Information Note to the Press



TELECOM REGULATORY AUTHORITY OF INDIA



New Delhi, 6th February, 2015 (www.trai.gov.in)

Highlights of Telecom Subscription Data as on 31st December, 2014

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Total Telephone Subscribers (Million)	943.97	27.00	970.97
Net Addition in December, 2014 (Million)	6.92	-0.14	6.77
Monthly Growth Rate	0.74%	-0.53%	0.70%
Urban Telephone Subscribers (Million)	550.64	21.66	572.29
Net Addition in December, 2014 (Million)	3.64	-0.07	3.57
Monthly Growth Rate	0.67%	-0.31%	0.63%
Rural Telephone Subscribers (Million)	393.34	5.34	398.68
Net Addition in December, 2014 (Million)	3.28	-0.08	3.20
Monthly Growth Rate	0.84%	-1.44%	0.81%
Overall Tele-density*	75.43	2.16	77.58
Urban Tele-density*	142.46	5.60	148.06
Rural Tele-density*	45.47	0.62	46.09
Share of Urban Subscribers	58.33%	80.21%	58.94%
Share of Rural Subscribers	41.67%	19.79%	41.06%
Broadband Subscribers (Million)	70.42	15.32	85.74

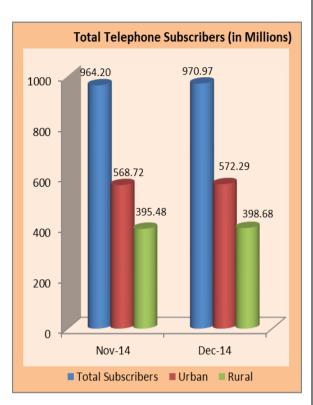
- ❖ In the month of December, 2014, 3.49 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 139.49 million at the end of November, 2014 to 142.98 million at the end of December, 2014.
- ❖ Number of active wireless subscribers on the date of peak VLR[#] in December, 2014 was 833.02 million (88.25% of the total wireless subscriber base).

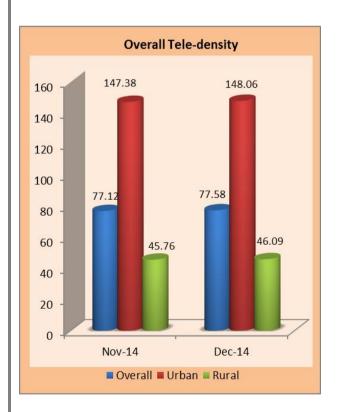
^{*} Based on the population projections from Census data published by the Office of Registrar General & Census Commissioner of India.

[#] VLR is acronym of Visitor Location Register.

I. Total Telephone Subscribers

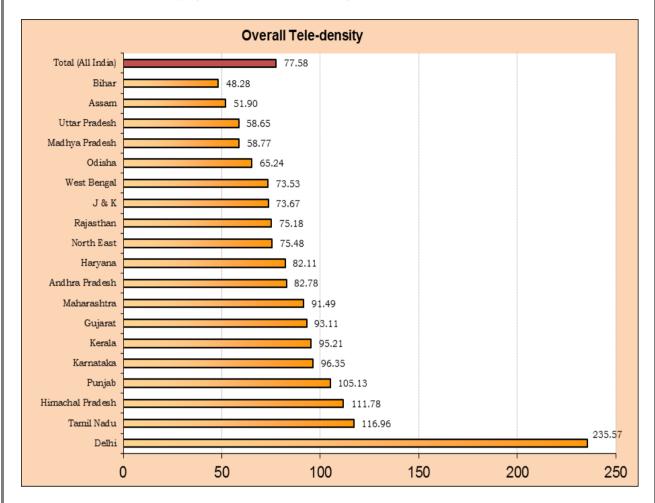
The number of telephone subscribers in India increased from 964.20 million at the end of November, 2014 to 970.97 million at the end of December, 2014, thereby showing a monthly growth rate of 0.70%. The urban subscription increased from 568.72 million at the end of November, 2014 to 572.29 million at the end of December, 2014 and the rural subscription increased from 395.48 million to 398.68 million during the same period. The monthly growth rates of urban and rural subscription were 0.63% and 0.81% respectively.





