(Press Release No. 34/2017)

Information Note to the Press



TELECOM REGULATORY AUTHORITY OF INDIA



New Delhi, 28th April, 2017 (www.trai.gov.in)

Highlights of Telecom Subscription Data as on 28th February, 2017

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Total Telephone Subscribers (Million)	1164.20	24.35	1188.55
Net Addition in February, 2017 (Million)	13.75	0.003	13.75
Monthly Growth Rate\$	1.19%	0.01%	1.17%
Urban Telephone Subscribers (Million)	671.63	20.52	692.15
Net Addition in February, 2017 (Million)	11.00	0.01	11.01
Monthly Growth Rate ^{\$}	1.66%	0.05%	1.62%
Rural Telephone Subscribers (Million)	492.57	3.83	496.39
Net Addition in February, 2017 (Million)	2.75	-0.01	2.74
Monthly Growth Rate ^{\$}	0.56%	-0.16%	0.56%
Overall Tele-density*(%)	90.70	1.90	92.59
Urban Tele-density*(%)	166.77	5.10	171.86
Rural Tele-density*(%)	55.92	0.43	56.35
Share of Urban Subscribers	57.69%	84.29%	58.24%
Share of Rural Subscribers	42.31%	15.71%	41.76%
Broadband Subscribers (Million)	243.13	18.18	261.31

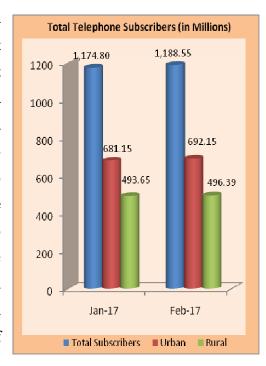
- ❖ In the month of February, 2017, 5.67 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 261.06 million at the end of Jan-17 to 266.73 million at the end of Feb-17, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in February, 2017 was 1,010.63 million.

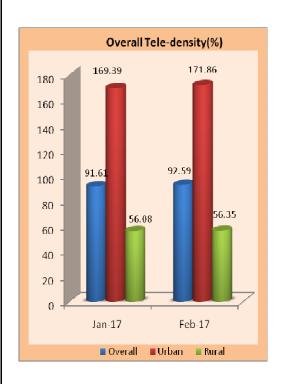
Note:

- 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

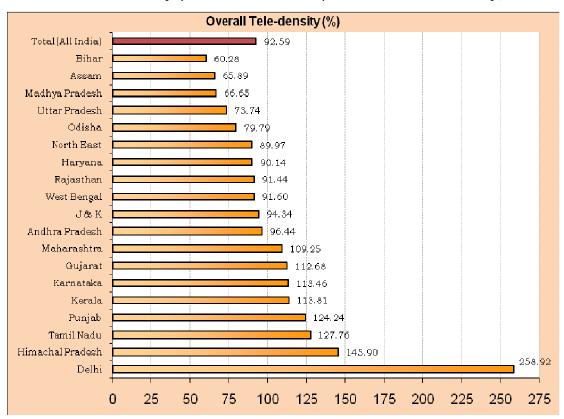
• The number of telephone subscribers in India increased from 1,174.80 million at the end of Jan-17 to 1,188.55 million at the end of Feb-17, thereby showing a monthly growth rate of 1.17%. The urban subscription increased from 681.15 million at the end of Jan-17 to 692.15 million at the end of Feb-17, however the rural subscription increased from 493.65 million to 496.39 million during the same period. The monthly growth rates of urban and rural subscription were 1.62% and 0.56% respectively during the month of Feb-17.





• The overall Tele-density in India increased from 91.61 at the end of Jan-17 to 92.59 at the end of Feb-17. The Urban Tele-density increased 169.39 at the end of Jan-17 to 171.86 at the end of Feb-17, and the Rural Teledensity increased from 56.08 at the end of Jan-17 to 56.35 at the end of Feb-17. The share of urban subscribers and rural subscribers in total number of telephone subscribers at the end of Feb-17 was 58.24% and 41.76% respectively.





