

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 16th November, 2023

(www.trai.gov.in)

Highlights of Telecom Subscription Data as on 31st August, 2023

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Broadband Subscribers (Million)	840.12	36.41	876.53
Urban Telephone Subscribers (Million)	629.39	28.08	657.47
Net Addition in August, 2023 (Million)	0.84	0.16	1.00
Monthly Growth Rate	0.13%	0.58%	0.15%
Rural Telephone Subscribers (Million)	519.04	2.70	521.74
Net Addition in August, 2023 (Million)	1.35	0.01	1.36
Monthly Growth Rate	0.26%	0.41%	0.26%
Total Telephone Subscribers (Million)	1148.43	30.78	1179.21
Net Addition in August, 2023 (Million)	2.19	0.17	2.36
Monthly Growth Rate	0.19%	0.56%	0.20%
Overall Tele-density*(%)	82.48%	2.21%	84.69%
Urban Tele-density*(%)	127.84%	5.70%	133.55%
Rural Tele-density*(%)	57.67%	0.30%	57.97%
Share of Urban Subscribers	54.80%	91.24%	55.76%
Share of Rural Subscribers	45.20%	8.76%	44.24%

- ❖ In the month of August, 2023, 12.67 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 864.76 million at the end of July-23 to 877.43 million at the end of August-23, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in August, 2023 was 1043.38 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 1,087 operators in August, 2023 in comparison to 1,055 Operator in July 2023, the total Broadband Subscribers increased from 868.20 million at the end of July-23 to 876.53 million at the end of August-23 with a monthly growth rate of 0.96%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

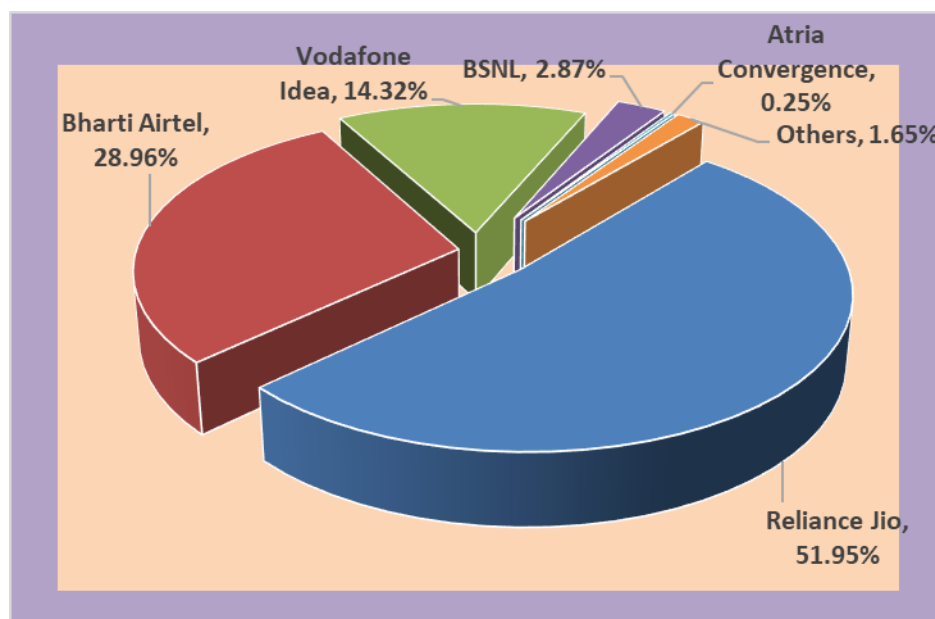
Segment-wise Broadband Subscribers and Monthly Growth Rate in the month of August, 2023

Segment	Broadband subscribers (in million)		Monthly growth rate in the month of August, 2023
	As on 31 st July, 2023	As on 31 st August, 2023	
Wired subscribers	35.70	36.41	2%
Mobile devices users (Phones and dongles)	831.54	839.13	0.91%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to- Point Radio & VSAT)	0.96	0.99	2.82%
Total	868.20	876.53	0.96%

- Top five service providers constituted 98.35% market share of the total broadband subscribers at the end of August-23. These service providers were Reliance Jio Infocomm Ltd 455.33 million, Bharti Airtel 253.86 million, Vodafone Idea 125.55 million, BSNL 25.12 million and Atria Convergence 2.19 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 31st August, 2023**

