

**TELECOM REGULATORY AUTHORITY OF INDIA**

New Delhi, 20th August, 2018
(www.traigov.in)

**Highlights of Telecom Subscription Data as on 30th June, 2018**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Total Telephone Subscribers (Million)	1146.49	22.40	1168.89
Net Addition in June, 2018 (Million)	15.49	-0.11	15.37
Monthly Growth Rate	1.37%	-0.50%	1.33%
Urban Telephone Subscribers (Million)	633.60	19.16	652.76
Net Addition in June, 2018 (Million)	7.94	-0.08	7.85
Monthly Growth Rate	1.27%	-0.43%	1.22%
Rural Telephone Subscribers (Million)	512.89	3.24	516.13
Net Addition in June, 2018 (Million)	7.55	-0.03	7.52
Monthly Growth Rate	1.49%	-0.93%	1.48%
Overall Tele-density*(%)	88.00	1.72	89.72
Urban Tele-density*(%)	153.52	4.64	158.16
Rural Tele-density*(%)	57.63	0.36	57.99
Share of Urban Subscribers	55.26%	85.55%	55.84%
Share of Rural Subscribers	44.74%	14.45%	44.16%
Broadband Subscribers (Million)	429.22	17.90	447.12

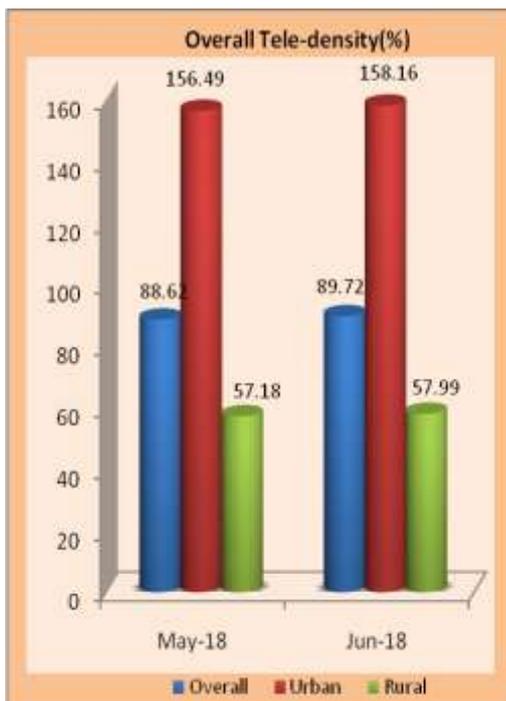
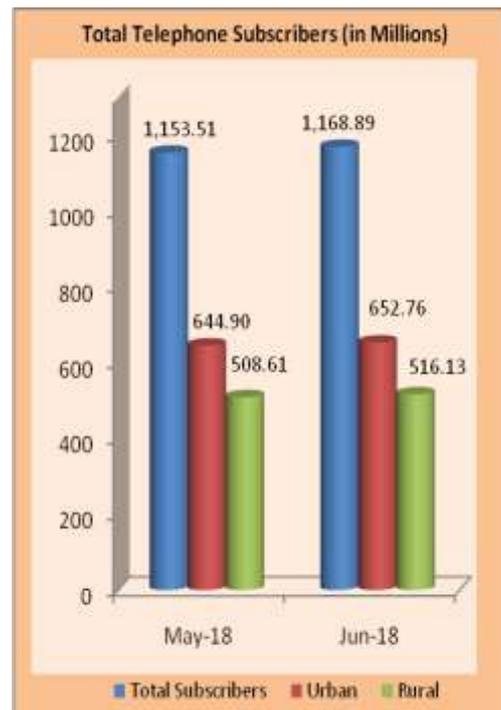
- ❖ In the month of June, 2018, 4.11 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 382.06 million at the end of May-18 to 386.17 million at the end of Jun-18, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in June, 2018 was 1000.92 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.