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 Chhatishgarh, 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 February, 2017

Circle		s in the month uary, 2017	Telephone Subscriber base as on 28 th February, 2017					
Category	Wireline	Wireless	Wireline	Wireless				
	segment	segment	segment	segment				
Circle A	7,290	4,081,417	9,599,519	406,843,434				
Circle B	-13,153	6,045,044	6,459,523	464,852,918				
Circle C	-759	1,450,406	1,164,660	173,426,087				
Metro	9,981	2,170,283	7,123,011	119,077,779				
All India	3,359	13,747,150	24,346,713	1,164,200,218				

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

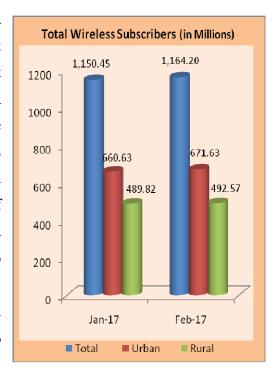
Circle	Monthly gro (Jan-17 t	wth rate (%) to Feb-17)	Yearly growth rate (%) (Feb-16 to Feb-17)					
Category	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment				
Circle A	0.08	1.01	-4.07	12.09				
Circle B	-0.20	1.32	-5.89	13.49				
Circle C	-0.07	0.84	-5.12	16.02				
Metro	0.14	1.86	0.07	13.84				
All India	0.01	1.19	-3.44	13.40				

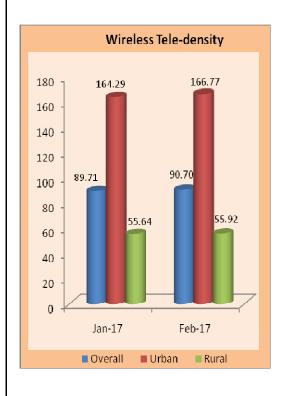
Note: Circle Category-Metro includes Delhi, Mumbai and Kolkata. Data for Chennai has been included in Circle Category-A, as part of TamilNadu.

- As can be seen in the above tables, in wireless segment, Circles of Category-B showed highest monthly net addition during the month of Feb-17. However, Metro circles showed maximum monthly growth rate in subscriber base during the same period.
- In Wireline segment, Circles of Category-A and Metros showed the positive monthly growth in subscriber base during the month of Feb-17. However, Circles of Category-B and Category-C showed monthly decline rate in subscriber base during the same period.

III. Wireless Subscribers

• Total wireless subscribers (GSM, CDMA & LTE) increased from 1,150.45 million at the end of Jan-17 to 1,164.20 million at the end of Feb-17, thereby registering a monthly growth rate of 1.19%. The Wireless subscription in urban areas increased from 660.63 million at the end of Jan-17 to 671.63 million at the end of Feb-17, and wireless subscription in rural areas increased from 489.82 million to 492.57 million during the same period. The monthly growth rates of urban and rural wireless subscription were 1.66% and 0.56% respectively.

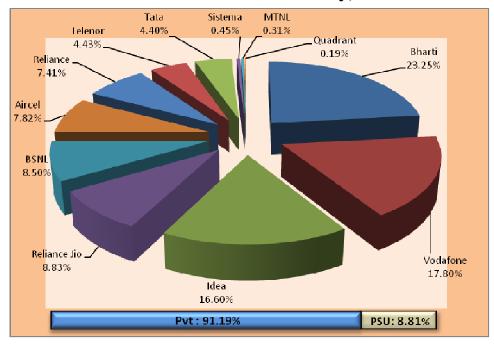




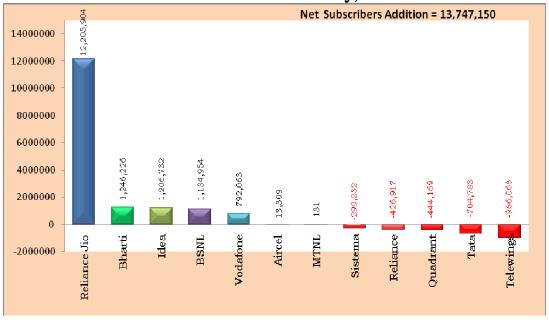
• The Wireless Tele-density(%) in India increased from 89.71 at the end of Jan-17 to 90.70 at the end of Feb-17. The Urban Wireless Tele-density increased from 164.29 at the end of Jan-17 to 166.77 at the end of Feb-17, and Rural Wireless Tele-density increased from 55.64 to 55.92 during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 57.69% and 42.31% respectively at the end of Feb-17. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

