

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 11th May, 2023

(www.trai.gov.in)

Highlights of Telecom Subscription Data as on 28th February, 2023

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Broadband Subscribers (Million)	806.51	32.82	839.33
Urban Telephone Subscribers (Million)	626.37	25.79	652.16
Net Addition in February, 2023 (Million)	-0.76	0.20	-0.56
Monthly Growth Rate	-0.12%	0.79%	-0.09%
Rural Telephone Subscribers (Million)	515.60	2.17	517.77
Net Addition in February, 2023 (Million)	-0.30	0.035	-0.26
Monthly Growth Rate	-0.06%	1.65%	-0.05%
Total Telephone Subscribers (Million)	1141.96	27.97	1169.93
Net Addition in February, 2023 (Million)	-1.06	0.24	-0.82
Monthly Growth Rate	-0.09%	0.85%	-0.07%
Overall Tele-density*(%)	82.38%	2.02%	84.40%
Urban Tele-density*(%)	128.41%	5.29%	133.70%
Rural Tele-density*(%)	57.39%	0.24%	57.63%
Share of Urban Subscribers	54.85%	92.23%	55.74%
Share of Rural Subscribers	45.15%	7.77%	44.26%

- ❖ In the month of February, 2023, 11.17 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 796.84 million at the end of January-23 to 808 million at the end of February-23, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in February, 2023 was 1027.59 million.

Note:

- Information in this Press Release is based on the data provided by the Service Providers
- * Based on the projection of population from the 'Report of the Technical Group on Population Projections for India and States 2011 - 2036', which is available under the link https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload_compressed_0.pdf
- # VLR is acronym of Visitor Location Register. The dates of peak VLR for various TSPs are different in different service areas.

I. Broadband Subscriber

- As per the information received from 1,006 operators in February, 2023 in comparison to 989 Operator in January 2023, the total Broadband Subscribers increased from 839.18 million at the end of January-23 to 839.33 million at the end of February-23 with a monthly growth rate of 0.02%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

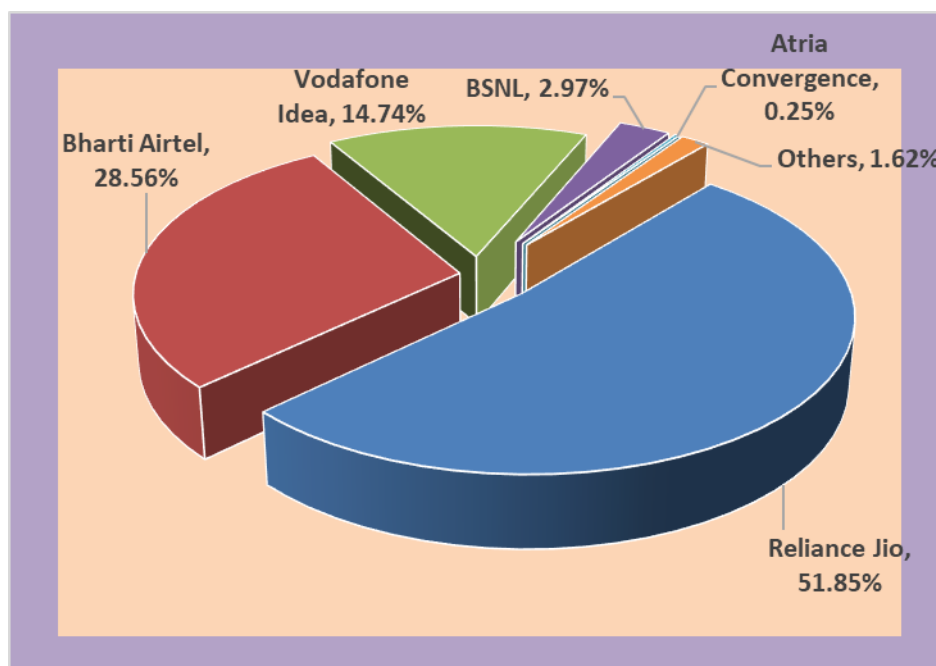
Segment-wise Broadband Subscribers and Monthly Growth Rate in the month of February, 2023

Segment	Broadband subscribers (in million)		Monthly growth rate in the month of February, 2023
	As on 31 st January, 2023	As on 28 th February, 2023	
Wired subscribers	33.11	32.82	-0.86%
Mobile devices users (Phones and dongles)	804.90	805.38	0.06%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	1.17	1.12	-3.97%
Total	839.18	839.33	0.02%

- Top five service providers constituted 98.38% market share of the total broadband subscribers at the end of February-23. These service providers were Reliance Jio Infocomm Ltd 435.20 million, Bharti Airtel 239.70 million, Vodafone Idea 123.74 million, BSNL 24.92 million and Atria Convergence 2.14 million.