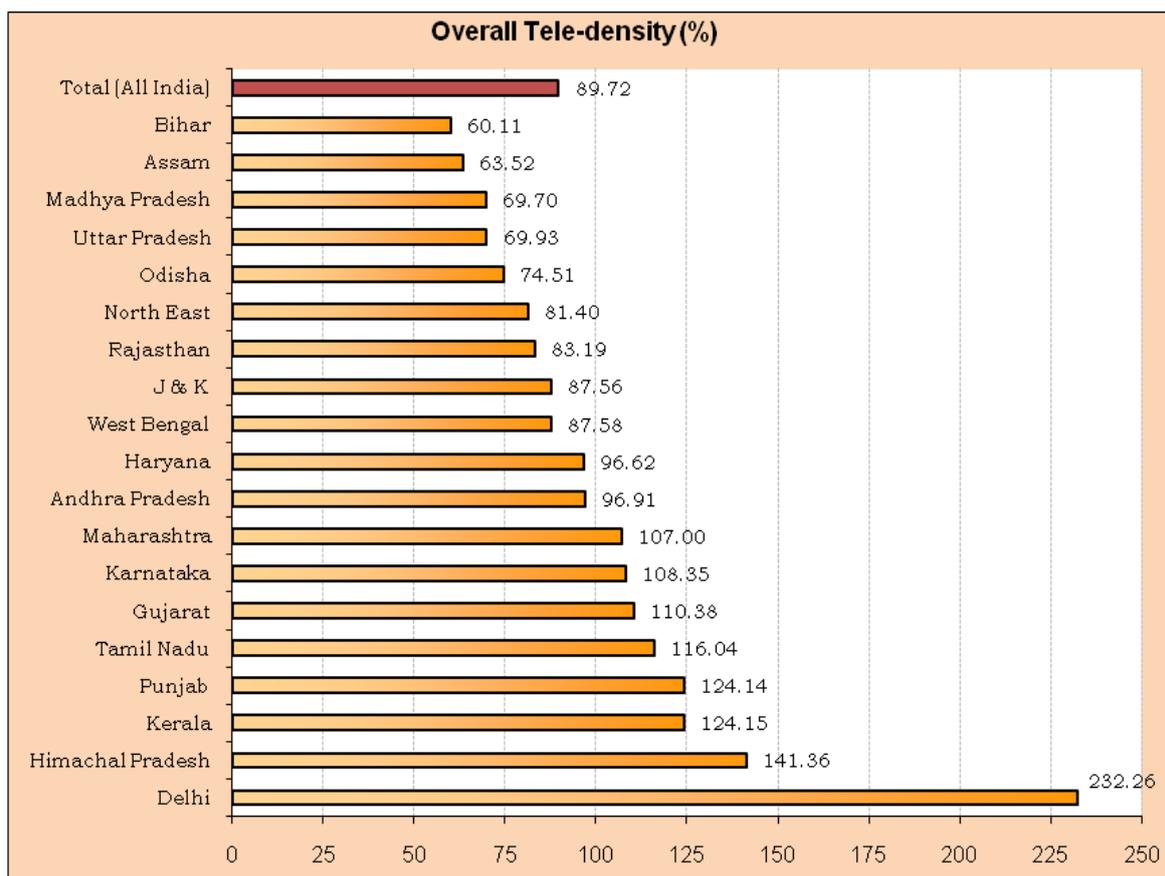
I. Total Telephone Subscribers

- The number of telephone subscribers in India increased from 1,153.51 million at the end of May-18 to 1,168.89 million at the end of Jun-18, thereby showing a monthly growth rate of 1.33%. The urban subscription increased from 644.90 million at the end of May-18 to 652.76 million at the end of Jun-18, and the rural subscription also increased from 508.61 million to 516.13 million during the same period. The monthly growth rates of urban and rural subscription were 1.22% and 1.48% respectively during the month of Jun-18.



- The overall Tele-density in India increased from 88.62 at the end of May-18 to 89.72 at the end of Jun-18. The Urban Tele-density increased from 156.49 at the end of May-18 to 158.16 at the end of Jun-18, and Rural Tele-density also increased from 57.18 at the end of May-18 to 57.99 at the end of Jun-18. The share of urban and rural subscribers in total number of telephone subscribers at the end of Jun-18 was 55.84% and 44.16% respectively.

Overall Tele-density (Circle/State Wise) – As on 30th June, 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 June, 2018

Circle Category	Net additions in the month of June, 2018		Telephone Subscriber base as on 30 th June, 2018	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	-60,053	4,323,355	8,810,361	398,650,811
Circle B	-36,099	6,174,382	5,645,730	466,522,593
Circle C	-8,076	3,446,463	996,986	170,184,015
Metro	-8,807	1,543,294	6,942,224	111,136,069
All India	-113,035	15,487,494	22,395,301	1,146,493,488

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

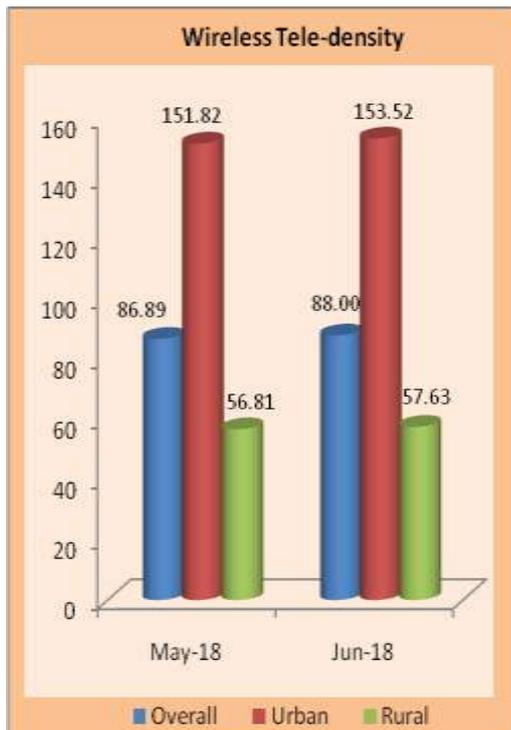
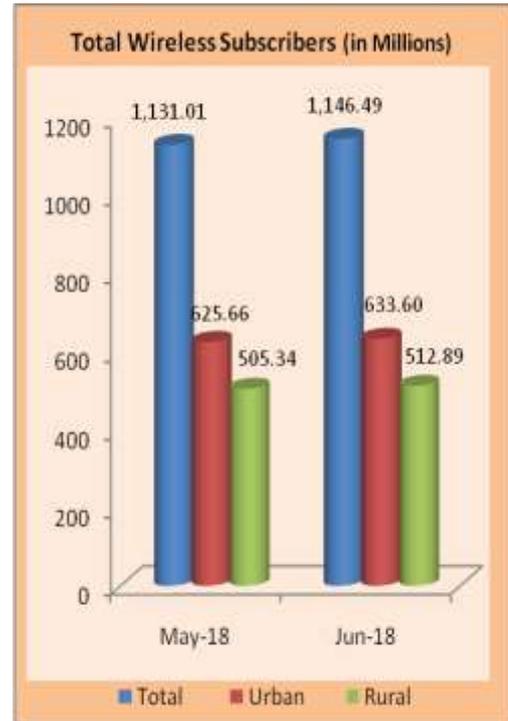
Circle Category	Monthly growth rate (%) (May-18 to Jun-18)		Yearly growth rate (%) (Jun-17 to Jun-18)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	-0.68	1.10	-7.38	-3.48
Circle B	-0.64	1.34	-10.11	-1.66
Circle C	-0.80	2.07	-9.94	-4.73
Metro	-0.13	1.41	-2.20	-8.00
All India	-0.50	1.37	-6.68	-3.40

