

**TELECOM REGULATORY AUTHORITY OF INDIA**

New Delhi, 19th May, 2017
(www.trai.gov.in)

**Highlights of Telecom Subscription Data as on 31st March, 2017**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Total Telephone Subscribers (Million)	1170.18	24.40	1194.58
Net Addition in March, 2017 (Million)	5.98	0.054	6.03
Monthly Growth Rate ^{\$}	0.51%	0.22%	0.51%
Urban Telephone Subscribers (Million)	672.42	20.56	692.97
Net Addition in March, 2017 (Million)	0.78	0.03	0.82
Monthly Growth Rate ^{\$}	0.12%	0.17%	0.12%
Rural Telephone Subscribers (Million)	497.76	3.85	501.61
Net Addition in March, 2017 (Million)	5.19	0.02	5.21
Monthly Growth Rate ^{\$}	1.05%	0.52%	1.05%
Overall Tele-density*(%)	91.08	1.90	92.98
Urban Tele-density*(%)	166.71	5.10	171.80
Rural Tele-density*(%)	56.47	0.44	56.91
Share of Urban Subscribers	57.46%	84.24%	58.01%
Share of Rural Subscribers	42.54%	15.76%	41.99%
Broadband Subscribers (Million)	258.28	18.24	276.52

- ❖ In the month of March, 2017, 6.03 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 266.73 million at the end of Feb-17 to 272.76 million at the end of Mar-17, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR[#]) in March, 2017 was 1,016.38 million.

Note:

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

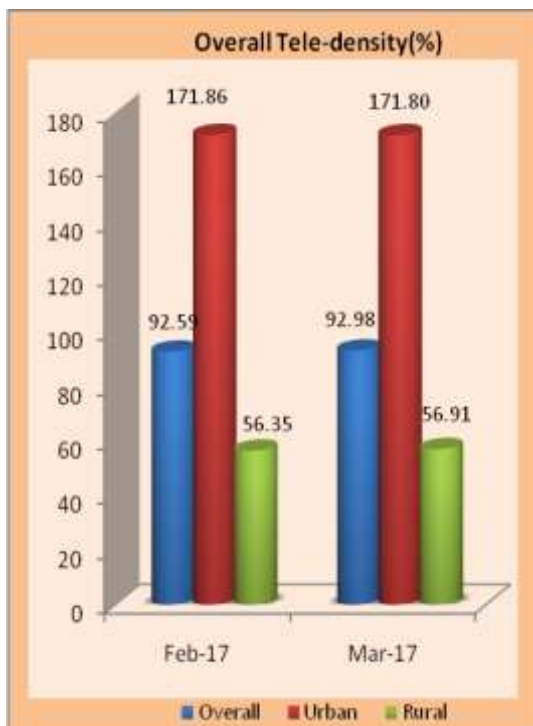
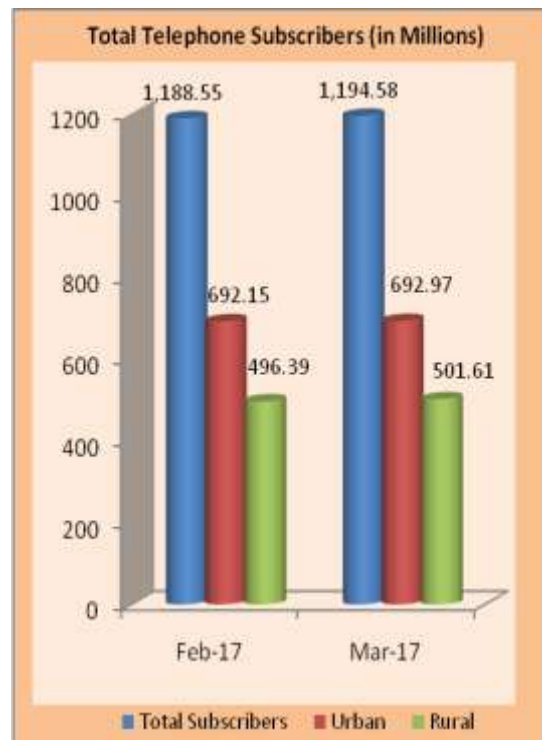
* Based on the population projections from Census data published by the Office of Registrar General & Census Commissioner of India.

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.

