

**TELECOM REGULATORY AUTHORITY OF INDIA**

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



सत्यमेव जयते

Highlights of Telecom Subscription Data as on 31st May, 2017

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Total Telephone Subscribers (Million)	1,180.82	24.16	1,204.98
Net Addition in May, 2017 (Million)	6.23	-0.14	6.09
Monthly Growth Rate ^{\$}	0.53%	-0.57%	0.51%
Urban Telephone Subscribers (Million)	676.65	20.41	697.06
Net Addition in May, 2017 (Million)	1.17	-0.10	1.07
Monthly Growth Rate ^{\$}	0.17%	-0.50%	0.15%
Rural Telephone Subscribers (Million)	504.18	3.74	507.92
Net Addition in May, 2017 (Million)	5.06	-0.04	5.02
Monthly Growth Rate ^{\$}	1.01%	-0.95%	1.00%
Overall Tele-density*(%)	91.74	1.88	93.61
Urban Tele-density*(%)	167.24	5.05	172.28
Rural Tele-density*(%)	57.12	0.42	57.55
Share of Urban Subscribers	57.30%	84.50%	57.85%
Share of Rural Subscribers	42.70%	15.50%	42.15%
Broadband Subscribers (Million)	273.38	18.23	291.61

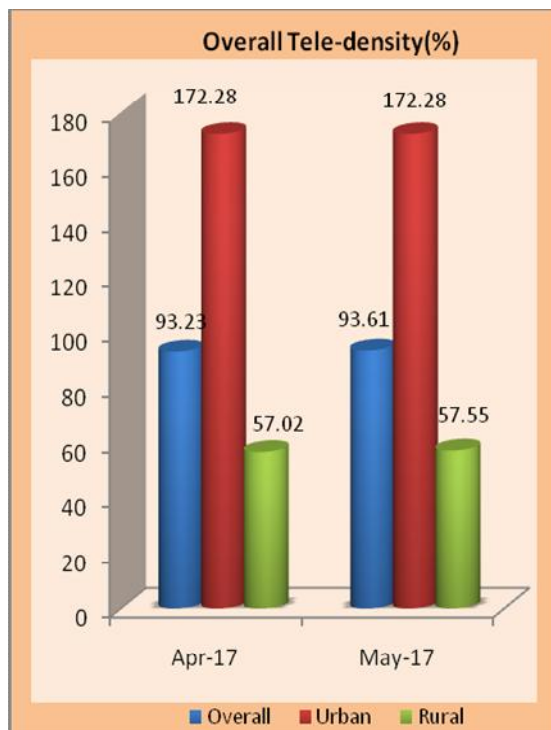
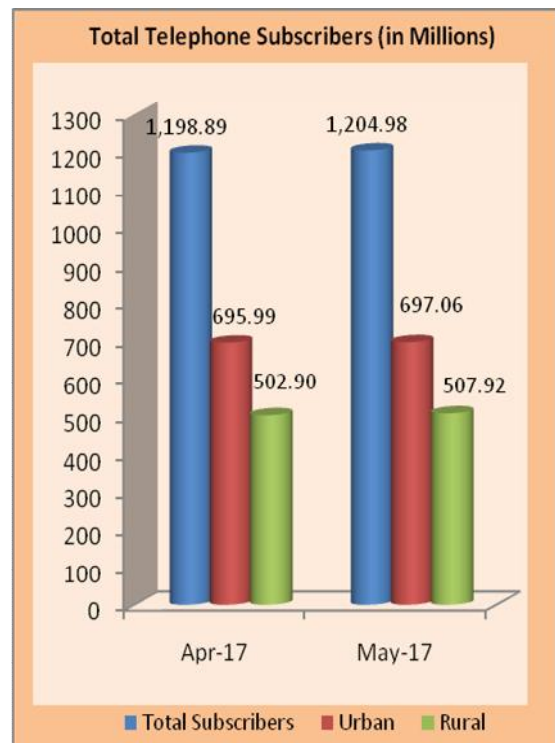
- ❖ In the month of May, 2017, 5.37 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 277.72 million at the end of Apr-17 to 283.09 million at the end of May-17, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR[#]) in May, 2017 was 1,019.55 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.