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

III. Wireless Subscribers

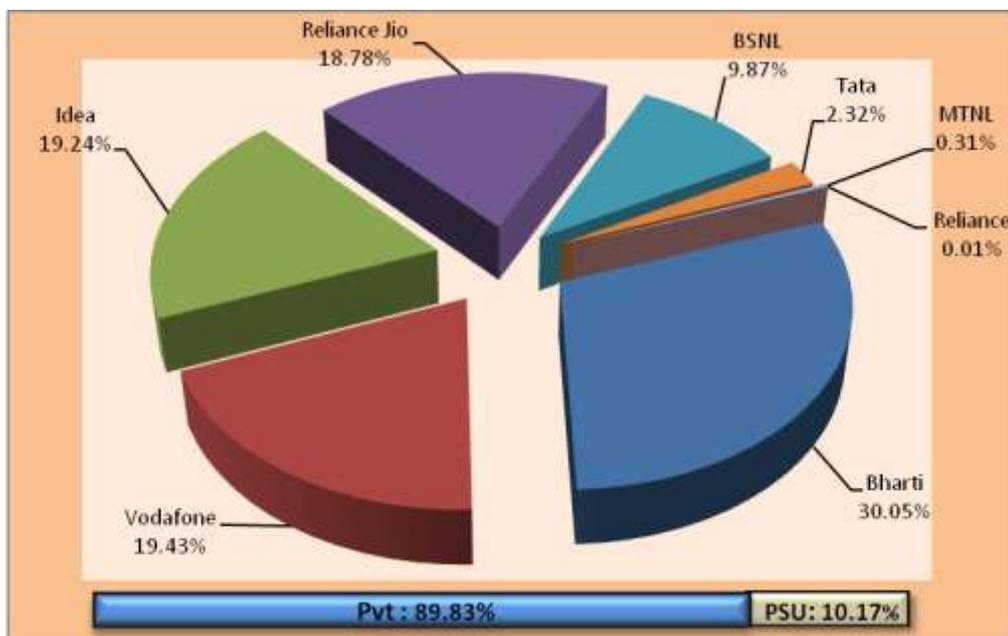
- Total wireless subscribers (GSM, CDMA & LTE) increased from 1,131.01 million at the end of May-18 to 1,146.49 million at the end of Jun-18, thereby registering a monthly growth rate of 1.37%. The Wireless subscription in urban areas increased from 625.66 million at the end of May-18 to 633.60 million at the end of Jun-18, and wireless subscriptions in rural areas also increased from 505.34 million to 512.89 million during the month. The monthly growth rates of urban and rural wireless subscription were 1.27% and 1.49% respectively.



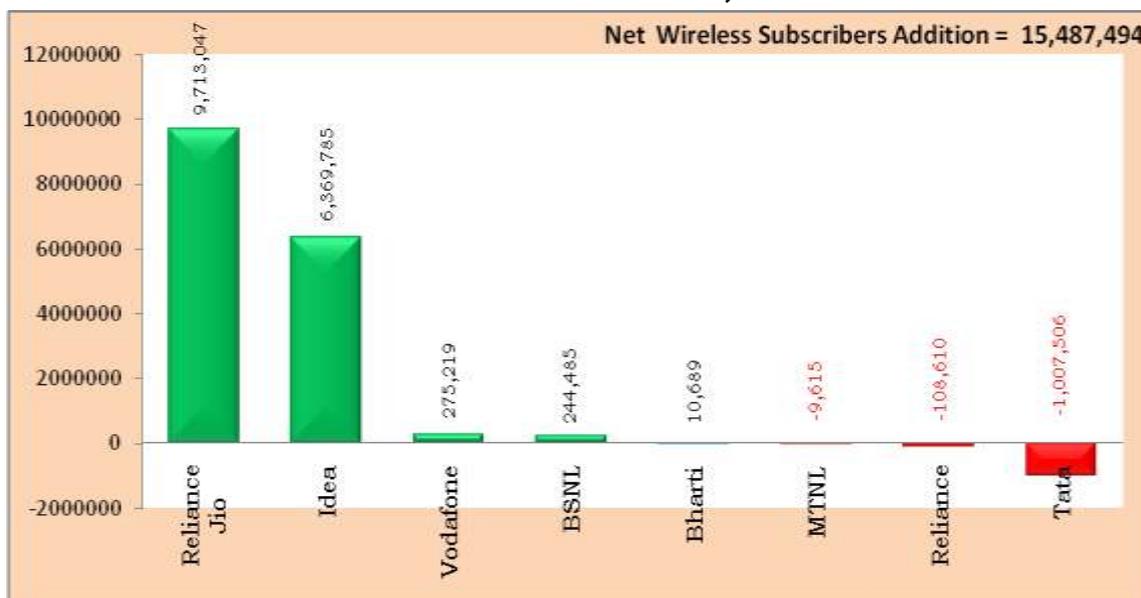
- The Wireless Tele-density in India increased from 86.89 at the end of May-18 to 88.00 at the end of Jun-18. The Urban Wireless Tele-density increased from 151.82 at the end of May-18 to 153.52 at the end of Jun-18, and Rural Wireless Tele-density also increased from 56.81 to 57.63 during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 55.26% and 44.74% respectively at the end of Jun-18. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

