

**TELECOM REGULATORY AUTHORITY OF INDIA**

New Delhi, 13th June, 2017
(www.trai.gov.in)



सत्यमेव जयते

Highlights of Telecom Subscription Data as on 30th April, 2017

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Total Telephone Subscribers (Million)	1,174.60	24.30	1,198.89
Net Addition in April, 2017 (Million)	4.42	-0.10	4.31
Monthly Growth Rate ^{\$}	0.38%	-0.42%	0.36%
Urban Telephone Subscribers (Million)	675.48	20.52	695.99
Net Addition in April, 2017 (Million)	3.06	-0.04	3.02
Monthly Growth Rate ^{\$}	0.46%	-0.19%	0.44%
Rural Telephone Subscribers (Million)	499.12	3.78	502.90
Net Addition in April, 2017 (Million)	1.36	-0.06	1.29
Monthly Growth Rate ^{\$}	0.27%	-1.69%	0.26%
Overall Tele-density*(%)	91.34	1.89	93.23
Urban Tele-density*(%)	167.21	5.08	172.28
Rural Tele-density*(%)	56.59	0.43	57.02
Share of Urban Subscribers	57.51%	84.44%	58.05%
Share of Rural Subscribers	42.49%	15.56%	41.95%
Broadband Subscribers (Million)	265.98	18.25	276.52

❖ In the month of April, 2017, 4.96 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 272.76 million at the end of Mar-17 to 277.72 million at the end of Apr-17, since implementation of MNP.

❖ Number of active wireless subscribers (on the date of peak VLR[#]) in April, 2017 was 1,014.90 million.

Note:

- Information in this Press Release is based on the data provided by the Service Providers

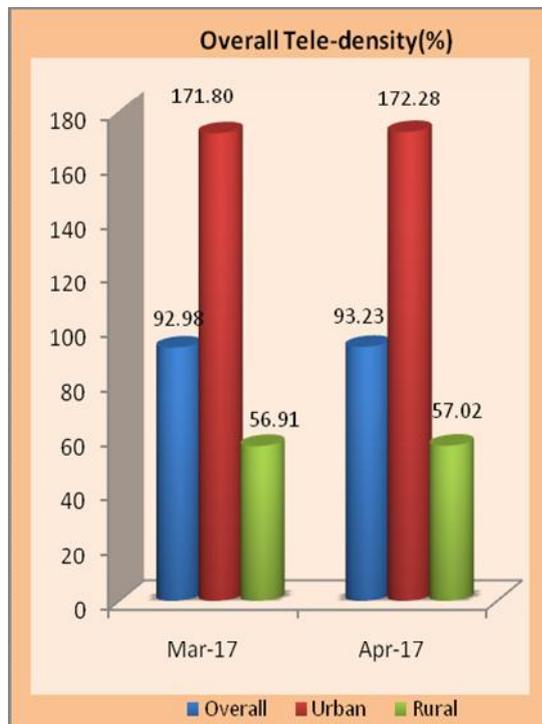
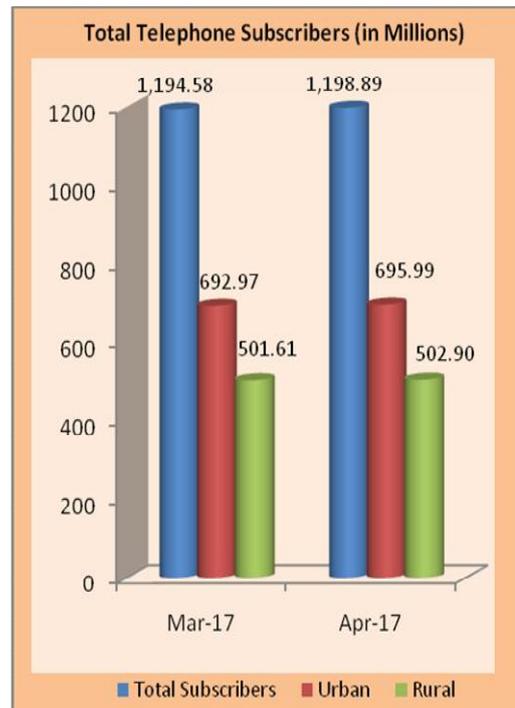
* Based on the population projections from Census data published by the Office of Registrar General & Census Commissioner of India.

VLR is acronym of Visitor Location Register. The dates of peak VLR for various TSPs are different in different service areas.

\$ Growth over previous month.