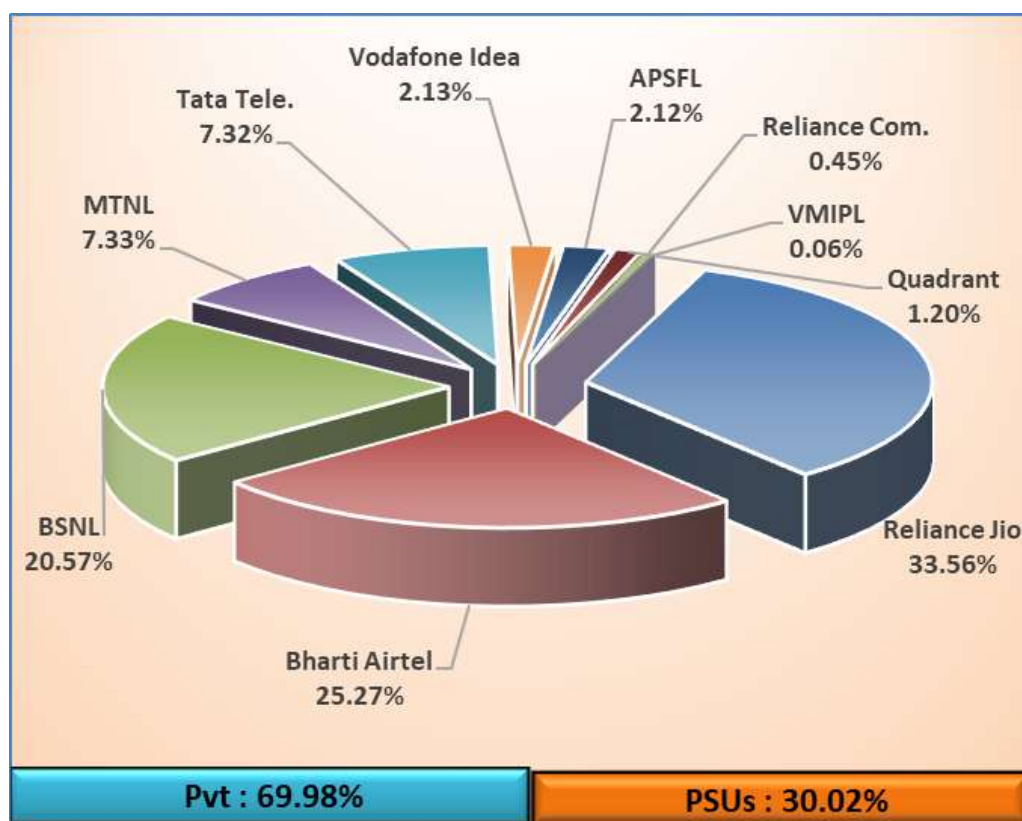


- As on 31st August, 2023, the top five Wired Broadband Service providers were Reliance Jio Infocomm Ltd 9.59 million, Bharti Airtel 6.87 million, BSNL 3.71 million, Atria Convergence Technologies 2.19 million and Hathway Cable & Datacom 1.12 million.
- As on 31st August, 2023, the top five Wireless Broadband Service providers were Reliance Jio Infocom Ltd 445.73 million, Bharti Airtel 246.99 million, Vodafone Idea 125.54 million, BSNL 21.41 million and Intech Online Pvt. Ltd. 0.24 million.