- As on 30th June, 2018, the private access service providers held 89.83% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 10.17%. 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 June, 2018



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

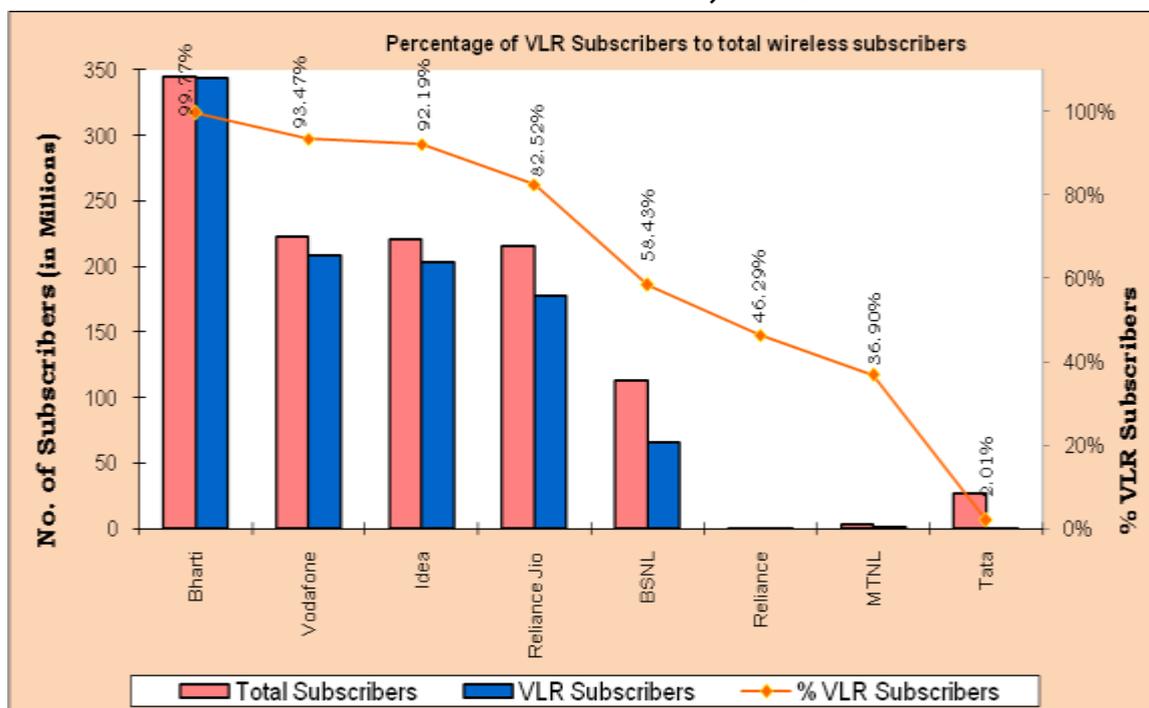


Note: 1. On noticing that while reporting number of subscribers, some of the TSPs were deducting inactive subscribers. A Direction was issued on 18th August 2017 to TSPs to strictly adhere to the Department of Telecommunications’ methodology for reporting their number of subscribers. However, some of the Telecom Service Providers are yet to comply with the Direction.

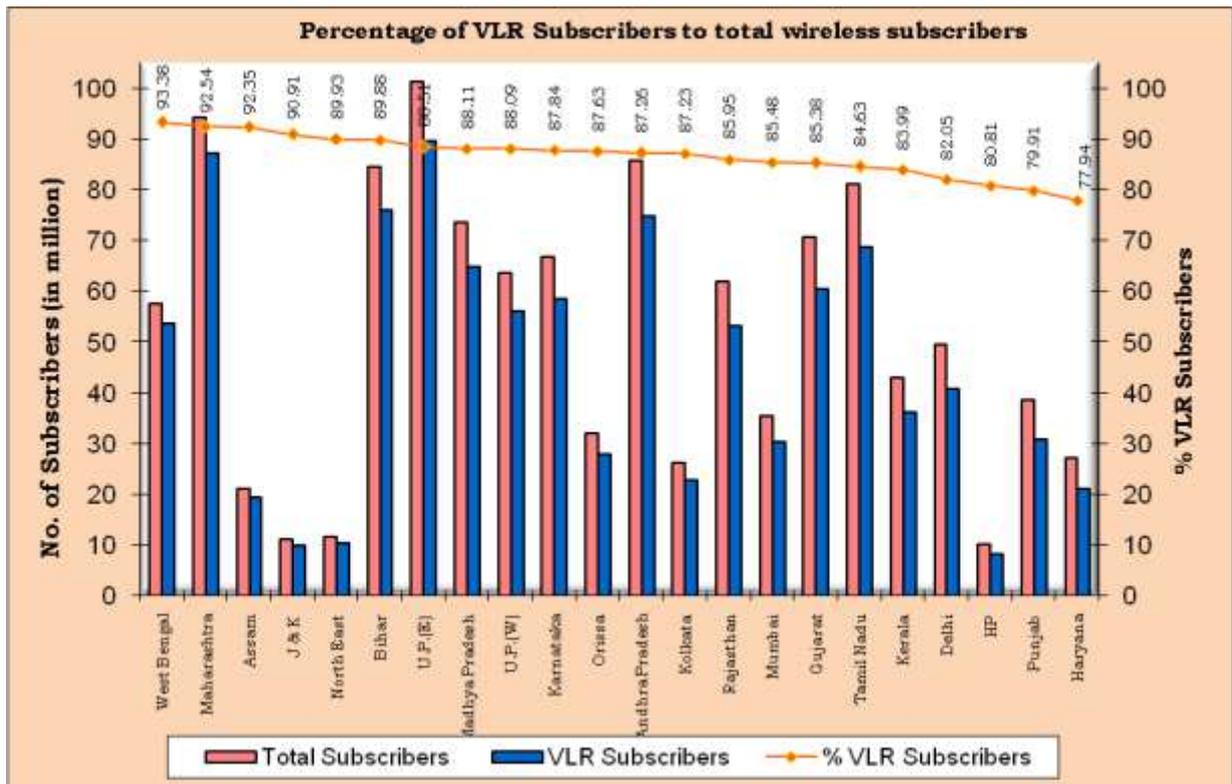
IV. Active Wireless Subscribers (VLR Data)

