Phones and dongles)	306.39	321.73	5.01					
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to- Point Radio & VSAT)	0.46	0.45	-1.16					
Total	324.89	340.16	4.70					

Segment-wise Broadband Subscribers and Monthly Growth Rate in the month of October, 2017

• Top five service providers constituted 92.17% market share of the total broadband subscribers at the end of Oct-17. These service providers were Reliance Jio Infocom Ltd (145.96 million), Bharti Airtel (66.92 million), Vodafone (48.42 million), Idea Cellular (31.03 million) and BSNL (21.21 million).

Note: Some wireless service providers exclude incidental data users from their subscriber base, based on minimum usage decided by them.

• The graphical representation of the service provider-wise market share of broadband services is given below:



Service Provider-wise Market Share of Broadband (wired+wireless) Services as on 31.10.2017

- As on 31st October, 2017, the top five <u>Wired</u> Broadband Service providers were BSNL (9.48 million), Bharti Airtel (2.13 million), Atria Convergence Technologies (1.26 million), MTNL (0.94 million) and Hathway Cable & Datacom (0.68 million).
- As on 31st October, 2017, the top five <u>Wireless</u> Broadband Service providers were Reliance Jio Infocomm Ltd (145.96 million), Bharti Airtel (64.80 million), Vodafone (48.41 million), Idea Cellular (31.03 million) and Reliance Communications (8.98 million).

Contact details in case of any clarification:

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Authorized to issue:

(S. K. Mishra) Pr. Advisor (F&EA)

					Wire	eless Subs	scriber Ba	ase			ļ	Annexure-I	
	Group												
0. 1	Bh	arti	Relia	ance	Voda	afone	Та	ta	Idea		Aircel		
Circle	Sep-17	Oct-17	Sep-17	Oct-17	Sep-17	Oct-17	Sep-17	Oct-17	Sep-17	Oct-17	Sep-17	Oct-17	
Andhra Pradesh	26656836	26802098	3282701	3048544	6753714	6725978	3493017	3294348	16517052	16489800	2569213	2539727	
Assam	6643180	6678548	850144	771216	3762838	3766745			1164256	1120480	5891209	5898707	
Bihar	31003522	31146582	2500183	1338960	9398899	9375648	1150900	1010376	12028613	11866850	7559227	7545651	
Delhi	12192751	12291328	5225300	4924326	11086576	11145861	1424478	1396073	6518715	6498679	6876667	6863331	
Gujarat	9371440	9627567	1021116	907278	20213238	20405419	2439779	2119845	12789920	12994995	17005	15459	
Haryana	3636294	3862391	1244181	923952	5974021	6129936	2134830	1663997	4823039	4951620	3092	3092	
Himachal Pradesh	3105098	3134699	1452766	1273826	625529	612743	32402	27775	804733	807660	1043503	1028433	
J&K	3818739	4001493	814284	767509	916941	901109			609990	579278	3273367	3328436	
Karnataka	23399788	23722486	5030050	4524781	7636144	7625443	5955782	5548038	9151098	9105338	3182214	3161770	
Kerala	4767107	4782893	1180359	1139831	7801358	7821829	1186963	1063486	11375246	11406427	338076	332267	
Kolkata	5214089	5302530	3729489	2919924	5697018	5721727	2315074	2099522	2430737	2374847	4361550	4341447	
Madhya Pradesh	14109599	14426790	8634119	7982670	6430131	6456693	4189091	3639853	24187200	24744517	20623	20552	
Maharashtra	14579113	14576250	3317012	2539845	19430890	19511244	4531591	4196902	27147341	27448007	2253416	2211506	
Mumbai	7089123	7258999	4241048	3799999	8954979	9053219	2499475	2319019	4251906	4263075	2686544	2626570	
North East	4435501	4427336	212125	178269	1567287	1566600			507184	484532	3445833	3416368	
Orissa	11796328	11904499	2013914	1485059	4289238	4254575	1654526	1411792	1754886	1719104	4237088	4131475	
Punjab	9382768	9662828	1506306	1337642	5064811	5044852	1962035	1615983	7068108	7213343	1103195	1087158	
Rajasthan	21263496	21352122	5320052	3996472	11497700	11401815	699094	621313	7723296	7624901	6518691	6430401	
Tamil Nadu (incl. Chennai)	19240750	19527586	5327780	4854539	16177171	16330155	3564229	3135602	5863207	5897295	20852231	20776975	
U.P.(E)	24598194	24866936	7027296	5251332	21389366	21627152	2901468	2614123	11767665	11636569	6595444	6587306	
U.P.(W)	8992267	9069352	5259290	4950628	12179223	12239838	2575100	2244313	15902510	16011073	866583	867914	
West Bengal	16751486	16770320	2974504	2310494	20596943	20604847	206243	181958	5768462	5630182	5057207	5040169	
Total	282047469	285195633	72164019	61227096	207444015	208323428	44916077	40204318	190155164	190868572	88751978	88254714	
Net Addition		3148164		-10936923		879413		-4711759		713408		-497264	
Rural Subscribers	141993609	145033365	15116533	10179932	113741303	116380308	8849175	7556230	104294146	105155009	31590936	31498013	