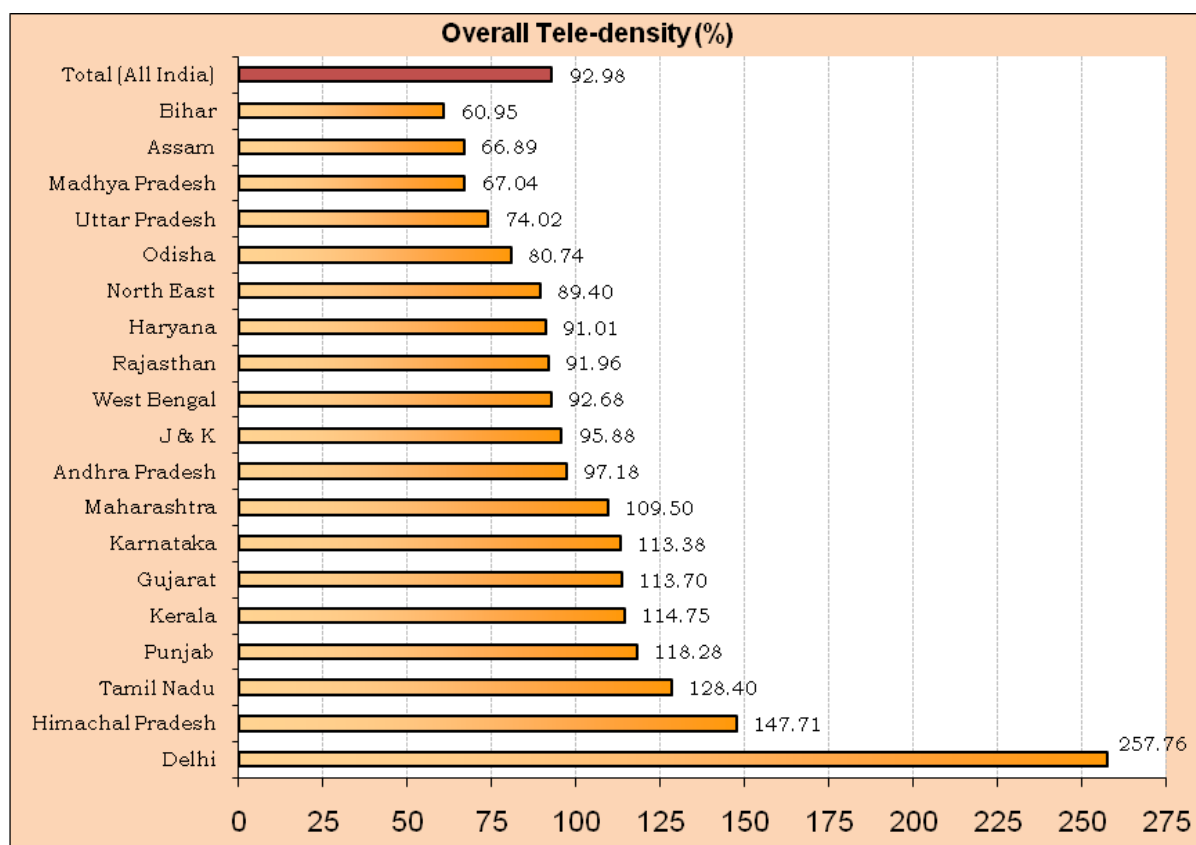
I. Total Telephone Subscribers

- The number of telephone subscribers in India increased from 1,188.55 million at the end of Feb-17 to 1,194.58 million at the end of Mar-17, thereby showing a monthly growth rate of 0.51%. The urban subscription increased from 692.15 million at the end of Feb-17 to 692.97 million at the end of Mar-17, and the rural subscription increased from 496.39 million to 501.61 million during the same period. The monthly growth rates of urban and rural subscription were 0.12% and 1.05% respectively during the month of Mar-17.



- The overall Tele-density in India increased from 92.59 at the end of Feb-17 to 92.98 at the end of Mar-17. The Urban Tele-density slightly declined from 171.86 at the end of Feb-17 to 171.80 at the end of Mar-17, however the Rural Tele-density increased from 56.35 at the end of Feb-17 to 56.91 at the end of Mar-17. The share of urban subscribers and rural subscribers in total number of telephone subscribers at the end of Mar-17 was 58.01% and 41.99% respectively.

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

Circle Category	Net additions in the month of March, 2017		Telephone Subscriber base as on 31 st March, 2017	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	66,514	2,221,327	9,666,033	409,064,761
Circle B	-16,100	1,531,834	6,443,423	466,384,752
Circle C	2,535	2,052,652	1,167,195	175,478,739
Metro	965	172,274	7,123,976	119,250,053
All India	53,914	5,978,087	24,400,627	1,170,178,305

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

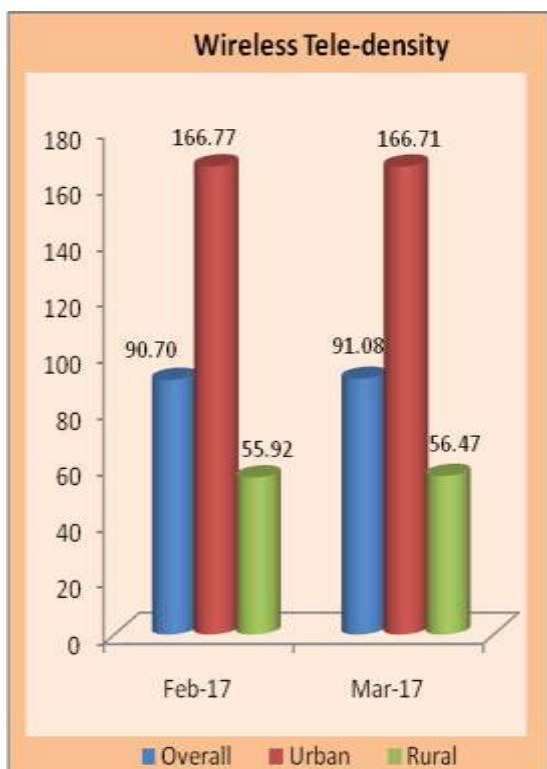
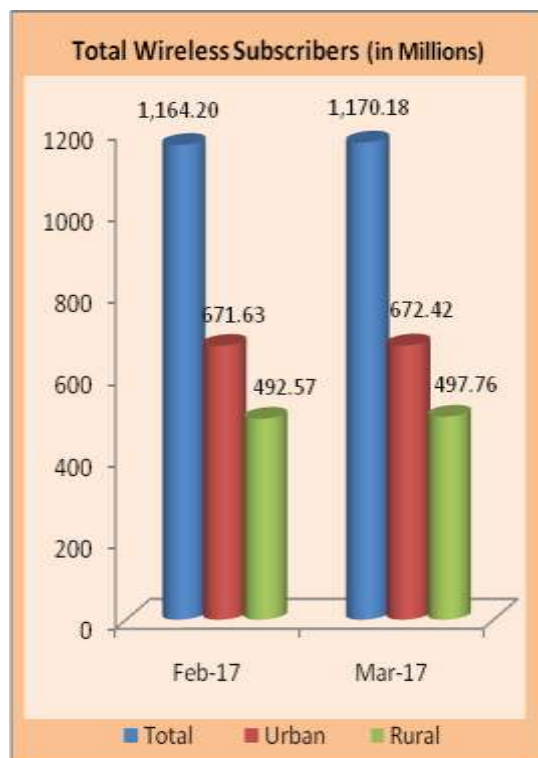
Circle Category	Monthly growth rate (%) (Feb-17 to Mar-17)		Yearly growth rate (%) (Mar-16 to Mar-17)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	0.69	0.55	-3.61	12.48
Circle B	-0.25	0.33	-5.96	12.61
Circle C	0.22	1.18	-4.78	15.67
Metro	0.01	0.14	0.07	14.59
All India	0.22	0.51	-3.27	13.21