- Out of the total wireless subscribers (1,146.49 million), 1,000.92 million wireless subscribers were active on the date of peak VLR in the month of Jun-18. The proportion of active wireless subscribers was approximately 87.30% 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 Jun-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 June, 2018



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



V. Growth in Wireless Subscribers

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



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



- During the month of June, 2018, Bihar service area showed maximum growth rate of 2.24% followed by J&K (2.19%) in their wireless subscriber base. U.P.(West) service area showed negative growth in wireless subscriber base during the month of Jun-18.

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 Jun-18, a total of 4.11 million requests were received for MNP. Out of 4.11 million requests, 2.10 million requests received from Zone-I and 1.90 million requests received from Zone-II. The cumulative MNP requests increased from 382.06 million at the end of May-18 to 386.17 million at the end of Jun-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 31.78 million) followed by Maharashtra (about 26.69 million) service area. In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 37.05 million) followed by Tamilnadu (about 33.11 million).

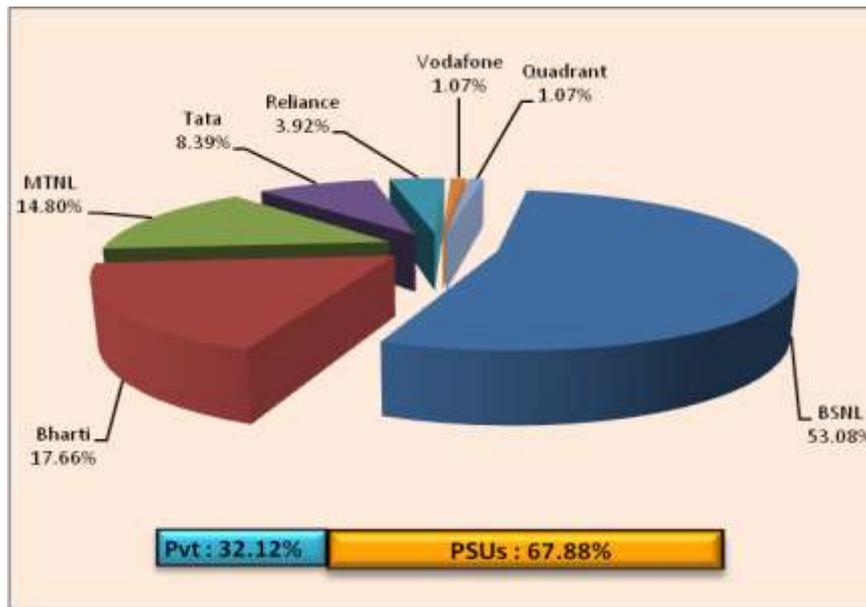
Service Area Wise MNP Status					
Zone - 1			Zone - 2		
Service Area	Number of Porting Requests (in Million)		Service Area	Number of Porting Requests (in Million)	
	May-18	Jun-18		May-18	Jun-18
Delhi	19.16	19.42	Andhra Pradesh	32.05	32.45
Gujarat	25.01	25.26	Assam	3.04	3.10
Haryana	13.93	14.05	Bihar	14.48	14.66
Himachal Pradesh	1.84	1.86	Karnataka	36.75	37.05
Jammu & Kashmir	0.86	0.88	Kerala	9.24	9.35
Maharashtra	26.28	26.69	Kolkata	9.51	9.59
Mumbai	20.14	20.33	Madhya Pradesh	25.23	25.45
Punjab	14.27	14.47	North East	1.20	1.22
Rajasthan	31.54	31.78	Orissa	7.58	7.66
U.P.(East)	20.54	20.84	Tamil Nadu	32.78	33.11
U.P.(West)	16.52	16.73	West Bengal	20.11	20.22
Total	190.10	192.31	Total	191.96	193.86
Total (Zone-1 + Zone-2)				382.06	386.17
Net Addition (June, 2018)			4.11		