						Wireless	Subscri	ber Base	e			Annexu	ure-I (contd.
					Gre	oup							
	BS	NL	МТ	NL	Tele	enor	Sist	ema	Reliance Jio		Total]
Circle	Sep-17	Oct-17	Sep-17	Oct-17	Sep-17	Oct-17	Sep-17	Oct-17	Sep-17	Oct-17	Sep-17	Oct-17	Net Additio
Andhra Pradesh	10036985	10043382			4509364	4463761			11466889	12121571	85285771	85529209	24343
Assam	1555109	1570527							2289606	2472305	22156342	22278528	12218
Bihar	3997238	4000443			8535033	8338238			8429632	9075079	84603247	83697827	-90542
Delhi			2312983	2305008			382111	346697	8732876	8798723	54752457	54570026	-18243
Gujarat	5261710	5364141			7762084	7573167	72501	67127	10111962	10607243	69060755	69682241	62148
Haryana	4064950	4124570							3602426	3832658	25482833	25492216	938
Himachal Pradesh	2318190	2360314							1429106	1545153	10811327	10790603	-2072
J&K	1534741	1542153							1595096	1700994	12563158	12820972	25781
Karnataka	7035243	7131085					522340	487924	8568111	8781255	70480770	70088120	-39265
Kerala	9916226	10052112					180928	146146	4507395	4727684	41253658	41472675	21901
Kolkata	1156841	1191414					281998	268579	4568090	4824279	29754886	29044269	-71061
Madhya Pradesh	5547741	5615807							8364354	8760490	71482858	71647372	16451
Maharashtra	6797441	6859084			6585229	6302031			9965772	10586110	94607805	94230979	-37682
Mumbai			1293805	1290260					6449427	6881101	37466307	37492242	2593
North East	1544804	1531747							1190395	1266623	12903129	12871475	-3165
Orissa	5200378	5227498							3515820	3796281	34462178	33930283	-53189
Punjab	4995631	5026587							6266623	6661814	37349477	37650207	30073
Rajasthan	5722708	5662401					848103	790092	7203025	7787122	66796165	65666639	-112952
Tamil Nadu (incl. Chennai)	9869580	9896001					380530	367252	9580098	9764500	90855576	90549905	-30567
U.P.(E)	11803098	11764103			10963546	10678790			8635919	9177224	105681996	104203535	-147846
U.P.(W)	5720098	5728733			7657191	7511937	76372	74799	7326032	7582225	66554666	66280812	-27385
West Bengal	1732045	1721166					771424	736539	4817250	5209841	58675564	58205516	-47004
Total	105810757	106413268	3606788	3595268	46012447	44867924	3516307	3285155	138615904	145960275	1183040925	1178195651	-484527
Net Addition		602511		-11520		-1144523		-231152		7344371		-4845274	
Rural Subscribers	34033667	34458258	48341	48175	13221033	12891545	768591	721279	34617980	36757271	498275314	500679385	240407

Proportion	of VLR on the	date of Peak VLR in	the month of Oct-17	(%)
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Annexure-II

