

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 18th July, 2018

(www.traigov.in)

**Highlights of Telecom Subscription Data as on 31st May, 2018**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Total Telephone Subscribers (Million)	1131.01	22.51	1153.51
Net Addition in May, 2018 (Million)	5.94	-0.13	5.80
Monthly Growth Rate	0.53%	-0.59%	0.51%
Urban Telephone Subscribers (Million)	625.66	19.24	644.90
Net Addition in May, 2018 (Million)	1.14	-0.10	1.04
Monthly Growth Rate	0.18%	-0.52%	0.16%
Rural Telephone Subscribers (Million)	505.34	3.27	508.61
Net Addition in May, 2018 (Million)	4.80	-0.03	4.77
Monthly Growth Rate	0.96%	-0.97%	0.95%
Overall Tele-density*(%)	86.89	1.73	88.62
Urban Tele-density*(%)	151.82	4.67	156.49
Rural Tele-density*(%)	56.81	0.37	57.18
Share of Urban Subscribers	55.32%	85.49%	55.91%
Share of Rural Subscribers	44.68%	14.51%	44.09%
Broadband Subscribers (Million)	414.06	17.94	432.00

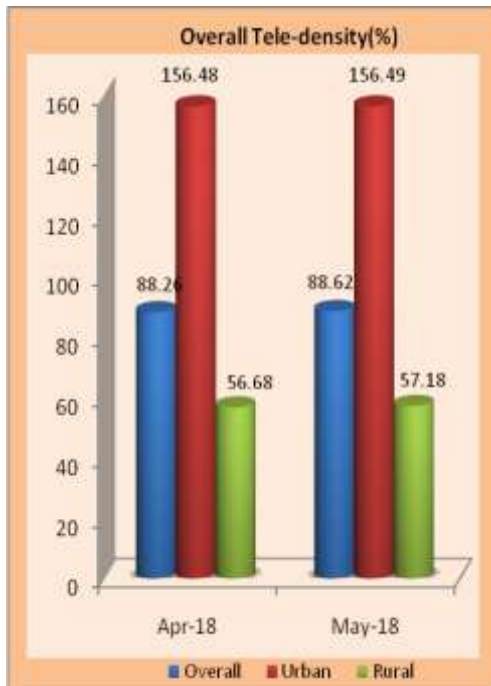
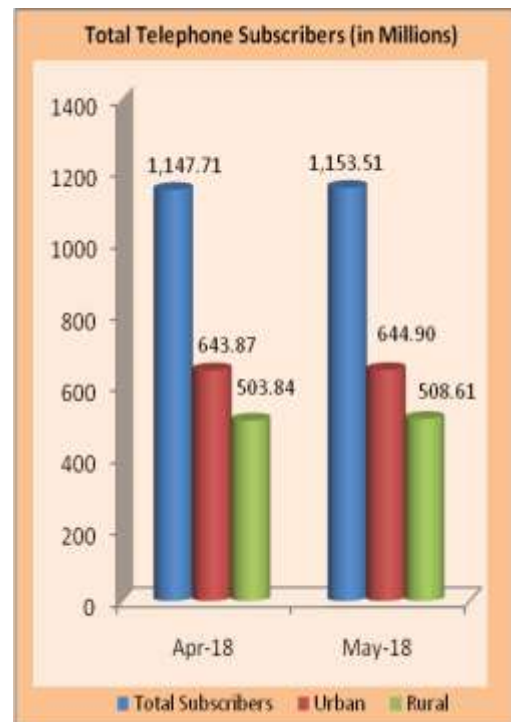
- ❖ In the month of May, 2018, 4.51 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 377.55 million at the end of Apr-18 to 382.06 million at the end of May-18, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in May, 2018 was 983.94 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.