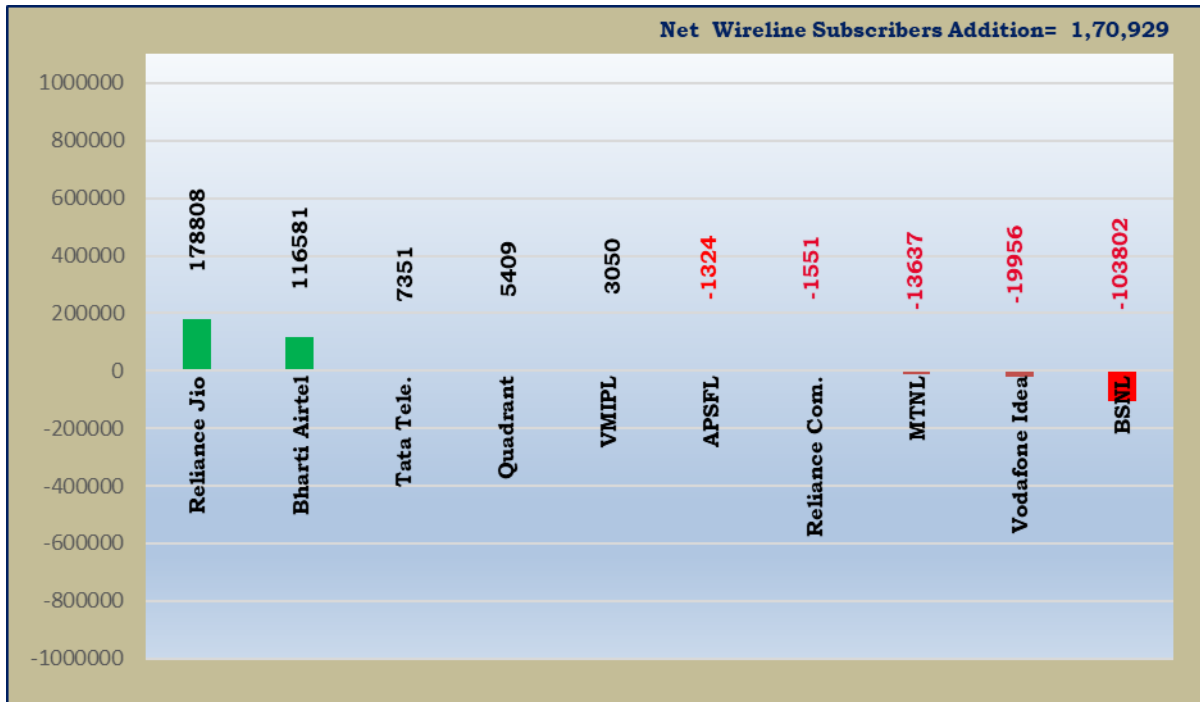
II. Wireline Subscribers

- Wireline subscribers increased from 30.61 million at the end of July-23 to 30.78 million at the end of August-23. Net increase in the wireline subscriber base was 0.17 million with a monthly growth rate of 0.56%. The share of urban and rural subscribers in total wireline subscribers were 91.24% and 8.76% respectively at the end of August, 2023.
- The Overall Wireline Tele-density in India increased from 2.20% at the end of July-23 to 2.21% at the end of August-23. Urban and Rural Wireline Tele-density were 5.70% and 0.30% respectively during the same period.
- BSNL, MTNL and APSFL, the three PSU access service providers, held 30.02% of the wireline market share as on 31st August, 2023. Detailed statistics of wireline subscriber base are available at **Annexure-I**.

Access Service Provider-wise Market Share of Wireline Subscribers as on 31st August, 2023



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



III. Wireless subscriber

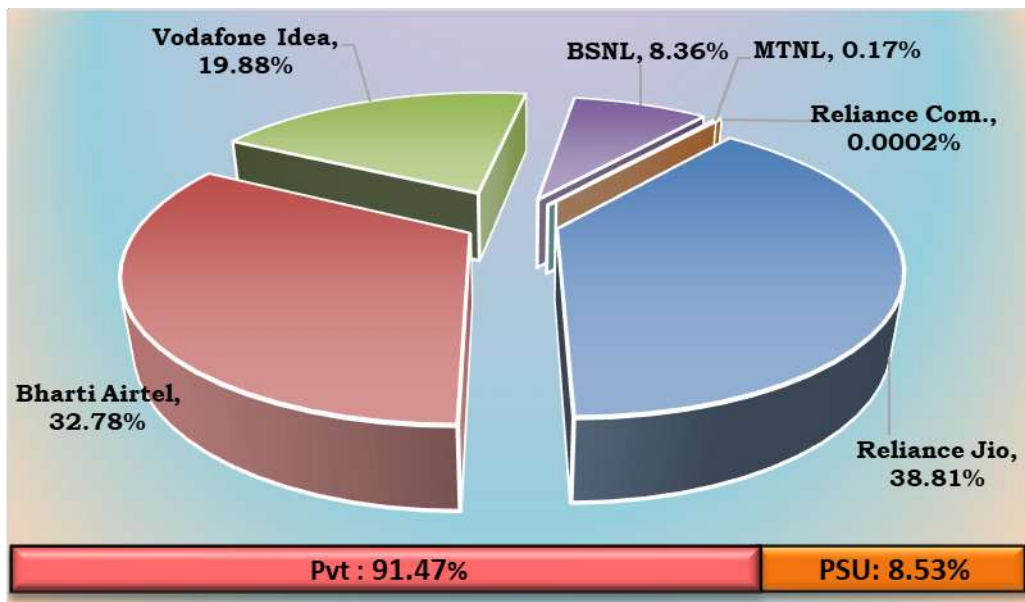
• Total wireless subscribers increased from 1,146.25 million at the end of July-23, to 1,148.43 million at the end of August-23, thereby registering a monthly growth rate of 0.19%. Wireless subscription in urban areas increased from 628.55 million at the end of July-23 to 629.39 million at the end of August-23 and wireless subscription in rural areas also increased from 517.69 million to 519.04 million during the same period. Monthly growth rate of urban and rural wireless subscription was 0.13% and 0.26% respectively.