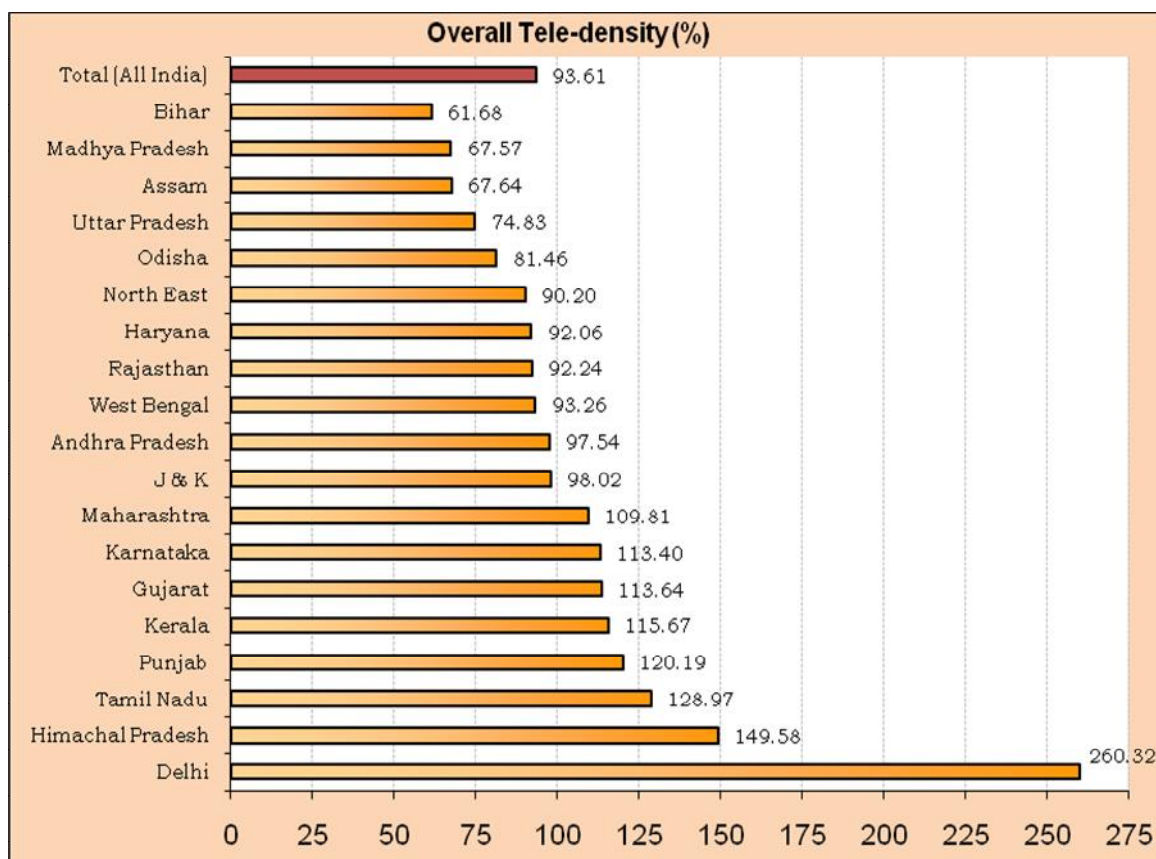
I. Total Telephone Subscribers

- The number of telephone subscribers in India increased from 1,198.89 million at the end of Apr-17 to 1,204.98 million at the end of May-17, thereby showing a monthly growth rate of 0.51%. The urban subscription increased from 695.99 million at the end of Apr-17 to 697.06 million at the end of May-17, and the rural subscription increased from 502.90 million to 507.92 million during the same period. The monthly growth rates of urban and rural subscription were 0.15% and 1.00% respectively during the month of May-17.



- The overall Tele-density in India increased from 93.23 at the end of Apr-17 to 93.61 at the end of May-17. The Urban Tele-density remained same at 172.28 at the end of May-17 as against previous month, whereas the Rural Tele-density also increased from 57.02 at the end of Apr-17 to 57.55 at the end of May-17. The share of urban subscribers and rural subscribers in total number of telephone subscribers at the end of May-17 was 57.85% and 42.15% respectively.

Overall Tele-density (Circle/State Wise) – As on 31st May, 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 May, 2017

Circle Category	Net additions in the month of May, 2017		Telephone Subscriber base as on 31 st May, 2017	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	-59,343	520,667	9,583,726	410,923,693
Circle B	-46,612	3,572,150	6,334,719	471,832,609
Circle C	-14,317	1,699,117	1,132,132	177,897,869
Metro	-18,849	43,6879	7,107,273	120,170,573
All India	-139,121	6,228,813	24157850	1,180,824,744

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

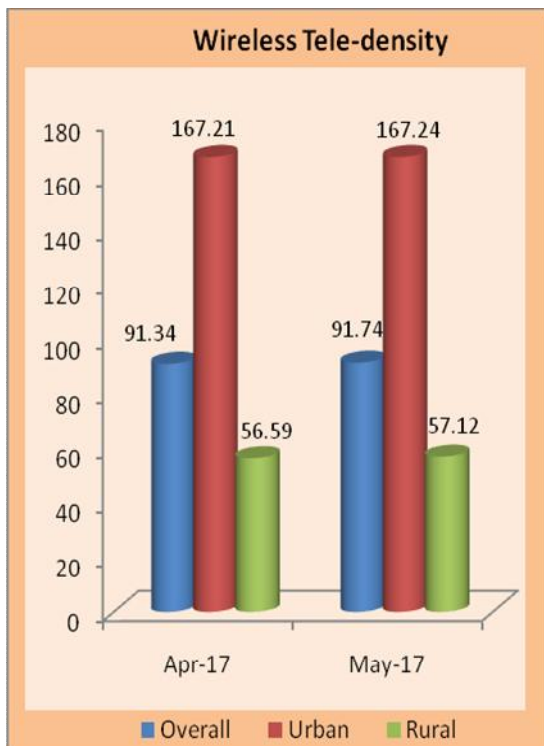
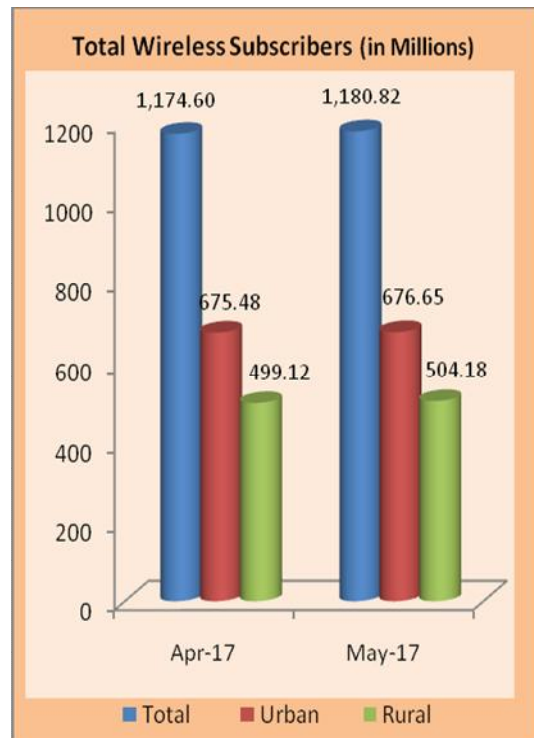
Circle Category	Monthly growth rate (%) (Apr-17 to May-17)		Yearly growth rate (%) (May-16 to May-17)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	-0.62	0.13	-2.41	13.50
Circle B	-0.73	0.76	-6.19	14.32
Circle C	-1.25	0.96	-5.82	15.35
Metro	-0.26	0.36	0.11	15.36
All India	-0.57	0.53	-2.88	14.29

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 May-17. However, Circles of Category-C showed maximum monthly growth rate in subscriber base during the same period.
- In Wireline segment, Circles of Category-A showed maximum monthly net decline in subscriber base during the month of May-17. However, Circles of Category-C showed maximum monthly decline rate in subscriber base during the same period.