VII. Wireline Subscribers

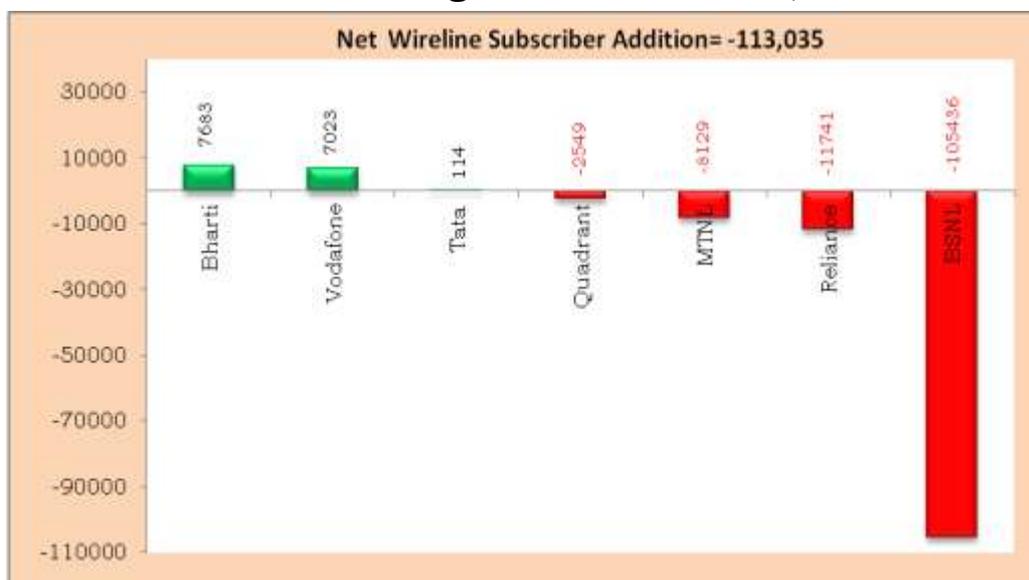
- Wireline subscribers further declined from 22.51 million at the end of May-18 to 22.40 million at the end of Jun-18. Net decline in the wireline subscriber base was 0.11 million with a monthly decline rate of 0.50%. The share of urban and rural subscribers in total wireline subscribers were 85.55% and 14.45% respectively at the end of Jun-18.

- The Overall Wireline Tele-density(%) declined from 1.73 at the end of May-18 to 1.72 at the end of Jun-18. Urban and Rural Wireline Tele-density were 4.64 and 0.36 respectively during the same period.
- BSNL and MTNL, the two PSU access service providers, held 67.88% 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 30th June, 2018



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



VIII. Broadband (\geq 512 Kbps download)

- As per the reports received from 293 operators as compared to 280 operators in previous month, the number of broadband subscribers increased from 432.00 million at the end of May-18 to 447.12 million at the end of Jun-18 with a monthly growth rate of 3.50%. Segment-wise broadband subscribers and their monthly growth rates are as below:

Segment-wise Broadband Subscribers and Monthly Growth Rate in the month of June, 2018

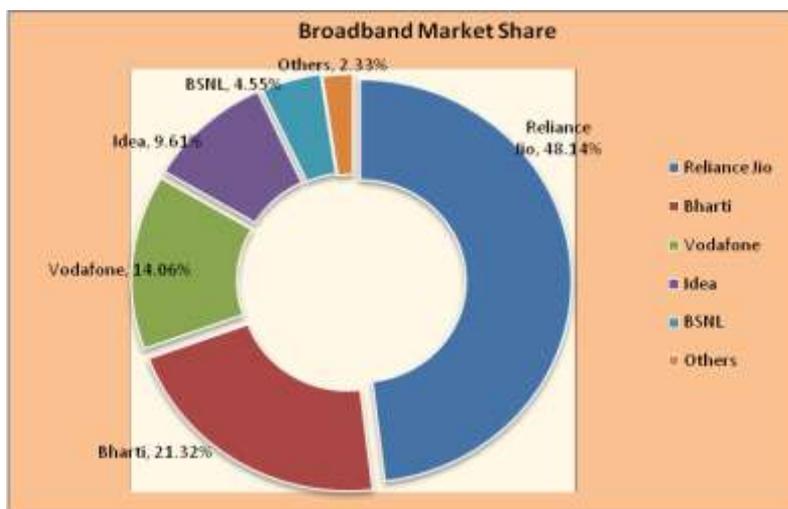
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of Jun-18
	As on 31 st May, 2018	As on 30 th June, 2018	
Wired subscribers	17.94	17.90	-0.18%
Mobile devices users (Phones and dongles)	413.65	428.81	3.66%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.409	0.408	-0.25%
Total	432.00	447.12	3.50%

- Top five service providers constituted 97.67% market share of the total broadband subscribers at the end of Jun-18. These service providers were Reliance Jio Infocomm Ltd (215.26 million), Bharti Airtel (95.31 million), Vodafone (62.86 million), Idea Cellular (42.95 million) and BSNL (20.34 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 30.06.2018**



- As on 30th June, 2018, the top five Wired Broadband Service providers were BSNL (9.15 million), Bharti Airtel (2.21 million), Atria Convergence Technologies (1.34 million), MTNL (0.83 million) and Hathway Cable & Datacom (0.75 million).
- As on 30th June, 2018, the top five Wireless Broadband Service providers were Reliance Jio Infocomm Ltd (215.26 million), Bharti Airtel (93.11 million), Vodafone (62.85 million), Idea Cellular (42.94 million) and BSNL (11.19 million).