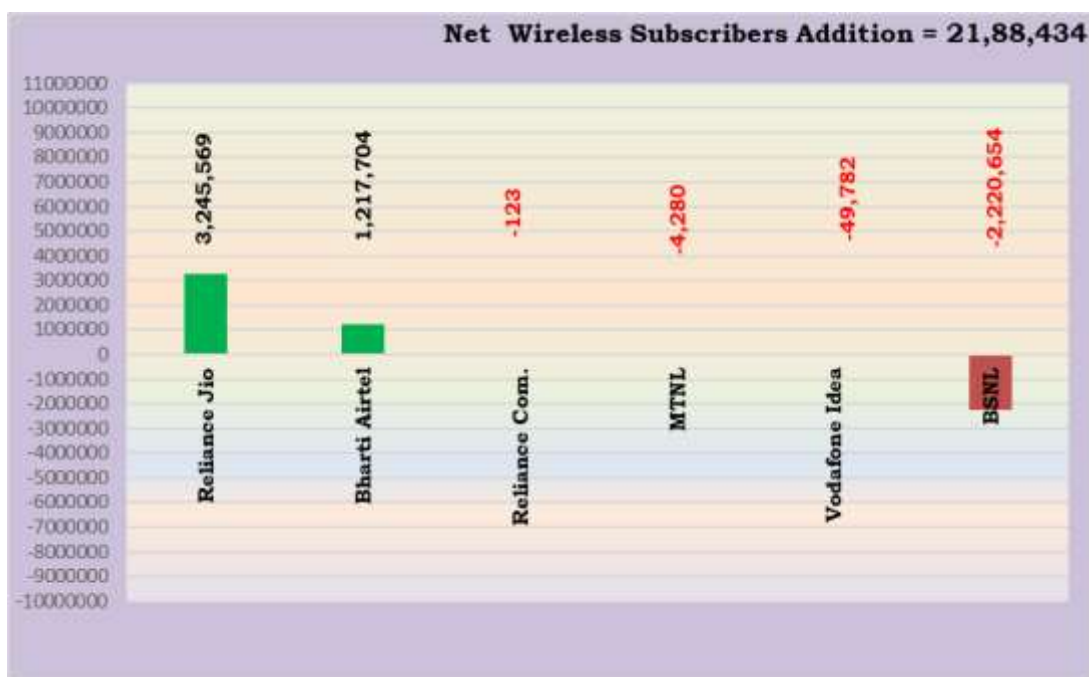
• The Wireless Tele-density in India increased from 82.38% at the end of July-23 to 82.48% at the end of August-23. The Urban Wireless Tele-density decreased from 127.87% at the end of July-23 to 127.84% at the end of August-23 however Rural Tele-density increased from 57.53% to 57.67% during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.80% and 45.20% respectively at the end of August-23. Detailed statistics of wireless subscriber base is available at **Annexure-II**.

- As on 31st August, 2023, the private access service providers held 91.47% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 8.53%.
- The graphical representation of access service provider-wise market share and net additions in wireless subscriber base are given below: -

Access Service Provider-wise Market Shares in term of Wireless Subscribers as on 31st August, 2023

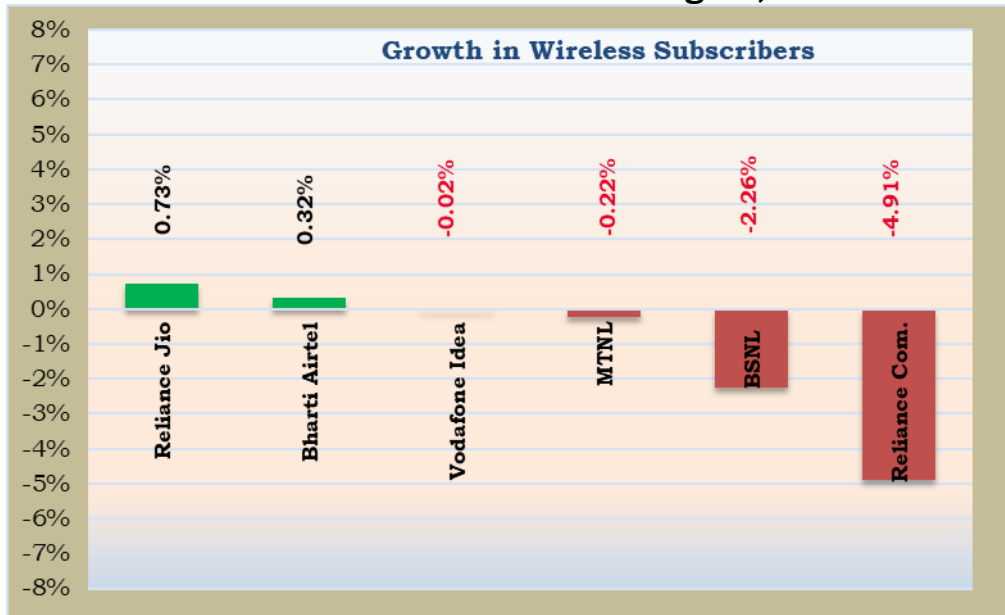


Net Addition in Wireless Subscribers of Access Service Providers in the month of August, 2023



Growth in Wireless Subscribers

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



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

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



- Except, U.P.(W), Mumbai, West Bengal, Bihar, Karnataka, Punjab, Haryana and J&K, all other service areas have showed growth in their wireless subscribers during the month of August-23.