III. Wireless Subscribers

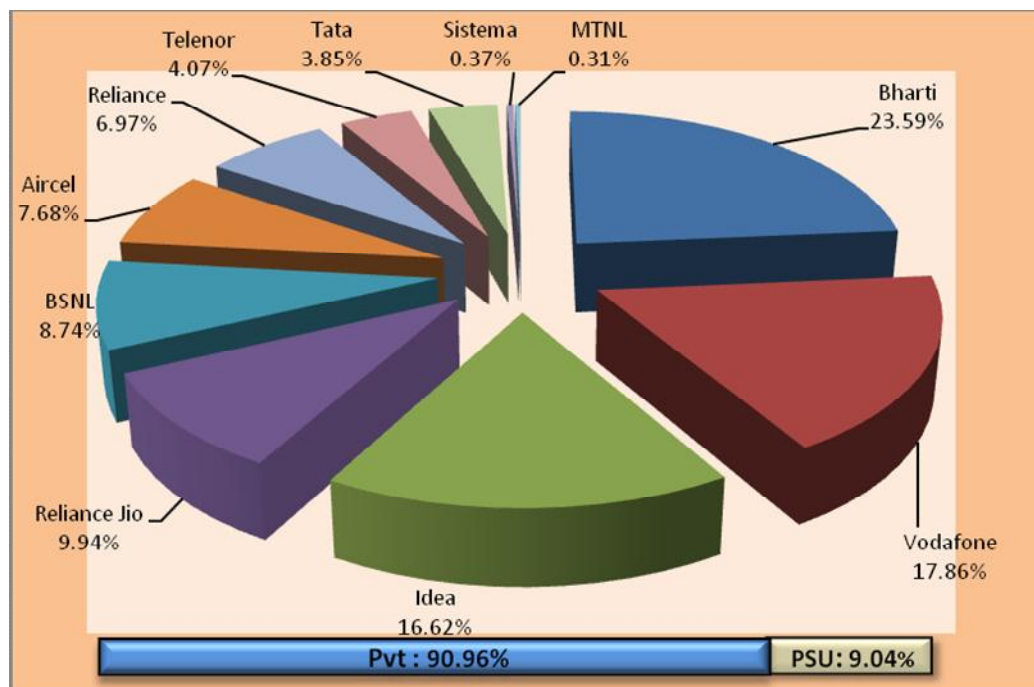
- Total wireless subscribers (GSM, CDMA & LTE) increased from 1,174.60 million at the end of Apr-17 to 1,180.82 million at the end of May-17, thereby registering a monthly growth rate of 0.53%. The Wireless subscription in urban areas increased from 675.48 million at the end of Apr-17 to 676.65 million at the end of May-17, and wireless subscription in rural areas also increased from 499.12 million to 504.18 million during the same period. The monthly growth rates of urban and rural wireless subscription were 0.17% and 1.01% respectively.



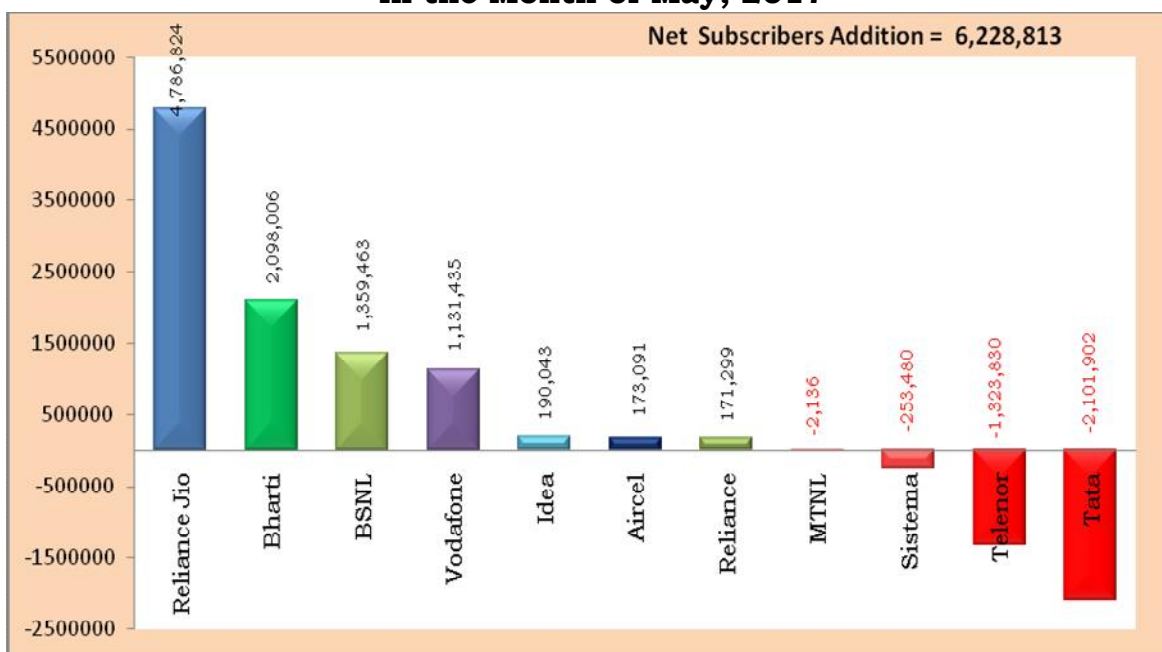
- The Wireless Tele-density(%) in India increased from 91.34 at the end of Apr-17 to 91.74 at the end of May-17. The Urban Wireless Tele-density slightly increased from 167.21 at the end of Apr-17 to 167.24 at the end of May-17, and Rural Wireless Tele-density increased from 56.59 to 57.12 during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 57.30% and 42.70% respectively at the end of May-17. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

- As on 31st May, 2017, the private access service providers held 90.96% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 9.04%. 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 31st May, 2017