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-A showed highest monthly net addition during the month of Mar-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 addition and monthly growth rate in subscriber base during the month of Mar-17. However, Circles of Category-B showed monthly decline rate in subscriber base during the same period.

III. Wireless Subscribers

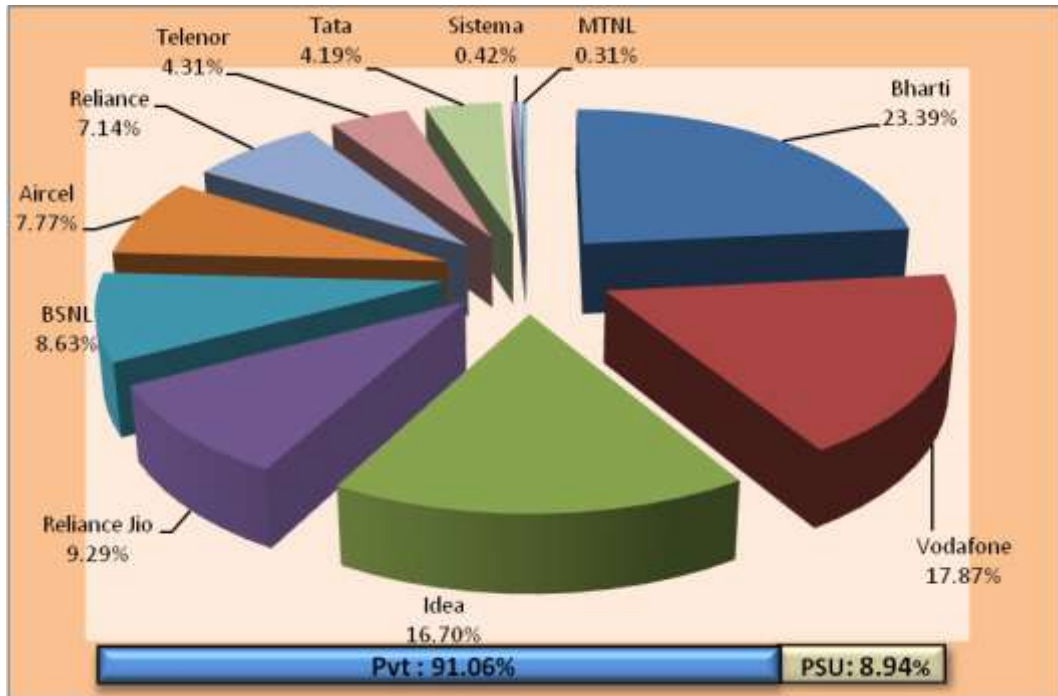
- Total wireless subscribers (GSM, CDMA & LTE) increased from 1,164.20 million at the end of Feb-17 to 1,170.18 million at the end of Mar-17, thereby registering a monthly growth rate of 0.51%. The Wireless subscription in urban areas increased from 671.63 million at the end of Feb-17 to 672.42 million at the end of Mar-17, and wireless subscription in rural areas increased from 492.57 million to 497.76 million during the same period. The monthly growth rates of urban and rural wireless subscription were 0.12% and 1.05% respectively.



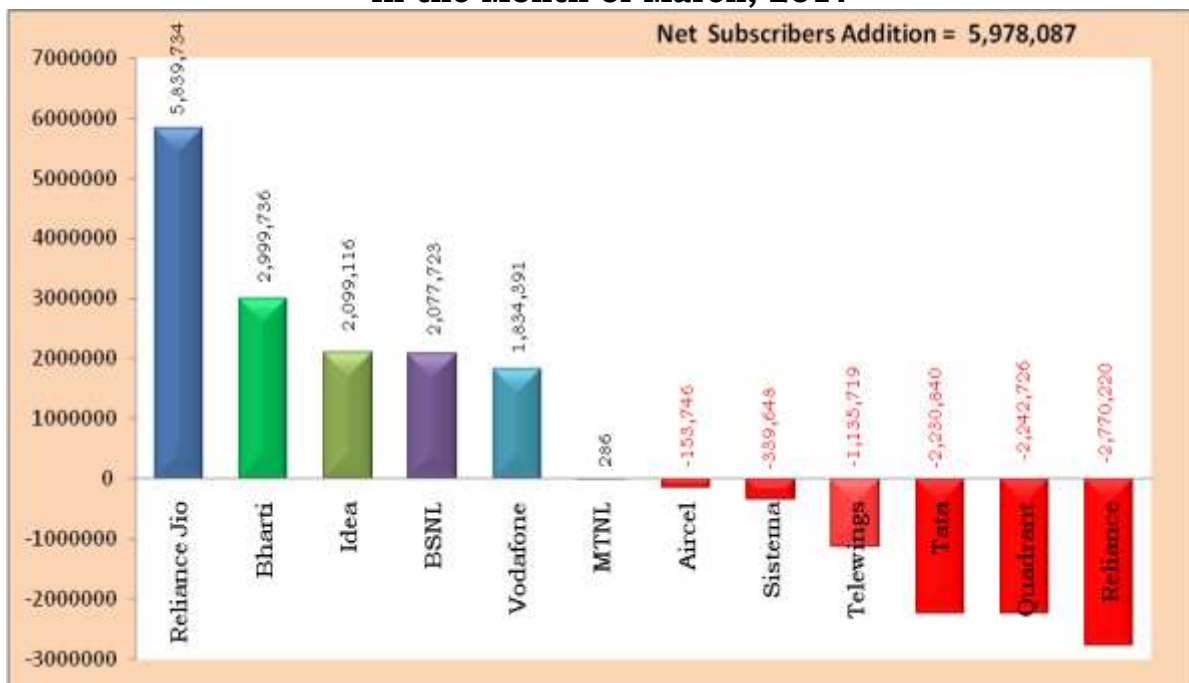
- The Wireless Tele-density(%) in India increased from 90.70 at the end of Feb-17 to 91.08 at the end of Mar-17. The Urban Wireless Tele-density slightly declined from 166.77 at the end of Feb-17 to 166.71 at the end of Mar-17, however Rural Wireless Tele-density increased from 55.92 to 56.47 during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 57.46% and 42.54% respectively at the end of Mar-17. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