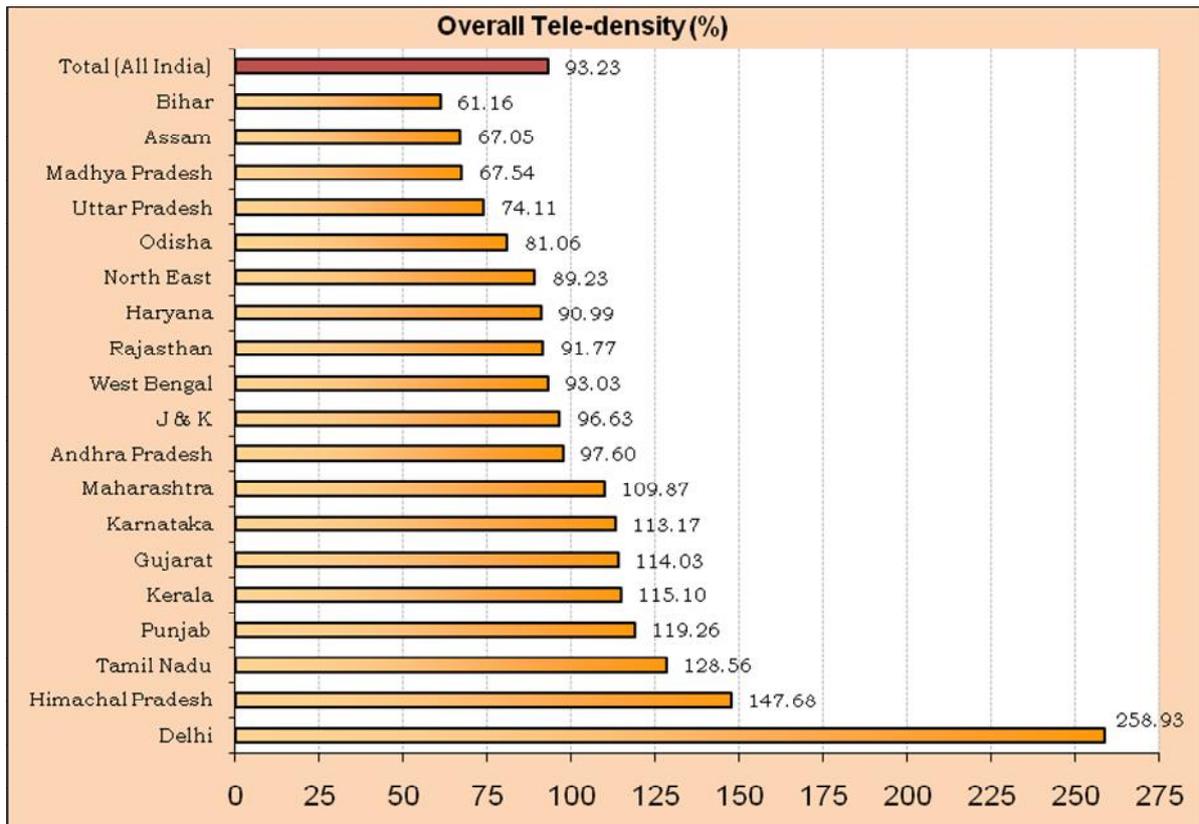
I. Total Telephone Subscribers

- The number of telephone subscribers in India increased from 1,194.58 million at the end of Mar-17 to 1,198.89 million at the end of Apr-17, thereby showing a monthly growth rate of 0.36%. The urban subscription increased from 692.97 million at the end of Mar-17 to 695.99 million at the end of Apr-17, and the rural subscription increased from 501.61 million to 502.90 million during the same period. The monthly growth rates of urban and rural subscription were 0.44% and 0.26% respectively during the month of Apr-17.



- The overall Tele-density in India increased from 92.98 at the end of Mar-17 to 93.23 at the end of Apr-17. The Urban Tele-density increased from 171.80 at the end of Mar-17 to 172.28 at the end of Apr-17, and the Rural Tele-density also increased from 56.91 at the end of Mar-17 to 57.02 at the end of Apr-17. The share of urban subscribers and rural subscribers in total number of telephone subscribers at the end of Apr-17 was 58.05% and 41.95% respectively.

Overall Tele-density (Circle/State Wise) – As on 30th April, 2017



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 Chhatisgarh, 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 Category-wise Net Additions in Telephone Subscribers in the month of April, 2017

Circle Category	Net additions in the month of April, 2017		Telephone Subscriber base as on 30 th April, 2017	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	-22,964	1,338,265	9,643,069	410,403,026
Circle B	-62,086	1,875,707	6,381,331	468,260,459
Circle C	-20,745	720,013	1,146,449	176,198,752
Metro	2146	483,641	7,126,122	119,733,694
All India	-103,649	4,417,626	24,296,971	1,174,595,931

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

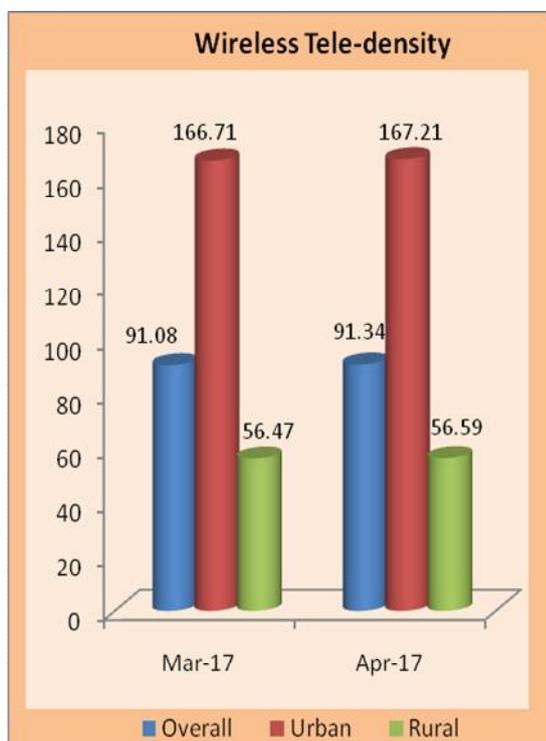
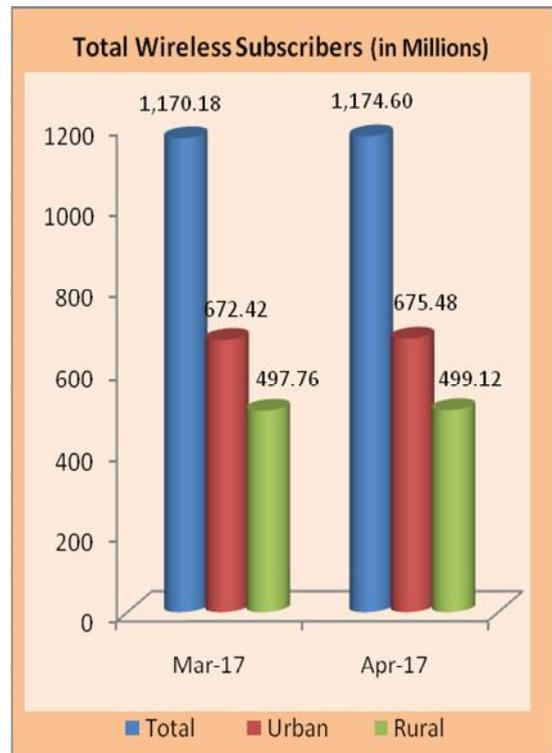
Circle Category	Monthly growth rate (%) (Mar-17 to Apr-17)		Yearly growth rate (%) (Apr-16 to Apr-17)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	-0.24	0.33	-2.75	13.18
Circle B	-0.96	0.40	-6.00	12.82
Circle C	-1.78	0.41	-5.80	15.22
Metro	0.03	0.40	0.16	15.52
All India	-0.42	0.38	-2.95	13.57

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, Circles of Category-B showed highest monthly net addition during the month of Apr-17. However, Circles of Category-C showed maximum monthly growth rate in subscriber base during the same period.
- In Wireline segment, Circles of Category-B showed maximum monthly net decline in subscriber base during the month of Apr-17. However, Metro Circles showed positive monthly growth in subscriber base during the same period.