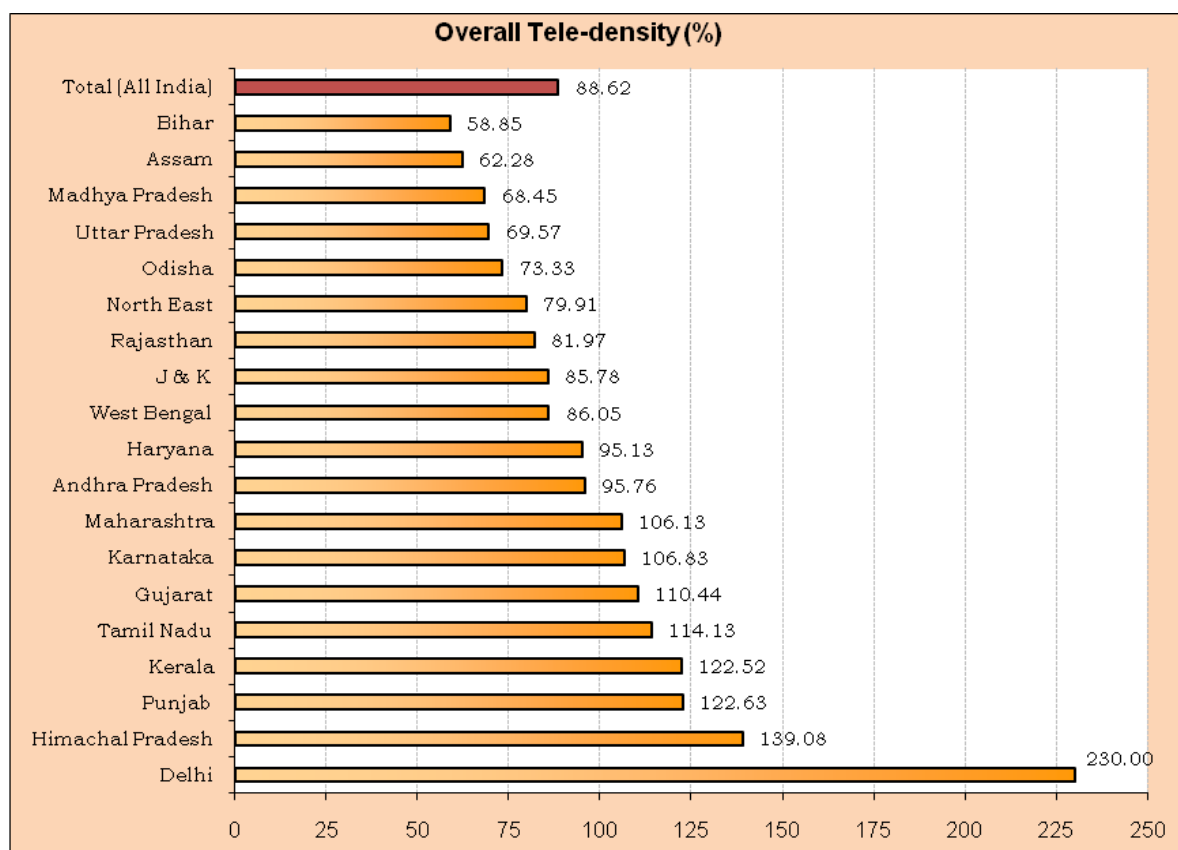
I. Total Telephone Subscribers

- The number of telephone subscribers in India increased from 1,147.71 million at the end of Apr-18 to 1,153.51 million at the end of May-18, thereby showing a monthly growth rate of 0.51%. The urban subscription increased from 643.87 million at the end of Apr-18 to 644.90 million at the end of May-18, and the rural subscription also increased from 503.84 million to 508.61 million during the same period. The monthly growth rates of urban and rural subscription were 0.16% and 0.95% respectively during the month of May-18.



- The overall Tele-density in India increased from 88.26 at the end of Apr-18 to 88.62 at the end of May-18. The Urban Tele-density slightly increased from 156.48 at the end of Apr-18 to 156.49 at the end of May-18, and Rural Tele-density also increased from 56.68 at the end of Apr-18 to 57.18 at the end of May-18. The share of urban and rural subscribers in total number of telephone subscribers at the end of May-18 was 55.91% and 44.09% respectively.

Overall Tele-density (Circle/State Wise) – As on 31st May, 2018



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, 2018

Circle Category	Net additions in the month of May, 2018		Telephone Subscriber base as on 31 st May, 2018	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	-54,947	-364,314	8,870,414	394,327,456
Circle B	-45,501	3,348,401	5,681,829	460,348,211
Circle C	-24,665	2,120,140	1,005,062	166,737,552
Metro	-8,240	831,536	6,951,031	109,592,775
All India	-133,353	5,935,763	22,508,336	1,131,005,994

Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of May, 2018

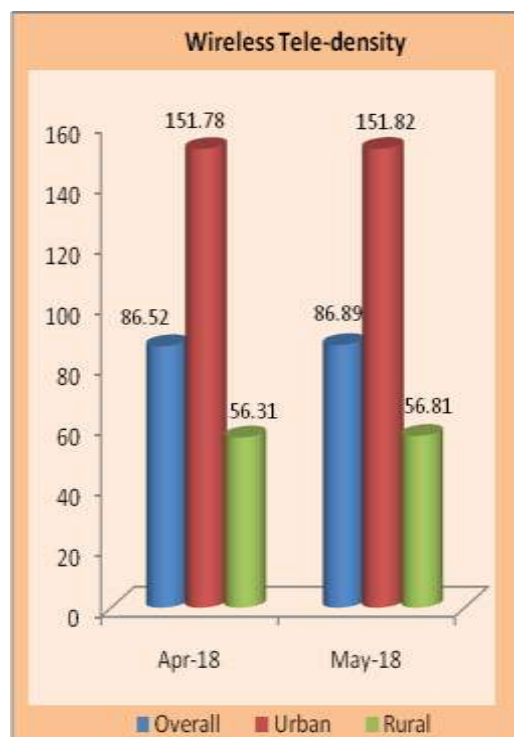
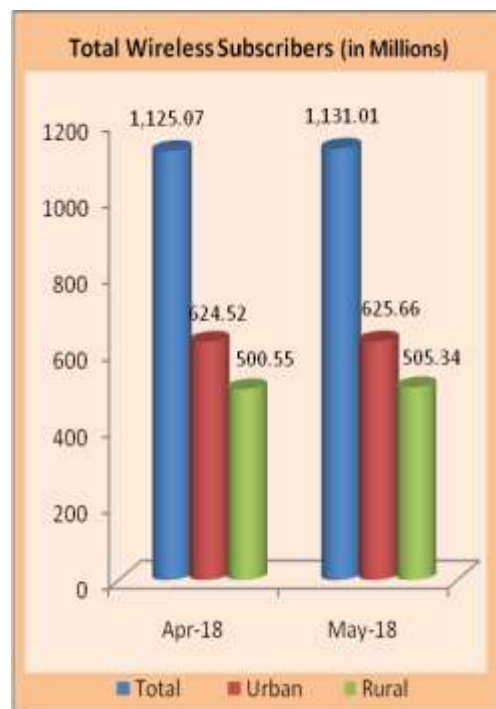
Circle Category	Monthly growth rate (%) (Apr-18 to May-18)		Yearly growth rate (%) (May-17 to May-18)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	-0.62	-0.09	-7.44	-4.04
Circle B	-0.79	0.73	-10.31	-2.43
Circle C	-2.40	1.29	-11.22	-6.27
Metro	-0.12	0.76	-2.20	-8.80
All India	-0.59	0.53	-6.83	-4.22

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 negative growth in their wireless subscriber base during the month of May, 2018. Circles of all other categories showed positive monthly growth in subscriber base during the month. However, on yearly (Y-o-Y) basis, all categories showed negative growth in wireless subscriber base in the month of May-18.
- In Wireline segment, Circles of all Categories showed monthly decline in their number of wireline subscribers during the month of May-18.