Circle	Aircel	Bharti	BSNL	Idea	MTNL	Reliance	Reliance Jio	Sistema	Tata	Telenor	Vodafone	Total
Andhra Pradesh	57.82	98.64	72.17	103.94		84.08	82.93		82.53	61.81	85.43	89.02
Assam	82.35	94.87	68.16	103.60		3.58	92.58				88.13	85.56
Bihar	84.39	96.39	68.84	102.62		13.63	95.38		76.12	71.20	97.40	90.80
Delhi	56.72	98.06		103.69	37.07	78.94	79.41	39.12	46.56		98.37	84.59
Gujarat	2286.53	100.80	54.08	103.83		36.45	76.40	39.21	62.36	54.73	94.06	85.49
Haryana	0.32	96.74	47.02	104.34		78.82	71.16		97.44		96.72	85.71
Himachal Pradesh	44.15	94.54	56.27	114.23		81.49	76.06		15.25		106.24	79.11
J & K	62.66	99.82	63.09	106.59		43.31	82.04				89.49	79.59
Karnataka	50.69	99.45	62.33	100.45		83.57	77.60	56.49	84.61		95.29	87.92
Kerala	57.55	97.45	68.75	101.01		89.74	81.20	42.73	80.46		94.50	87.90
Kolkata	60.63	97.87	69.51	99.63		93.49	78.94	67.50	82.90		98.18	86.40
Madhya Pradesh	1.10	95.73	61.98	103.71		86.33	87.84		78.27		81.63	91.64
Maharashtra	45.11	103.26	61.25	102.54		87.00	87.92		85.57	65.03	97.13	91.85
Mumbai	54.63	96.54		92.12	56.84	80.53	71.18		76.24		89.48	82.50
North East	60.73	95.74	70.71	101.31		7.01	85.60				89.47	80.69
Orissa	63.49	96.04	68.96	106.03		3.54	89.44		77.11		92.69	82.42
Punjab	56.46	99.27	53.44	100.28		80.35	80.37		83.45		93.17	86.60
Rajasthan	45.44	98.04	55.74	102.16		74.50	81.80	49.06	163.74		99.72	86.69
Tamil Nadu (incl. Chennai)	67.27	95.97	64.55	100.81		87.74	78.81	46.25	68.23		96.96	82.99
U.P. (E)	65.53	101.20	47.24	107.22		87.65	90.33		82.25	68.04	90.48	85.79
U.P. (W)	75.29	95.17	49.27	101.52		91.12	77.58	30.04	87.57	68.58	100.72	87.84
West Bengal	76.00	98.15	80.93	107.68		8.34	82.63	68.23	2.53		90.12	88.17
Total	64.98	98.09	60.87	102.83	44.16	75.90	82.30	53.69	80.33	65.43	94.11	87.06

Note: Peak VLR figures in some circles of some of the service providers are more than their HLR figures due to a large number of inroamers.

					Grou	ıp				
Circle	BS	NL	МТ	NL	Bha	arti	Reli	ance	Та	ta
	Sep-17	Oct-17	Sep-17	Oct-17	Sep-17	Oct-17	Sep-17	Oct-17	Sep-17	Oct-17
Andhra Pradesh	1129657	1108418			164472	164587	74169	73713	174368	176179
Assam	143061	140456								
Bihar	256099	252771					6408	6402	12129	12076
Delhi			1570235	1566316	1306057	1307425	166211	165382	139933	139820
Gujarat	1054207	1049720			77746	77820	71187	70780	90529	90684
Haryana	251,827	248,540			22489	22495	3724	3664	37618	37919
Himachal Pradesh	127,257	124,937					3891	3891	2527	2488
J & K	121,908	120,305								
Karnataka	1161390	1152493			633104	635040	156577	155607	265196	264834
Kerala	1912397	1905039			57636	57710	32510	32396	19029	18988
Kolkata	581228	576887			121142	121189	68191	67833	50209	49857
Madhya Pradesh	694783	691778			268995	267637	19514	19449	15280	15339
Maharashtra	1325697	1311363			79492	79646	78567	78110	309673	307290
Mumbai			1833980	1829547	359565	359619	252279	251102	553699	555379
North East	115109	113936								
Orissa	261775	261733					3235	3234	8198	8281
Punjab	511064	500047			119463	119480	19818	19638	15797	15742
Rajasthan	539879	531471			49208	49219	19425	19297	12033	12217
Tamil Nadu (incl. Chennai)	1617284	1599229			556478	554933	130688	129261	112670	112970
U.P.(E)	367235	366057			64092	64100	34217	34109	13484	13504
U.P.(W)	324616	320246			22873	22600	7042	7039	9888	9834
West Bengal	299484	297165					1908	1867	3591	3613
Total	12795957	12672591	3404215	3395863	3902812	3903500	1149561	1142774	1845851	1847014
Net Addition		-123366		-8352		688		-6787		1163