- 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 28th February, 2023**

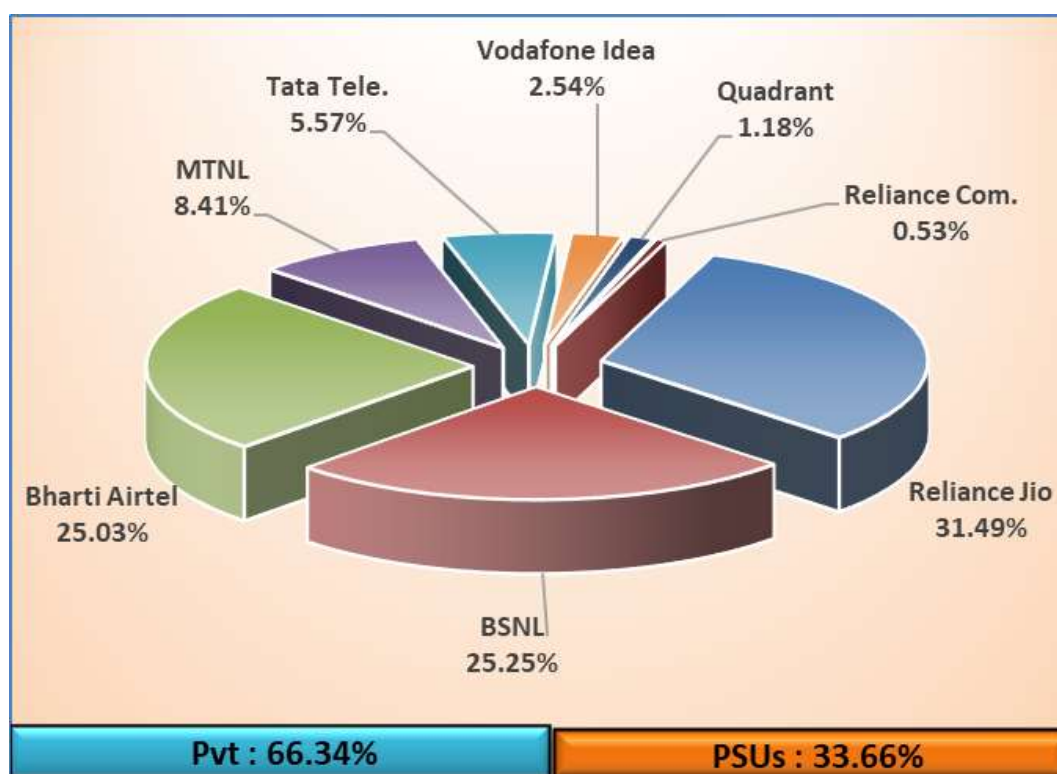


- As on 28th February, 2023, the top five Wired Broadband Service providers were Reliance Jio Infocomm Ltd 8.02 million, Bharti Airtel 5.98 million, BSNL 3.54 million, Atria Convergence Technologies 2.14 million and Hathway Cable & Datacom 1.13 million.
- As on 28th February, 2023, the top five Wireless Broadband Service providers were Reliance Jio Infocom Ltd 427.18 million, Bharti Airtel 233.74 million, Vodafone Idea 123.74 million, BSNL 21.38 million and Intech Online Pvt. Ltd. 0.23 million.