III. Wireless Subscribers

- Total wireless subscribers (GSM, CDMA & LTE) increased from 1,125.07 million at the end of Apr-18 to 1,131.01 million at the end of May-18, thereby registering a monthly growth rate of 0.53%. The Wireless subscription in urban areas increased from 624.52 million at the end of Apr-18 to 625.66 million at the end of May-18, and wireless subscriptions in rural areas also increased from 500.55 million to 505.34 million during the month. The monthly growth rates of urban and rural wireless subscription were 0.18% and 0.96% respectively.

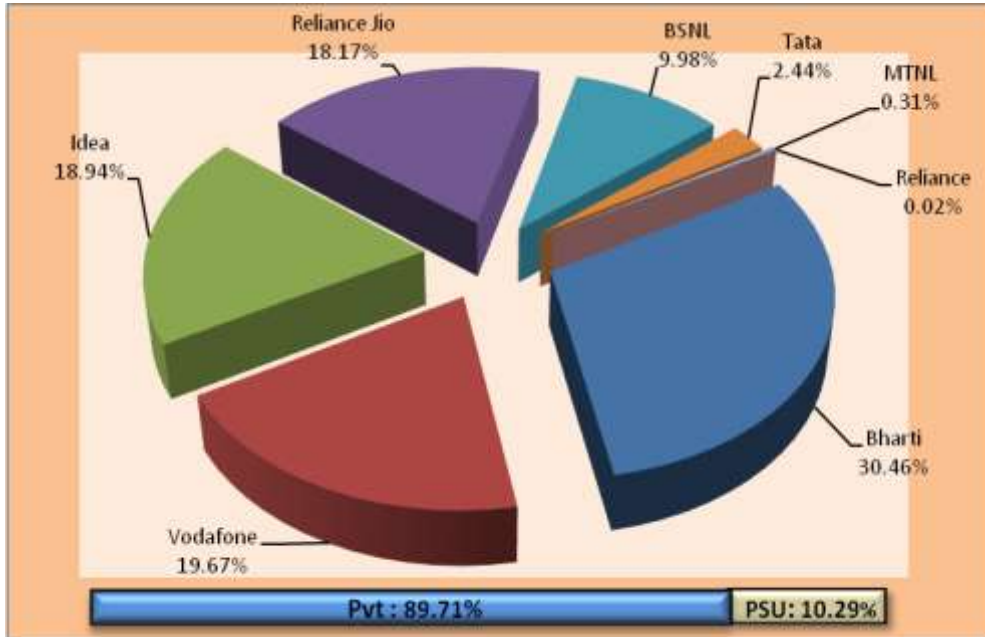


- The Wireless Tele-density in India increased from 86.52 at the end of Apr-18 to 86.89 at the end of May-18. The Urban Wireless Tele-density slightly increased from 151.78 at the end of Apr-18 to 151.82 at the end of May-18, and Rural Wireless Tele-density also increased from 56.31 to 56.81 during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 55.32% and 44.68% respectively at the end of May-18. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

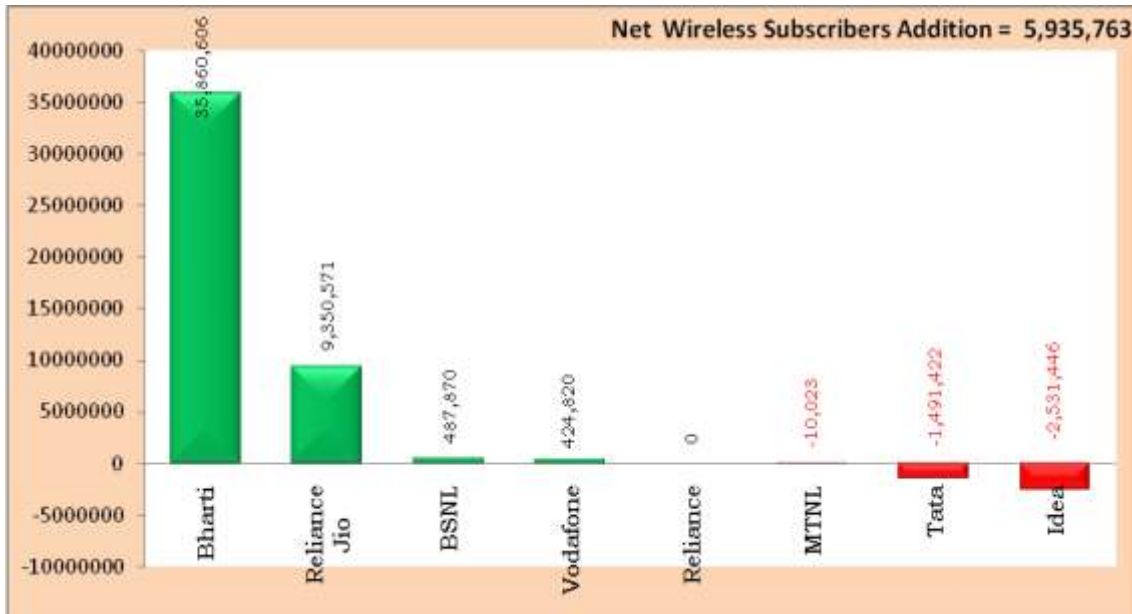
- As on 31st May, 2018, the private access service providers held 89.71% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 10.29%.