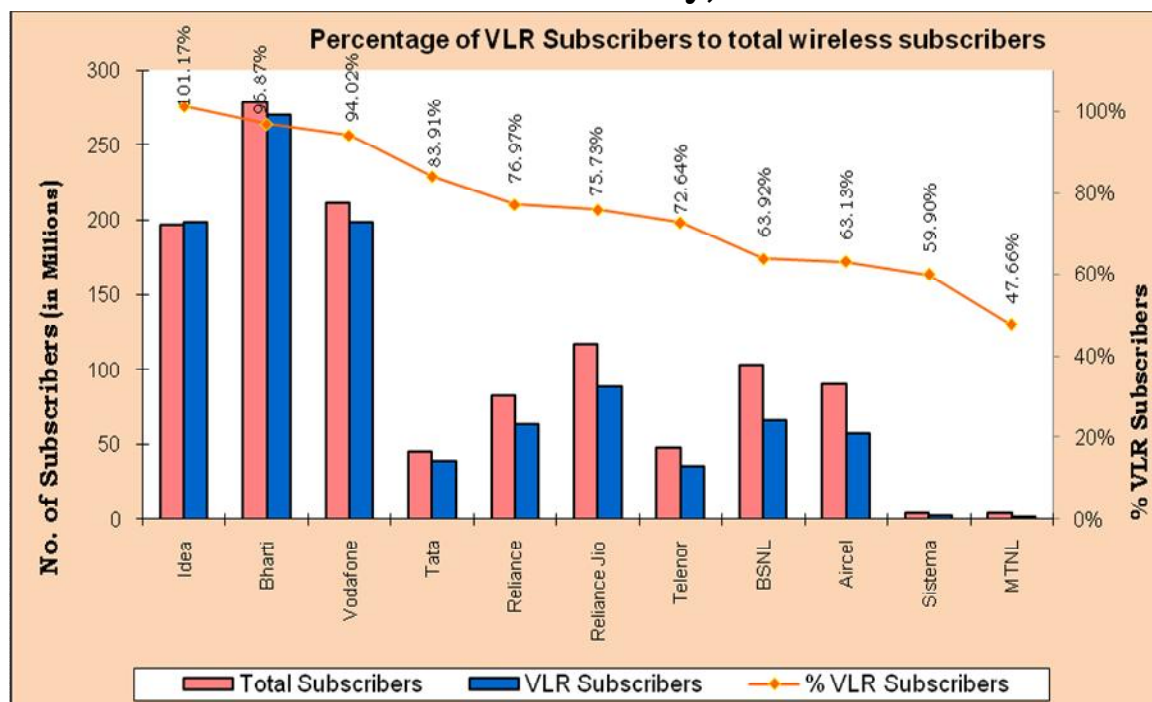
Net Additions in Wireless Subscribers of Access Service Providers in the Month of May, 2017



IV. Active Wireless Subscribers (VLR Data)

- Out of the total wireless subscribers (1,180.82 million), 1,019.55 million wireless subscribers were active on the date of peak VLR in the month of May-17. The proportion of active wireless subscribers was approximately 86.34% 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 May-17 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

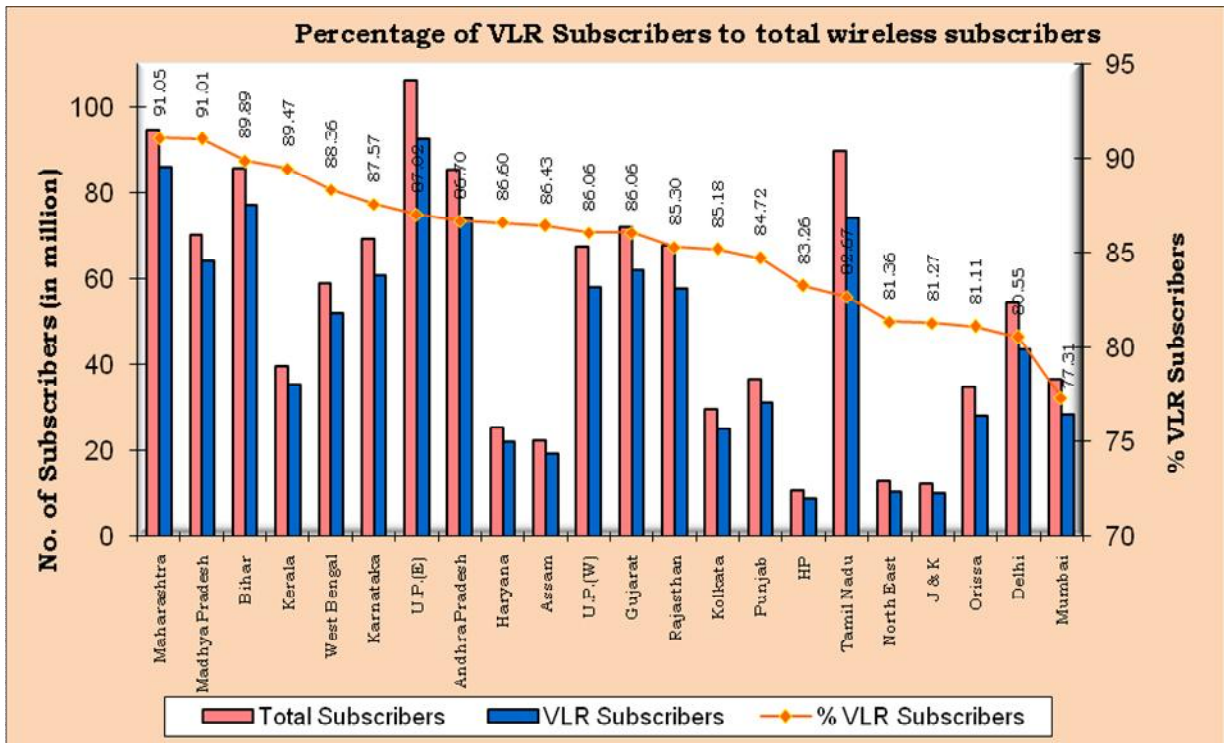
Access Service Provider-wise Percentage of VLR Subscribers in the Month of May, 2017



