

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 20th December, 2021

(www.trai.gov.in)

Highlights of Telecom Subscription Data as on 31st October, 2021

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Total Telephone Subscribers (Million)	1166.30	23.32	1189.62
Net Addition in October, 2021 (Million)	0.28	0.19	0.47
Monthly Growth Rate	0.02%	0.82%	0.04%
Urban Telephone Subscribers (Million)	637.44	21.39	658.83
Net Addition in October, 2021 (Million)	-0.45	0.19	-0.26
Monthly Growth Rate	-0.07%	0.89%	-0.04%
Rural Telephone Subscribers (Million)	528.86	1.93	530.79
Net Addition in October, 2021 (Million)	0.73	0.00	0.73
Monthly Growth Rate	0.14%	0.11%	0.14%
Overall Tele-density*(%)	85.15%	1.70%	86.86%
Urban Tele-density*(%)	133.96%	4.50%	138.45%
Rural Tele-density*(%)	59.17%	0.22%	59.39%
Share of Urban Subscribers	54.65%	91.72%	55.38%
Share of Rural Subscribers	45.35%	8.28%	44.62%
Broadband Subscribers (Million)	774.39	24.55	798.95

- ❖ In the month of October, 2021, 7.29 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 638.25 million at the end of September-21 to 645.54 million at the end of October-21, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in October, 2021 was 996.47 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. Total Telephone Subscribers

- The number of telephone subscribers in India increased from 1,189.15 million at the end of September-21 to 1,189.62 million at the end of October-21, thereby showing a monthly growth rate of 0.04%. Urban telephone subscription decreased from 659.09 million at the end of September-21 to 658.83 million at the end of October-21, however the rural subscription increased from 530.06 million to 530.79 million during the same period. The monthly growth rates of urban and rural telephone subscription were -0.04% and 0.14% respectively during the month of October-21.



- The overall Tele-density in India decreased from 86.89% at the end of September-21 to 86.86% at the end of October-21. The Urban Tele-density decreased from 138.72% at the end of September-21 to 138.45% at the end of October-21, however Rural Tele-density increased from 59.33% to 59.39% during the same period. The share of urban and rural subscribers in total number of telephone subscribers at the end of October-21 was 55.38% and 44.62% respectively.

Overall Tele-density (LSA Wise) – As on 31st October, 2021



- As may be seen in the above chart, nine LSA have less tele-density than the all India average tele-density at the end of October-21. Delhi service area has maximum tele-density of 270.25% and the Bihar service area has minimum tele-density of 53.36% at the end of October-21.

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 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 October 2021

Circle Category	Net additions in the month of October, 2021		Telephone Subscriber base as on 31 st October, 2021	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	79,747	-2,87,843	89,01,519	39,70,07,682
Circle B	67,235	10,82,832	53,63,223	47,83,47,361
Circle C	31,851	-4,80,265	13,80,018	17,86,76,658
Metro	11,486	-36,121	76,77,081	11,22,68,053
All India	1,90,319	2,78,603	2,33,21,841	1,16,62,99,754

Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of October 2021

Circle Category	Monthly growth rate (%) (September-21 to October-21)		Yearly growth rate (%) (October-20 to October-21)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	0.90%	-0.07%	14.96%	0.68%
Circle B	1.27%	0.23%	21.31%	2.57%
Circle C	2.36%	-0.27%	60.91%	1.44%
Metro	0.15%	-0.03%	10.18%	-2.38%
All India	0.82%	0.02%	16.67%	1.26%

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 'B', all circles have registered decline rate in their subscriber base during the month of October, 2021. On yearly basis, except circle 'Metro', all circles have registered growth rate in their subscriber base.
- In Wireline segment, both on monthly and yearly basis, Circles of all categories have registered growth rate in their subscriber base.

III. Wireless subscriber

• Total wireless subscribers increased from 1,166.02 million at the end of September-21 to 1,166.30 million at the end of October-21, thereby registering a monthly growth rate of 0.02%. Wireless subscription in urban areas decreased from 637.89 million at the end of September-21 to 637.44 million at the end of October-21, however wireless subscription in rural areas increased from 528.13 million to 528.86 million during the same period. Monthly growth rates of urban and rural wireless subscription were -0.07% and 0.14% respectively.