- 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, 2018



Net Additions in Wireless Subscribers of Access Service Providers in the Month of May, 2018

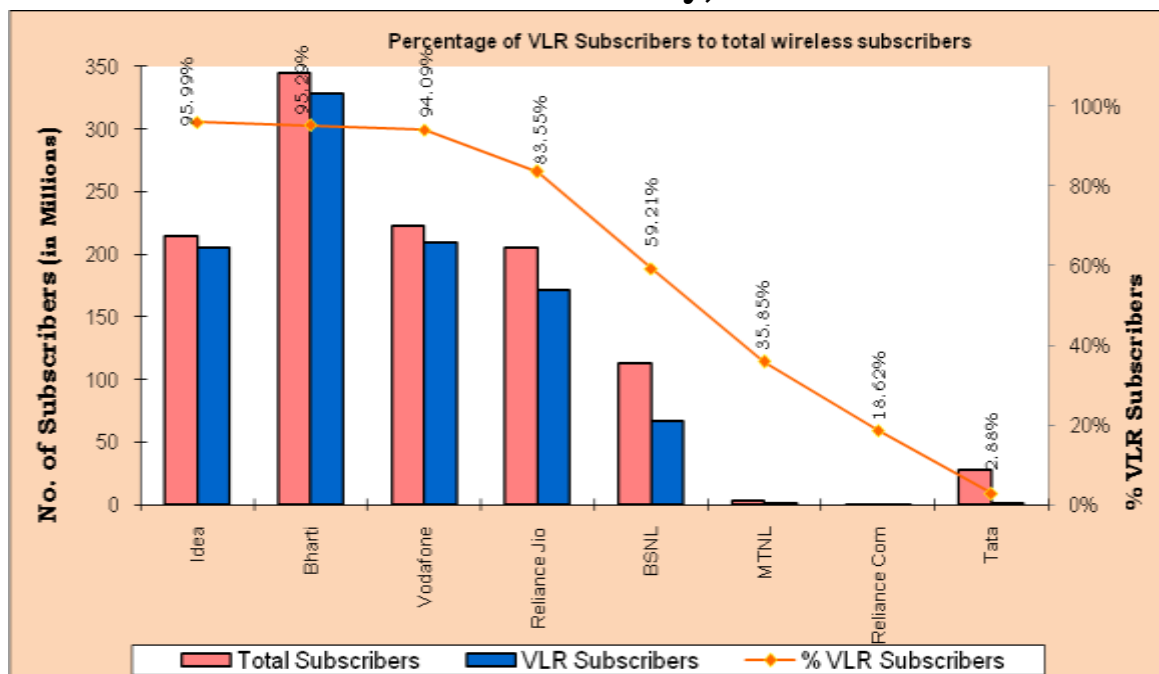


- Note:**
- On noticing that while reporting number of subscribers, some of the TSPs were deducting inactive subscribers. A Direction was issued on 18th August 2017 to TSPs to strictly adhere to the Department of Telecommunications' methodology for reporting their number of subscribers. However, some of the Telecom Service Providers are yet to comply with the Direction.
 - M/s Aircel Ltd has not reported their subscriber base for the month of May, 2018 due to closure of services.
 - M/s Telenor has been merged with M/s Bharti Airtel. Data of M/s RCL/RTL has been taken same as that of previous month due to non-reporting of subscriber data for May, 2018 by them.

IV. Active Wireless Subscribers (VLR Data)

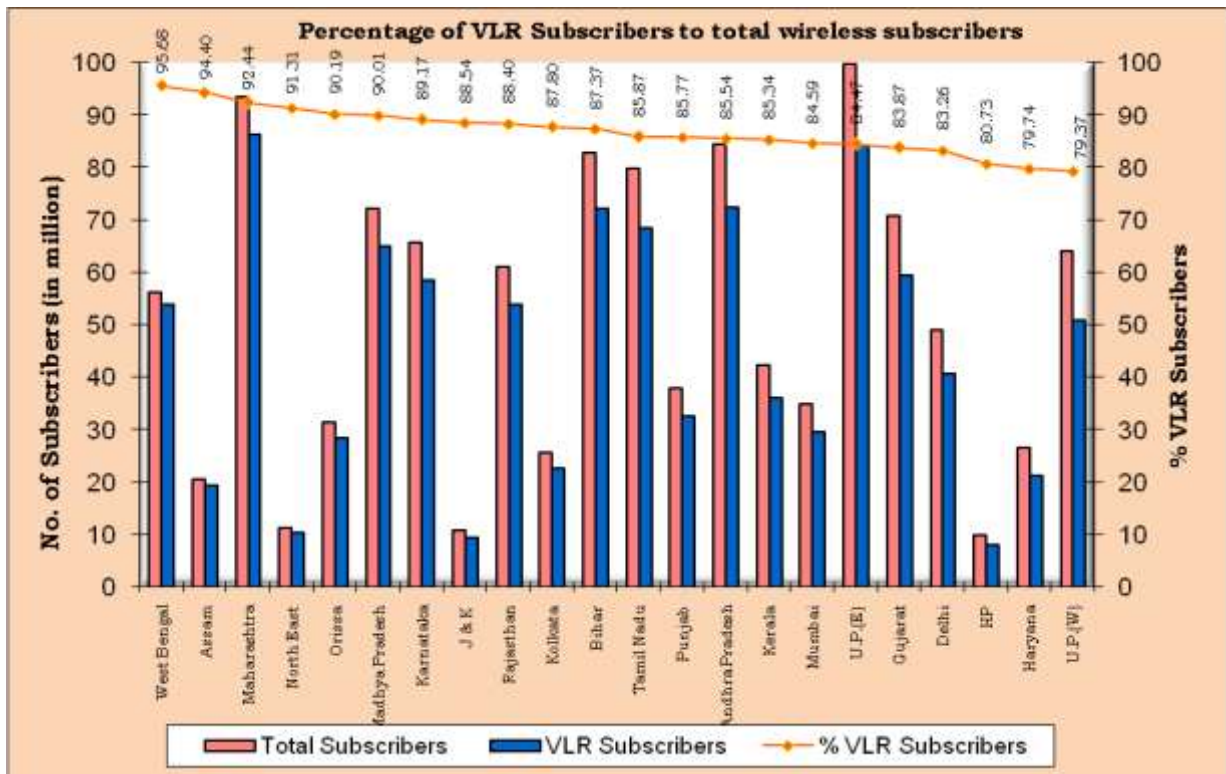
- Out of the total wireless subscribers (1,131.01 million), 983.94 million wireless subscribers were active on the date of peak VLR in the month of May-18. The proportion of active wireless subscribers was approximately 87.00% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of May-18 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, 2018