Note-

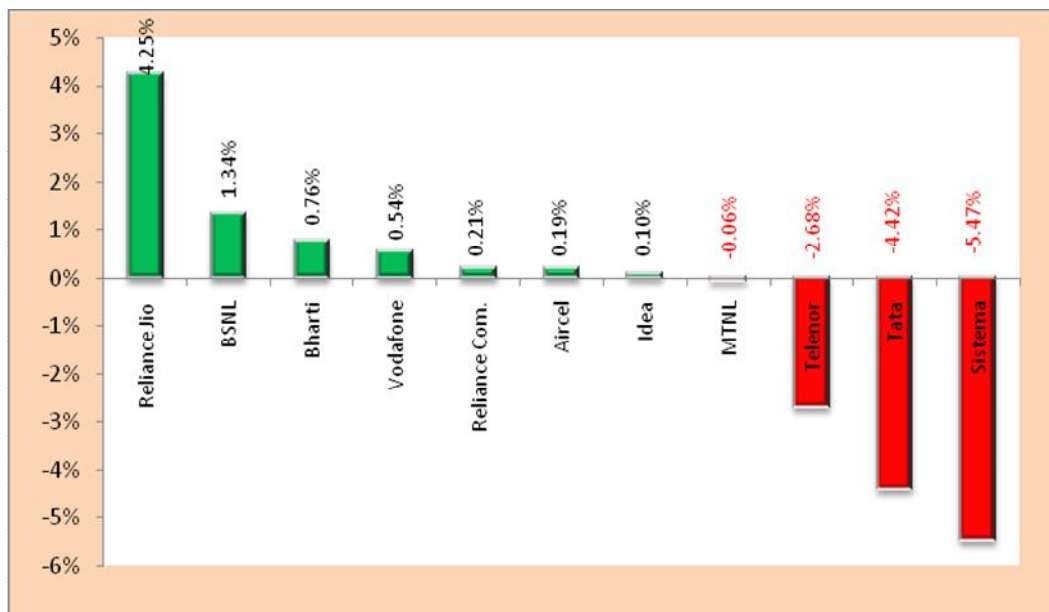
1. Number of VLR subscribers of Idea Cellular was more than its subscriber base due to a large number of inroamers in its network.

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

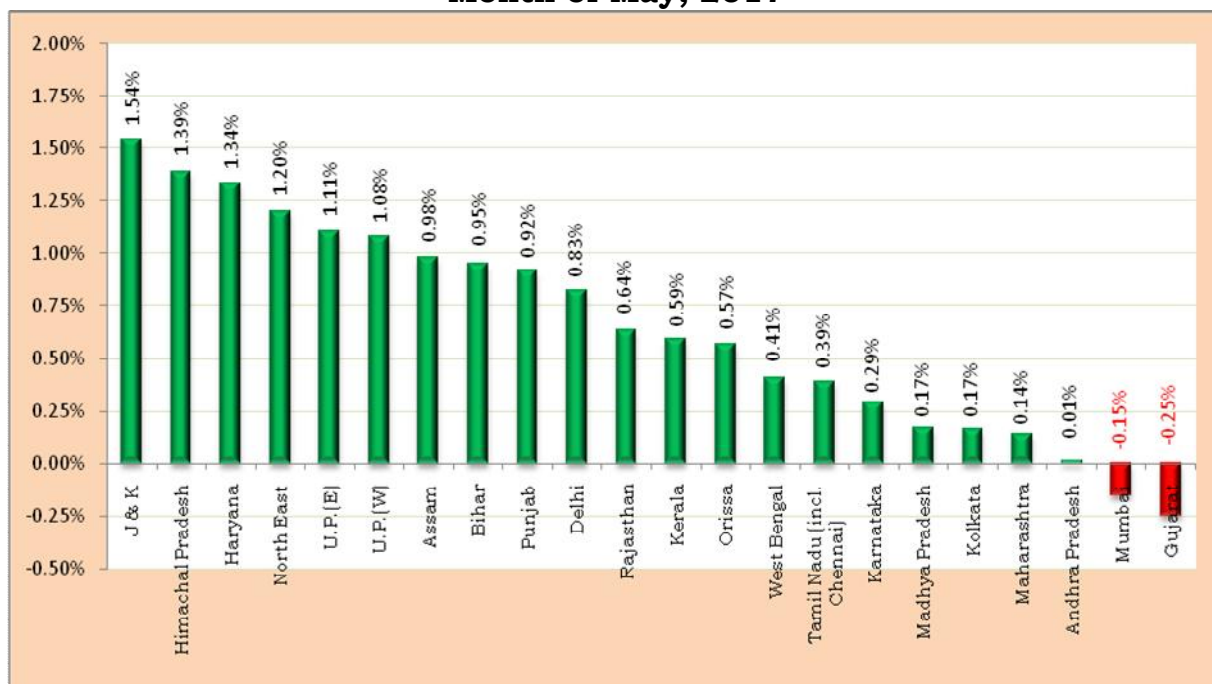


V. Growth in Wireless Subscribers

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



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



- J&K service areas showed maximum growth rate in wireless subscriber during the month of May-17. Mumbai and Gujarat service areas showed decline rate in wireless subscribers during the same period.

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 May-17, a total of 5.37 million requests were received for MNP. With this, the cumulative MNP requests increased from 277.72 million at the end of Apr-17 to 283.09 million at the end of May-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 23.82 million) followed by Gujarat (about 20.28 million).

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 30.86 million) followed by Andhra Pradesh (about 25.49 million).

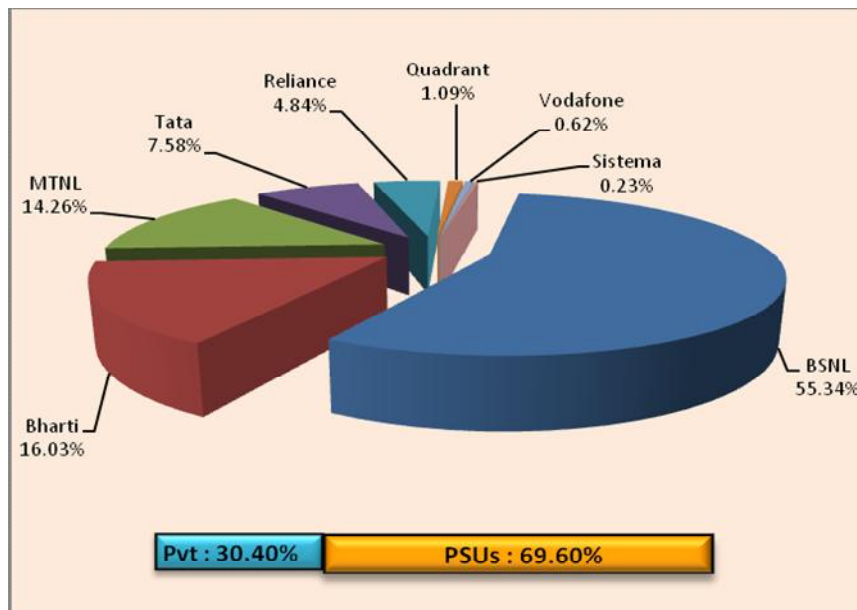
Service Area Wise MNP Status at the end of May, 2017			
Zone - I		Zone - II	
Service Area	Number of Porting Requests	Service Area	Number of Porting Requests
Delhi	12636866	Andhra Pradesh	25488966
Gujarat	20278623	Assam	1484410
Haryana	11312814	Bihar	10343664
Himachal Pradesh	1040610	Karnataka	30855319
Jammu & Kashmir	153088	Kerala	7656724
Maharashtra	19350648	Kolkata	5922021
Mumbai	15654946	Madhya Pradesh	19342885
Punjab	11054562	North East	553206
Rajasthan	23816877	Orissa	5559386
Uttar Pradesh - East	14306005	Tamil Nadu	17259894
Uttar Pradesh - West	12775786	West Bengal	16241628
Total	142,380,825	Total	140,708,103
Total (Zone-I + Zone-II)		283,088,928	
Net Addition (in May, 2017)		5,367,114	