- As on 31st March, 2017, the private access service providers held 91.06% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 8.94%. 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 March, 2017



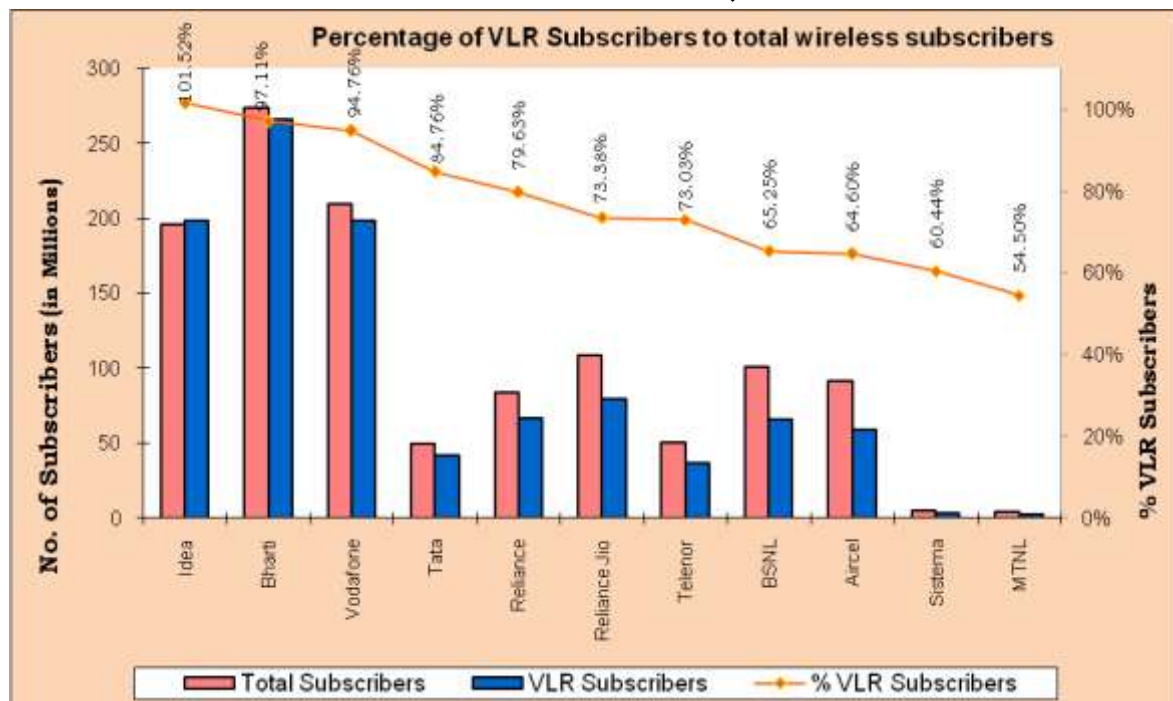
Net Additions in Wireless Subscribers of Access Service Providers in the Month of March, 2017



IV. Active Wireless Subscribers (VLR Data)

- Out of the total wireless subscribers (1,170.18 million), 1,016.38 million wireless subscribers were active on the date of peak VLR in the month of Mar-17. The proportion of active wireless subscribers was approximately 86.86% 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 Mar-17 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