• As on 28th February, 2017, the private access service providers held 91.19% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 8.81%. 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 28th February, 2017



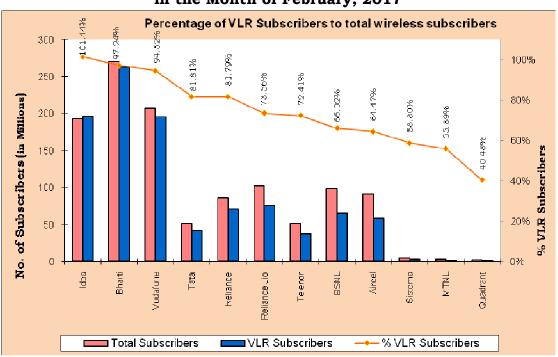
Net Additions in Wireless Subscribers of Access Service Providers in the Month of February, 2017



IV. Active Wireless Subscribers (VLR Data)

- Out of the total wireless subscribers (1,164.20 million), 1,010.63 million wireless subscribers were active on the date of peak VLR in the month of Feb-17. The proportion of active wireless subscribers was approximately 86.81% 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 Feb-17 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

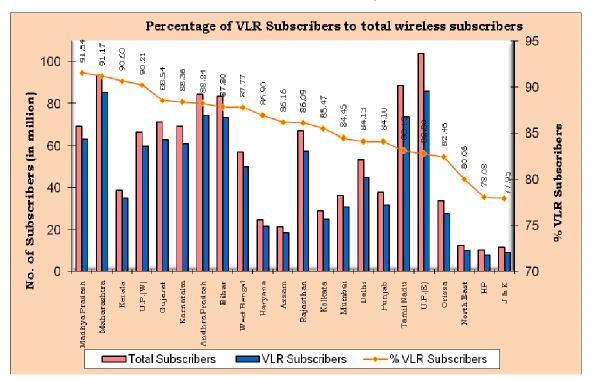
Access Service Provider-wise Percentage of VLR Subscribers in the Month of February, 2017



Note-

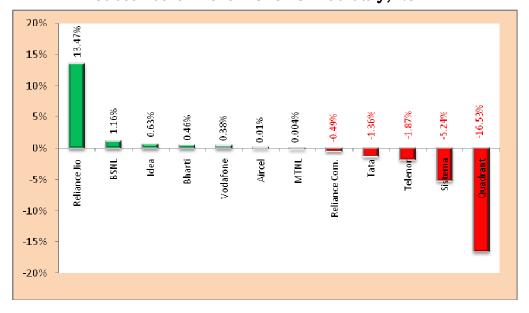
1. Number of VLR subscribers of Idea Cellular was more than its subscriber base due to a large number of inroamers in its network.

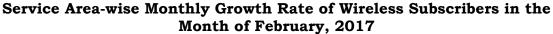
Service Area wise percentage of VLR Subscribers in the Month of February, 2017

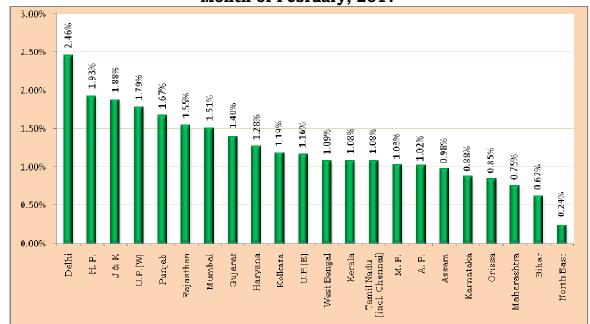


V. Growth in Wireless Subscribers

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







• All the service areas showed positive growth in wireless subscribers during the month of Feb-17. Delhi service area recorded the highest growth 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 Feb-17, a total of 5.67 million requests were received for MNP. With this, the cumulative MNP requests increased from 261.06 million at the end of Jan-17 to 266.73 million at the end of Feb-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 22.49 million) followed by Gujarat (about 19.17 million).

• In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 29.42 million) followed by Andhra Pradesh (about 24.18 million).