Contact details in case of any clarification:

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Pr. Advisor (F&EA)

Wireless Subscriber Base

Annexure-I

Circle	Group									
	Bharti		Reliance Com.		Vodafone		Tata		Idea	
	May-18	Jun-18	May-18	Jun-18	May-18	Jun-18	May-18	Jun-18	May-18	Jun-18
Andhra Pradesh	30854232	30772427	8609	7512	6211913	6158618	2484529	2423008	18000286	18489040
Assam	8365649	8466018	38	1	4393459	4378717			1481834	1544518
Bihar	39084869	39327547	1293	93	10217604	10309247	595059	561478	14181324	14769833
Delhi	14406708	14594774	48804	14922	12250185	12300497	804159	690474	7451683	7560308
Gujarat	14438349	13567103	2690	2288	20474693	20376688	1352869	1290280	14591179	15051326
Haryana	4064519	4111712	313	70	6310171	6288917	1198071	1160855	5342372	5559462
Himachal Pradesh	3606048	3643647	323	70	534447	526865	13378	12557	1008354	1055896
J & K	5261665	5395378	4		866230	851022			717314	749744
Karnataka	25636348	26059540	13220	11908	7837999	7898945	4048338	3953783	9670630	9899489
Kerala	5024858	5116047	2705	2229	7973324	8003882	515202	484342	12412150	12719595
Kolkata	6473903	6551316	3725	805	6730497	6776764	1456478	1391749	3024151	3139528
Madhya Pradesh	15570725	15714386	59806	2286	6172794	6039325	2608604	2530115	28443888	29102862
Maharashtra	18272666	17768594	6084	4960	20066387	19953885	2858631	2713128	30478095	31125189
Mumbai	8174334	8279834	15944	14646	9949501	10024536	1669521	1547139	4760605	4887193
North East	5304754	5362395	0		1816044	1820579			581833	609305
Orissa	12662827	12814537	151	103	4493522	4461769	875114	831959	2145680	2269471
Punjab	9992515	10031756	692	566	4823128	4880951	1167008	1152795	7729151	7916754
Rajasthan	23168847	23363145	3604	1433	12397314	12458500	294540	285598	8312798	8503358
Tamil Nadu (incl. Chennai)	25430505	25777781	13772	11834	20878903	21051180	1962684	1908910	6372022	6644475
U.P.(E)	34869409	34987402	2425	1298	23951177	24074363	1949678	1931993	13244960	13866909
U.P.(W)	15915543	14649194	1052	162	12316802	12241906	1693281	1675701	17719914	18279598
West Bengal	17974159	18209588	711	169	21791667	21855824	83989	77763	6558655	6854810
Total	344553432	344564121	185965	77355	222457761	222732980	27631133	26623627	214228878	220598663
Net Addition		10689		-108610		275219		-1007506		6369785
Rural Subscribers	<i>170900677</i>	<i>171532375</i>	<i>21348</i>	<i>0</i>	<i>119846989</i>	<i>119492611</i>	<i>4019598</i>	<i>3795912</i>	<i>116205414</i>	<i>119232509</i>

Note: M/s RCL/RTL has not reported their rural wireless subscriber base for the month of June, 2018 and hence their rural wireless subscriber base has been taken as NIL.

Wireless Subscriber Base

Annexure-I (Contd.)

Circle	Group								Net Addition
	BSNL		MTNL		Reliance Jio		Total		
	May-18	Jun-18	May-18	Jun-18	May-18	Jun-18	May-18	Jun-18	
Andhra Pradesh	10122093	10125005			16897938	17705512	84579600	85681122	1101522
Assam	2250155	2298077			4086469	4323989	20577604	21011320	433716
Bihar	4650825	4735039			14018390	14896598	82749364	84599835	1850471
Delhi			2263988	2257250	11755253	12196458	48980780	49614683	633903
Gujarat	5648816	5691260			14277880	14832731	70786476	70811676	25200
Haryana	4580074	4623506			5177520	5380953	26673040	27125475	452435
Himachal Pradesh	2626190	2643178			2127564	2205994	9916304	10088207	171903
J & K	1453337	1417374			2477689	2598401	10776239	11011919	235680
Karnataka	7210892	7137640			11278863	11754210	65696290	66715515	1019225
Kerala	10668814	10729192			5798734	5958439	42395787	43013726	617939
Kolkata	1578542	1607222			6426088	6651592	25693384	26118976	425592
Madhya Pradesh	6169787	6172590			13197839	14079350	72223443	73640914	1417471
Maharashtra	6878997	6843506			14890984	15796135	93451844	94205397	753553
Mumbai			1270882	1268005	9077824	9381057	34918611	35402410	483799
North East	1685633	1708973			1909890	2020993	11298154	11522245	224091
Orissa	5492005	5507640			5750588	6065010	31419887	31950489	530602
Punjab	5399829	5340035			8854446	9162538	37966769	38485395	518626
Rajasthan	5573317	5627488			11233286	11733748	60983706	61973270	989564
Tamil Nadu (incl. Chennai)	11510892	11603497			13644468	14239424	79813246	81237101	1423855
U.P.(E)	11814267	11754257			13950390	14659312	99782306	101275534	1493228
U.P.(W)	5833140	5810769			10513873	10897871	63993605	63555201	-438404
West Bengal	1723696	1739538			8196678	8715386	56329555	57453078	1123523
Total	112871301	113115786	3534870	3525255	205542654	215255701	1131005994	1146493488	15487494
Net Addition		244485		-9615		9713047	0	15487494	
Rural Subscribers	36154426	36113947	47317	47177	58148087	62679600	505343856	512894131	7550275