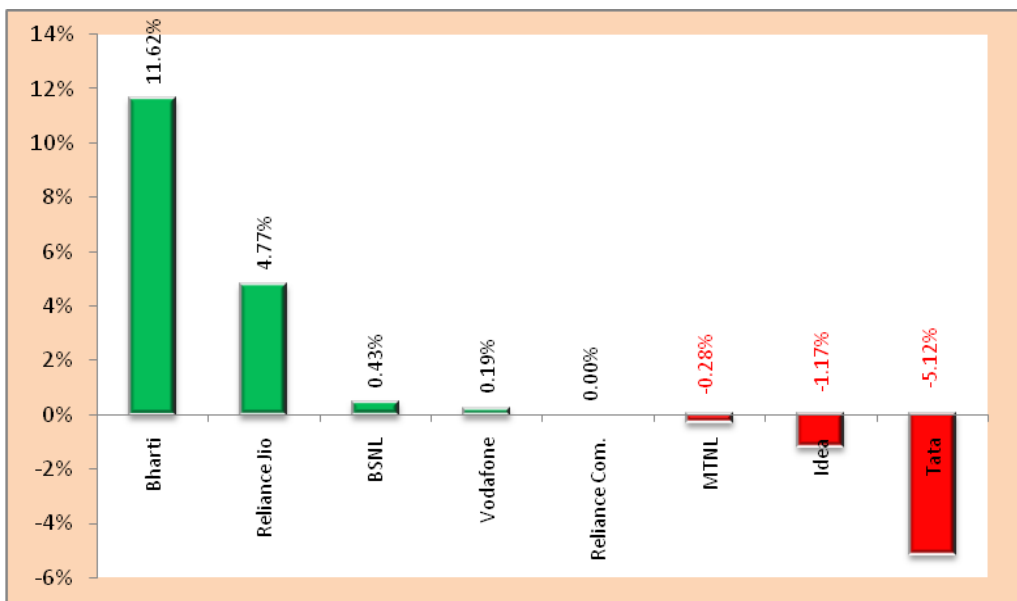
- Note:**
1. M/s Telenor has been merged with M/s Bharti Airtel.
 2. M/s RCL/RTL has not reported their wireless subscriber base (HLR) for May, 2018 and hence the HLR data been taken same as that of previous month. However, they have reported their VLR data for the month of May, 2018.

Service Area wise percentage of VLR Subscribers in the Month of May, 2018



V. Growth in Wireless Subscribers

Access Service Provider-wise Monthly Growth Rate of Wireless Subscribers in the Month of May, 2018



Note: 1. M/s Telenor has been merged with M/s Bharti Airtel.
 2. M/s RCL/RTL has not reported their wireless subscriber base (HLR) for May, 2018 and hence the HLR data been taken same as that of previous month.

Service Area-wise Monthly Growth Rate of Wireless Subscribers in the Month of May, 2018



- During the month of May, 2018, out of 22 service areas, three service areas viz. UP(W), Maharashtra and Gujarat showed negative growth rate in wireless subscriber during the month of May, 2018. Assam service area showed maximum growth rate of 3.03% followed by North East (2.57%) in their wireless subscriber base 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 May-18, a total of 4.51 million requests were received for MNP. With this, the cumulative MNP requests increased from 377.55 million at the end of Apr-18 to 382.06 million at the end of May-18, 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 31.54 million) followed by Maharashtra (about 26.28 million) service area.
- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 36.75 million) followed by Tamilnadu (about 32.78 million).

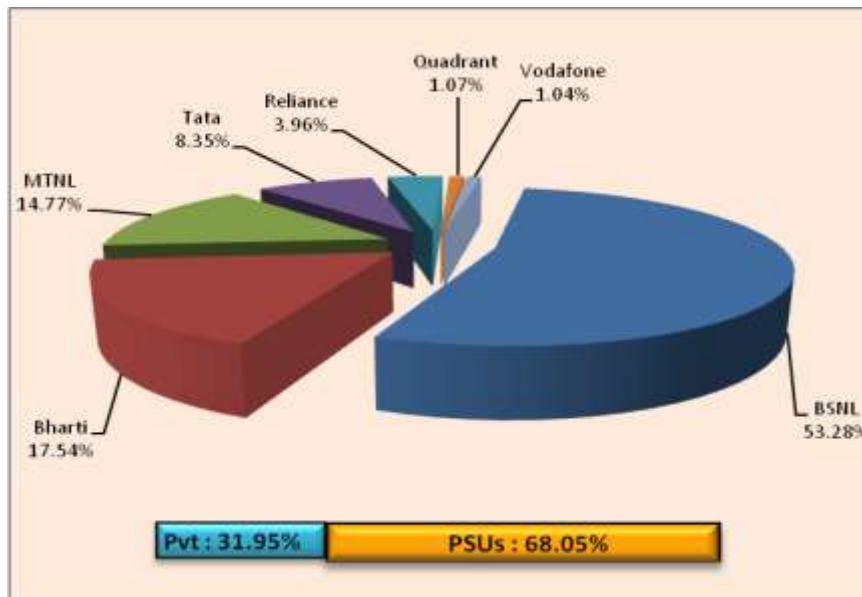
Service Area Wise MNP Status at the end of May, 2018			
Zone -I		Zone - II	
Service Area	Number of Porting Requests	Service Area	Number of Porting Requests
Delhi	19,159,932	Andhra Pradesh	32,045,187
Gujarat	25,008,877	Assam	3,035,263
Haryana	13,934,263	Bihar	14,482,626
Himachal Pradesh	1,839,433	Karnataka	36,753,723
Jammu & Kashmir	862,026	Kerala	9,242,554
Maharashtra	26,277,980	Kolkata	9,506,230
Mumbai	20,142,399	Madhya Pradesh	25,232,034
Punjab	14,274,461	North East	1,195,317
Rajasthan	31,542,054	Orissa	7,577,935
Uttar Pradesh - East	20,542,328	Tamil Nadu	32,779,812
Uttar Pradesh - West	16,515,342	West Bengal	20,112,804
Total	190,099,095	Total	191,963,485
Total (Zone-I + Zone-II)		382,062,580	
Net Addition (in May, 2018)		4,507,853	