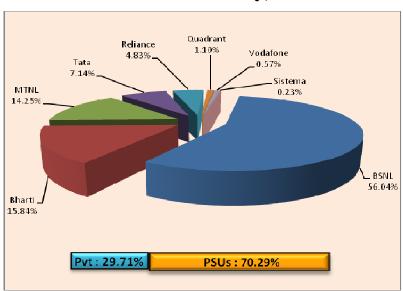
Service Area Wise MNP Status at the end of February, 2017									
Zone -I		Zone – II							
Service Area	Number of Porting Requests	Service Area	Number of Porting Requests						
Delhi	11403388	Andhra Pradesh	24175011						
Gujarat	19172802	Assam	1362633						
Haryana	10566664	Bihar	9967586						
Himachal Pradesh	954256	Karnataka	29415185						
Jammu & Kashmir	113611	Kerala	7415614						
Maharashtra	18180413	Kolkata	5586775						
Mumbai	14788501	Madhya Pradesh	18487093						
Punjab	10472299	North East	520390						
Rajasthan	22494838	Orissa	5348130						
Uttar Pradesh - East	13303275	Tamil Nadu	16393884						
Uttar Pradesh - West	12047267	West Bengal	14562498						
Total	133,497,314	Total	133,234,799						
Total (Zone-I + Zone-II)			266,732,113						
Net Addition (in February, 2017)			5,672,509						

VII. Wireline Subscribers

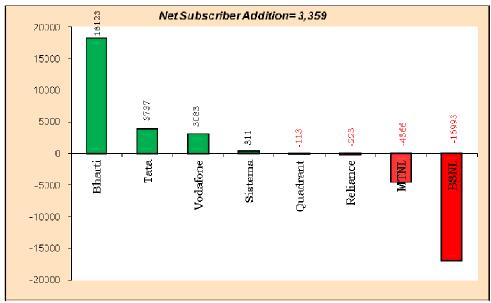
- Wireline subscribers increased from 24.34 million at the end of Jan-17 to 24.35 million at the end of Feb-17. Net addition in the wireline subscriber base was 0.003 million with a monthly growth rate of 0.01%. The share of urban and rural subscribers in total wireline subscribers were 84.29% and 15.71% respectively at the end of Feb-17.
- The Overall Wireline Tele-density(%) remained same as at the end of Jan-17 i.e. 1.90 at the end of Feb-17. Urban and Rural Wireline Tele-density were 5.10 and 0.43 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 Feb-17 are given below:

Access Service Provider-wise Market Shares (Wireline Subscribers) as on 28th February, 2017



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



VIII. Broadband (≥ 512 Kbps download)

• As per the reports received from the service providers, the number of broadband subscribers increased from 253.75 Million at the end of Jan-17 to 261.31 million at the end of Feb-17 with a monthly growth rate of 2.98%. Segment-wise broadband subscribers and their monthly growth rates are as below:

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

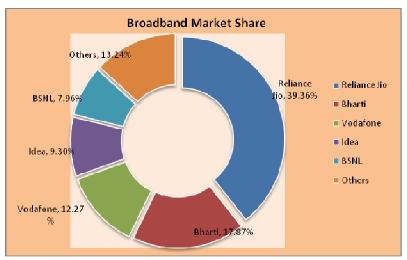
	Broadband s	Monthly growth	
Segment	As on 31st January, 2017	As on 28 th February, 2017	rate in the month of Feb-17
Wired subscribers	18.10	18.18	0.39%
Mobile devices users (Phones and dongles)	235.07	242.57	3.19%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to- Point Radio & VSAT)	0.58	0.57	-1.12%
Total	253.75	261.31	2.98%

• Top five service providers constituted 86.76% market share of the total broadband subscribers at the end of Feb-17. These service providers were Reliance Jio Infocom Ltd (102.84 million), Bharti Airtel (46.69 million), Vodafone (32.06 million), Idea Cellular (24.31 million) and BSNL (20.81 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 28.02.2017



- As on 28th February, 2017, the top five <u>Wired</u> Broadband Service providers were BSNL (9.95 million), Bharti Airtel (2.07 million), Atria Convergence Technologies (1.14 million), MTNL (1.03 million) and YOU Broadband (0.62 million).
- As on 28th February, 2017, the top five <u>Wireless</u> Broadband Service providers were Reliance Jio Infocomm Ltd (102.84 million), Bharti Airtel (44.62 million), Vodafone (32.05 million), Idea Cellular (24.31 million) and Reliance Communications (14.04 million).