IV. Total Telephone Subscribers

- The number of telephone subscribers in India increased from 1,176.85 million at the end of July-23 to 1,179.21 million at the end of August-23, thereby showing a monthly growth rate of 0.20%. Urban telephone subscription increased from 656.47 million at the end of July-23 to 657.47 million at the end of August-23 and the rural subscription also increased from 520.38 million to 521.74 million during the same period. The monthly growth rates of urban and rural telephone subscription were 0.15% and 0.26% respectively during the month of August-23.



- The overall Tele-density in India increased from 84.58% at the end of July-23 to 84.69% at the end of August-23. The Urban Tele-density remained unchanged i.e. 133.55% at the end of August-23 however Rural Tele-density increased from 57.83% at the end of July-23 to 57.97% at the end of August-23. The share of urban and rural subscribers in total number of telephone subscribers at the end of August-23 was 55.76% and 44.24% respectively.

Overall Tele-density (LSA Wise) – As on 31st August, 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 August-23. Delhi service area has maximum tele-density of 274.95% and the Bihar service area has minimum tele-density of 55.82% at the end of August-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 August, 2023

Circle Category	Net additions in the month of August, 2023		Telephone Subscriber base as on 31 st August, 2023	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	3,244	7,87,495	1,20,30,421	38,47,90,959
Circle B	1,07,579	8,73,048	78,01,462	46,56,64,387
Circle C	17,701	55,874	22,55,801	18,52,33,415
Metro	42,405	4,72,017	86,88,799	11,27,45,481
All India	1,70,929	21,88,434	3,07,76,483	1,14,84,34,242

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

Circle Category	Monthly growth rate (%) (July-23 to August-23)		Yearly growth rate (%) (August-22 to August-23)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	0.03%	0.21%	21.20%	-0.39%
Circle B	1.40%	0.19%	23.53%	-1.01%
Circle C	0.79%	0.03%	31.40%	1.92%
Metro	0.49%	0.42%	8.45%	1.88%
All India	0.56%	0.19%	18.51%	-0.06%

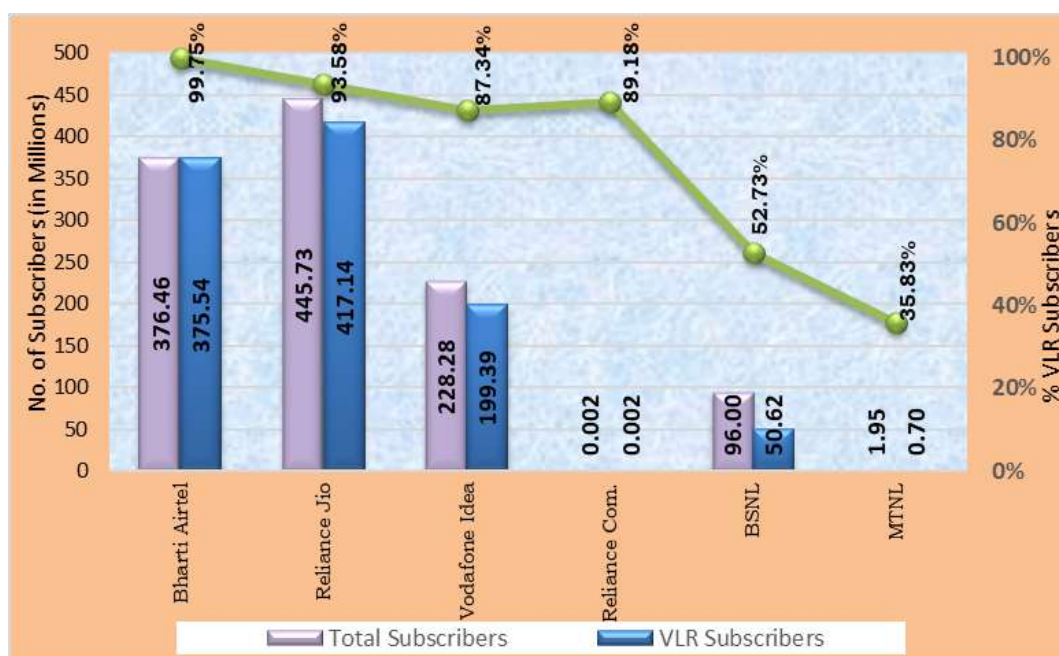
Note: Circle Category-Metro includes Delhi, Mumbai and Kolkata. Data for Chennai has been included in Circle Category-A, as part of TamilNadu.

- As can be seen in the above tables, in wireless segment, on monthly basis all circles have registered growth 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, on monthly and yearly basis, all circles have registered growth rate in their subscriber base.