The overall Tele-density in India increased from 77.12 at the end of November, 2014 to 77.58 at the end of December, 2014. The Urban Teledensity increased from 147.38 to 148.06 and Rural Tele-density increased from 45.76 to 46.09 in the month of December 2014. The shares of urban subscribers and rural subscribers at the end of December, 58.94% and 41.06% 2014 were respectively.

Overall Tele-density (Circle/State Wise) - As on 31st December, 2014



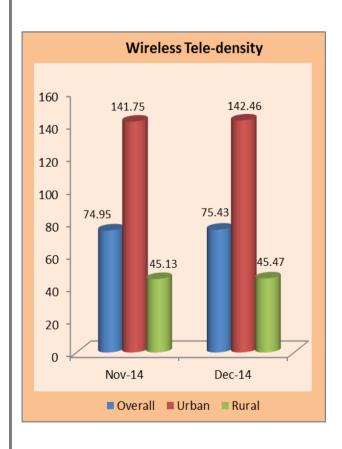
Notes:

- 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). West Bengal includes Kolkata, Maharashtra includes Mumbai and Tamil Nadu includes Chennai.

II. Wireless Subscribers

wireless subscriber Total base increased from 937.06 million at the end of November, 2014 to 943.97 million at the end of December, 2014, thereby registering a monthly growth rate of 0.74%. The Wireless subscription in urban areas increased from 546.99 million at the end of November, 2014 to 550.64 million at the end of December, 2014, and wireless subscription in rural areas increased from 390.06 million to 393.34 million during the same period. The monthly growth rates of urban and rural wireless subscription were 0.67% and 0.84% respectively.

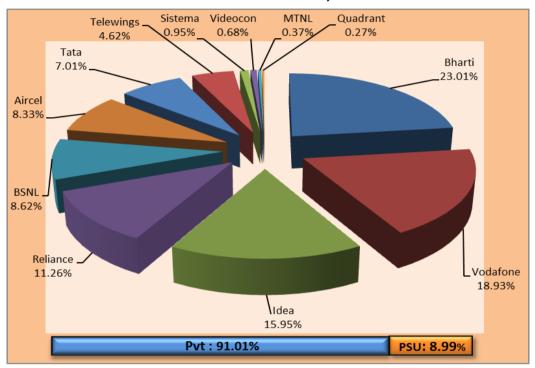




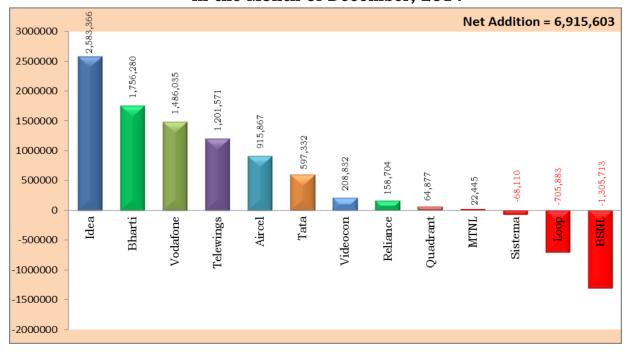
The Wireless Tele-density in India increased from 74.95 at the end of November, 2014 to 75.43 at the end of December, 2014. The Urban Wireless Tele-density increased from 141.75 to 142.46 and Rural Wireless Tele-density increased from 45.13 to 45.47 in the month of December, 2014. The shares of urban and rural wireless subscribers were 58.33% and 41.67% respectively at the end Detailed of December, 2014. statistics of wireless subscriber base is available at Annexure-I.