III. Wireless Subscribers

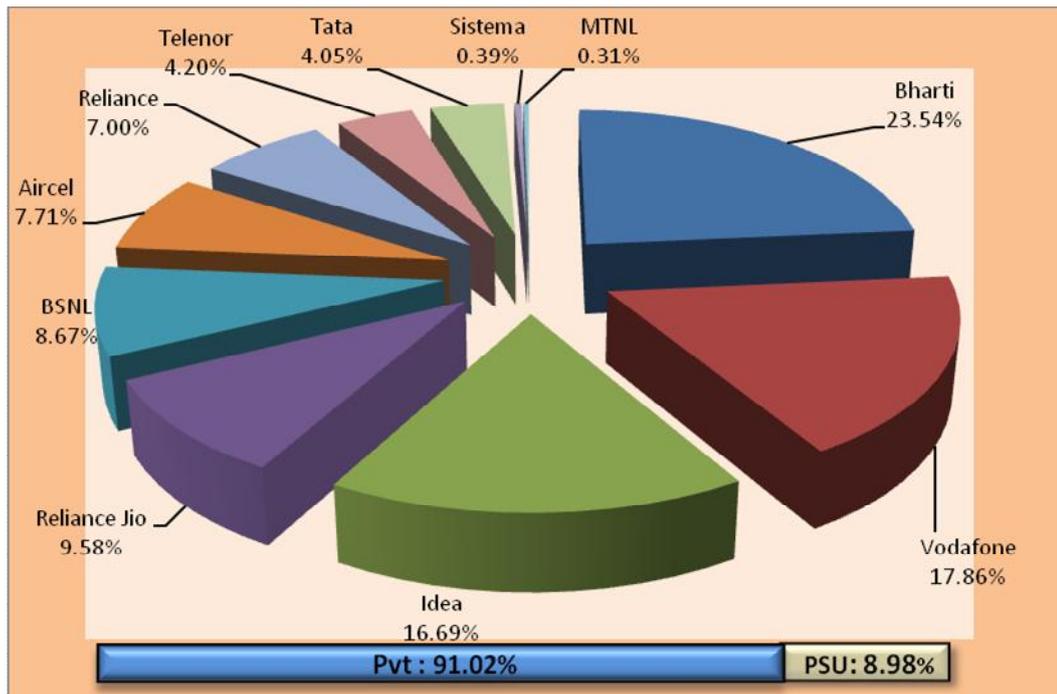
• Total wireless subscribers (GSM, CDMA & LTE) increased from 1,170.18 million at the end of Mar-17 to 1,174.60 million at the end of Apr-17, thereby registering a monthly growth rate of 0.38%. The Wireless subscription in urban areas increased from 672.42 million at the end of Mar-17 to 675.48 million at the end of Apr-17, and wireless subscription in rural areas also increased from 497.76 million to 499.12 million during the same period. The monthly growth rates of urban and rural wireless subscription were 0.46% and 0.27% respectively.



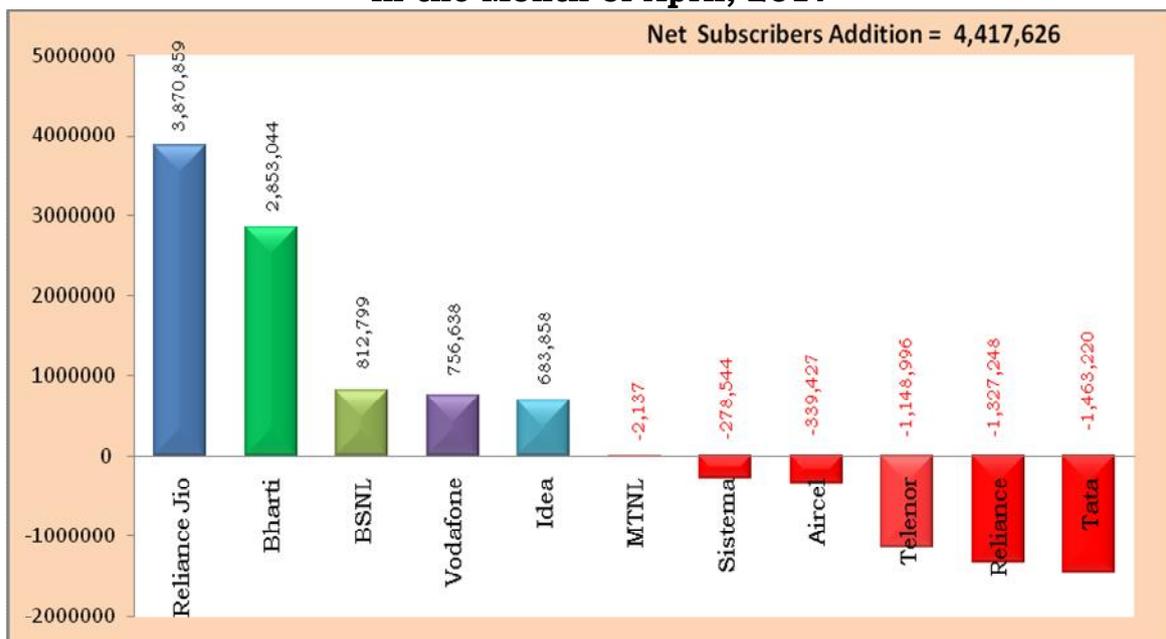
• The Wireless Tele-density(%) in India increased from 91.08 at the end of Mar-17 to 91.34 at the end of Apr-17. The Urban Wireless Tele-density increased from 166.71 at the end of Mar-17 to 167.21 at the end of Apr-17, and Rural Wireless Tele-density also increased from 56.47 to 56.59 during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 57.51% and 42.49% respectively at the end of Apr-17. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

- As on 30th April, 2017, the private access service providers held 91.02% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 8.98%. 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 Subscribers as on 30th April, 2017