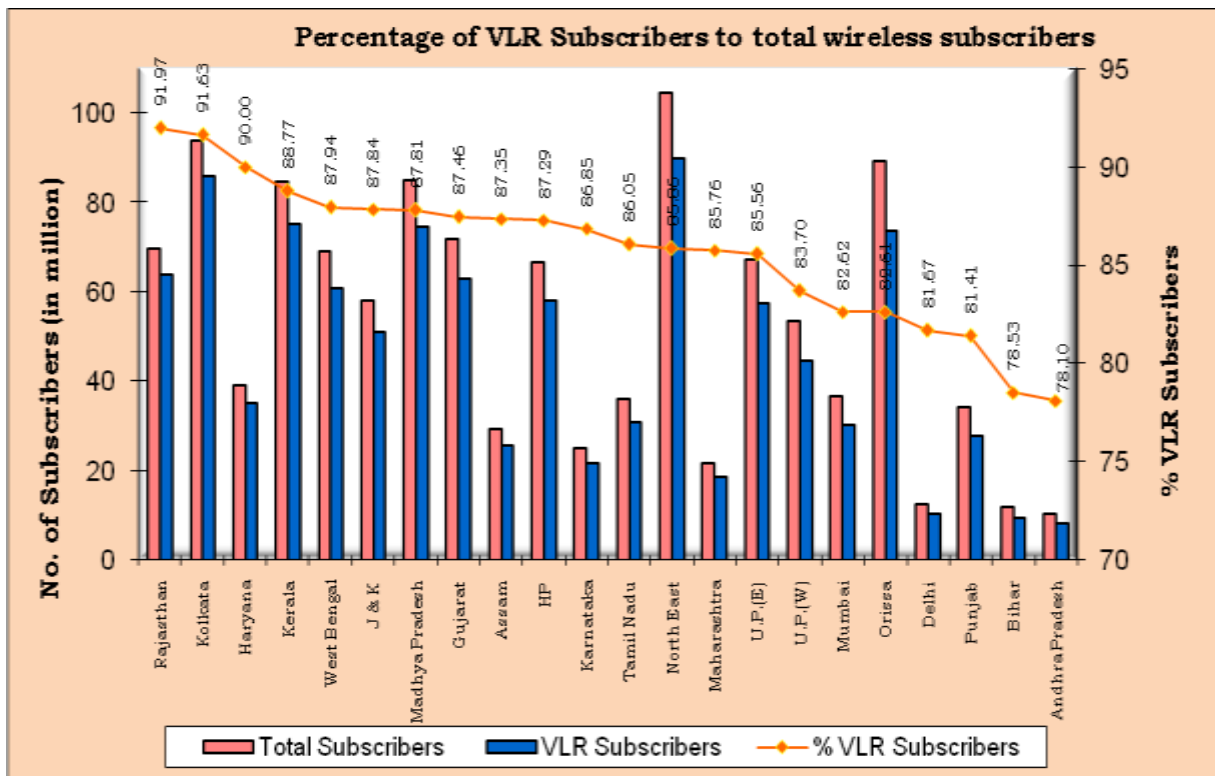
Access Service Provider-wise Percentage of VLR Subscribers in the Month of March, 2017



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 March, 2017**



V. Growth in Wireless Subscribers

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



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



- J&K service areas showed maximum growth rate and Punjab service area showed maximum decline rate in wireless subscribers during the month of Mar-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 Mar-17, a total of 6.03 million requests were received for MNP. With this, the cumulative MNP requests increased from 266.73 million at the end of Feb-17 to 272.76 million at the end of Mar-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 23.00 million) followed by Gujarat (about 19.54 million).

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 29.91 million) followed by Andhra Pradesh (about 24.64 million).

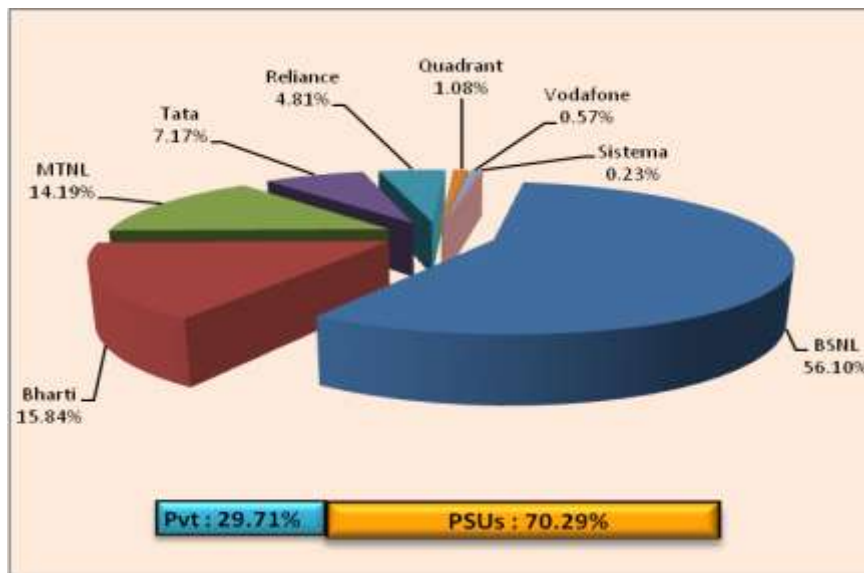
Service Area Wise MNP Status at the end of March, 2017			
Zone - I		Zone - II	
Service Area	Number of Porting Requests	Service Area	Number of Porting Requests
Delhi	11868355	Andhra Pradesh	24637338
Gujarat	19544609	Assam	1402066
Haryana	10901899	Bihar	10119830
Himachal Pradesh	986477	Karnataka	29905923
Jammu & Kashmir	124495	Kerala	7503764
Maharashtra	18603137	Kolkata	5699278
Mumbai	15097619	Madhya Pradesh	18837928
Punjab	10695088	North East	530265
Rajasthan	23002490	Orissa	5421547
Uttar Pradesh - East	13680929	Tamil Nadu	16715524
Uttar Pradesh - West	12291989	West Bengal	15192337
Total	136,797,087	Total	135,965,800
Total (Zone-I + Zone-II)		272,762,887	
Net Addition (in March, 2017)		6,030,774	