• As on 31st December, 2014, the private access service providers held 91.01% market share of the wireless subscribers whereas BSNL and MTNL, the two PSUs access service providers, held only 8.99% market share. The graphical representations of access service provider-wise market shares and net additions in wireless subscriber bases are given below:

Access Service Provider-wise Market Shares in the Wireless Subscribers as on 31st December, 2014



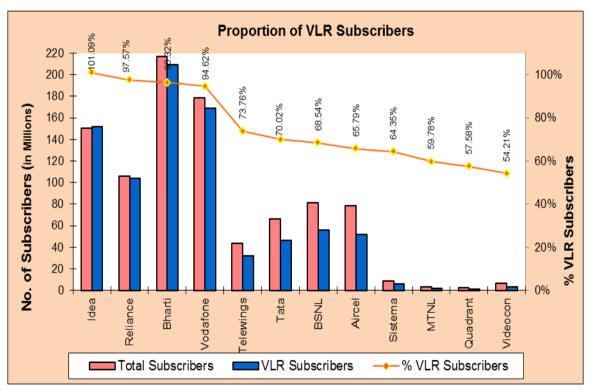
Net Additions in Wireless Subscriber Bases of Access Service Providers in the Month of December, 2014



III. Active Wireless Subscribers (VLR Data)

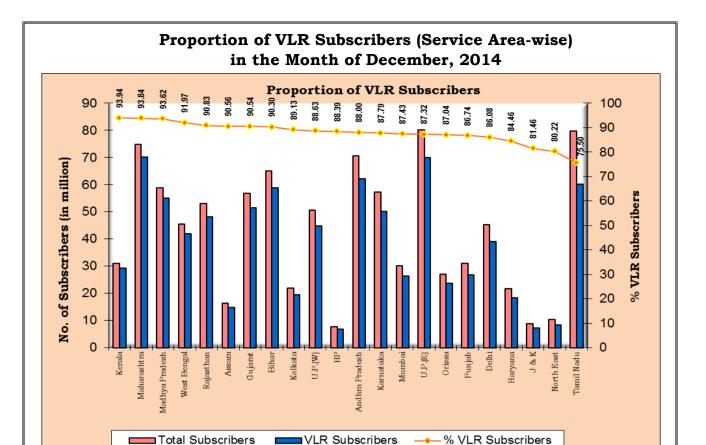
- Out of the total wireless subscriber base (943.97 million), 833.02 million wireless subscribers were active on the date of peak VLR in the month of December, 2014. The proportion of active wireless subscribers was approximately 88.25% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of December, 2014 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

Access Service Provider-wise Proportion of VLR Subscribers In the Month of December, 2014



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.

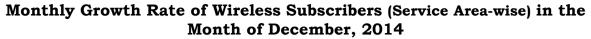


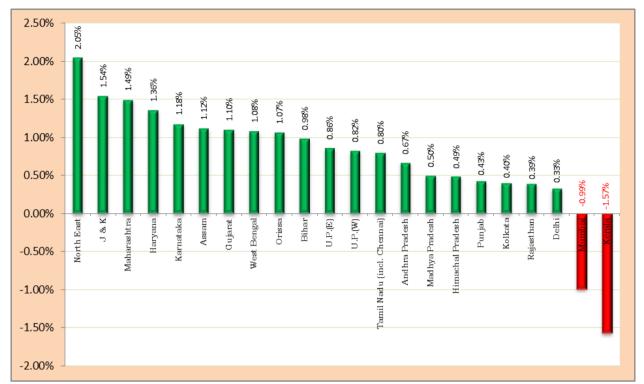
IV. Growth in Wireless Subscribers

Monthly Growth Rate of Wireless Subscribers (Access Service Provider-wise) in the Month of December, 2014



Note: License of M/s Loop Mobile has been expired on 29.11.2014





 North-East service area recorded the highest growth rate in wireless subscribers during the month of December, 2014 whereas Kerala and Mumbai service areas showed decline in subscriber base during the month.

V. Mobile Number Portability

- In the month of December, 2014, a total of 3.49 million subscribers submitted their requests for MNP. With this, the cumulative MNP requests increased from 139.49 million at the end of November, 2014 to 142.98 million at the end of December, 2014.
- In MNP Zone-I (Northern and Western India), the highest number of requests till date have been received in Rajasthan (about 13.90 million) followed by Gujarat (about 11.75 million). In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 16.26 million) followed by Andhra Pradesh (about 13.53 million).