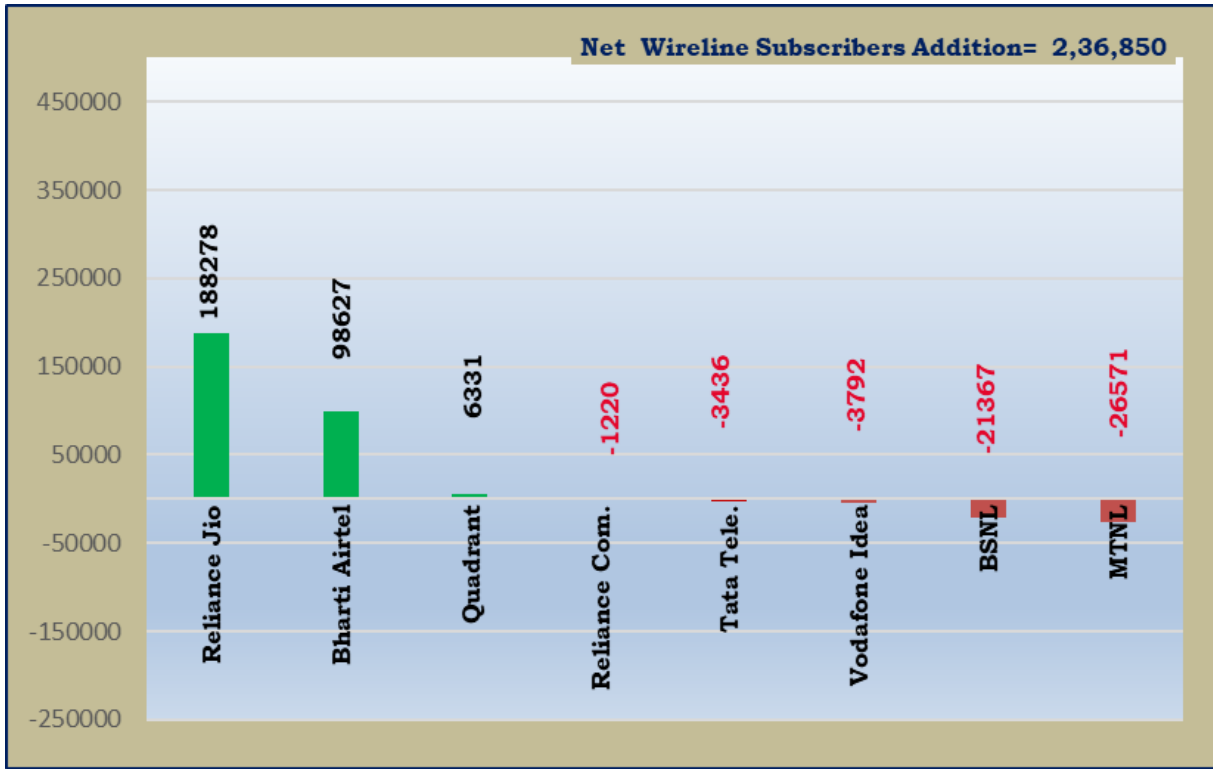
II. Wireline Subscribers

- Wireline subscribers increased from 27.73 million at the end of January-23 to 27.97 million at the end of February-23. Net increase in the wireline subscriber base was 0.24 million with a monthly growth rate of 0.85%. The share of urban and rural subscribers in total wireline subscribers were 92.23% and 7.77% respectively at the end of February, 2023.
- The Overall Wireline Tele-density in India increased from 2% at the end of January-23 to 2.02% at the end of February-23. Urban and Rural Wireline Tele-density were 5.29% and 0.24% respectively during the same period.
- BSNL and MTNL, the two PSU access service providers, held 33.66% of the wireline market share as on 28th February, 2023. Detailed statistics of wireline subscriber base are available at **Annexure-I**.

Access Service Provider-wise Market Share of Wireline Subscribers as on 28th February, 2023



Access Service Provider-wise Net Addition/Decline in Wireline Subscribers during the month of February, 2023



III. Wireless subscriber

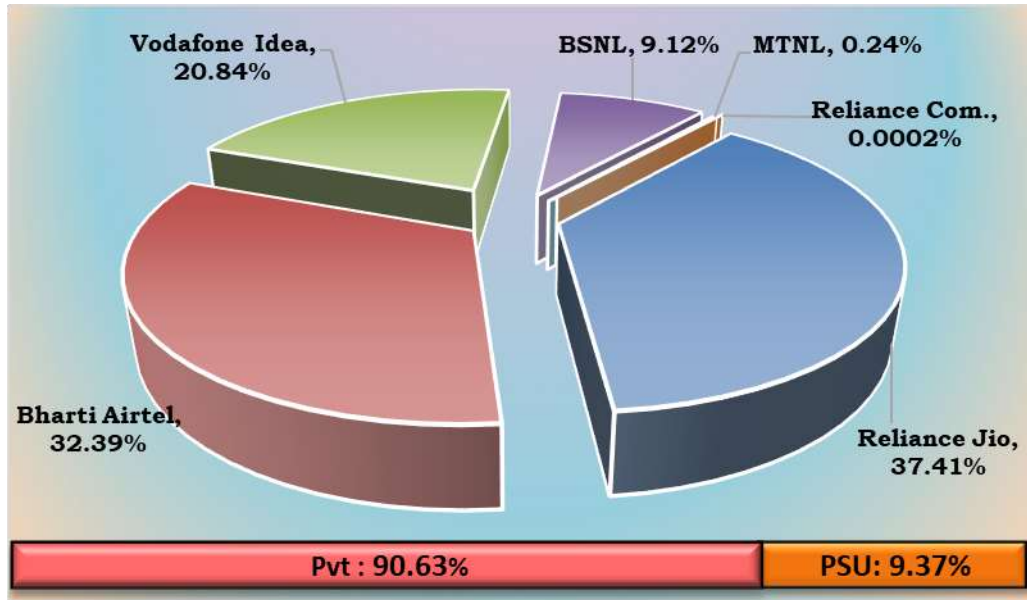
• Total wireless subscribers decreased from 1,143.02 million at the end of January-23, to 1,141.96 million at the end of February-23, thereby registering a monthly decline rate of 0.09%. Wireless subscription in urban areas decreased from 627.13 million at the end of January-23 to 626.37 million at the end of February-23 and, wireless subscription in rural areas also decreased from 515.89 million to 515.60 million during the same period. Monthly decline rates of urban and rural wireless subscription were 0.12% and 0.06% respectively.