VI. Active Wireless Subscribers (VLR Data)

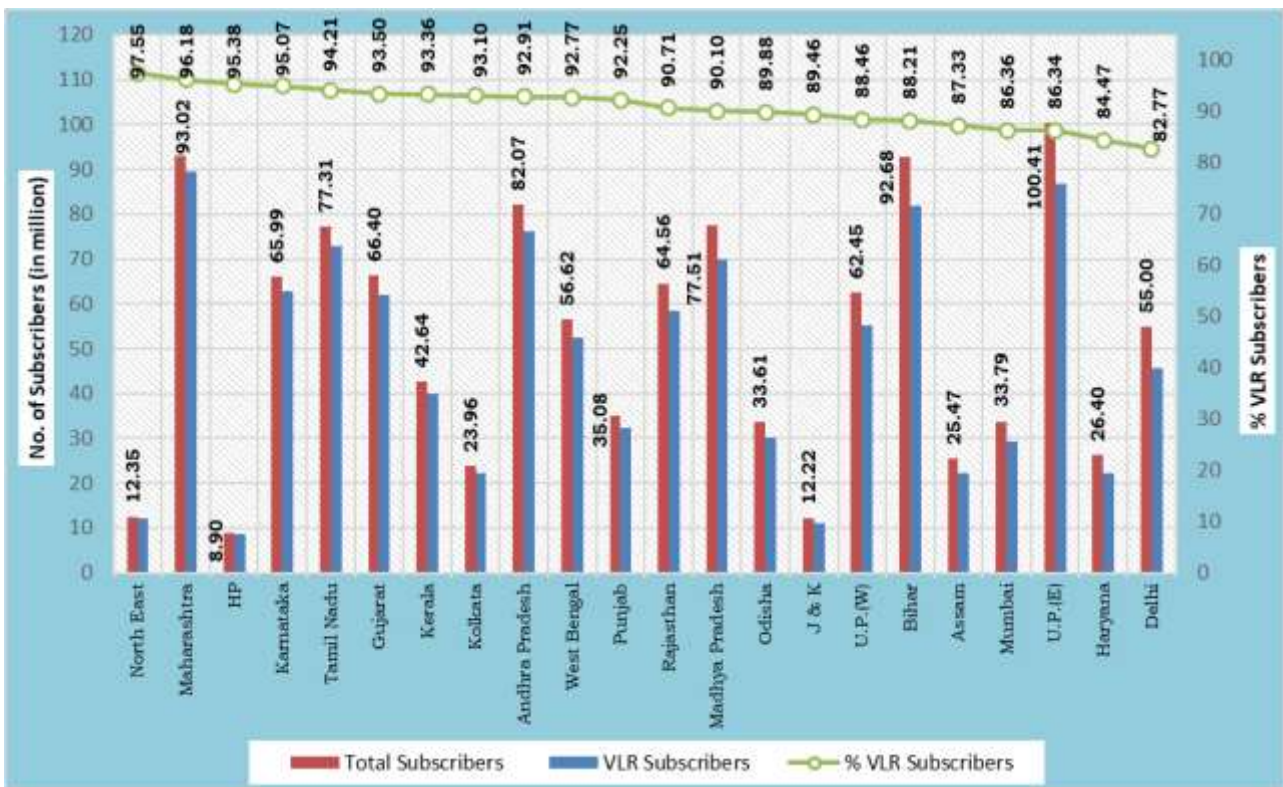
- Out of the total 1,148.43 million wireless subscribers, 1043.38 million wireless subscribers were active on the date of peak VLR in the month of August-23. The proportion of active wireless subscribers was approximately 90.85% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of August-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 August, 2023



- Bharti Airtel has the maximum proportion 99.75% of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of peak VLR in the month of August-23 and MTNL has the minimum proportion of VLR 35.83% of its HLR during the same period.