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Advisor (F&EA)

Wireless Subscriber Base

Annexure-I

						Grou	p					
	Bh	arti	Reli	ance	Voda	afone	Та	ıta	ld	ea	Air	cel
Circle	Jan-17	Feb-17	Jan-17	Feb-17	Jan-17	Feb-17	Jan-17	Jan-17 Feb-17		Feb-17	Jan-17	Feb-17
Andhra Pradesh	25349888	25350900	3745288	3757610	6947827	6920655	3923807	3867812	17474485	17496332	2547676	2593866
Assam	6345353	6379734	1232121	1145762	3923211	3956464			1310720	1330851	5814988	5807277
Bihar	30485905	30487219	3219896	3256542	9771545	9603217	1443416	1425158	12098042	12354378	7466488	7554303
Delhi	11483091	11590370	5779544	5999188	10576153	10642941	1528706	1591722	6445041	6465245	6749177	6830343
Gujarat	8955933	9045978	5940153	5778199	19909407	19923817	2554385	2551441	12832591	13014605	17063	17063
Haryana	3420024	3430338	1576895	1510376	5931783	6004148	2575783	2532130	5023361	5046351	3092	3092
Himachal Pradesh	2935910	2945760	1583443	1587728	733437	725787	49905	48143	797026	805297	1125928	1121747
J & K	3529511	3560866	915167	863666	986262	980545			640768	679116	2904458	2947876
Karnataka	22204342	22205227	5343716	5329344	7959195	7848321	6619594	6589124	9652409	9575818	3371034	3393786
Kerala	4542675	4543147	1452852	1418997	7695803	7673321	1355867	1329905	10977843	10972529	379763	379835
Kolkata	4947767	4967599	4317121	4194693	5621531	5656444	2549426	2529159	2585303	2595876	4290604	4390545
Madhya Pradesh	13860937	13895358	9528120	9529830	6770743	6788067	4357333	4296583	23824717	23797344	20694	20694
Maharashtra	14331444	14382498	4392411	4160891	19068159	19102263	5586633	5455944	25899372	26104199	2787271	2774738
Mumbai	6318238	6382756	4865177	4877394	9009290	9012152	2768781	2750048	4457207	4432118	2980747	2923667
North East	4155104	4167907	303544	273230	1581189	1586453			636306	623779	3486866	3434000
Orissa	11234287	11307773	2103448	2188067	4469490	4466564	1958320	1906541	2057315	2039436	4652863	4605849
Punjab	8632894	8761053	1704289	1671225	5295631	5450023	2422658	2392372	6687822	6982188	1148597	1149015
Rajasthan	20594022	20856003	5883306	5875858	12044303	12156346	1264939	1165209	8186434	8286342	6653053	6666458
Tamil Nadu (incl. Chennai)	18266477	18289999	5436196	5456614	16483231	16305205	4034071	3997716	6319091	6171105	21519012	21426525
U.P.(E)	23005582	23240766	8375203	8375127	19935364	20221740	3541693	3449030	11827417	11996510	7194323	7040268
U.P.(W)	8925701	8927008	5468288	5492685	12176248	12410968	3035166	2996345	16024487	16189835	852409	860287
West Bengal	15877336	15930388	3532682	3528917	19546610	19793034	359693	351011	6305242	6310477	5074199	5112380
Total	269402421	270648647	86698860	86271943	206436412	207228475	51930176	51225393	192062999	193269731	91040305	91053614
Net Addition		1246226		-426917		792063		-704783		1206732		13309
Rural	133174765	134190246	20647768	20380629	111709645	112650789	13614871	12958011	106197729	107017051	31848094	31893777

Wireless Subscriber Base

Annexure-I (contd.)