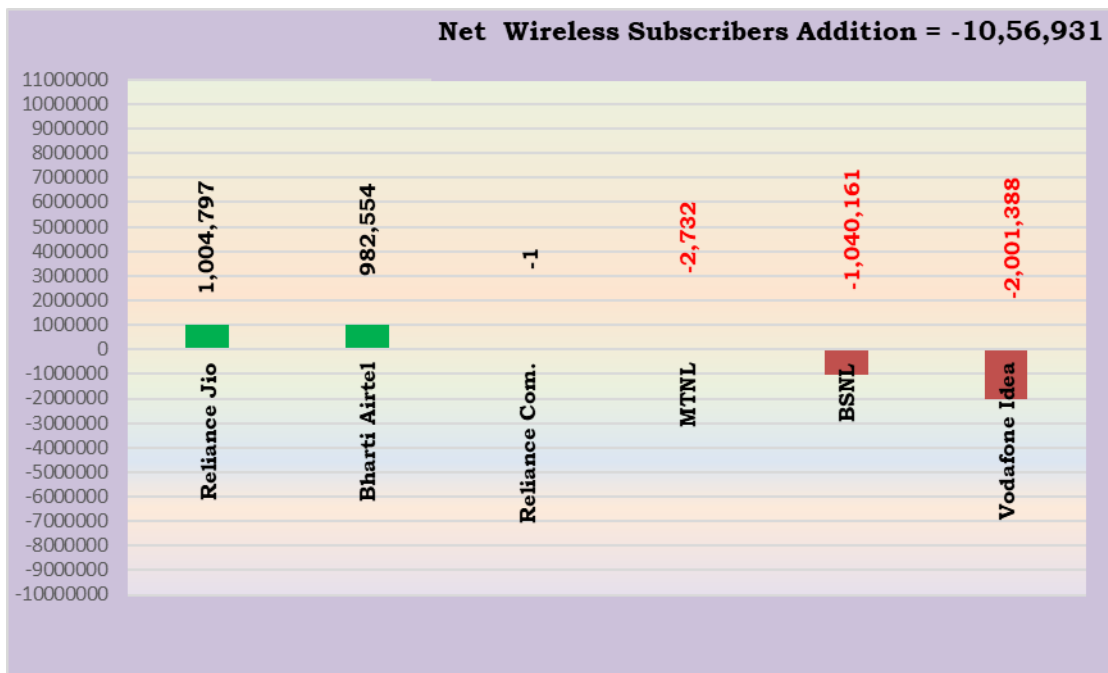
• The Wireless Tele-density in India decreased from 82.52% at the end of January-23 to 82.38% at the end of February-23. The Urban Wireless Tele-density decreased from 128.76% at the end of January-23 to 128.41% at the end of February-23 and Rural Tele-density also decreased from 57.44% to 57.39% during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.85% and 45.15% respectively at the end of February-23. Detailed statistics of wireless subscriber base is available at **Annexure-II.**

- As on 28th February, 2023, the private access service providers held 90.63% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 9.37%.
- 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, 2023



Net Addition in Wireless Subscribers of Access Service Providers in the month of February, 2023



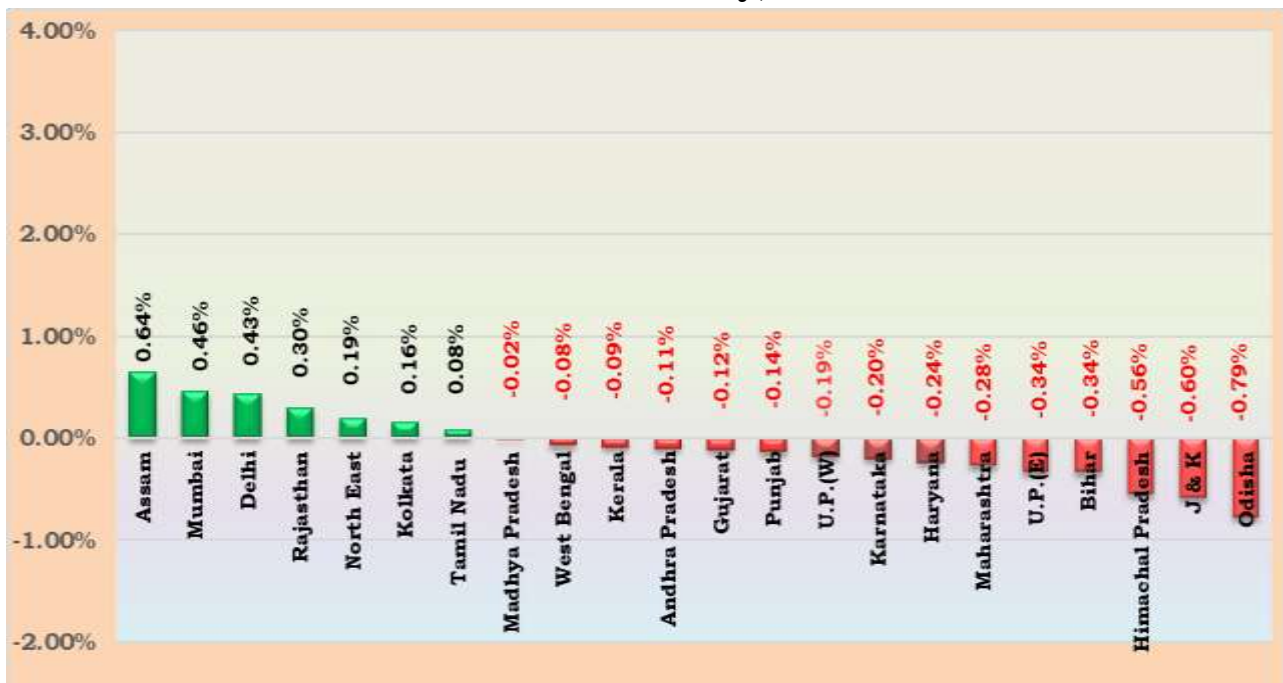
Growth in Wireless Subscribers

Access Service Provider-wise Monthly Growth Rate of Wireless Subscribers in the month of February, 2023



Note: BSNL includes its Virtual Network Operator (VNO).