Service Area wise percentage of VLR Subscribers in the month of August, 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 August-23, a total of 12.67 million requests were received for MNP. Out of total 12.67 million new requests, 7.40 million requests received from Zone-I and 5.26 million requests received from Zone-II. The cumulative MNP requests increased from 864.76 million at the end of July-23 to 877.43 million at the end of August-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 78.54 million) followed by Maharashtra (about 72.31 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 67.12 million) followed by Karnataka (about 62.77 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)	
	July-23	August-23		July-23	August-23
Delhi	41.54	42.13	Andhra Pradesh	60.44	61.04
Gujarat	58.88	59.81	Assam	6.13	6.23
Haryana	27.72	28.07	Bihar	46.33	47.18
Himachal Pradesh	3.78	3.83	Karnataka	62.17	62.77
Jammu & Kashmir	2.05	2.09	Kerala	21.63	21.85
Maharashtra	71.22	72.31	Kolkata	16.52	16.71
Mumbai	30.97	31.25	Madhya Pradesh	66.06	67.12
Punjab	29.87	30.20	North East	2.02	2.04
Rajasthan	60.51	61.29	Odisha	15.64	15.83
U.P.(East)	76.81	78.54	Tamil Nadu	57.35	57.91
U.P.(West)	59.54	60.76	West Bengal	47.60	48.47
Total	462.88	470.28	Total	401.88	407.15
Total (Zone-1 + Zone-2)				864.76	877.43
Net Addition (August, 2023)			12.67 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		V-CON Mobile & Infra Pvt. Ltd.		APSFL		Total		Net Addition
	Jul-23	Aug-23	Jul-23	Aug-23	Jul-23	Aug-23	Jul-23	Aug-23	Jul-23	Aug-23	Jul-23	Aug-23	Jul-23	Aug-23	Jul-23	Aug-23	Jul-23	Aug-23	Jul-23	Aug-23	Jul-23	Aug-23	
Andhra Pradesh	613524	547304			515981	530285	19416	19389	233061	236147			63345	63615	1186096	1205808			654085	652761	3285508	3255309	-30199
Assam	103,333	101,789			24501	25568	0	0	0	0			2610	2610	168408	170661					298852	300628	1776
Bihar	165,555	160,613			89064	92480	9	9	10105	10241			2380	2380	483900	488276					751013	753999	2986
Delhi			1014608	1009993	2009295	2026598	20272	20529	210064	212065			80475	78150	910878	923768					4245592	4271103	25511
Gujarat	314124	309059			229433	232196	2812	2812	157878	158463			56756	54176	601960	620916					1362963	1377622	14659
Haryana	205478	205840			132941	137274	0	0	46241	46411			420	420	119815	121758					504895	511703	6808
Himachal Pradesh	89900	89896			6034	6572	0	0	1556	1518			90	90	55208	55502					152788	153578	790
J & K	82755	80800			93814	96496	0	0	0	0			30	30	196625	197664					373224	374990	1766
Karnataka	536691	535069			1128735	1130220	18542	17409	394791	409090			145148	133458	888783	900257					3112690	3125503	12813
Kerala	999776	1000358			95615	96501	3444	3413	19623	19586			7130	6910	269070	272996					1394658	1399764	5106
Kolkata	189581	184409			196486	197847	4633	4649	63041	63073			14995	15025	472673	484702					941409	949705	8296
Madhya Pradesh	258008	252626			470996	478315	5	5	50447	49388			33575	35235	647733	668295					1460764	1483864	23100
Maharashtra	574613	569168			419261	427098	8767	8458	229516	226105			22602	21451	250279	253253					1505038	1505533	495
Mumbai			1253711	1244689	565300	575238	39018	38894	611094	606187			169751	167561	820519	835422					3459393	3467991	8598
North East	69721	69502					0	0	0	0			510	510	152432	157725					222663	227737	5074
Odisha	169309	165666			17401	19493	4	4	10859	10797			3950	3660	238037	245249					439560	444869	5309
Punjab	368232	370138			244331	249080	1925	1895	16321	15756	363591	369000	2010	2010	310543	317804	14499	17549			1321452	1343232	21780
Rajasthan	273776	272947			216773	227622	3552	3503	24789	24670			15295	15295	367711	368991					901896	913028	11132
Tamil Nadu	945147	940518			854675	865864	16887	16762	144765	142107			34218	32568	765286	768635					2760978	2766454	5476
U.P.(E)	120287	119562			190162	194598	33	37	11370	11354			16450	16570	479704	492391					818006	834512	16506
U.P.(W)	177292	177735			124418	127277	8	8	6916	6827			3586	3616	528520	537314					840740	852777	12037
West Bengal	177394	177695			36328	41503	69	69	2746	2749			120	150	234815	240416					451472	462582	11110
Total	6434496	6330694	2268319	2254682	7661544	7778125	139396	137845	2245183	2252534	363591	369000	675446	655490	10148995	#####	14499	17549	654085	652761	30605554	30776483	170929
Net Addition		-103802		-13637		116581		-1551		7351		5409		-19956		178808		3050		-1324		170929	
Rural Subscribers	1983113	1988062	34	34	0	2232	362	361	9635	9044	18512	18083	0	0	190359	196101	0	484023	483043	2686038	2696960	10922	