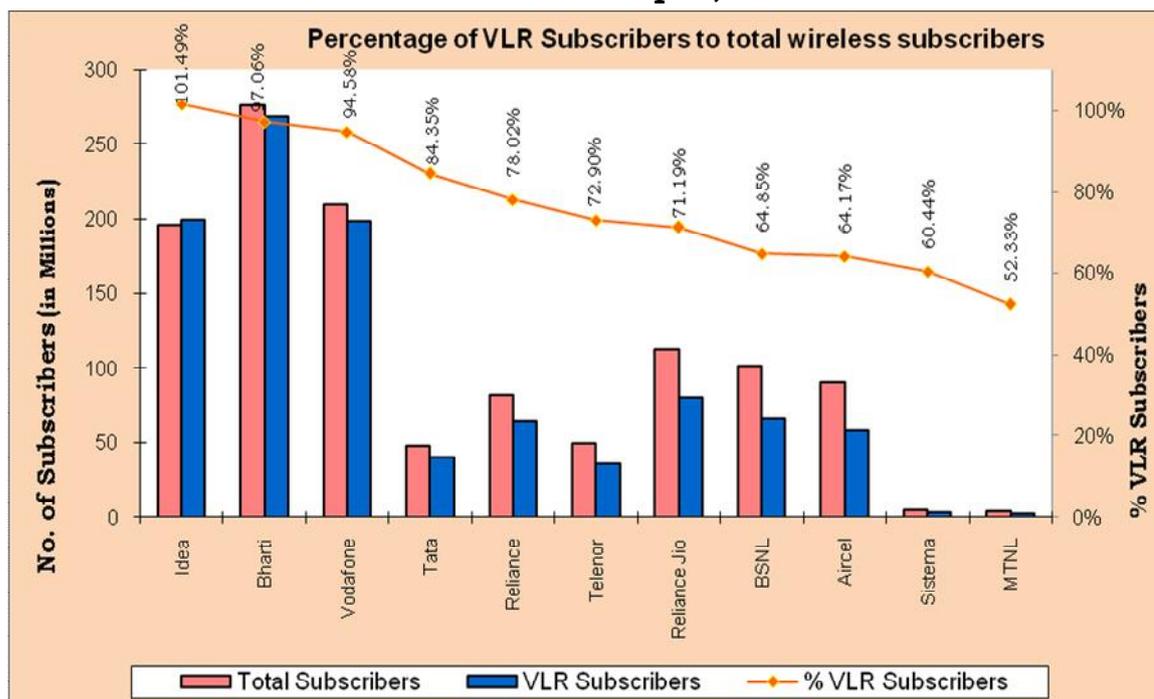
Net Additions in Wireless Subscribers of Access Service Providers in the Month of April, 2017



IV. Active Wireless Subscribers (VLR Data)

- Out of the total wireless subscribers (1,174.60 million), 1,014.90 million wireless subscribers were active on the date of peak VLR in the month of Apr-17. The proportion of active wireless subscribers was approximately 86.40% 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 Apr-17 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

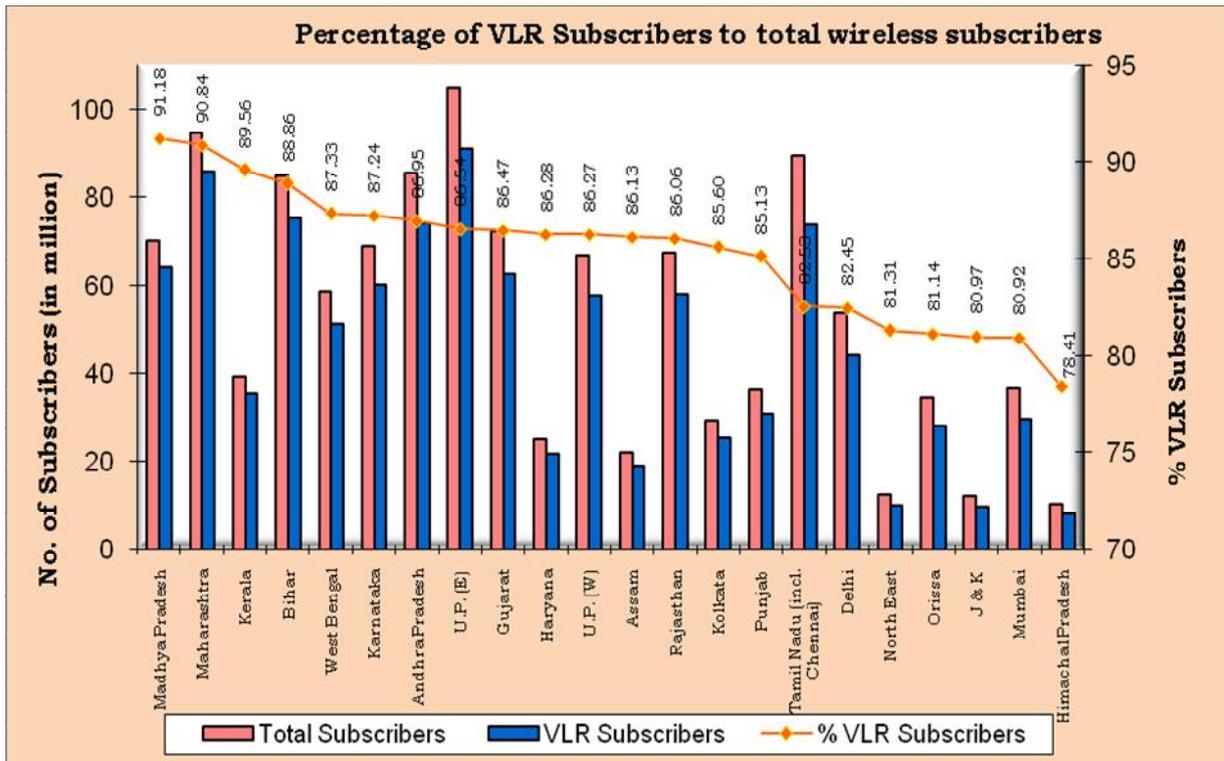
Access Service Provider-wise Percentage of VLR Subscribers in the Month of April, 2017



Note-

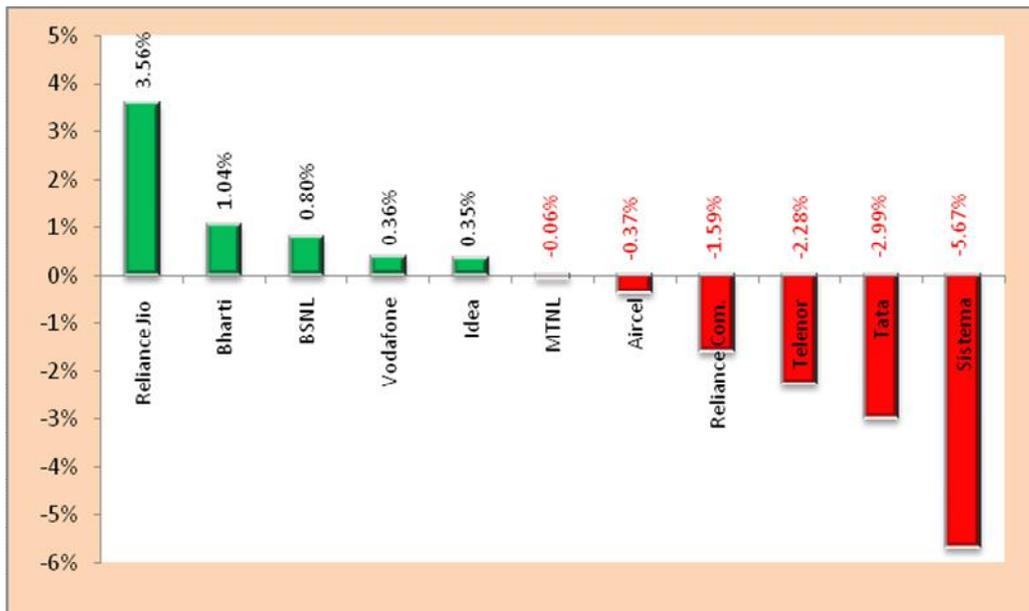
1. Number of VLR subscribers of Idea Cellular was more than its subscriber base due to a large number of inroamers in its network.