• The status of MNP requests in various service areas is given below:

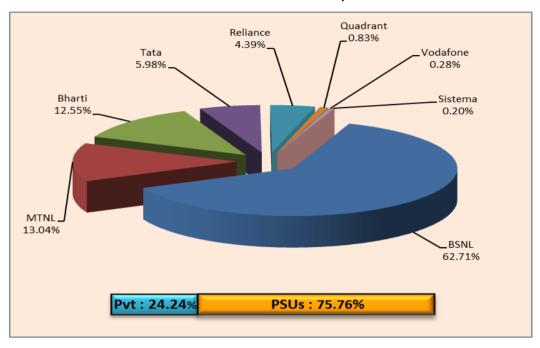
MNP Requests (Serv	vice Area-wise)	at the end of Dece	mber, 2014
Zone -1		Zone	- 2
Service Area	Number of Porting Requests	Service Area	Number of Porting Requests
Delhi	5567179	Andhra Pradesh	13528577
Gujarat	11753074	Assam	469145
Himachal Pradesh	5269077	Bihar	3258136
Haryana	489268	Karnataka	16262180
Jammu & Kashmir	31944	Kerala	5139179
Maharashtra	10849129	Kolkata	3291969
Mumbai	7842530	Madhya Pradesh	8424023
Punjab	4958975	North East	253683
Rajasthan	13900780	Orissa	2923777
Uttar Pradesh - East	7350815	Tamil Nadu	8694709
Uttar Pradesh - West	7219341	West Bengal	5505816
Total	75,232,112	Total	67,751,194
Total (Zone-1 + Zone-2)			142,983,306
Net Addition (in December, 2014)			3,490,277

VI. Wireline Subscribers

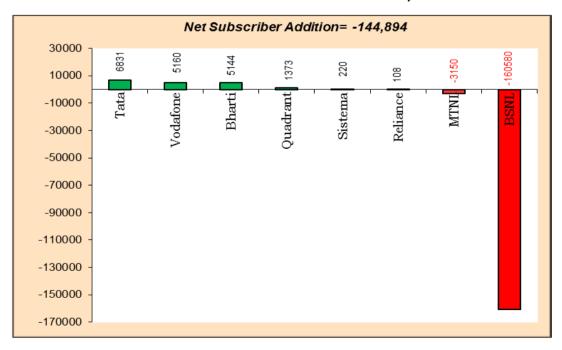
- Wireline subscriber base declined from 27.14 million at the end of November, 2014 to 27.00 million at the end of December, 2014. Net reduction in the wireline subscriber base was 0.14 million at the monthly decline rate of 0.53%. The share of urban and rural subscribers in total wireline subscribers were 80.21% and 19.79% respectively at the end of December, 2014.
- The Overall Wireline Tele-density declined from 2.17 in November, 2014 to 2.16 in December, 2014, with Urban Wireline Tele-density and Rural Wireline Tele-density being 5.60 and 0.62 respectively. BSNL and MTNL, the two PSU access service providers, held 75.76% of the wireline market share. Detailed statistics of wireline subscriber base are available at **Annexure-III**.

• The graphical representations of access service provider-wise market shares in the wireline segment and net additions in wireline subscriber bases in the month of December, 2014 are given below:

Access Service Provider-wise Market Shares in the Wireline Subscribers as on 31st December, 2014



Net Additions/declines in Wireline Subscriber Bases of Access Service Providers in the Month of December, 2014



Note: Vodafone has informed that it offers only Primary Rate Interfaces (PRIs) in wireline service segment.