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
	Jul-23	Aug-23	Jul-23	Aug-23	Jul-23	Aug-23	Jul-23	Aug-23	Jul-23	Aug-23	Jul-23	Aug-23	Jul-23	Aug-23	Jul-23	Aug-23	
Andhra Pradesh	32931652	33037626			11287873	11194912	6928520	6706025					30896175	31132163	82044220	82070726	26506
Assam	11,189,259	11,397,614			1862647	1837672	3195263	3195737					9020373	9037935	25267542	25468958	201416
Bihar	40,707,005	40,627,897			8007508	7943071	5797509	5387664					38326618	38720581	92838640	92679213	-159427
Delhi	17304431	17386804	23	23	16299330	16559451					1688464	1688196	19241615	19361859	54533863	54996333	462470
Gujarat	11465865	11517720	47	43	21731576	21661000	4975672	4909331					28031848	28307727	66205008	66395821	190813
Haryana	6642572	6665375	11	11	7142447	7059545	4418182	4277190					8329790	8396861	26533002	26398982	-134020
Himachal Pradesh	3478313	3555400	92	92	425849	417731	1614681	1606440					3325209	3324299	8844144	8903962	59818
J & K	5958993	5904045	0	0	315687	310916	836454	837332					5225872	5169889	12337006	12222182	-114824
Karnataka	31873862	31846069	589	574	6645326	6666276	5193266	4729271					22443713	22751031	66156756	65993221	-163535
Kerala	8157958	8315122	113	113	14150214	14113847	9737842	9749302					10353067	10458590	42399194	42636974	237780
Kolkata	5642971	5646218	0	0	5590247	5571836	2180802	2185799					10486698	10554364	23900718	23958217	57499
Madhya Pradesh	15585706	15676474	0	0	16615675	16457711	5126550	5063666					40057431	40309112	77385362	77506963	121601
Maharashtra	21281406	21310359	0	0	23547709	23434106	6227022	6127418					41530229	42148536	92586366	93020419	434053
Mumbai	9986070	10011054	925	877	11140887	11142422					269895	265883	12441106	12370695	33838883	33790931	-47952
North East	6015633	6054529	0	0	907470	891990	1,275,573	1,270,211					4129540	4134372	12328216	12351102	22886
Odisha	11430324	11445041	29	29	1567995	1562770	6,204,752	6,212,390					14358893	14387768	33561993	33607998	46005
Punjab	12303728	12337792	106	106	6831994	6779316	4,477,029	4,257,440					11602524	11703053	35215381	35077707	-137674
Rajasthan	22822546	22991248	155	155	9771036	10445136	5,747,614	5,568,427					25480166	25556834	63821517	64561800	740283
Tamil Nadu	28250863	28486784	262	238	16274350	16268019	7,670,899	7,610,751	152,444	158,338			24662296	24786642	77011114	77310772	299658
U.P.(E)	36709961	36784488	0	0	18227215	18090106	8,654,501	8,496,815					36646396	37035780	100238073	100407189	169116
U.P.(W)	18309233	18197362	8	8	16061802	16036276	5,296,930	5,267,948					22812458	22948732	62480431	62450326	-30105
West Bengal	17194260	17265294	147	115	13929542	13840488	2,507,058	2,380,414					23087372	23138135	56718379	56624446	-93933
Total	375242611	376460315	2507	2384	228334379	228284597	98066119	95839571	152444	158338	1958359	1954079	442489389	445734958	1146245808	1148434242	2188434
Net Addition		1217704		-123		-49782		-2226548	31344019	5894		-4280		3245569	31344019	2188434	
Rural Subscribers	180,840,531	181,498,976	0	0	111321207	110997412	30,755,761	30,215,405	0	0	35289	35283	194738835	196297437	517691623	519044513	1352890

Proportion of VLR on the date of Peak VLR in the month of Aug-23 (%) Annexure-III							
Circle	Bharti	BSNL	Vodafone Idea	MTNL	Reliance Com.	Reliance Jio	Total
Andhra Pradesh	100.66	65.79	94.60		-	89.91	92.91
Assam	94.99	41.40	91.97		-	92.97	87.33
Bihar	93.54	38.32	85.76		-	90.06	88.21
Delhi	99.14		61.41	18.45	100.00	91.95	82.77
Gujarat	112.09	43.02	92.18		120.93	95.71	93.50
Haryana	102.64	30.97	90.34		109.09	92.36	84.47
Himachal Pradesh	98.12	55.49	105.83		43.48	110.42	95.38
J & K	92.22	67.67	87.39		-	89.98	89.46
Karnataka	102.61	58.44	86.40		100.00	94.68	95.07
Kerala	100.53	84.31	94.08		127.43	95.10	93.36
Kolkata	98.77	41.62	90.09		-	102.32	93.10
Madhya Pradesh	102.00	46.52	84.92		-	93.07	90.10
Maharashtra	110.32	61.34	92.29		-	96.25	96.18
Mumbai	90.27		71.20	146.18	88.48	95.58	86.36
North East	102.92	54.92	93.02		-	103.77	97.55
Odisha	103.96	47.02	92.70		41.38	96.88	89.88
Punjab	102.45	41.62	93.06		65.09	99.43	92.25
Rajasthan	99.60	42.19	85.90		60.00	95.25	90.71
Tamil Nadu	100.46	78.23	95.22		104.62	91.37	94.21
U.P. (E)	94.26	31.44	87.05		-	90.71	86.34
U.P. (W)	101.24	34.83	90.01		100.00	89.57	88.46
West Bengal	98.45	66.91	88.43		64.35	93.79	92.77
Total	99.75	52.73	87.34	35.83	89.18	93.58	90.85

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.