Service Area wise percentage of VLR Subscribers in the Month of April, 2017

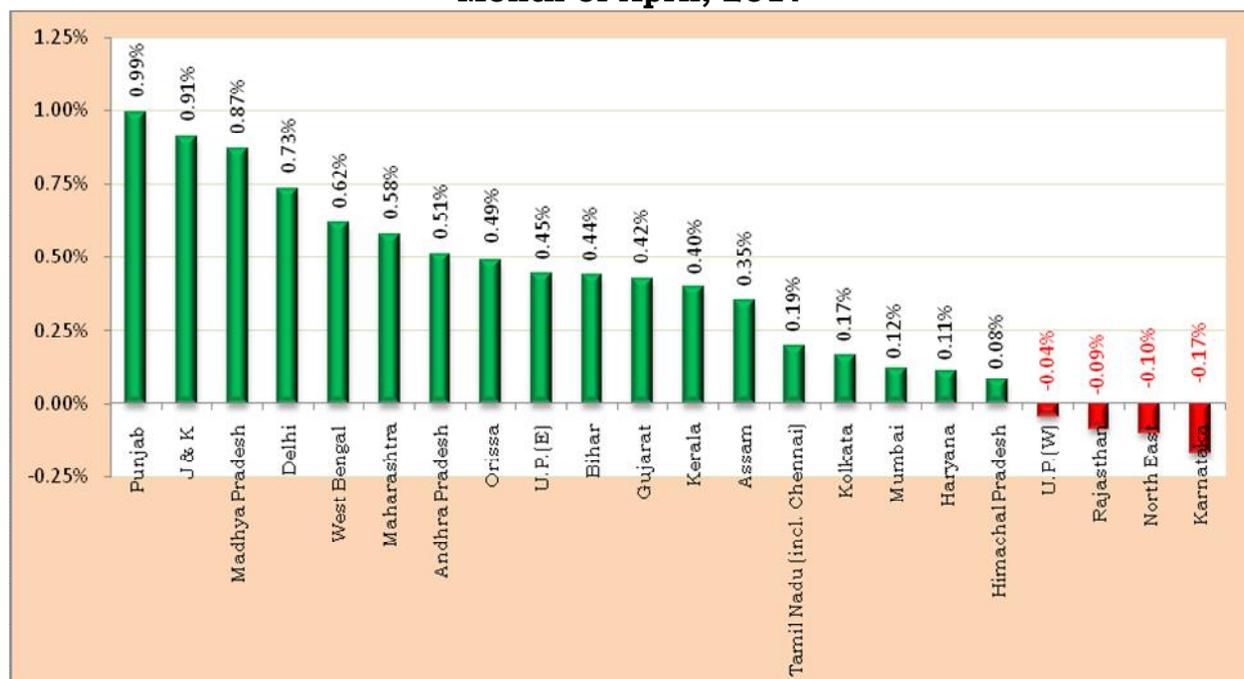


V. Growth in Wireless Subscribers

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



Service Area-wise Monthly Growth Rate of Wireless Subscribers in the Month of April, 2017



- Punjab service areas showed maximum growth rate and Karnataka service area showed maximum decline rate in wireless subscribers during the month of Apr-17.

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 Apr-17, a total of 4.96 million requests were received for MNP. With this, the cumulative MNP requests increased from 272.76 million at the end of Mar-17 to 277.72 million at the end of Apr-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 23.38 million) followed by Gujarat (about 19.86 million).

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 30.36 million) followed by Andhra Pradesh (about 25.07 million).

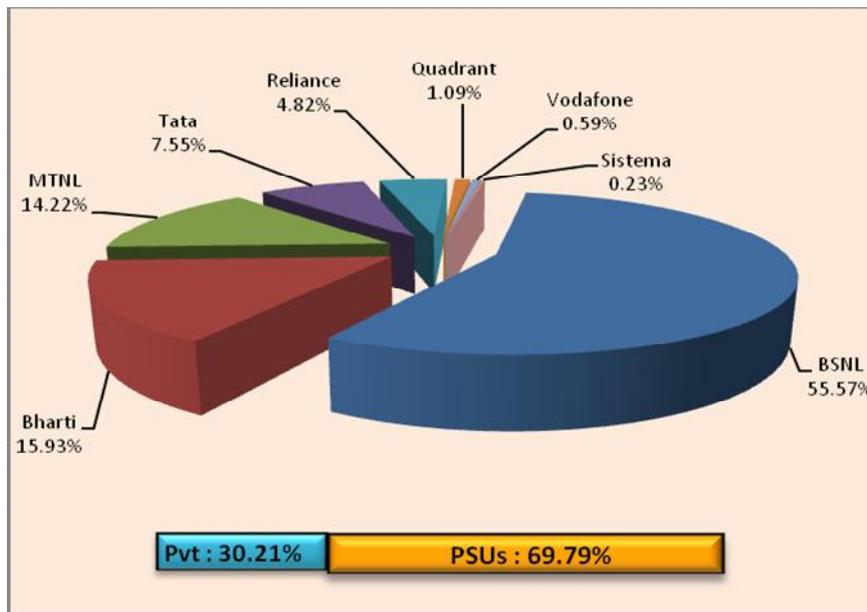
Service Area Wise MNP Status at the end of April, 2017			
Zone - I		Zone - II	
Service Area	Number of Porting Requests	Service Area	Number of Porting Requests
Delhi	12263670	Andhra Pradesh	25066109
Gujarat	19859783	Assam	1438765
Haryana	11075393	Bihar	10233114
Himachal Pradesh	1012657	Karnataka	30364281
Jammu & Kashmir	136797	Kerala	7575779
Maharashtra	18969459	Kolkata	5802435
Mumbai	15386405	Madhya Pradesh	19084505
Punjab	10863799	North East	543780
Rajasthan	23378395	Orissa	5487612
Uttar Pradesh - East	13978563	Tamil Nadu	17000779
Uttar Pradesh - West	12498126	West Bengal	15701608
Total	139,423,047	Total	138,298,767
Total (Zone-I + Zone-II)		277,721,814	
Net Addition (in April, 2017)		4,958,927	