VII. Wireline Subscribers

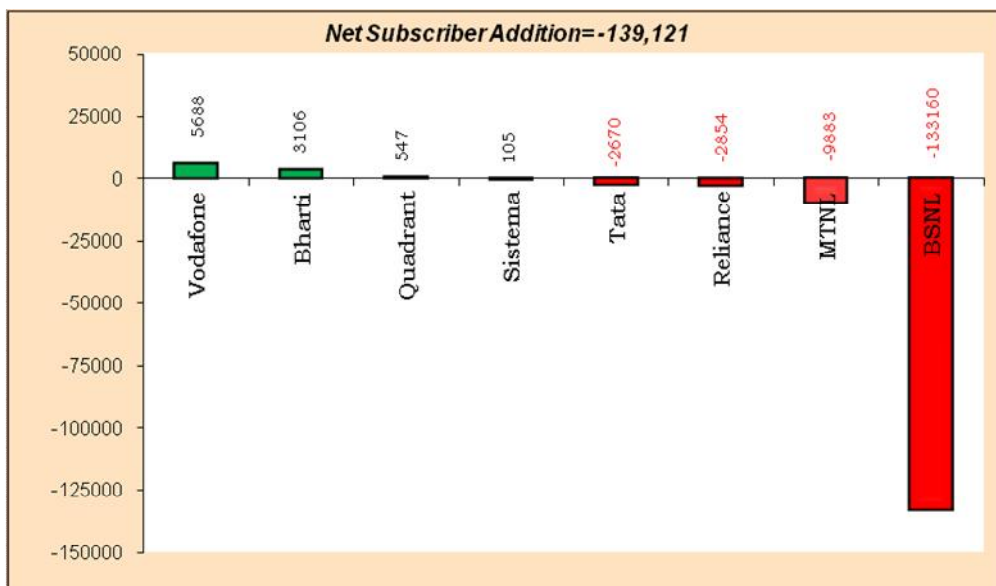
- Wireline subscribers declined from 24.30 million at the end of Apr-17 to 24.16 million at the end of May-17. Net decline in the wireline subscriber base was 0.14 million with a monthly decline rate of 0.57%. The share of urban and rural subscribers in total wireline subscribers were 84.50% and 15.50% respectively at the end of May-17.
- The Overall Wireline Tele-density(%) declined from 1.89 at the end of Apr-17 to 1.88 at the end of May-17. Urban and Rural Wireline Tele-density were 5.05 and 0.42 respectively during the same period.

- BSNL and MTNL, the two PSU access service providers, held 69.60% 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 May-17 are given below:

Access Service Provider-wise Market Shares (Wireline Subscribers) as on 31st May, 2017



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



VIII. Broadband (\geq 512 Kbps download)

- As per the reports received from the service providers, the number of broadband subscribers increased from 284.23 Million at the end of Apr-17 to 291.61 million at the end of May-17 with a monthly growth rate of 2.60%. Segment-wise broadband subscribers and their monthly growth rates are as below:

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

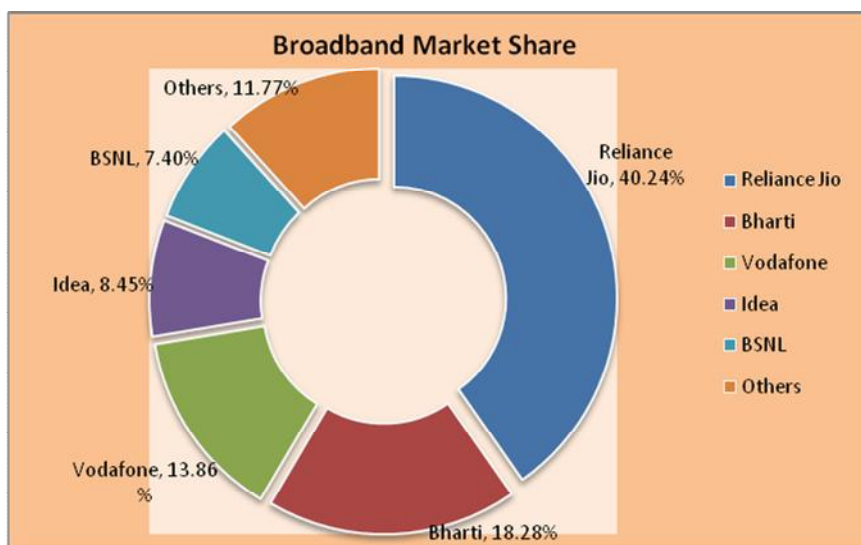
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of May-17
	As on 30 th April, 2017	As on 31 st May, 2017	
Wired subscribers	18.25	18.23	-0.14
Mobile devices users (Phones and dongles)	265.43	272.85	2.80
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.55	0.53	-3.04
Total	284.23	291.61	2.60

- Top five service providers constituted 88.23% market share of the total broadband subscribers at the end of May-17. These service providers were Reliance Jio Infocom Ltd (117.34 million), Bharti Airtel (53.30 million), Vodafone (40.43 million), Idea Cellular (24.63 million) and BSNL (21.59 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 31.05.2017**



- As on 31st May, 2017, the top five Wired Broadband Service providers were BSNL (9.80 million), Bharti Airtel (2.09 million), Atria Convergence Technologies (1.20 million), MTNL (0.99 million) and YOU Broadband (0.64 million).
- As on 31st May, 2017, the top five Wireless Broadband Service providers were Reliance Jio Infocomm Ltd (117.34 million), Bharti Airtel (51.21 million), Vodafone (40.42 million), Idea Cellular (24.63 million) and Reliance Communications (14.46 million).