VII. Wireline Subscribers

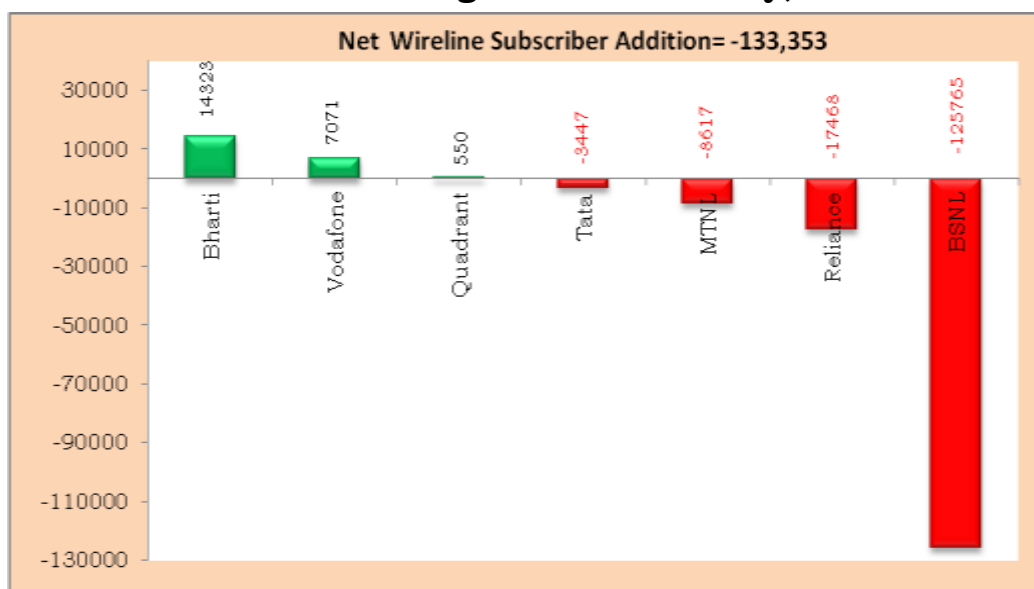
- Wireline subscribers further declined from 22.64 million at the end of Apr-18 to 22.51 million at the end of May-18. Net decline in the wireline subscriber base was 0.13 million with a monthly decline rate of 0.59%. The share of urban and rural subscribers in total wireline subscribers were 85.49% and 14.51% respectively at the end of May-18.

- The Overall Wireline Tele-density(%) declined from 1.74 at the end of Apr-18 to 1.73 at the end of May-18. Urban and Rural Wireline Tele-density were 4.67 and 0.37 respectively during the same period.
- BSNL and MTNL, the two PSU access service providers, held 68.05% 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 May, 2018



Access Service Provider-wise Net Additions/declines in Wireline Subscribers during the Month of May, 2018



VIII. Broadband (\geq 512 Kbps download)

- As per the reports received from 280 operators as compared to 270 operators in previous month, the number of broadband subscribers increased from 419.79 million at the end of Apr-18 to 432.00 million at the end of May-18 with a monthly growth rate of 2.91%. 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, 2018

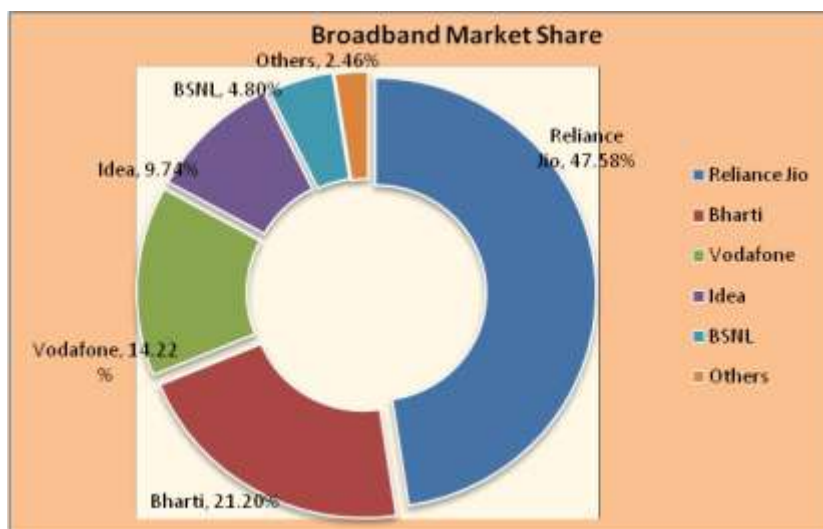
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of May-18
	As on 30 th April, 2018	As on 31 st May, 2018	
Wired subscribers	17.97	17.94	-0.16%
Mobile devices users (Phones and dongles)	401.41	413.65	3.05%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.42	0.41	-2.66%
Total	419.79	432.00	2.91%

- Top five service providers constituted 97.54% market share of the total broadband subscribers at the end of May-18. These service providers were Reliance Jio Infocomm Ltd (205.54 million), Bharti Airtel (91.59 million), Vodafone (61.42 million), Idea Cellular (42.07 million) and BSNL (20.75 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 31.05.2018**



- As on 31st May, 2018, the top five Wired Broadband Service providers were BSNL (9.19 million), Bharti Airtel (2.20 million), Atria Convergence Technologies (1.32 million), MTNL (0.85 million) and Hathway Cable & Datacom (0.79 million).
- As on 31st May, 2018, the top five Wireless Broadband Service providers were Reliance Jio Infocomm Ltd (205.54 million), Bharti Airtel (89.40 million), Vodafone (61.42 million), Idea Cellular (42.07 million) and BSNL (11.56 million).