						Gro	up								
	BS	NL	МТ	NL	Tele	enor	Sist	ema	Qua	drant	Relia	nce Jio	Tot	tal	
Circle	Jan-17	Feb-17	Jan-17	Feb-17	Jan-17	Feb-17	Jan-17	Feb-17	Jan-17	Feb-17	Jan-17 Feb-17		Jan-17	Feb-17	Net Addition
Andhra Pradesh	9824079	9858720			5621712	5485240					7953577	8908009	83388339	84239144	850805
Assam	1426433	1451738									1199602	1389521	21252428	21461347	208919
Bihar	3991403	3967381			9590910	9308364					4966741	5594541	83034346	83551103	516757
Delhi			2327655	2327347			622550	571655			6674682	7452729	52186599	53471540	1284941
Gujarat	4448427	4591955			8491791	8434173	145754	135566			6840540	7624803	70136044	71117600	981556
Haryana	3602252	3621256									2328597	2626266	24461787	24773957	312170
Himachal Pradesh	2029642	2073746									833774	975527	10089065	10283735	194670
J & K	1466858	1480035									1042560	1189709	11485584	11701813	216229
Karnataka	6840478	6880744					804912	760331			5763806	6578004	68559486	69160699	601213
Kerala	8796973	8899336					246493	240546			2948676	3354902	38396945	38812518	415573
Kolkata	879611	915381					415539	400144			3171384	3470533	28778286	29120374	342088
Madhya Pradesh	4968329	4994116									5017974	5728777	68348847	69050769	701922
Maharashtra	6374428	6431910			8083817	7951509					6335089	7192705	92858624	93556657	698033
Mumbai			1299248	1299687							4243923	4808043	35942611	36485865	543254
North East	1651858	1658883									715101	815611	12529968	12559863	29895
Orissa	4880234	4929693									2228333	2424303	33584290	33868226	283936
Punjab	4485177	4479009							2686895	2242726	4097657	4656222	37161620	37783833	622213
Rajasthan	5278568	5381117					1510071	1398394			4425036	5071640	65839732	66857367	1017635
Tamil Nadu (incl. Chennai)	8899617	9030644					542598	528230			6319231	7563296	87819524	88769334	949810
U.P.(E)	10721986	10935952			12389420	12108247					5748048	6566214	102739036	103933854	1194818
U.P.(W)	5440453	5601731			8437286	8341335	110540	101337			4792758	5507620	65263336	66429151	1165815
West Bengal	1770070	1728483					1142694	1114716			2988045	3342063	56596571	57211469	614898
Total	97776876	98911830	3626903	3627034	52614936	51628868	5541151	5250919	2686895	2242726	90635134	102841038	1150453068	1164200218	13747150
Net Addition		1134954		131		-986068		-290232		-444169		12205904		13747150	

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

Annexure-II

Circle	Aircel	Bharti	BSNL	Quadrant	Idea	MTNL	Reliance	Reliance Jio	Sistema	Tata	Telenor	Vodafone	Total
Andhra Pradesh	59.02	98.59	73.47		100.84		88.97	69.88		89.79	72.25	85.46	88.24
Assam	80.81	97.15	77.12		99.27		4.84	80.50				100.73	86.16
Bihar	79.73	97.41	64.46		99.47		6.25	78.19		72.79	75.34	105.87	87.80
Delhi	57.81	94.09			103.27	48.98	89.83	71.08	48.09	58.69		97.90	84.13
Gujarat	2726.68	95.85	63.74		103.88		93.23	76.15	45.87	71.89	66.41	93.82	88.54
Haryana	0.39	95.62	55.63		101.92		95.55	74.49		83.90		92.70	86.90
Himachal Pradesh	44.74	86.52	62.74		107.54		96.05	67.05		24.24		85.66	78.08
J & K	68.59	92.08	69.39		96.88		51.34	71.08				86.37	77.95
Karnataka	52.41	98.62	64.42		99.16		90.33	77.24	60.75	88.98		92.79	88.36
Kerala	62.46	95.88	74.66		104.38		93.70	78.93	49.01	88.31		94.00	90.63
Kolkata	62.18	95.28	88.67		93.06		97.26	64.58	65.79	88.22		95.16	85.47
Madhya Pradesh	0.96	96.99	68.68		103.78		91.56	72.24		79.11		78.69	91.54
Maharashtra	47.88	100.22	68.43		102.34		92.21	84.55		82.49	70.95	96.18	91.17
Mumbai	52.93	95.39			91.63	68.27	89.85	65.81		80.39		94.01	84.45
North East	61.64	98.71	66.85		96.80		5.35	75.86				93.20	80.06
Orissa	59.09	100.82	72.35		101.15		6.37	73.93		81.79		104.94	82.46
Punjab	56.29	99.38	64.31	40.48	101.22		92.82	71.61		76.44		89.05	84.10
Rajasthan	49.81	94.67	63.37		100.39		92.60	76.88	58.87	126.87		91.48	86.09
Tamil Nadu (incl. Chennai)	65.92	95.39	68.51		101.01		94.00	74.40	54.42	73.10		97.23	83.15
U.P. (E)	65.46	98.61	53.08		103.39	_	93.07	73.26		80.08	50.79	93.01	82.80
U.P. (W)	84.87	98.47	53.50		98.35		94.11	64.33	45.53	78.24	108.06	91.60	90.21
West Bengal	70.97	97.37	83.00		102.86		10.35	71.68	67.31	62.41		98.12	87.77
Total	64.47	97.24	66.02	40.48	101.44	55.89	81.79	73.56	58.80	81.81	72.41	94.52	86.81