VII. Wireline Subscribers

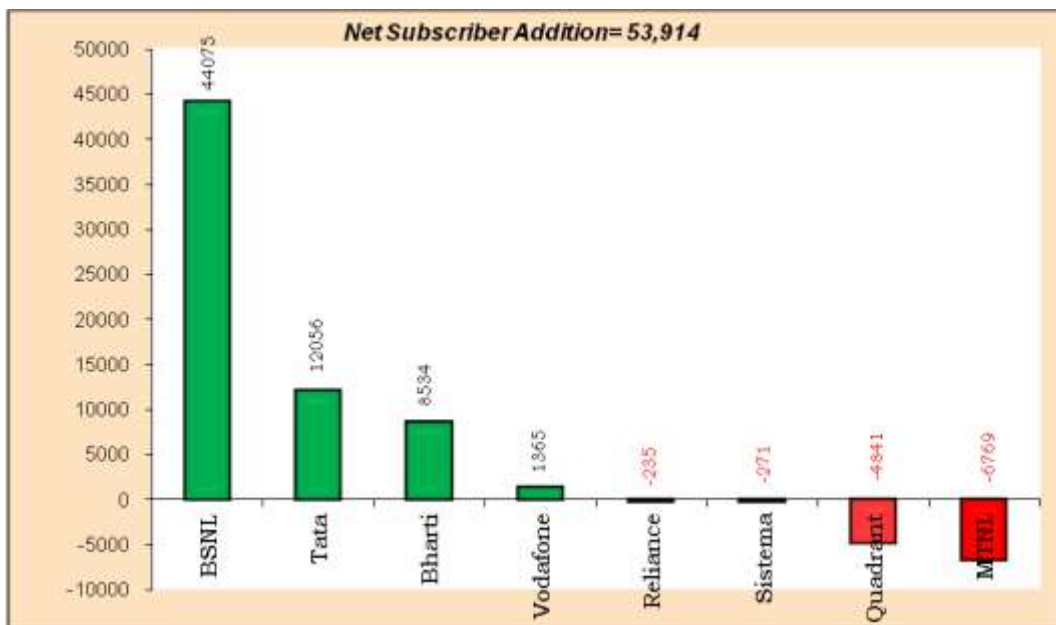
- Wireline subscribers increased from 24.35 million at the end of Feb-17 to 24.40 million at the end of Mar-17. Net addition in the wireline subscriber base was 0.05 million with a monthly growth rate of 0.22%. The share of urban and rural subscribers in total wireline subscribers were 84.24% and 15.76% respectively at the end of Mar-17.
- The Overall Wireline Tele-density(%) remained same as at the end of Feb-17 i.e. 1.90 at the end of Mar-17. Urban and Rural Wireline Tele-density were 5.10 and 0.44 respectively during the same period.

- BSNL and MTNL, the two PSU access service providers, held 70.29% 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 Mar-17 are given below:

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



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



VIII. Broadband (\geq 512 Kbps download)

- As per the reports received from the service providers, the number of broadband subscribers increased from 261.31 Million at the end of Feb-17 to 276.52 million at the end of Mar-17 with a monthly growth rate of 5.82%. Segment-wise broadband subscribers and their monthly growth rates are as below:

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

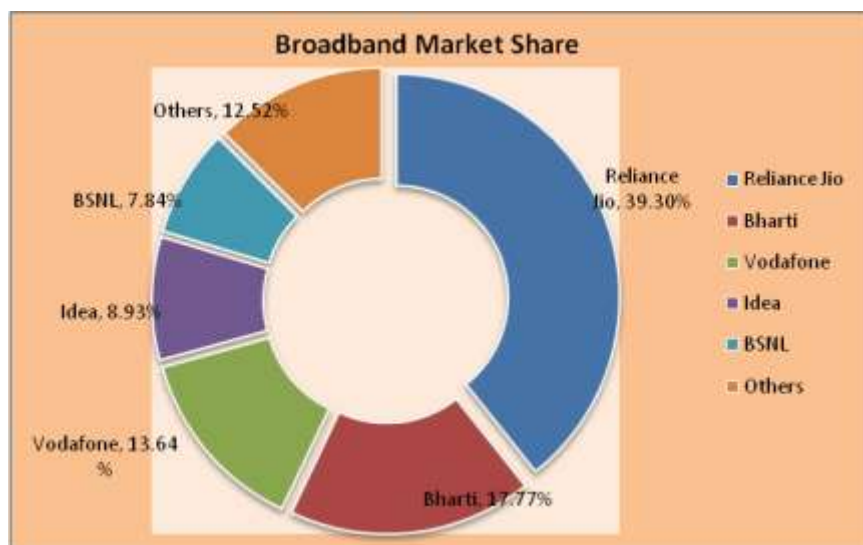
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of Mar-17
	As on 28 th February, 2017	As on 31 st March, 2017	
Wired subscribers	18.18	18.24	0.37%
Mobile devices users (Phones and dongles)	242.57	257.71	6.24%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.57	0.56	-1.83%
Total	261.31	276.52	5.82%

- Top five service providers constituted 87.48% market share of the total broadband subscribers at the end of Mar-17. These service providers were Reliance Jio Infocom Ltd (108.68 million), Bharti Airtel (49.13 million), Vodafone (37.72 million), Idea Cellular (24.70 million) and BSNL (21.67 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 31.03.2017**



- As on 31st March, 2017, the top five Wired Broadband Service providers were BSNL (9.98 million), Bharti Airtel (2.08 million), Atria Convergence Technologies (1.17 million), MTNL (1.01 million) and YOU Broadband (0.62 million).
- As on 31st March, 2017, the top five Wireless Broadband Service providers were Reliance Jio Infocomm Ltd (108.68 million), Bharti Airtel (47.04 million), Vodafone (37.71 million), Idea Cellular (24.70 million) and Reliance Communications (14.01 million).