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

Annexure-II

Circle	Bharti	BSNL	Idea	MTNL	Reliance	Reliance Jio	Tata	Vodafone	Total
Andhra Pradesh	98.64	70.45	94.80		35.60	80.70	0.42	88.52	87.26
Assam	96.12	69.00	92.22		100.00	93.49		96.25	92.35
Bihar	92.49	57.53	89.42		13.98	98.26	0.78	88.13	89.88
Delhi	93.05		91.87	27.78	59.92	66.76	13.76	91.95	82.05
Gujarat	95.13	47.42	92.54		57.04	76.90	0.09	95.80	85.38
Haryana	112.22	39.96	91.83		48.57	66.73	0.71	95.02	77.94
Himachal Pradesh	95.15	50.69	104.66		4.29	76.55	1.49	104.64	80.81
J & K	98.48	67.25	91.80		-	86.68		94.48	90.91
Karnataka	107.45	62.99	92.41		37.30	81.99	0.43	92.42	87.84
Kerala	100.96	65.23	93.47		57.56	75.61	1.78	94.42	83.99
Kolkata	104.67	59.80	87.71		39.50	80.83	10.64	98.67	87.23
Madhya Pradesh	106.59	56.65	94.22		30.93	87.36	0.56	81.15	88.11
Maharashtra	109.25	58.59	93.89		41.47	93.98	2.58	98.29	92.54
Mumbai	111.01		83.32	53.15	43.12	82.88	7.09	84.12	85.48
North East	95.90	70.33	87.95		-	86.89		94.77	89.93
Orissa	96.18	71.89	85.97		36.89	88.32	2.48	98.27	87.63
Punjab	105.69	48.41	93.43		28.80	65.81	0.10	84.81	79.91
Rajasthan	94.64	49.31	89.37		50.03	78.73	0.46	92.62	85.95
Tamil Nadu (incl. Chennai)	98.71	67.88	89.70		50.74	78.81	0.70	86.60	84.63
U.P. (E)	98.48	46.06	92.12		53.16	93.53	0.38	96.70	88.51
U.P. (W)	106.64	45.30	91.16		39.51	77.56	0.28	103.04	88.09
West Bengal	98.52	80.94	88.14		22.49	84.72	1.20	95.53	93.38
Total	99.77	58.43	92.19	36.90	46.29	82.52	2.01	93.47	87.30

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	
	BSNL		MTNL		Bharti		Reliance		Tata		Quadrant		Vodafone		May-18	Jun-18
	May-18	Jun-18	May-18	Jun-18	May-18	Jun-18	May-18	Jun-18	May-18	Jun-18	May-18	Jun-18	May-18	Jun-18		
Andhra Pradesh	1033550	1019418			168946	169691	52117	51579	174483	175726			29970	30720	1459066	1447134
Assam	129536	128326											2730	2730	132266	131056
Bihar	240644	238514					4520	4582	11156	10983			2130	2190	258450	256269
Delhi			1523297	1519100	1331031	1336479	152071	150310	146247	147112			36960	39480	3189606	3192481
Gujarat	1014380	1012307			81246	81245	27117	26340	94946	94596			13218	13638	1230907	1228126
Haryana	232078	230890			22124	22178	3212	3194	37587	37293			120	150	295121	293705
Himachal Pradesh	118228	117566					3410	3380	2370	2010			30	30	124038	122986
J & K	112710	111388													112710	111388
Karnataka	1085157	1074243			652351	654011	153633	151405	275766	275845			37815	38625	2204722	2194129
Kerala	1843930	1833642			58370	58523	21359	21004	18661	18776			2580	2730	1944900	1934675
Kolkata	549549	540418			124636	124674	45286	44538	52063	52669			7200	7500	778734	769799
Madhya Pradesh	657943	656620			245961	242248	12757	12540	15437	15510			750	780	932848	927698
Maharashtra	1221477	1206056			84546	85434	59636	59079	306290	300860			17343	17854	1689292	1669283
Mumbai			1800063	1796131	362267	361994	213097	210738	567969	571134			39295	39947	2982691	2979944
North East	108924	108258											270	270	109194	108528
Orissa	255725	254203					2991	2907	7888	7849			1800	1800	268404	266759
Punjab	451178	446168			123110	123770	12567	12422	14779	14430	241764	239215	1440	1440	844838	837445
Rajasthan	493477	489358			50735	50709	25693	26048	12466	12323			7170	7200	589541	585638
Tamil Nadu (incl. Chennai)	1512800	1496764			556751	557697	82982	81038	117164	118790			16730	17400	2286427	2271689
U.P.(E)	363013	362574			63174	64175	11449	11142	12389	12130			11370	11430	461395	461451
U.P.(W)	301491	298803			22173	22276	4914	4852	8525	8296			4200	4230	341303	338457
West Bengal	267111	261949					1797	1769	2885	2853			90	90	271883	266661
Total	11992901	11887465	3323360	3315231	3947421	3955104	890608	878867	1879071	1879185	241764	239215	233211	240234	22508336	22395301
Net Addition		-105436		-8129		7683		-11741		114		-2549		7023		-113035
Rural Subscribers	3157402	3130151	0	0	0	0	1658	1576	54362	53379	52446	50359	0	0	3265868	3235465

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.