VII. Category-wise Growth

Circle Category-wise Net Additions in Telephone Subscribers

Circle		in the month of per, 2014	Telephone Subscriber base as on 31st December, 2014					
Category	Wireline segment	Wireless segment	Wireline segment	Wireless segment				
Circle A	-44434	3488959	10709104	339159256				
Circle B	-84961	2010829	7706096	372004806				
Circle C	-8008	1481920	1402472	135439583				
Metro	-7491	-66105	7182433	97367938				
All India	-144,894	6,915,603	27,000,105	943,971,583				

Circle Category-wise Growth Rates in Telephone Subscribers

Circle	Monthly gro (Nov-14 t	wth rate (%) to Dec-14)	Yearly growth rate (%) (Dec-13 to Dec-14)					
Category	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment				
Circle A	-0.41	1.04	-6.06	6.62				
Circle B	-1.09	0.54	-11.95	6.02				
Circle C	-0.57	1.11	-7.03	9.95				
Metro	-0.10	-0.07	-0.71	3.42				
All India	-0.53	0.74	-6.56	6.51				

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, the Circles of Category-A showed the highest net addition and Circles in Category-C showed the highest monthly growth rate of subscriber base in the month of December, 2014. Metro Circles showed the decline in wireless subscriber base in this month.
- In Wireline segment, Circles of Category-B showed the highest net decline and the highest monthly decline rate of subscriber base in the month of December, 2014.

VIII. Broadband (≥ 512 Kbps download)

 As per the reports received from the service providers, the number of broadband subscribers increased from 82.22 Million at the end of November, 2014 to 85.74 million at the end of December, 2014 with monthly growth rate of 4.28%. Segment-wise broadband subscribers and their monthly growth rates are as below:

Segment-wise Broadband Subscribers and Monthly Growth Rates

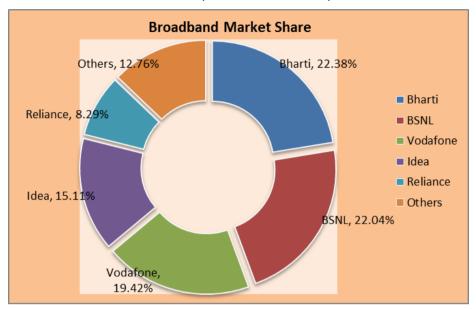
Segment	Broadband s (in mi As on 30 th November, 2014		Monthly growth rate (%)
Wired subscribers	15.23	15.32	0.56
Mobile devices users (Phones and dongles)	66.56	69.99	5.16
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to- Point Radio & VSAT)	0.43	0.43	0.00
Total	82.22	85.74	4.28

• Top five service providers constituted 87.24% market share of total broadband subscribers at the end of December, 2014. These service providers were Bharti Airtel (19.19 million), BSNL (18.90 million), Vodafone (16.65 million), Idea Cellular Ltd* (12.95 million) and Reliance Communications Group* (7.11 million).

^{*}Wireless subscribers with less than 1MB data usage in a month have not been considered as internet/broadband subscribers by Reliance Communication Group and Idea Cellular Ltd.

• 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 31st December, 2014, the top five <u>Wired</u> Broadband Service providers were BSNL (9.98 million), Bharti Airtel (1.41 million), MTNL (1.13 million), Atria Convergence Technologies (0.61 million) and YOU Broadband (0.42 million).
- As on 31st December, 2014, the top five <u>Wireless</u> Broadband Service providers were Bharti Airtel (17.78 million), Vodafone (16.64 million), Idea Cellular (12.95 million), BSNL (8.92 million) and Reliance Communications Group (7.00 million).

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Authorized to issue:

(Manish Sinha) Advisor (F&EA-I)

Note: Information in this Press Release is based on the data provided by the Service Providers.