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Advisor (F&EA)**

Wireless Subscriber Base

Annexure-I

Circle	Group											
	Bharti		Reliance		Vodafone		Tata		Idea		Aircel	
	Feb-17	Mar-17	Feb-17	Mar-17	Feb-17	Mar-17	Feb-17	Mar-17	Feb-17	Mar-17	Feb-17	Mar-17
Andhra Pradesh	25350900	25867782	3757610	3602108	6920655	6946782	3867812	3734568	17496332	17580618	2593866	2614825
Assam	6379734	6444077	1145762	1126540	3956464	4024913			1330851	1349496	5807277	5825332
Bihar	30487219	30973054	3256542	3189799	9603217	9734549	1425158	1336946	12354378	12668538	7554303	7558894
Delhi	11590370	11614979	5999188	5620041	10642941	10761078	1591722	1437392	6465245	6482774	6830343	6879107
Gujarat	9045978	9185830	5778199	5442298	19923817	20047643	2551441	2472803	13014605	13163074	17063	17063
Haryana	3430338	3509696	1510376	1478879	6004148	6044807	2532130	2407873	5046351	5124252	3092	3092
Himachal Pradesh	2945760	2976955	1587728	1539244	725787	726409	48143	44758	805297	812687	1121747	1122264
J & K	3560866	3624527	863666	872711	980545	994663			679116	694436	2947876	2992224
Karnataka	22205227	22235613	5329344	5179073	7848321	7794458	6589124	6238582	9575818	9560816	3393786	3441843
Kerala	4543147	4552674	1418997	1359520	7673321	7673404	1329905	1278265	10972529	11011621	379835	370538
Kolkata	4967599	5026679	4194693	4086852	5656444	5722074	2529159	2446200	2595876	2642321	4390545	4411882
Madhya Pradesh	13895358	13991614	9529830	9217734	6788067	6814499	4296583	4194493	23797344	24031263	20694	20694
Maharashtra	14382498	14417511	4160891	3925525	19102263	19339105	5455944	5198002	26104199	26479754	2774738	2687942
Mumbai	6382756	6455214	4877394	4802481	9012152	9034825	2750048	2654934	4432118	4375655	2923667	2899449
North East	4167907	4236796	273230	258238	1586453	1617039			623779	638078	3434000	3280364
Orissa	11307773	11501033	2188067	2131457	4466564	4533783	1906541	1814479	2039436	2076079	4605849	4630846
Punjab	8761053	8910989	1671225	1680520	5450023	5457177	2392372	2279401	6982188	7062015	1149015	1134365
Rajasthan	20856003	21064107	5875858	5619973	12156346	12302399	1165209	1065070	8286342	8389292	6666458	6680710
Tamil Nadu (incl. Chennai)	18289999	18383677	5456614	5372873	16305205	16277638	3997716	3899979	6171105	6165269	21426525	21362720
U.P.(E)	23240766	23494355	8375127	8108789	20221740	20582425	3449030	3274124	11996510	12305494	7040268	6940970
U.P.(W)	8927008	8955315	5492685	5448718	12410968	12377044	2996345	2878138	16189835	16387742	860287	871275
West Bengal	15930388	16225906	3528917	3438350	19793034	20256152	351011	338546	6310477	6367573	5112380	5153469
Total	270648647	273648383	86271943	83501723	207228475	209062866	51225393	48994553	193269731	195368847	91053614	90899868
Net Addition		2999736		-2770220		1834391		-2230840		2099116		-153746

Wireless Subscriber Base

Annexure-I (contd.)

Circle	Group														Net Addition
	BSNL		MTNL		Telenor		Sistema		Quadrant		Reliance Jio		Total		
	Feb-17	Mar-17	Feb-17	Mar-17	Feb-17	Mar-17	Feb-17	Mar-17	Feb-17	Mar-17	Feb-17	Mar-17	Feb-17	Mar-17	
Andhra Pradesh	9858720	9919404			5485240	5301805					8908009	9371987	84239144	84939879	700735
Assam	1451738	1507239									1389521	1532190	21461347	21809787	348440
Bihar	3967381	4003810			9308364	9091905					5594541	6005685	83551103	84563180	1012077
Delhi			2327347	2327203			571655	537482			7452729	7690965	53471540	53351021	-120519
Gujarat	4591955	4848908			8434173	8473311	135566	132022			7624803	8055148	71117600	71838100	720500
Haryana	3621256	3715385									2626266	2761991	24773957	25045975	272018
Himachal Pradesh	2073746	2156152									975527	1041359	10283735	10419828	136093
J & K	1480035	1473653									1189709	1251478	11701813	11903692	201879
Karnataka	6880744	7021376					760331	724483			6578004	6939226	69160699	69135470	-25229
Kerala	8899336	9106566					240546	234410			3354902	3576308	38812518	39163306	350788
Kolkata	915381	956743					400144	376331			3470533	3647897	29120374	29316979	196605
Madhya Pradesh	4994116	5169787									5728777	6106473	69050769	69546557	495788
Maharashtra	6431910	6501731			7951509	7702877					7192705	7646067	93556657	93898514	341857
Mumbai			1299687	1300117							4808043	5059378	36485865	36582053	96188
North East	1658883	1592311									815611	868295	12559863	12491121	-68742
Orissa	4929693	5028046									2424303	2575408	33868226	34291131	422905
Punjab	4479009	4541692							2242726	-	4656222	4899284	37783833	35965443	-1818390
Rajasthan	5381117	5525198					1398394	1301847			5071640	5370687	66857367	67319283	461916
Tamil Nadu (incl. Chennai)	9030644	9228786					528230	478051			7563296	8083805	88769334	89252798	483464
U.P.(E)	10935952	11168141			12108247	11780109					6566214	6899354	103933854	104553761	619907
U.P.(W)	5601731	5754216			8341335	8143142	101337	96212			5507620	5764355	66429151	66676157	247006
West Bengal	1728483	1770409					1114716	1030433			3342063	3533432	57211469	58114270	902801
Total	98911830	100989553	3627034	3627320	51628868	50493149	5250919	4911271	2242726	0	102841038	108680772	1164200218	1170178305	5978087
Net Addition		2077723		286		-1135719		-339648		-2242726		5839734		5978087	