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Pr. Advisor (F&EA)

Wireless Subscriber Base

Annexure-I

Circle	Group											
	Bharti		Reliance		Vodafone		Tata		Idea		Aircel	
	Apr-17	May-17	Apr-17	May-17	Apr-17	May-17	Apr-17	May-17	Apr-17	May-17	Apr-17	May-17
Andhra Pradesh	26242863	26404600	3484210	3532559	6934836	6930585	3689881	3548965	17702398	17456987	2611465	2615845
Assam	6517446	6597372	1108219	1103755	3944177	3954170			1335553	1319454	5836146	5863632
Bihar	31234424	31387573	3125173	3195329	9718863	9856692	1280568	1221280	12763663	12934083	7576749	7587484
Delhi	11641057	11740506	5641660	5685391	10837583	10930747	1459571	1352781	6573296	6597792	6896054	6931758
Gujarat	9189404	9197047	5386776	5459421	20192608	20162653	2412007	2292185	13120124	13014460	17063	17063
Haryana	3530619	3573642	1441303	1469001	5976451	6064723	2325833	2233461	5147236	5180297	3092	3092
Himachal Pradesh	2981275	3043787	1508191	1522490	722229	714946	42824	39296	808472	805022	1103023	1097897
J & K	3697489	3744028	840463	852468	1014044	1020221			701960	687986	3025196	3080716
Karnataka	22268817	22394976	5147776	5271886	7706429	7702936	6018534	5781633	9515022	9479807	3451199	3438153
Kerala	4570026	4561930	1256446	1264036	7669308	7676176	1235249	1183247	11041650	11087764	367218	365121
Kolkata	5034068	5068295	4005595	3910982	5759494	5789948	2389395	2317912	2646753	2611092	4412016	4425652
Madhya Pradesh	14146387	14216021	9251751	8816932	6778964	6775966	4142244	4035356	24177290	24273431	20694	20694
Maharashtra	14911996	14923803	3749129	3730160	19488055	19629429	5037038	4775388	26758459	26908836	2591816	2584697
Mumbai	6466253	6472033	4743092	4755314	9044396	8958676	2596696	2488734	4353579	4289699	2882375	2882509
North East	4292867	4338311	256941	248987	1604529	1608815			607048	589289	3234019	3324837
Orissa	11680255	11782298	2037029	2103979	4566837	4591094	1770757	1696242	2037836	1981274	4632127	4591379
Punjab	9043723	9125793	1690261	1703691	5467922	5493552	2186230	2084003	7128028	7149340	1128678	1120645
Rajasthan	21204473	21302325	5477918	5581933	12278686	12246800	951113	839672	8351451	8329586	6630367	6629478
Tamil Nadu (incl. Chennai)	18486185	18501335	5404254	5566269	16338793	16330058	3764613	3582390	6062071	6060405	21244095	21211743
U.P.(E)	23965202	24494202	7895447	7918421	20889783	21258078	3148899	3038660	12423521	12584358	6865370	6884853
U.P.(W)	8956987	9123736	5392016	5494898	12447461	12616978	2751539	2622453	16431150	16605617	873242	881255
West Bengal	16439611	16605820	3330825	3157872	20438056	20637696	328342	295773	6366145	6296169	5158437	5175029
Total	276501427	278599433	82174475	82345774	209819504	210950939	47531333	45429431	196052705	196242748	90560441	90733532
Net Addition		2098006		171299		1131435		-2101902		190043		173091

Wireless Subscriber Base

Annexure-I (contd.)

Circle	Group												Net Addition
	BSNL		MTNL		Telenor		Sistema		Reliance Jio		Total		
	Apr-17	May-17	Apr-17	May-17	Apr-17	May-17	Apr-17	May-17	Apr-17	May-17	Apr-17	May-17	
Andhra Pradesh	9948457	9957252			5067963	4866096			9691612	10073359	85373685	85386248	12563
Assam	1525095	1534273							1619174	1728223	21885810	22100879	215069
Bihar	4034682	4061130			8929693	8854268			6271984	6646336	84935799	85744175	808376
Delhi			2323609	2320736			515501	496365	7854095	8129748	53742426	54185824	443398
Gujarat	4800834	4885948			8537843	8119850	114543	111061	8372186	8706682	72143388	71966370	-177018
Haryana	3784226	3891198							2864549	2992703	25073309	25408117	334808
Himachal Pradesh	2182650	2221021							1079462	1128718	10428126	10573177	145051
J & K	1451869	1483414							1281105	1328399	12012126	12197232	185106
Karnataka	7038643	7054362					701098	648880	7172719	7450958	69020237	69223591	203354
Kerala	9288130	9402324					208632	202996	3682457	3807210	39319116	39550804	231688
Kolkata	991523	1050078					356770	335840	3769979	3904958	29365593	29414757	49164
Madhya Pradesh	5246014	5394483							6386873	6738374	70150217	70271257	121040
Maharashtra	6564130	6600498			7385725	7115086			7952752	8302659	94439100	94570556	131456
Mumbai			1301574	1302311					5237710	5420716	36625675	36569992	-55683
North East	1586641	1579124							896559	939453	12478604	12628816	150212
Orissa	5052160	5090075							2681286	2817249	34458287	34653590	195303
Punjab	4628466	4735731							5048878	5243693	36322186	36656448	334262
Rajasthan	5565595	5778382					1213020	1135063	5585578	5843726	67258201	67686965	428764
Tamil Nadu (incl. Chennai)	9328963	9468933					451855	428028	8345787	8627767	89426616	89776928	350312
U.P.(E)	11257997	11377505			11431599	11172888			7141457	7451910	105019275	106180875	1161600
U.P.(W)	5755824	5830808			7991330	7892135	93691	91761	5953014	6206409	66646254	67366050	719796
West Bengal	1770453	1765276					977617	929253	3662415	3849205	58471901	58712093	240192
Total	101802352	103161815	3625183	3623047	49344153	48020323	4632727	4379247	112551631	117338455	1174595931	1180824744	6228813
Net Addition		1359463		-2136		-1323830		-253480		4786824		6228813	