VII. Wireline Subscribers

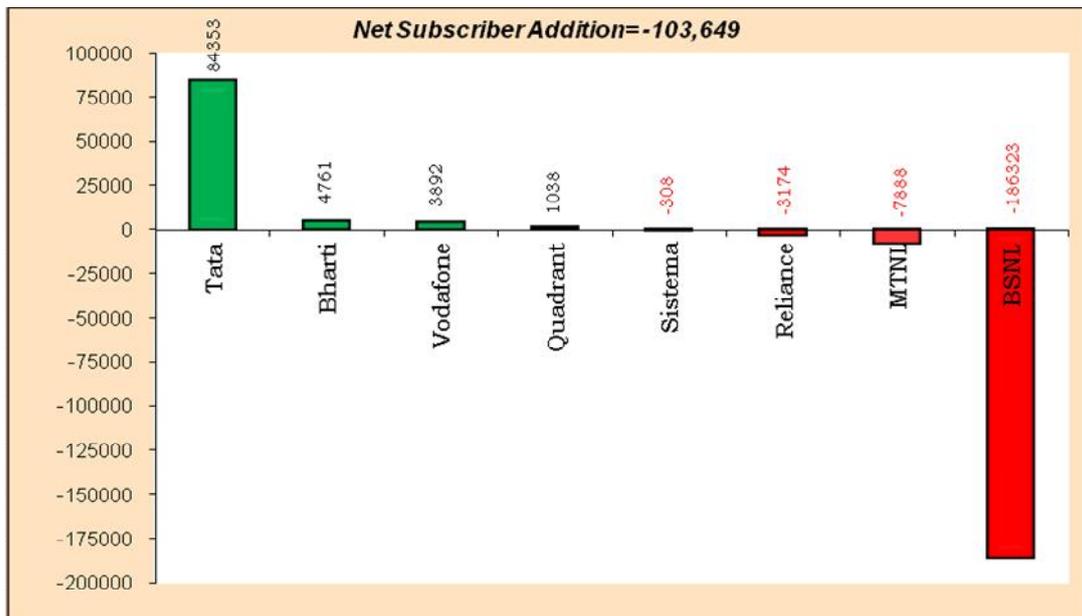
- Wireline subscribers declined from 24.40 million at the end of Mar-17 to 24.30 million at the end of Apr-17. Net decline in the wireline subscriber base was 0.10 million with a monthly decline rate of 0.42%. The share of urban and rural subscribers in total wireline subscribers were 84.44% and 15.56% respectively at the end of Apr-17.
- The Overall Wireline Tele-density(%) declined from 1.90 at the end of Mar-17 to 1.89 at the end of Apr-17. Urban and Rural Wireline Tele-density were 5.08 and 0.43 respectively during the same period.

- BSNL and MTNL, the two PSU access service providers, held 69.79% of the wireline market share. Detailed statistics of wireline subscriber base are available at **Annexure-III**.
- The graphical representations of service provider-wise market shares in the wireline segment and net additions in wireline subscriber bases in the month of Apr-17 are given below:

Access Service Provider-wise Market Shares (Wireline Subscribers) as on 30th April, 2017



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



VIII. Broadband (\geq 512 Kbps download)

- As per the reports received from the service providers, the number of broadband subscribers increased from 276.52 Million at the end of Mar-17 to 284.23 million at the end of Apr-17 with a monthly growth rate of 2.79%. Segment-wise broadband subscribers and their monthly growth rates are as below:

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

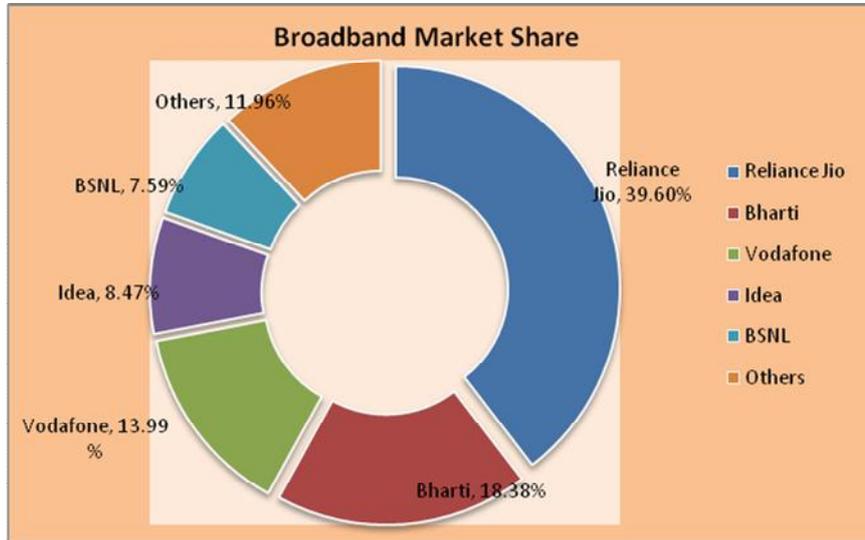
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of Apr-17
	As on 31 st March, 2017	As on 30 th April, 2017	
Wired subscribers	18.24	18.25	0.07
Mobile devices users (Phones and dongles)	257.71	265.43	2.99
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.56	0.55	-2.42
Total	276.52	284.23	2.79

- Top five service providers constituted 88.04% market share of the total broadband subscribers at the end of Apr-17. These service providers were Reliance Jio Infocom Ltd (112.55 million), Bharti Airtel (52.25 million), Vodafone (39.76 million), Idea Cellular (24.09 million) and BSNL (21.58 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 30.04.2017**



- As on 30th April, 2017, the top five Wired Broadband Service providers were BSNL (9.87 million), Bharti Airtel (2.09 million), Atria Convergence Technologies (1.19 million), MTNL (1.00 million) and YOU Broadband (0.63 million).
- As on 30th April, 2017, the top five Wireless Broadband Service providers were Reliance Jio Infocomm Ltd (112.55 million), Bharti Airtel (50.17 million), Vodafone (39.75 million), Idea Cellular (24.09 million) and Reliance Communications (14.00 million).