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

Wireless Subscriber Base

Annexure-I

Circle	Group											
	Bharti		Reliance Com.		Vodafone		Tata		Idea		BSNL	
	Apr-18	May-18	Apr-18	May-18	Apr-18	May-18	Apr-18	May-18	Apr-18	May-18	Apr-18	May-18
Andhra Pradesh	27544992	30854232	8609	8609	6298629	6211913	2565410	2484529	18056673	18000286	10115486	10122093
Assam	8153763	8365649	38	38	4347391	4393459	0	0	1490094	1481834	2150098	2250155
Bihar	32531804	39084869	1293	1293	10149758	10217604	624995	595059	14393575	14181324	4548219	4650825
Delhi	14197489	14406708	48804	48804	12191598	12250185	1035735	804159	7599653	7451683		
Gujarat	9734102	14438349	2690	2690	20698657	20474693	1454280	1352869	14783930	14591179	5586999	5648816
Haryana	4018492	4064519	313	313	6371756	6310171	1248281	1198071	5441766	5342372	4539006	4580074
Himachal Pradesh	3558591	3606048	323	323	554382	534447	13575	13378	1025264	1008354	2597000	2626190
J & K	5076758	5261665	4	4	880581	866230	0	0	730801	717314	1614769	1453337
Karnataka	25177530	25636348	13220	13220	7703184	7837999	4213495	4048338	9876834	9670630	7194301	7210892
Kerala	4951960	5024858	2705	2705	7947893	7973324	578682	515202	12429476	12412150	10600441	10668814
Kolkata	6382055	6473903	3725	3725	6725777	6730497	1514168	1456478	3072305	3024151	1527129	1578542
Madhya Pradesh	15402447	15570725	59806	59806	6298618	6172794	2713288	2608604	28625671	28443888	6103302	6169787
Maharashtra	14610677	18272666	6084	6084	20383392	20066387	3076811	2858631	30956240	30478095	6991893	6878997
Mumbai	8084635	8174334	15944	15944	9862656	9949501	1783182	1669521	4835066	4760605		
North East	5169505	5304754	0	0	1798523	1816044	0	0	596922	581833	1653886	1685633
Orissa	12471642	12662827	151	151	4505268	4493522	912123	875114	2143219	2145680	5467405	5492005
Punjab	9917976	9992515	692	692	4759670	4823128	1198546	1167008	7826792	7729151	5374924	5399829
Rajasthan	22875147	23168847	3604	3604	12118606	12397314	321266	294540	8487698	8312798	5475551	5573317
Tamil Nadu (incl. Chen	24958819	25430505	13772	13772	20673169	20878903	2041207	1962684	6482172	6372022	11384007	11510892
U.P.(E)	26444180	34869409	2425	2425	23811706	23951177	1992595	1949678	13361960	13244960	11827700	11814267
U.P.(W)	9537612	15915543	1052	1052	12369510	12316802	1745168	1693281	17899125	17719914	5896337	5833140
West Bengal	17892650	17974159	711	711	21582217	21791667	89748	83989	6645088	6558655	1734978	1723696
Total	308692826	344553432	185965	185965	222032941	222457761	29122555	27631133	216760324	214228878	112383431	112871301
Net Addition		35860606		0		424820		-1491422		-2531446		487870
Rural Subscribers	159422718	170900677	21348	21348	119575735	119846989	4332595	4019598	117454217	116205414	35932574	36154426

Wireless Subscriber Base

Annexure-I (contd.)

Circle	Group								Net Addition
	MTNL		Telenor		Reliance Jio		Total		
	Apr-18	May-18	Apr-18	May-18	Apr-18	May-18	Apr-18	May-18	
Andhra Pradesh			3460110		16167537	16897938	84217446	84579600	362154
Assam					3831847	4086469	19973231	20577604	604373
Bihar			6794114		13179954	14018390	82223712	82749364	525652
Delhi	2271376	2263988			11320182	11755253	48664837	48980780	315943
Gujarat			5991521		13757164	14277880	72009343	70786476	-1222867
Haryana					4972417	5177520	26592031	26673040	81009
Himachal Pradesh					2041058	2127564	9790193	9916304	126111
J & K					2375238	2477689	10678151	10776239	98088
Karnataka					10810389	11278863	64988953	65696290	707337
Kerala					5646011	5798734	42157168	42395787	238619
Kolkata					6195439	6426088	25420598	25693384	272786
Madhya Pradesh					12392777	13197839	71595909	72223443	627534
Maharashtra			4496715		14273675	14890984	94795487	93451844	-1343643
Mumbai	1273517	1270882			8820804	9077824	34675804	34918611	242807
North East					1796360	1909890	11015196	11298154	282958
Orissa					5437121	5750588	30936929	31419887	482958
Punjab					8566707	8854446	37645307	37966769	321462
Rajasthan					10677262	11233286	59959134	60983706	1024572
Tamil Nadu (incl. Chennai)					13127395	13644468	78680541	79813246	1132705
U.P.(E)			8687673		13108630	13950390	99236869	99782306	545437
U.P.(W)			6725080		10017372	10513873	64191256	63993605	-197651
West Bengal					7676744	8196678	55622136	56329555	707419
Total	3544893	3534870	36155213	0	196192083	205542654	1125070231	1131005994	5935763
Net Addition		-10023		-36155213		9350571	0	5935763	
Rural Subscribers	<i>47472</i>	<i>47317</i>	<i>10116031</i>	<i>0</i>	<i>53642897</i>	<i>58148087</i>	500545587	505343856	<i>4798269</i>

Note: 1. M/s Telenor has been merged with M/s Bharti Airtel.