					Wi	reless Sub	scriber Ba	se						nnexure-l
							Grou	ın					F	Page 1 of 2
	Bh	arti	Relia	ance	Voda	fone	Ta	<u>. </u>	Ide	ea	Air	cel	BS	NI
Circle	Nov-14	Dec-14	Nov-14	Dec-14	Nov-14	Dec-14	Nov-14	Dec-14	Nov-14	Dec-14	Nov-14	Dec-14	Nov-14	Dec-14
Andhra Pradesh	20832753	21035524	5023739	5011972	6871578	6914336	6277277	6269411	13446612	13646780	2286045	2349727	10027260	9931560
Assam	4847105	4879060	2248831	2256672	3031721	3060613	0211211	0200111	697733	728824	4138943	4231441	1287139	1276828
Bihar	23191369	23260424	8616090	8745610	7818709	7880695	2395429	2338168	7514327	7764446	5594229	5674192	2976607	2939455
Delhi	10906638	10877042	8230571	8207377	9422485	9468453	2848558	2836590	5828160	5906714	4636511	4713338	2010001	2000 100
Gujarat	7706133	7789314	4381759	4394383	18318531	18457632	3172546	3214038	10442414	10605791	18563	18563	3196826	3173174
Haryana	2465205	2529358	2004595	2008447	5049313	5061184	2762048	2808972	4367391	4428358	3092	3092	3041779	3067868
Himachal Pradesh	2367923	2384219	1509838	1525691	605423	587941	109456	107689	663239	674632	888475	907274	1443541	1437942
J & K	2864555	2885273	748702	749221	1005737	1050980			446005	466419	2432583	2491798	1248048	1236863
Karnataka	18066466	18359667	5233838	5232449	7547209	7607837	6778703	6894931	7611077	7803337	2906019	2923297	6696468	6730017
Kerala	3836861	3959875	1751021	1756309	6979885	7058734	1704306	1721790	9402654	9494734	918	918	7552801	6745205
Kolkata	4050547	4048302	3581171	3544409	4705244	4747270	2914239	2902369	1547395	1635759	3587634	3634662	816192	802446
Madhya Pradesh	11041339	11084420	12374677	12165082	5543528	5726055	4670372	4755347	18747309	18862565	22694	22694	3855627	3833287
Maharashtra	10748683	10983519	4930324	4967266	16702867	16894186	6530480	6637496	20732134	21101531	1730596	1749377	5369653	5291489
Mumbai	4948556	4997718	5657339	5748946	8217081	8348017	3598669	3627338	3813474	3898068	2306275	2309076		
North East	3236638	3312390	847626	841141	1268466	1280728			412397	428926	2743401	2863557	1547946	1535990
Orissa	8470969	8601791	3907766	3916643	3572613	3583658	2300859	2326360	1271268	1327635	3856863	3909753	3450228	3451231
Punjab	7681798	7634179	3076610	3086923	4823505	4823485	2553967	2618636	6053805	6091118	963180	967167	3189559	3188732
Rajasthan	16774527	16900399	6231195	6232758	10443053	10517333	1835914	1832552	6430333	6525030	5410870	5448995	3597957	3461435
Tamil Nadu (incl. Chennai)	15246007	15341821	6042353	6093994	13855762	13961596	5826456	5965594	3763883	3984325	23571938	23620644	9870801	9855057
U.P.(E)	17708666	17793314	7991740	7922174	16815076	16903807	4528077	4576024	8617594	8750797	5962635	6007873	8086669	8039027
U.P.(W)	7220377	7203729	5122960	5167290	10374515	10424299	3829136	3848265	12406274	12535987	151100	164141	3468334	3438380
West Bengal	11245647	11353704	6622997	6719689	14217495	14316992	932744	884998	3737214	3874282	4545114	4661966	1966795	1948531
Total	215458762	217215042	106135742	106294446	177189796	178675831	65569236	66166568	147952692	150536058	77757678	78673545	82690230	81384517
Net Addition		1756280		158704		1486035		597332		2583366		915867		-1305713