Service Area-wise Monthly Growth Rate of Wireless Subscribers in the month of February, 2023



- Except Assam, Mumbai, Delhi, Rajasthan, North East, Kolkata and Tamil Nadu areas, all other service areas have showed decline rate in their wireless subscribers during the month of February-23.

IV. Total Telephone Subscribers

- The number of telephone subscribers in India decreased from 1,170.75 million at the end of January-23 to 1,169.93 million at the end of February-23, thereby showing a monthly decline rate of 0.82%. Urban telephone subscription decreased from 652.72 million at the end of January-23 to 652.16 million at the end of February-23 and the rural subscription also decreased from 518.03 million to 517.77 million during the same period. The monthly decline rates of urban and rural telephone subscription were 0.09% and 0.05% respectively during the month of February-23.



- The overall Tele-density in India decreased 84.52% at the end of January-23 to 84.40% at the end of February-23. The Urban Tele-density decreased from 134.02% at the end of January-23 to 133.70% at the end of February-23 and Rural Tele-density also decreased from 57.68% to 57.63% during the same period. The share of urban and rural subscribers in total number of telephone subscribers at the end of February-23 was 55.74% and 44.26% respectively.

Overall Tele-density (LSA Wise) – As on 28th February, 2023



- As may be seen in the above chart, eight LSA have less tele-density than the all India average tele-density at the end of February-23. Delhi service area has maximum tele-density of 273.60% and the Bihar service area has minimum tele-density of 54.86% at the end of February-23.

Notes: -

- Population data/projections are available state wise only.
- Tele-density figures are derived from the telephone subscriber data provided by the access service providers and the projection of population from the "Report of the Technical Group on Population Projections for India and States 2011 – 2036, which is available under the link https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload_compressed_0.pdf
- 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).
- Data/information for West Bengal includes Kolkata, Maharashtra includes Mumbai and Uttar Pradesh includes UPE & UPW service area(s).
- 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.

V. Category-wise Growth in subscriber base

Circle Category-wise Net Additions in Telephone Subscribers in the month of February 2023

Circle Category	Net additions in the month of February, 2023		Telephone Subscriber base as on 28 th February, 2023	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	70,840	-4,97,996	1,06,89,335	38,44,87,903
Circle B	1,13,517	-4,77,427	70,62,749	46,30,11,400
Circle C	3,4097	-5,08,731	20,36,560	18,15,05,716
Metro	18,396	4,27,223	81,80,179	11,29,59,550
All India	2,36,850	-10,56,931	2,79,68,823	1,14,19,64,569

Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of February 2023

Circle Category	Monthly growth rate (%) (January-23 to February-23)		Yearly growth rate (%) (February-22 to February-23)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	0.67%	-0.13%	15.77%	-1.08%
Circle B	1.63%	-0.10%	23.96%	-1.32%
Circle C	1.70%	-0.28%	38.57%	2.63%
Metro	0.23%	0.38%	4.73%	2.22%
All India	0.85%	-0.09%	15.52%	-0.29%

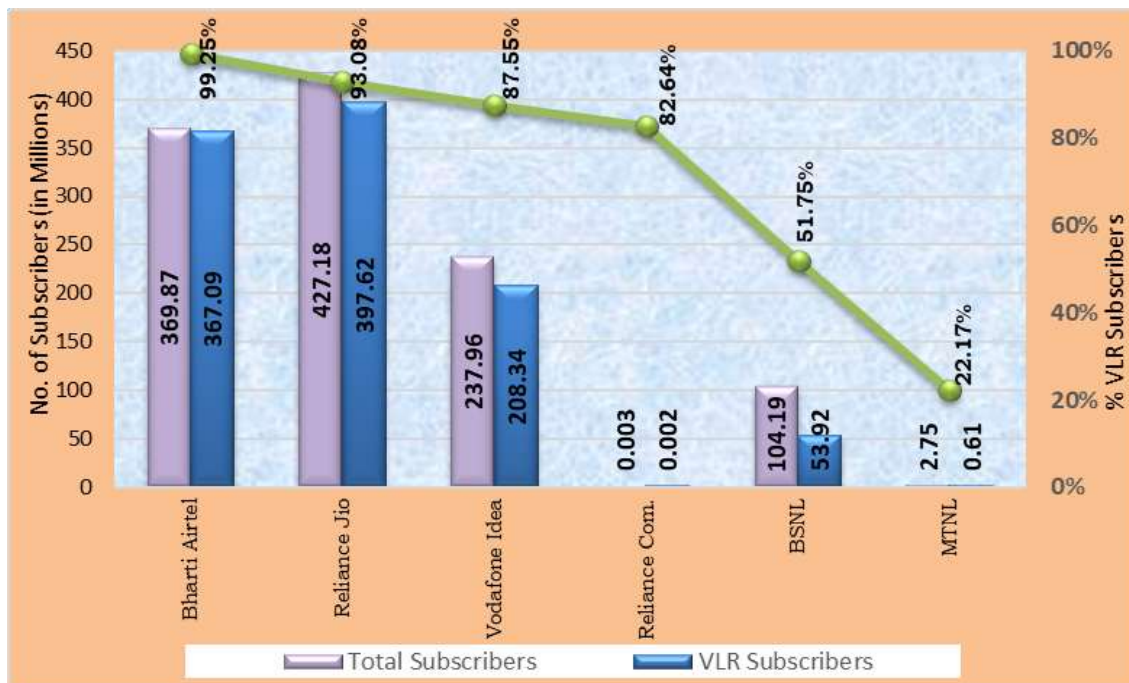
Note: Circle Category-Metro includes Delhi, Mumbai and Kolkata. Data for Chennai has been included in Circle Category-A, as part of TamilNadu.