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

Annexure-II

Circle	Aircel	Bharti	BSNL	Idea	MTNL	Reliance	Reliance Jio	Sistema	Tata	Telenor	Vodafone	Total
Andhra Pradesh	54.47	95.50	72.77	101.73		80.72	68.44		90.27	72.43	85.27	86.70
Assam	80.29	96.19	75.05	98.52		3.60	90.82				100.86	86.43
Bihar	82.26	97.75	65.40	100.32		7.81	87.61		78.45	76.91	108.41	89.89
Delhi	50.04	92.53		98.34	42.78	82.40	70.63	43.15	61.56		94.76	80.55
Gujarat	2385.08	93.67	60.75	102.65		89.36	74.33	41.77	68.48	62.35	92.02	86.06
Haryana	0.36	94.89	51.65	100.86		92.01	82.81		85.98		92.78	86.60
Himachal Pradesh	43.46	96.59	61.45	114.92		92.09	89.10		32.69		94.40	83.26
J & K	67.65	96.88	66.97	101.61		51.34	89.94				85.84	81.27
Karnataka	47.81	98.75	62.86	98.44		83.73	76.47	60.79	91.04		95.09	87.57
Kerala	61.21	99.40	71.79	102.96		89.19	78.19	50.82	89.91		93.69	89.47
Kolkata	60.78	95.13	78.23	93.89		96.71	68.43	70.56	88.89		95.33	85.18
Madhya Pradesh	1.09	97.37	64.84	103.84		85.62	77.54		76.90		81.65	91.01
Maharashtra	50.22	99.01	66.90	101.99		89.57	84.96		86.93	69.57	95.16	91.05
Mumbai	45.44	92.10		82.58	56.35	81.84	62.93		76.48		83.94	77.31
North East	63.08	96.12	69.56	97.56		15.24	86.92				91.98	81.36
Orissa	55.38	96.94	70.11	104.60		4.69	79.52		84.62		102.94	81.11
Punjab	50.96	95.68	60.71	101.16		87.03	70.30		79.04		87.89	84.72
Rajasthan	46.63	94.41	58.49	101.01		84.89	78.11	59.46	154.91		93.61	85.30
Tamil Nadu (incl. Chennai)	65.85	97.87	67.16	100.78		86.64	71.35	55.31	74.77		96.63	82.67
U.P. (E)	62.74	99.70	51.26	105.44		88.57	79.87		86.24	77.24	95.68	87.02
U.P. (W)	80.20	98.42	52.53	97.56		90.41	67.69	42.37	84.03	74.84	92.81	86.06
West Bengal	77.50	97.51	82.30	103.85		7.02	78.59	72.91	64.16		94.82	88.36
Total	63.13	96.87	63.92	101.17	47.66	76.97	75.73	59.90	83.91	72.64	94.02	86.34

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																	Total		Net Addition
	BSNL		MTNL		Bharti		Reliance		Tata		Quadrant		Sistema		Vodafone		Apr-17	May-17		
	Apr-17	May-17	Apr-17	May-17	Apr-17	May-17	Apr-17	May-17	Apr-17	May-17	Apr-17	May-17	Apr-17	May-17	Apr-17	May-17				
Andhra Pradesh	1202360	1193510			162160	162270	75384	75354	176412	174954					12420	13110	1628736	1619198	-9538	
Assam	151068	149926													2340	2520	153408	152446	-962	
Bihar	290307	283352					6,497	6,497	12496	12584					1590	1620	310890	304053	-6837	
Delhi			1598164	1592760	1285163	1287084	172227	171576	139001	139622					29970	30300	3224525	3221342	-3183	
Gujarat	1080743	1074027			77323	77403	72623	72483	89748	89639					8718	8836	1329155	1322388	-6767	
Haryana	274,297	268,382			22967	22975	4014	4014	39529	39516							340807	334887	-5920	
Himachal Pradesh	139,358	137,688					3924	3924	2551	2480					60	60	145893	144152	-1741	
J & K	129,511	129,074															129511	129074	-437	
Karnataka	1222677	1209714			621462	621494	157504	158049	252535	251197					23790	24000	2277968	2264454	-13514	
Kerala	1987823	1981682			58337	58367	32946	32895	19074	18943					1680	1770	2099860	2093657	-6203	
Kolkata	609938	599463			120882	120918	69051	68961	50690	50318					5610	5670	856171	845330	-10841	
Madhya Pradesh	709291	704699			273060	273082	19657	19653	15825	15493					420	540	1018253	1013467	-4786	
Maharashtra	1395942	1381053			79319	79341	81687	80895	309408	309031					14395	15189	1880751	1865509	-15242	
Mumbai			1856322	1851843	358313	358496	255594	254867	551983	552565					23214	22830	3045426	3040601	-4825	
North East	119546	118119													150	150	119696	118269	-1427	
Orissa	274612	271512					3311	3311	7898	8025					1230	1290	287051	284138	-2913	
Punjab	570101	559494			119907	119919	20570	20480	16123	16133	263929	264476			1050	1050	991680	981552	-10128	
Rajasthan	589477	579215			48591	48652	19706	19706	11570	11520			56361	56466	2700	2700	728405	718259	-10146	
Tamil Nadu (incl. Chennai)	1714051	1699214			555859	556432	133015	132469	112674	112992					10860	11070	2526459	2512177	-14282	
U.P.(E)	376537	373275			63995	64002	34693	34425	13372	13254					1740	1890	490337	486846	-3491	
U.P.(W)	347585	341935			23187	23196	7102	7102	9555	9501					1080	4110	388509	385844	-2665	
West Bengal	317416	314146					1994	1984	4010	4017					60	60	323480	320207	-3273	
Total	13502640	13369480	3454486	3444603	3870525	3873631	1171499	1168645	1834454	1831784	263929	264476	56361	56466	143077	148765	24296971	24157850	-139121	
Net Addition		-133160		-9883		3106		-2854		-2670		547		105		5688		-139121		

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.