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

Annexure-II

Circle	Aircel	Bharti	BSNL	Idea	MTNL	Reliance	Reliance Jio	Sistema	Tata	Telenor	Vodafone	Total
Andhra Pradesh	57.36	97.54	73.03	101.13		85.04	69.64		92.11	72.79	85.55	87.81
Assam	81.00	96.73	76.48	98.73		3.69	80.98				99.02	85.76
Bihar	81.43	97.15	66.83	101.28		7.82	77.74		77.00	76.64	106.82	88.77
Delhi	56.95	95.52		102.04	47.40	86.72	70.37	47.63	63.42		97.32	83.70
Gujarat	2698.78	95.30	62.50	102.99		91.68	74.66	44.26	72.28	65.20	93.04	87.46
Haryana	0.39	94.81	54.33	101.21		94.15	74.01		90.43		92.72	86.85
Himachal Pradesh	44.03	86.41	62.26	112.50		94.45	68.08		32.54		87.81	78.10
J & K	69.46	93.14	67.16	100.94		51.37	72.01				85.76	78.53
Karnataka	50.53	98.28	63.13	99.12		87.82	75.36	62.25	92.89		93.26	87.94
Kerala	63.34	96.88	73.96	103.17		92.51	77.69	48.39	91.58		93.65	90.00
Kolkata	61.48	95.84	85.59	93.29		96.99	64.64	68.43	89.98		105.12	87.35
Madhya Pradesh	1.01	98.24	67.74	104.00		89.16	77.18		80.32		79.51	91.97
Maharashtra	48.29	103.05	67.84	102.06		90.67	83.42		85.65	71.29	96.03	91.63
Mumbai	52.01	95.73		90.87	67.22	87.32	65.43		82.44		88.48	82.62
North East	65.23	97.87	70.29	94.61		11.93	77.60				91.97	81.67
Orissa	58.90	98.41	71.06	100.78		4.71	74.42		84.73		102.58	81.41
Punjab	56.27	97.48	63.64	100.75		90.12	70.19		79.19		89.07	86.05
Rajasthan	49.15	94.67	61.81	100.51		89.59	75.58	59.83	134.81		91.21	85.56
Tamil Nadu (incl. Chennai)	66.12	95.48	67.44	100.24		91.72	72.71	57.64	73.79		96.42	82.61
U.P. (E)	66.55	99.13	52.15	103.12		90.67	72.95		82.82	75.70	93.91	85.86
U.P. (W)	83.01	94.58	53.02	100.09		91.85	68.26	45.49	83.57	75.10	97.35	87.29
West Bengal	70.74	97.27	81.55	103.83		7.91	71.55	71.20	64.09		97.82	87.84
Total	64.60	97.11	65.25	101.52	54.50	79.63	73.38	60.44	84.76	73.03	94.76	86.86

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		Feb-17	Mar-17	
	Feb-17	Mar-17	Feb-17	Mar-17	Feb-17	Mar-17	Feb-17	Mar-17	Feb-17	Mar-17	Feb-17	Mar-17	Feb-17	Mar-17	Feb-17	Mar-17			
Andhra Pradesh	1205999	1216162			160955	161781	75539	75535	171724	172162					12180	12150	1626397	1637790	11393
Assam	153679	153165													2190	2280	155869	155445	-424
Bihar	294074	294437					6,367	6,497	12430	12458					1530	1590	314401	314982	581
Delhi			1604299	1601487	1281030	1283061	173205	172804	135039	136136					29100	29190	3222673	3222678	5
Gujarat	1102310	1110425			76330	76409	72728	72642	88140	88529					7860	8149	1347368	1356154	8786
Haryana	281,713	282,293			22936	22967	4014	4014	36564	36462							345227	345736	509
Himachal Pradesh	142,888	142,809					3924	3924	2580	2554					60	60	149452	149347	-105
J & K	133,716	134,283															133716	134283	567
Karnataka	1209209	1229813			619815	621424	156679	157088	209347	212737					23250	23370	2218300	2244432	26132
Kerala	1997027	1999633			58251	58304	32995	32950	18935	19136					1650	1680	2108858	2111703	2845
Kolkata	614998	613190			120785	120857	69117	69051	49329	50291					5520	5550	859749	858939	-810
Madhya Pradesh	719580	714319			273050	273061	19688	19658	16310	16330					420	420	1029048	1023788	-5260
Maharashtra	1415313	1419352			78479	79319	81883	81744	283721	285516					13815	13934	1873211	1879865	6654
Mumbai			1864844	1860887	356483	357907	257333	257723	539681	543237					22248	22605	3040589	3042359	1770
North East	120970	120802													180	180	121150	120982	-168
Orissa	277492	279674					3281	3281	8129	8001					1170	1200	290072	292156	2084
Punjab	591175	586185			119882	119907	20653	20637	16230	16113	267732	262891			1050	1050	1016722	1006783	-9939
Rajasthan	600056	599739			48556	48591	19737	19737	11292	11308			56940	56669	2400	2430	738981	738474	-507
Tamil Nadu (incl. Chennai)	1726181	1737302			553540	554994	133906	133567	109966	111249					10650	10680	2534243	2547792	13549
U.P.(E)	379859	379998			63978	63995	34711	34703	15165	14474					1380	1470	495093	494640	-453
U.P.(W)	355921	355420			23160	23187	7102	7102	9671	9545					1110	1140	396964	396394	-570
West Bengal	322729	319963					2048	2018	3793	3864					60	60	328630	325905	-2725
Total	13644889	13688964	3469143	3462374	3857230	3865764	1174910	1174675	1738046	1750102	267732	262891	56940	56669	137823	139188	24346713	24400627	53914
Net Addition		44075		-6769		8534		-235		12056		-4841		-271		1365		53914	

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.