2. M/s RCL/RTL has not reported their wireless subscriber base (HLR) for May, 2018 and hence the HLR data been taken same as that of previous month.

Proportion of VLR on the date of Peak VLR in the month of May-18 (%)

Annexure-II

Circle	Bharti	BSNL	Idea	MTNL	Reliance	Reliance Jio	Tata	Vodafone	Total
Andhra Pradesh	92.52	70.79	97.24		28.83	80.60	1.24	88.27	85.54
Assam	99.22	69.98	95.90		2.63	95.23		96.48	94.40
Bihar	82.89	59.23	96.91		0.77	97.44	3.41	95.16	87.37
Delhi	96.44		93.50	27.86	18.31	66.61	17.44	92.33	83.26
Gujarat	81.82	51.36	94.71		47.92	79.50	1.53	95.04	83.87
Haryana	117.55	41.08	97.70		7.35	65.35	1.10	94.97	79.74
Himachal Pradesh	95.05	51.02	107.68		4.64	75.48	1.97	102.28	80.73
J & K	96.97	65.47	96.99		0.00	79.83		93.95	88.54
Karnataka	109.42	62.43	95.97		31.19	83.31	0.63	93.42	89.17
Kerala	105.16	65.95	95.75		45.51	76.01	2.18	94.74	85.34
Kolkata	108.08	61.66	91.23		8.54	77.78	10.31	99.28	87.80
Madhya Pradesh	110.37	57.43	97.90		1.01	85.88	0.69	82.36	90.01
Maharashtra	101.81	59.76	96.89		32.69	94.66	4.80	99.20	92.44
Mumbai	110.86		83.60	50.10	39.40	82.17	8.27	82.98	84.59
North East	96.51	71.24	91.34		-	91.01		95.05	91.31
Orissa	98.36	72.10	91.92		12.58	95.82	2.91	98.25	90.19
Punjab	107.66	47.87	96.62		21.82	85.00	0.22	87.61	85.77
Rajasthan	96.26	51.96	94.80		19.17	79.96	0.87	95.54	88.40
Tamil Nadu (incl. Chennai)	100.59	68.61	91.86		43.25	79.90	1.00	87.53	85.87
U.P. (E)	83.71	46.00	100.54		17.20	92.55	1.44	97.74	84.47
U.P. (W)	70.89	46.15	93.55		5.80	78.03	0.67	97.65	79.37
West Bengal	101.22	82.90	96.02		3.23	84.81	1.44	96.48	95.68
Total	95.29	59.21	95.99	35.85	18.62	83.55	2.88	94.09	87.00

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		Vodafone		Apr-18	May-18	
	Apr-18	May-18	Apr-18	May-18	Apr-18	May-18	Apr-18	May-18	Apr-18	May-18	Apr-18	May-18	Apr-18	May-18			
Andhra Pradesh	1044204	1033550			168436	168946	52545	52117	174468	174483			29640	29970	1469293	1459066	-10227
Assam	133737	129536											2640	2730	136377	132266	-4111
Bihar	247592	240644					4524	4520	11229	11156			2070	2130	265415	258450	-6965
Delhi			1527618	1523297	1323368	1331031	154496	152071	146172	146247			34370	36960	3186024	3189606	3582
Gujarat	1020985	1014380			80760	81246	28397	27117	94784	94946			13218	13218	1238144	1230907	-7237
Haryana	236234	232078			22209	22124	3202	3212	37664	37587			90	120	299399	295121	-4278
Himachal Pradesh	119671	118228					3593	3410	2314	2370			30	30	125608	124038	-1570
J & K	114330	112710													114330	112710	-1620
Karnataka	1093269	1085157			647743	652351	156165	153633	276434	275766			37155	37815	2210766	2204722	-6044
Kerala	1853363	1843930			58347	58370	21529	21359	18732	18661			2550	2580	1954521	1944900	-9621
Kolkata	557100	549549			123641	124636	45933	45286	51680	52063			7080	7200	785434	778734	-6700
Madhya Pradesh	660232	657943			249939	245961	13205	12757	15720	15437			750	750	939846	932848	-6998
Maharashtra	1237282	1221477			83776	84546	60977	59636	307296	306290			16572	17343	1705903	1689292	-16611
Mumbai			1804359	1800063	360061	362267	218255	213097	567643	567969			37495	39295	2987813	2982691	-5122
North East	111601	108924											270	270	111871	109194	-2677
Orissa	262971	255725					3046	2991	8339	7888			1770	1800	276126	268404	-7722
Punjab	460085	451178			122400	123110	12712	12567	15164	14779	241214	241764	1440	1440	853015	844838	-8177
Rajasthan	500139	493477			50272	50735	26415	25693	12617	12466			7080	7170	596523	589541	-6982
Tamil Nadu (incl. Chennai)	1526272	1512800			556025	556751	84260	82982	118378	117164			16320	16730	2301255	2286427	-14828
U.P.(E)	363647	363013			63901	63174	11972	11449	12429	12389			11370	11370	463319	461395	-1924
U.P.(W)	306007	301491			22220	22173	4984	4914	8427	8525			4170	4200	345808	341303	-4505
West Bengal	269945	267111					1866	1797	3028	2885			60	90	274899	271883	-3016
Total	12118666	11992901	3331977	3323360	3933098	3947421	908076	890608	1882518	1879071	241214	241764	226140	233211	22641689	22508336	-133353
Net Addition		-125765		-8617		14323		-17468		-3447		550		7071			-133353
Rural Subscribers	3190562	3157402	0	0	0	0	1669	1658	54526	54362	51179	52446	0	0	3297936	3265868	-32068

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.