					Wire	eless Sub	scriber E	3ase						Δ	nnexure-
						_									Page 2 of
					-	Group			1					-	
Circle	МТ		Telew	/ings	Sistema		Loop*		Videocon		Quadrant		Total		Net
	Nov-14	Dec-14	Nov-14	Dec-14	Nov-14	Dec-14	Nov-14	Dec-14	Nov-14	Dec-14	Nov-14	Dec-14	Nov-14	Dec-14	Addition
Andhra Pradesh			5323081	5398219									70088345	70557529	469184
Assam		<u> </u>	<u></u>	<u> </u>									16251472	16433438	18196
Bihar			6378866	6517410									64485626	65120400	63477
Delhi	2320669	2325730			1013358	1019213							45206950	45354457	14750
Gujarat			6604135	6762644	185525	194843			2151209	2185886			56177641	56796268	61862
Haryana									1762459	1839772			21455882	21747051	29116
Himachal Pradesh	T												7587895	7625388	3749
J & K													8745630	8880554	13492
Karnataka					1674941	1627631							56514721	57179166	66444
Kerala			ı		402289	396432							31630735	31133997	-49673
Kolkata			ı		669839	644162							21872261	21959379	8711
Madhya Pradesh		\Box	Ī						2329924	2426766			58585470	58876216	29074
Maharashtra			7019619	7241912									73764356	74866776	110242
Mumbai	1107555	1124939					705883						30354832	30054102	-30073
North East													10056474	10262732	20625
Orissa	T								<u> </u>				26830566	27117071	28650
Punjab											2446528	2511405	30788952	30921645	13269
Rajasthan			i	I	2199394	2213549							52923243	53132051	20880
Tamil Nadu (incl. Chenna	ıai)		ı		948034	936486							79125234	79759517	63428
U.P.(E)			9742641	10144872									79453098	80137888	68479
U.P.(W)			7361021	7565877	195895	194565							50129612	50542533	41292
West Bengal			ı	I	1758979	1753263							45026985	45513425	4864
Total	3428224	3450669	42429363	43630934	9048254	8980144	705883	0	6243592	6452424	2446528	2511405	937055980	943971583	691560
Net Addition	†	22445	i	1201571		-68110		-705883		208832		64877		6915603	

^{*}License of M/s Loop Mobile has been expired on 29.11.2014.

		Proportion	of VLR o	n the dat	e of Peak	VLR in	the mont	h of Dec-	14 (%)			Ann	exure-I
Circle	Aircel	Bharti	BSNL	Quadrant	ldea*	MTNL	Reliance	Sistema	Tata	Telewings	Videocon	Vodafone	Total
Andhra Pradesh	70.14	99.16	62.30		100.94		98.01		75.86	71.91		87.77	88.
Assam	83.34	95.03	82.21		93.07		92.64					94.77	90.
Bihar	72.99	97.47	63.92		100.39		98.93		54.47	74.60		95.53	90
Delhi	69.45	85.13			92.28	49.45	98.54	48.36	57.21			102.50	86
Gujarat	55.23	96.92	85.80		105.25		99.12	78.18	67.92	69.97	51.30	94.45	90
Haryana	10.48	96.92	52.18		99.63		97.08		75.40		52.02	96.39	84
Himachal Pradesh	58.70	96.57	79.18		105.73		95.49		32.71			95.38	88
J&K	79.07	95.11	72.88		91.42		60.42					70.35	81
Karnataka	59.66	98.94	59.33		101.20		99.20	64.67	78.61			88.54	87
Kerala	983.99	98.66	84.06		104.43		95.03	60.69	78.10			91.99	93
Kolkata	73.68	94.99	87.95		87.08		99.13	93.52	73.18			98.54	89
Madhya Pradesh	2.30	94.97	79.45		105.56		95.66		74.51		58.49	87.97	93
Maharashtra	64.38	99.07	85.58		103.51		99.18		73.68	73.54		99.07	93
Mumbai	64.51	95.04			93.78	81.13	99.09		70.87			86.27	87
North East	64.18	97.32	65.07		84.51		86.59					84.42	80
Orissa	62.56	96.89	83.15		94.73		99.05		67.32			90.64	87
Punjab	49.21	94.02	75.27	57.58	101.71		96.61		62.69			93.36	86
Rajasthan	65.35	95.59	76.76		103.27		98.44	59.99	93.56			94.79	90
Tamil Nadu (incl. Chennai)	57.95	96.12	49.45		78.50		94.88	68.17	64.68			96.74	75
U.P. (E)	67.19	97.78	57.42		103.56		99.06		62.95	76.29		96.98	87
U.P. (W)	72.71	92.49	69.47		99.17		99.11	55.99	65.18	74.54		94.14	88
West Bengal	73.87	96.71	79.62		101.73		98.95	66.33	31.68			96.74	91
Total	65.79	96.32	68.54	57.58	101.09	59.78	97.57	64.35	70.02	73.76	54.21	94.62	88

^{*}Peak VLR figures in some circles of Idea Cellular Ltd., M/s Aircel Ltd. and M/s Vodafone India Ltd are more than their HLR figures due to a large number of inroamers.