Contact details in case of any clarification:

Shri Kaushal Kishore, Advisor (F&EA),
Telecom Regulatory Authority of India
Mahanagar Doorsanchar Bhawan
Jawahar Lal Nehru Marg,
New Delhi – 110002,
Ph: 011-23230752
Fax: 011-23236650
E-mail: advfea1@traigov.in

Authorized to issue:

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

Wireless Subscriber Base

Annexure-I

Circle	Group											
	Bharti		Reliance		Vodafone		Tata		Idea		Aircel	
	Mar-17	Apr-17	Mar-17	Apr-17	Mar-17	Apr-17	Mar-17	Apr-17	Mar-17	Apr-17	Mar-17	Apr-17
Andhra Pradesh	25867782	26242863	3602108	3484210	6946782	6934836	3734568	3689881	17580618	17702398	2614825	2611465
Assam	6444077	6517446	1126540	1108219	4024913	3944177			1349496	1335553	5825332	5836146
Bihar	30973054	31234424	3189799	3125173	9734549	9718863	1336946	1280568	12668538	12763663	7558894	7576749
Delhi	11614979	11641057	5620041	5641660	10761078	10837583	1437392	1459571	6482774	6573296	6879107	6896054
Gujarat	9185830	9189404	5442298	5386776	20047643	20192608	2472803	2412007	13163074	13120124	17063	17063
Haryana	3509696	3530619	1478879	1441303	6044807	5976451	2407873	2325833	5124252	5147236	3092	3092
Himachal Pradesh	2976955	2981275	1539244	1508191	726409	722229	44758	42824	812687	808472	1122264	1103023
J & K	3624527	3697489	872711	840463	994663	1014044			694436	701960	2992224	3025196
Karnataka	22235613	22268817	5179073	5147776	7794458	7706429	6238582	6018534	9560816	9515022	3441843	3451199
Kerala	4552674	4570026	1359520	1256446	7673404	7669308	1278265	1235249	11011621	11041650	370538	367218
Kolkata	5026679	5034068	4086852	4005595	5722074	5759494	2446200	2389395	2642321	2646753	4411882	4412016
Madhya Pradesh	13991614	14146387	9217734	9251751	6814499	6778964	4194493	4142244	24031263	24177290	20694	20694
Maharashtra	14417511	14911996	3925525	3749129	19339105	19488055	5198002	5037038	26479754	26758459	2687942	2591816
Mumbai	6455214	6466253	4802481	4743092	9034825	9044396	2654934	2596696	4375655	4353579	2899449	2882375
North East	4236796	4292867	258238	256941	1617039	1604529			638078	607048	3280364	3234019
Orissa	11501033	11680255	2131457	2037029	4533783	4566837	1814479	1770757	2076079	2037836	4630846	4632127
Punjab	8910989	9043723	1680520	1690261	5457177	5467922	2279401	2186230	7062015	7128028	1134365	1128678
Rajasthan	21064107	21204473	5619973	5477918	12302399	12278686	1065070	951113	8389292	8351451	6680710	6630367
Tamil Nadu (incl. Chennai)	18383677	18486185	5372873	5404254	16277638	16338793	3899979	3764613	6165269	6062071	21362720	21244095
U.P.(E)	23494355	23965202	8108789	7895447	20582425	20889783	3274124	3148899	12305494	12423521	6940970	6865370
U.P.(W)	8955315	8956987	5448718	5392016	12377044	12447461	2878138	2751539	16387742	16431150	871275	873242
West Bengal	16225906	16439611	3438350	3330825	20256152	20438056	338546	328342	6367573	6366145	5153469	5158437
Total	273648383	276501427	83501723	82174475	209062866	209819504	48994553	47531333	195368847	196052705	90899868	90560441
Net Addition		2853044		-1327248		756638		-1463220		683858		-339427

Wireless Subscriber Base

Annexure-I (contd.)

Circle	Group												Net Addition
	BSNL		MTNL		Telenor		Sistema		Reliance Jio		Total		
	Mar-17	Apr-17	Mar-17	Apr-17	Mar-17	Apr-17	Mar-17	Apr-17	Mar-17	Apr-17	Mar-17	Apr-17	
Andhra Pradesh	9919404	9948457			5301805	5067963			9371987	9691612	84939879	85373685	433806
Assam	1507239	1525095							1532190	1619174	21809787	21885810	76023
Bihar	4003810	4034682			9091905	8929693			6005685	6271984	84563180	84935799	372619
Delhi			2327203	2323609			537482	515501	7690965	7854095	53351021	53742426	391405
Gujarat	4848908	4800834			8473311	8537843	132022	114543	8055148	8372186	71838100	72143388	305288
Haryana	3715385	3784226							2761991	2864549	25045975	25073309	27334
Himachal Pradesh	2156152	2182650							1041359	1079462	10419828	10428126	8298
J & K	1473653	1451869							1251478	1281105	11903692	12012126	108434
Karnataka	7021376	7038643					724483	701098	6939226	7172719	69135470	69020237	-115233
Kerala	9106566	9288130					234410	208632	3576308	3682457	39163306	39319116	155810
Kolkata	956743	991523					376331	356770	3647897	3769979	29316979	29365593	48614
Madhya Pradesh	5169787	5246014							6106473	6386873	69546557	70150217	603660
Maharashtra	6501731	6564130			7702877	7385725			7646067	7952752	93898514	94439100	540586
Mumbai			1300117	1301574					5059378	5237710	36582053	36625675	43622
North East	1592311	1586641							868295	896559	12491121	12478604	-12517
Orissa	5028046	5052160							2575408	2681286	34291131	34458287	167156
Punjab	4541692	4628466							4899284	5048878	35965443	36322186	356743
Rajasthan	5525198	5565595					1301847	1213020	5370687	5585578	67319283	67258201	-61082
Tamil Nadu (incl. Chennai)	9228786	9328963					478051	451855	8083805	8345787	89252798	89426616	173818
U.P.(E)	11168141	11257997			11780109	11431599			6899354	7141457	104553761	105019275	465514
U.P.(W)	5754216	5755824			8143142	7991330	96212	93691	5764355	5953014	66676157	66646254	-29903
West Bengal	1770409	1770453					1030433	977617	3533432	3662415	58114270	58471901	357631
Total	100989553	101802352	3627320	3625183	50493149	49344153	4911271	4632727	108680772	112551631	1170178305	1174595931	4417626
Net Addition		812799		-2137		-1148996		-278544		3870859		4417626	