- As can be seen in the above tables, in wireless segment, on monthly basis except Circle 'Metro' all other circles have registered decline rate in their subscriber base. On yearly basis, except Circle 'A' and Circle 'B' other circles have registered growth rate in their subscriber base.
- In Wireline segment both on monthly and yearly basis, all circles have registered growth rate in their subscriber base.

VI. Active Wireless Subscribers (VLR Data)

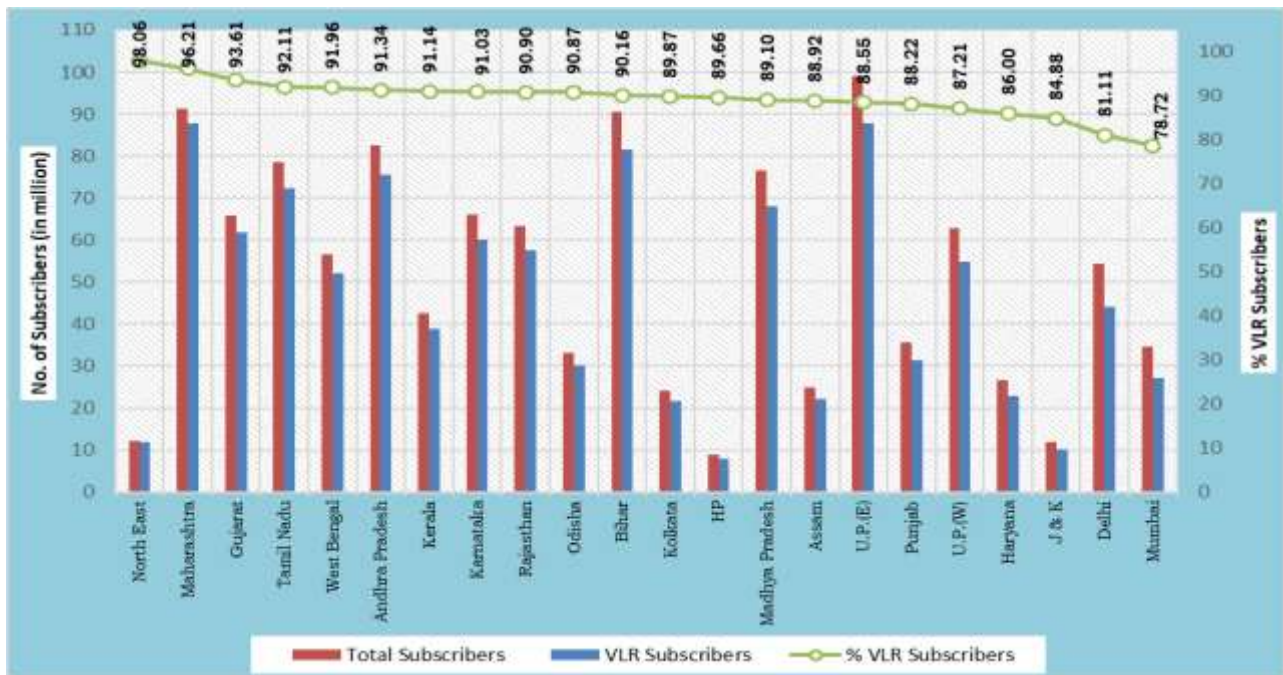
- Out of the total 1,141.96 million wireless subscribers, 1027.59 million wireless subscribers were active on the date of peak VLR in the month of February-23. The proportion of active wireless subscribers was approximately 89.98% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of February-23 is available at **Annexure-III** 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, 2023



- Bharti Airtel has the maximum proportion 99.25% of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of peak VLR in the month of February-23 and MTNL has the minimum proportion of VLR 22.17% of its HLR during the same period.

Service Area wise percentage of VLR Subscribers in the month of February, 2023



VII. 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 February-23, a total of 11.17 million requests were received for MNP. Out of total 11.17 million new requests, 6.44 million requests received from Zone-I and 4.72 million requests received from Zone-II. The cumulative MNP requests increased from 796.84 million at the end of January-23 to 808 million at the end of February-23, since the implementation of MNP.
- In MNP Zone-I (Northern and Western India), the highest number of requests till date have been received in Uttar Pradesh-East (about 69.25 million) followed by Maharashtra (about 66.74 million) service area.