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

								Group											
Circle	BS	NL	МТ	`NL	Bh	arti	Reli	ance	Ta	ıta	Quad	lrant	Sist	ema	Voda	fone	Tot	tal	
Choic	Jan-17	Feb-17	Jan-17	Feb-17	Jan-17	Feb-17	Jan-17	Feb-17	Jan-17	Feb-17	Jan-17	Feb-17	Jan-17	Feb-17	Jan-17	Feb-17	Jan-17	Feb-17	Net Addition
Andhra Pradesh	1206933	1205999			159727	160955	75575	75539	171251	171724					11250	12180	1624736	1626397	1661
Assam	154112	153679													2190	2190	156302	155869	-433
Bihar	294314	294074					6,367	6,367	12476	12430					1320	1530	314477	314401	-76
Delhi			1606732	1604299	1269629	1281030	173769	173205	135393	135039					28170	29100	3213693	3222673	8980
Gujarat	1101149	1102310			76170	76330	72806	72728	88044	88140					7260	7860	1345429	1347368	1939
Haryana	282,426	281,713			22915	22936	4014	4014	36571	36564							345926	345227	-699
Himachal Pradesh	143,829	142,888					3924	3924	2553	2580					30	60	150336	149452	-884
J & K	133,432	133,716															133432	133716	284
Karnataka	1212060	1209209			618592	619815	156265	156679	209555	209347					23280	23250	2219752	2218300	-1452
Kerala	1999011	1997027			57959	58251	33036	32995	18767	18935					1650	1650	2110423	2108858	-1565
Kolkata	616277	614998			120671	120785	69124	69117	49590	49329					5490	5520	861152	859749	-1403
Madhya Pradesh	721056	719580			273038	273050	19705	19688	16231	16310					420	420	1030450	1029048	-1402
Maharashtra	1414977	1415313			77841	78479	81985	81883	282817	283721					13671	13815	1871291	1873211	1920
Mumbai			1866977	1864844	354981	356483	256950	257333	537148	539681					22129	22248	3038185	3040589	2404
North East	121179	120970													150	180	121329	121150	-179
Orissa	276982	277492					3281	3281	8170	8129					1110	1170	289543	290072	529
Punjab	595235	591175			119870	119882	20740	20653	16053	16230	267845	267732			1050	1050	1020793	1016722	-4071
Rajasthan	602361	600056			48525	48556	19781	19737	11563	11292			56629	56940	2400	2400	741259	738981	-2278
Tamil Nadu (incl. Chennai)	1725418	1726181			552086	553540	133924	133906	109033	109966					10560	10650	2531021	2534243	3222
U.P.(E)	379850	379859			63960	63978	34737	34711	15416	15165					1440	1380	495403	495093	-310
U.P.(W)	357188	355921			23143	23160	7102	7102	9862	9671					1110	1110	398405	396964	-1441
West Bengal	324093	322729					2048	2048	3816	3793					60	60	330017	328630	-1387
Total	13661882	13644889	3473709	3469143	3839107	3857230	1175133	1174910	1734309	1738046	267845	267732	56629	56940	134740	137823	24343354	24346713	3359
Net Addition		-16993		-4566		18123		-223		3737		-113		311		3083		3359	

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.