Proportion of VLR on the date of Peak VLR in the month of Apr-17 (%)

Annexure-II

Circle	Aircel	Bharti	BSNL	Idea	MTNL	Reliance	Reliance Jio	Sistema	Tata	Telenor	Vodafone	Total
Andhra Pradesh	56.08	95.94	72.82	101.26		82.03	67.56		91.09	73.20	85.70	86.95
Assam	81.81	96.00	76.34	99.66		3.61	79.39				101.36	86.13
Bihar	81.24	97.06	64.96	100.09		8.03	77.40		78.05	76.69	109.58	88.86
Delhi	55.54	95.56		100.76	45.12	84.00	68.59	45.24	59.59		96.46	82.45
Gujarat	2593.37	94.53	63.23	103.37		90.40	72.23	45.37	71.12	62.76	92.16	86.47
Haryana	0.36	96.03	52.88	101.34		93.20	70.49		87.38		94.24	86.28
Himachal Pradesh	43.83	87.57	62.69	114.66		92.09	67.89		32.18		90.18	78.41
J & K	72.01	98.32	67.91	99.01		53.32	70.80				86.44	80.97
Karnataka	50.58	98.25	63.01	98.35		85.28	72.70	60.53	92.03		93.81	87.24
Kerala	62.72	98.33	73.39	102.90		90.18	75.80	49.91	89.46		93.61	89.56
Kolkata	60.84	95.63	82.53	92.51		96.75	62.75	68.90	90.62		99.32	85.60
Madhya Pradesh	1.14	97.90	67.33	104.20		87.23	71.18		78.18		81.70	91.18
Maharashtra	48.35	99.89	66.72	101.87		90.39	80.58		86.02	71.27	95.49	90.84
Mumbai	51.32	93.55		89.94	65.21	83.66	63.05		81.55		87.97	80.92
North East	65.68	95.66	70.25	99.15		15.32	75.58				92.37	81.31
Orissa	56.80	97.52	70.83	102.72		4.90	72.67		84.24		103.51	81.14
Punjab	55.05	96.60	62.22	100.48		88.24	68.20		79.31		88.74	85.13
Rajasthan	48.47	96.41	61.37	100.85		86.88	74.27	60.05	143.69		92.74	86.06
Tamil Nadu (incl. Chennai)	66.20	96.03	67.41	101.98		88.39	71.16	58.07	75.56		96.04	82.53
U.P. (E)	63.91	99.92	51.77	105.32		89.32	72.55		84.63	76.78	95.58	86.54
U.P. (W)	81.79	98.59	53.01	98.60		91.19	63.78	42.14	83.14	75.28	93.52	86.27
West Bengal	70.43	97.17	82.67	104.11		6.28	70.67	72.64	64.42		96.14	87.33
Total	64.17	97.06	64.85	101.49	52.33	78.02	71.19	60.44	84.35	72.90	94.58	86.40

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.

Wireline Subscriber Base

Annexure-III

Circle	Group																		Net Addition
	BSNL		MTNL		Bharti		Reliance		Tata		Quadrant		Sistema		Vodafone		Total		
	Mar-17	Apr-17	Mar-17	Apr-17	Mar-17	Apr-17	Mar-17	Apr-17	Mar-17	Apr-17	Mar-17	Apr-17	Mar-17	Apr-17	Mar-17	Apr-17	Mar-17	Apr-17	
Andhra Pradesh	1216162	1202360			161781	162160	75535	75384	172162	176412					12150	12420	1637790	1628736	-9054
Assam	153165	151068													2279	2340	155444	153408	-2036
Bihar	294437	290307					6,497	6,497	12458	12496					1590	1590	314982	310890	-4092
Delhi			1601487	1598164	1283061	1285163	172804	172227	136136	139001					29190	29970	3222678	3224525	1847
Gujarat	1110425	1080743			76409	77323	72642	72623	88529	89748					8149	8718	1356154	1329155	-26999
Haryana	282,293	274,297			22967	22967	4014	4014	36462	39529							345736	340807	-4929
Himachal Pradesh	142,809	139,358					3924	3924	2554	2551					60	60	149347	145893	-3454
J & K	134,283	129,511															134283	129511	-4772
Karnataka	1229813	1222677			621424	621462	157088	157504	212737	252535					23370	23790	2244432	2277968	33536
Kerala	1999633	1987823			58304	58337	32950	32946	19136	19074					1680	1680	2111703	2099860	-11843
Kolkata	613190	609938			120857	120882	69051	69051	50291	50690					5550	5610	858939	856171	-2768
Madhya Pradesh	714319	709291			273061	273060	19658	19657	16330	15825					420	420	1023788	1018253	-5535
Maharashtra	1419352	1395942			79319	79319	81744	81687	285516	309408					13934	14395	1879865	1880751	886
Mumbai			1860887	1856322	357907	358313	257723	255594	543237	551983					22605	23214	3042359	3045426	3067
North East	120802	119546													180	150	120982	119696	-1286
Orissa	279674	274612					3281	3311	8001	7898					1200	1230	292156	287051	-5105
Punjab	586185	570101			119907	119907	20637	20570	16113	16123	262891	263929			1050	1050	1006783	991680	-15103
Rajasthan	599739	589477			48591	48591	19737	19706	11308	11570			56669	56361	2430	2700	738474	728405	-10069
Tamil Nadu (incl. Chennai)	1737302	1714051			554994	555859	133567	133015	111249	112674					10680	10860	2547792	2526459	-21333
U.P.(E)	379997	376537			63995	63995	34702	34693	14473	13372					1469	1740	494636	490337	-4299
U.P.(W)	355420	347585			23187	23187	7102	7102	9545	9555					1140	1080	396394	388509	-7885
West Bengal	319963	317416					2017	1994	3864	4010					59	60	325903	323480	-2423
Total	13688963	13502640	3462374	3454486	3865764	3870525	1174673	1171499	1750101	1834454	262891	263929	56669	56361	139185	143077	24400620	24296971	-103649
Net Addition		-186323		-7888		4761		-3174		84353		1038		-308		3892		-103649	

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.