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Madhya Pradesh (about 61.12 million) followed by Karnataka (about 59.32 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)	
	Jan-23	Feb-23		Jan-23	Feb-23
Delhi	38.23	38.79	Andhra Pradesh	57.01	57.58
Gujarat	54.23	55.00	Assam	5.66	5.74
Haryana	25.78	26.11	Bihar	41.72	42.49
Himachal Pradesh	3.51	3.56	Karnataka	58.78	59.32
Jammu & Kashmir	1.83	1.86	Kerala	20.46	20.64
Maharashtra	65.82	66.74	Kolkata	15.52	15.68
Mumbai	29.54	29.79	Madhya Pradesh	60.10	61.12
Punjab	28.08	28.38	North East	1.91	1.92
Rajasthan	56.28	56.91	Odisha	14.65	14.80
U.P.(East)	67.76	69.25	Tamil Nadu	54.21	54.71
U.P.(West)	52.82	53.93	West Bengal	42.92	43.67
Total	423.89	430.33	Total	372.95	377.67
Total (Zone-1 + Zone-2)				796.84	808.00
Net Addition (February, 2023)			11.17 million		

Contact details in case of any clarification: -

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Secretary, TRAI

Wireline Subscriber Base

Annexure-I

Service Area	BSNL		MTNL		Bharti Airtel		Reliance Com.		Tata Tele.		Quadrant		Vodafone Idea		Reliance Jio		Total		Net Addition
	Jan-23	Feb-23	Jan-23	Feb-23	Jan-23	Feb-23	Jan-23	Feb-23	Jan-23	Feb-23	Jan-23	Feb-23	Jan-23	Feb-23	Jan-23	Feb-23	Jan-23	Feb-23	
Andhra Pradesh	676711	674237			432127	442997	19774	19706	155001	153383			71395	71275	1006135	1027443	2361143	2389041	27898
Assam	109,801	110,412			17155	17842	0	0	0	0			2640	2640	143445	146965	273041	277859	4818
Bihar	173,997	178,415			69483	72225	9	9	8863	8869			2050	2050	403333	413672	657735	675240	17505
Delhi	0	0	1077185	1057704	1909801	1919716	20880	20721	139890	139382			89265	87725	811780	823398	4048801	4048646	-155
Gujarat	337392	334832			198028	200357	2798	2796	76156	75393			59236	59146	502586	524632	1176196	1197156	20960
Haryana	203055	206370			99606	102658	0	0	30409	29872			420	420	98701	101141	432191	440461	8270
Himachal Pradesh	87397	87706			4023	4239	0	0	1536	1525			90	90	46339	47163	139385	140723	1338
J & K	88064	87250			76123	78056	0	0	0	0			30	30	176653	179221	340870	344557	3687
Karnataka	885555	872913			1032470	1046599	19684	19476	219276	217286			154892	154262	750068	765657	3061945	3076193	14248
Kerala	1015120	1017237			88318	89048	3614	3613	18819	18270			6830	7130	221513	227949	1354214	1363247	9033
Kolkata	207136	203904			183549	185127	4411	4392	48288	48186			13805	14655	396811	403527	854000	859791	5791
Madhya Pradesh	262657	262966			422390	428400	14	14	13486	19059			35245	34445	532287	543702	1266079	1288586	22507
Maharashtra	616132	599238			362702	370682	9537	9506	210306	210075			25961	23931	219803	223338	1444441	1436770	-7671
Mumbai			1301548	1294458	529245	536276	43861	43103	471375	469847			170770	172520	742183	755538	3258982	3271742	12760
North East	75530	73852			0	0	0	0	0	0			510	510	132464	136289	208504	210651	2147
Odisha	173536	173306			0	0	4	4	8348	8303			3960	3960	197080	201957	382928	387530	4602
Punjab	341870	349276			217250	221537	1899	1898	14680	14726	324295	330626	2210	2210	247640	255213	1149844	1175486	25642
Rajasthan	278460	278156			187757	192261	3598	3568	12852	12809			15325	15325	316914	322417	814906	824536	9630
Tamil Nadu	971304	965940			786764	797867	18084	18141	116141	115108			38088	36698	644389	656421	2574770	2590175	15405
U.P.(E)	134784	133952			166413	169656	24	23	8023	7903			16660	16600	397321	406191	723225	734325	11100
U.P.(W)	177357	177982			105505	107481	8	8	4906	4926			3558	3526	435445	445591	726779	739514	12735
West Bengal	268777	275324			14614	18926	70	71	2580	2577			120	120	195833	199576	481994	496594	14600
Total	7084635	7063268	2378733	2352162	6903323	7001950	148269	147049	1560935	1557499	324295	330626	713060	709268	8618723	8807001	27731973	27968823	236850
Net Addition		-21367		-26571		98627		-1220		-3436		6331		-3792		188278		236850	
Rural Subscribers	1929125	1961252	34	34	0	0	393	362	29813	29763	19795	19489	0	0	160028	163587	2139188	2174487	35299