					line Sub	scriber	Base		An	nexure-III	(Contd.)
			<u> </u>		oup					·	i
Circle	Quad	.rant /	Sist	tema	Voda	afone	A11	rcel	Tot	tal	Net
	Sep-17	Oct-17	Sep-17	Oct-17	Sep-17	Oct-17	Sep-17	Oct-17	Sep-17	Oct-17	Net Addition
Andhra Pradesh		'			25380	25410	4011	5343	1572057	1553650	-18407
Assam		'			2520	2520	<u> </u>		145581	142976	-2605
Bihar		'			1950	1920	<u> </u>		276586	273169	-3417
Delhi		I '			30320	29960	32264	15352	3245020	3224255	-20765
Gujarat		I '			9097	9105	58	1604	1302824	1299713	-3111
Haryana		I '							315658	312618	-3040
Himachal Pradesh					60	60			133735	131376	-2359
J & K									121908	120305	-1603
Karnataka		·'			29510	29995	25902	32048	2271679	2270017	-1662
Kerala					2160	2160			2023732	2016293	-7439
Kolkata		I			5610	5610	568	2616	826948	823992	-2956
Madhya Pradesh		, I			570	570	[999142	994773	-4369
Maharashtra	Ţ	, I			14909	14914	644	501	1808982	1791824	-17158
Mumbai		·'			25365	25388	4604	10812	3029492	3031847	2355
North East		, I			120	120	[115229	114056	-1173
Orissa	[]	ı'	· · · ·		1350	1350	· · ·		274558	274598	40
Punjab	263320	260217			1110	1110	0	31	930572	916265	-14307
Rajasthan	Ţ	, I	54086	53665	5700	5670	3560	1580	683891	673119	-10772
Tamil Nadu (incl. Chennai)		·'			13970	13970			2431090	2410363	-20727
U.P.(E)	Ţ	, I			9070	9070	2	0	488100	486840	-1260
U.P.(W)	[]	, I	[4050	4050	131	0	368600	363769	-4831
West Bengal	[]	ı'	· · · ·		60	60	· · ·		305043	302705	-2338
Total	263320	260217	54086	53665	182881	183012	71744	69887	23670427	23528523	-141904
Net Addition		-3103		-421		131		-1857		-141904	
Rural Subscribers	58174	57352	9446	9380	0	0	0	0	3546148	3509260	-36888

VLR Subscribers in the Wireless Segment

Home Location Register (HLR) is a central database that contains details of each mobile phone subscriber that is authorized to use the GSM core network. The HLRs store details of every SIM card issued by the service provider. Each SIM has a unique identifier called an International Mobile Subscriber Identity (IMSI), which is the primary key to each HLR record. The HLR data is stored for as long as a subscriber remains with the service provider. HLR also manages the mobility of subscribers by means of updating their position in administrative areas. It sends the subscriber data to a Visitor Location Register (VLR).

Subscriber numbers reported by the service providers is the difference between the numbers of IMSI registered in service provider's HLR and sum of other figures as given below:-

1	Total IMSI's in HLR (A)
2	Less: $(B = a + b + c + d + e)$
a.	Test/Service Cards
b.	Employees
c.	Stock in hand/in Distribution Channels (Active Card)
d.	Subscriber Retention period expired
e.	Service suspended pending disconnection
3	Subscribers Base (A-B)

Visitor Location Register (VLR) is a temporary database of the subscribers who have roamed into the particular area, which it serves. Each base station in the network is served by exactly one VLR; hence a subscriber cannot be present in more than one VLR at a time.

If subscriber is in active stage i.e. he is able to send/receive calls/SMSs he is available both in HLR and VLR. However, it may be possible that the subscriber is registered in HLR but not in VLR due to the reason that he is either switched-off or moved out of coverage area, not reachable etc. In such circumstances he will be available in HLR but not in VLR. This causes difference between subscriber number reported by the service providers based on HLR and numbers available in VLR.

The VLR subscriber data calculated here is based on active subscribers in VLR on the date of Peak subscriber number in VLR of the particular month for which the data is being collected. This data is to be taken from the switches having the purge time of not more than 72 hours.