						Wireli	ine Sub	scriber	Base									Ann	ex ure-II
	•							Group											
Circle	BS	SNL	M'	rnl	Bh	arti	arti Reliance			Tata Quadrant		drant	Sist	tema	Vodafone		Total		
	Nov-14	Dec-14	Nov-14	Dec-14	Nov-14	Dec-14	Nov-14	Dec-14	Nov-14	Dec-14	Nov-14	Dec-14	Nov-14	Dec-14	Nov-14	Dec-14	Nov-14	Dec-14	Net Addition
Andhra Pradesh	1552976	1543551			119635	119039	82251	81569	163871	162478					8,610	8,790	1927343	1915427	-1191
Assam	177874	176841													1,260	1,350	179134	178191	-94
Bihar	355375	354639					6100	6100	12058	12228					660	780	374193	373747	-44
Delhi			1604326	1605117	1200459	1197003	181063	181262	117080	119194					19,320	20,490	3122248	3123066	818
Gujarat	1352573	1342812			60609	60479	82711	82293	80417	80859					1,890	2,250	1578200	1568693	-950
Haryana	399,279	377,796			16414	16521	4916	4916	32156	32960					60	90	452825	432283	-2054
Himachal Pradesh	225,258	221,676					4847	4847	2903	2885					0	90	233008	229498	-3510
J & K	158,018	156,472															158018	156472	-154
Karnataka	1436332	1428963			518503	527281	127025	128613	174664	175894					6,060	6,450	2262584	2267201	461
Kerala	2609900	2580135			48747	49204	38142	37301	14473	14631					510	570	2711772	2681841	-2993
Kolkata	790129	785053			105673	106355	80620	80650	45390	44839					2700	3180	1024512	1020077	-4435
Madhya Pradesh	829556	829250			229269	229809	22388	22597	18649	18882					240	270	1100102	1100808	706
Maharashtra	1752721	1730570			66832	66655	82593	81756	268398	269800					9,060	9,360	2179604	2158141	-21463
Mumbai			1920388	1916447	350807	348587	236986	237094	524693	525642					10,290	11,520	3043164	3039290	-3874
North East	129,599	128,710													120	120	129719	128830	-889
Orissa	325349	324412					2952	2952	7537	7800					570	570	336408	335734	-674
Punjab	802597	794702			92395	92474	20679	20565	16762	16990	223602	224975			390	510	1156425	1150216	-6209
Rajasthan	731006	722587			39663	39951	23232	23434	9830	9946			54734	54954	1,680	1,710	860145	852582	-7560
Tamil Nadu (incl. Chennai)	2107111	2098991			458987	459858	143257	143863	90422	90600					6030	6330	2805807	2799642	-616
U.P.(E)	428535	415224			55007	55108	38569	38656	15639	15845					870	1,020	538620	525853	-1276
U.P.(W)	471972	469000			20278	20098	6305	6274	9579	9815					360	390	508494	505577	-291
West Bengal	457121	451317					1899	1901	3624	3688					30	30	462674	456936	-5738
Total	17093281	16932701	3524714	3521564	3383278	3388422	1186535	1186643	1608145	1614976	223602	224975	54734	54954	70710	75870	27144999	27000105	-144894
Net Addition		-160580		-3150		5144		108		6831		1373		220		5160		-144894	

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 and numbers available in VLR.

The VLR data calculated here is on the basis of active subscribers in VLR on the date of Peak 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.