Wireless Subscriber Base

Annexure-II

Circle	Bharti Airtel (including Tata Tele.)		Reliance Com.		Vodafone Idea		BSNL		BSNL (VNO's)		MTNL		Reliance Jio		Total		Net Addition
	Jan-23	Feb-23	Jan-23	Feb-23	Jan-23	Feb-23	Jan-23	Feb-23	Jan-23	Feb-23	Jan-23	Feb-23	Jan-23	Feb-23	Jan-23	Feb-23	
Andhra Pradesh	32294796	32382829			12000139	11892711	8157253	8083648					30242362	30247101	82694550	82606289	-88261
Assam	10,745,881	10,876,301			2032031	2014311	3318740	3325153					8718780	8759422	24815432	24975187	159755
Bihar	39,833,563	39,915,814			9042859	8546733	5748958	5769604					36193068	36277336	90818448	90509487	-308961
Delhi	16959252	17064890	194	194	16918702	16892598					1690250	1689986	18589977	18742893	54158375	54390561	232186
Gujarat	11403475	11419809	47	47	22448214	22241710	5092727	5058071					27048203	27196049	65992666	65915686	-76980
Haryana	6509330	6515872	11	11	7437444	7379979	4627486	4577797					8060101	8096274	26634372	26569933	-64439
Himachal Pradesh	3409078	3405349	92	92	485406	480781	1604896	1580346					3319408	3303037	8818880	8769605	-49275
J & K	5765145	5750880	0	0	377611	367587	828725	827909					5071135	5024575	12042616	11970951	-71665
Karnataka	31221030	31223176	593	593	7402281	7321249	6328383	6193288					21256958	21335296	66209245	66073602	-135643
Kerala	7967440	7986929	114	114	14660944	14593288	9928898	9927452					10017233	10026710	42574629	42534493	-40136
Kolkata	5690192	5702909	0	0	5878598	5865376	2174015	2178779					10309622	10342817	24052427	24089881	37454
Madhya Pradesh	15247422	15336981	0	0	17401404	17262577	5412656	5357338					38362105	38451661	76423587	76408557	-15030
Maharashtra	21035277	21075856	0	0	24809241	24488946	6470806	6385821					39268021	39373287	91583345	91323910	-259435
Mumbai	9768812	9839424	1015	1014	11240673	11370449					1065345	1062877	12245680	12205344	34321525	34479108	157583
North East	5859987	5895394	0	0	951893	945983	1,370,251	1,367,171					4025370	4022467	12207501	12231015	23514
Odisha	11308362	11165546	29	29	1645039	1638594	6,306,844	6,222,700					14051296	14022602	33311570	33049471	-262099
Punjab	12265174	12287266	106	106	7308781	7259383	4,845,070	4,796,164					11298327	11326102	35717458	35669021	-48437
Rajasthan	22148502	22288079	155	155	10333463	10300552	6,233,460	6,164,189					24503401	24652557	63218981	63405532	186551
Tamil Nadu	27663720	27753090	269	269	16910521	16790527	9,715,873	9,774,447	108,661	94,104			24107049	24155979	78506093	78568416	62323
U.P.(E)	36484936	36627036	0	0	19020934	18806694	9,002,308	8,561,096					34813538	34992735	99321716	98987561	-334155
U.P.(W)	18560186	18554765	8	8	17054469	16925483	5,536,340	5,502,874					21756247	21804979	62907250	62788109	-119141
West Bengal	16748957	16804876	151	151	14603463	14577211	2,421,457	2,445,695					22916806	22820261	56690834	56648194	-42640
Total	368890517	369873071	2784	2783	239964110	237962722	105125146	104099542	108661	94104	2755595	2752863	426174687	427179484	1143021500	1141964569	-1056931
Net Addition		982554		-1		-2001388		-1025604		-14557		-2732		1004797	0	-1056931	
Rural Subscribers	178,315,314	178,389,665	0	0	117458049	116199084	33,260,909	33,826,616	0	0	35326	35321	186822887	187146682	515892485	515597368	-295117

Proportion of VLR on the date of Peak VLR in the month of Feb-23 (%)							Annexure-III
Circle	Bharti	BSNL	Vodafone Idea	MTNL	Reliance Com.	Reliance Jio	Total
Andhra Pradesh	99.01	60.04	94.41		-	90.29	91.34
Assam	97.42	40.58	95.30		-	95.25	88.92
Bihar	94.65	40.38	86.11		-	94.09	90.16
Delhi	96.07		63.46	18.21	83.51	89.07	81.11
Gujarat	110.77	45.14	94.29		114.89	94.86	93.61
Haryana	103.42	32.88	90.56		109.09	97.85	86.00
Himachal Pradesh	97.80	59.76	97.94		43.48	94.37	89.66
J & K	89.88	68.40	81.47		-	82.11	84.88
Karnataka	97.80	48.51	85.24		94.44	95.45	91.03
Kerala	101.86	80.40	93.10		130.70	90.37	91.14
Kolkata	96.89	43.58	88.85		-	96.33	89.87
Madhya Pradesh	102.41	47.39	86.35		-	90.84	89.10
Maharashtra	108.54	61.78	90.38		-	98.81	96.21
Mumbai	89.42		71.19	28.46	79.09	81.48	78.72
North East	103.79	56.08	94.58		-	104.76	98.06
Odisha	105.31	51.49	96.42		41.38	96.21	90.87
Punjab	100.90	40.46	92.06		66.98	92.23	88.22
Rajasthan	101.11	41.90	91.62		61.94	93.61	90.90
Tamil Nadu	99.26	65.18	93.68		96.65	93.80	92.11
U.P. (E)	96.47	35.43	88.58		-	93.22	88.55
U.P. (W)	101.75	36.95	86.96		100.00	87.71	87.21
West Bengal	96.53	68.53	87.93		49.01	93.68	91.96
Total	99.25	51.75	87.55	22.17	82.64	93.08	89.98

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.

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.