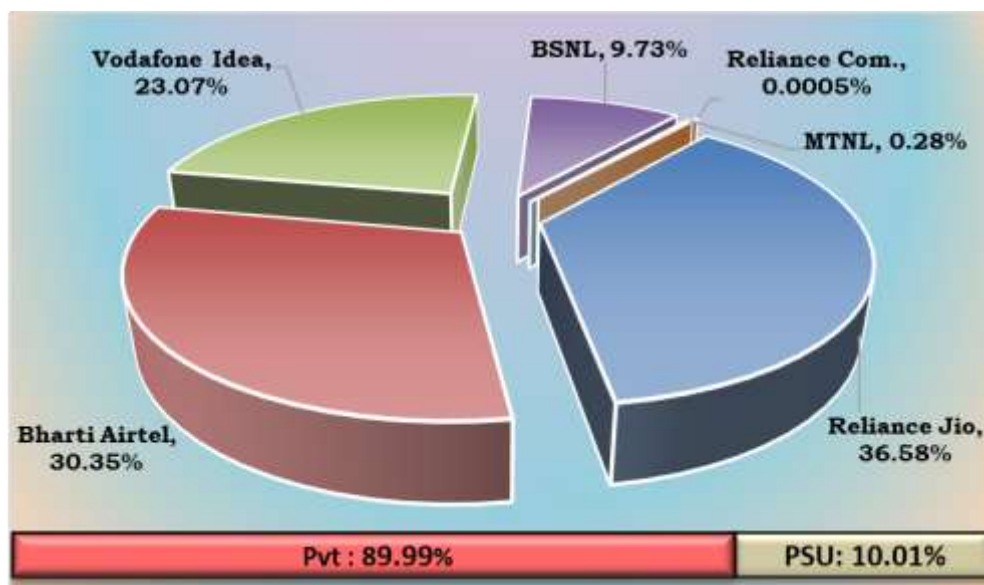


• The Wireless Tele-density in India decreased from 85.20% at the end of September-21 to 85.15% at the end of October-21. The Urban Wireless Tele-density decreased from 134.26% at the end of September-21 to 133.96% at the end of October-21, however, Rural Tele-density increased from 59.11% to 59.17% during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.65% and 45.35% respectively at the end of October-21. Detailed statistics of

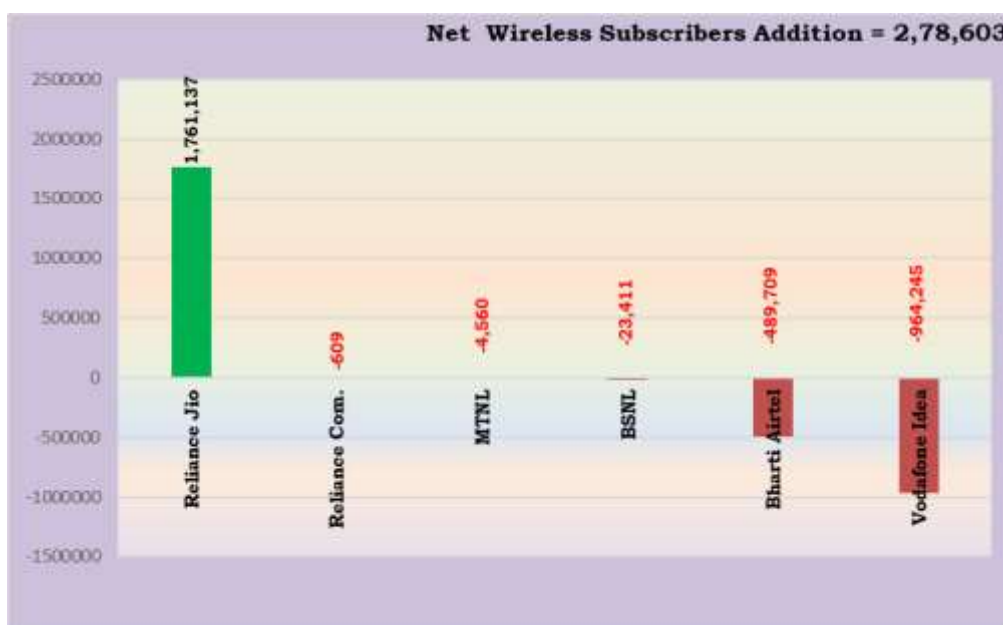
wireless subscriber base is available at **Annexure-I**.

- As on 31st October, 2021, the private access service providers held 89.99% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 10.01%.
- 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 October, 2021



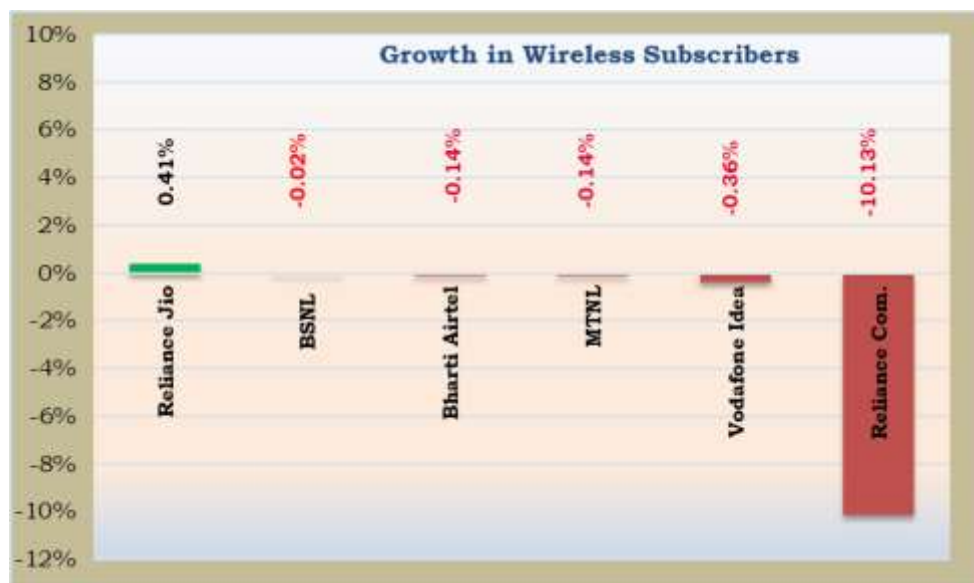
Net Addition/decline in Wireless Subscribers of Access Service Providers in the month of October, 2021



- Note:**
1. M/s Bharti Airtel Ltd has reported the wireless subscribers including the subscribers of M/s Tata Teleservices Ltd.
 2. Virtual Network Operator (VNO) of BSNL has started reporting of its subscribers from the month of October, 2018 and the same has been included in the subscriber base of BSNL.

IV. Growth in Wireless Subscribers

Access Service Provider-wise Monthly Growth Rate of Wireless Subscribers in the month of October, 2021



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

Service Area-wise Monthly Growth Rate of Wireless Subscribers in the month of October, 2021

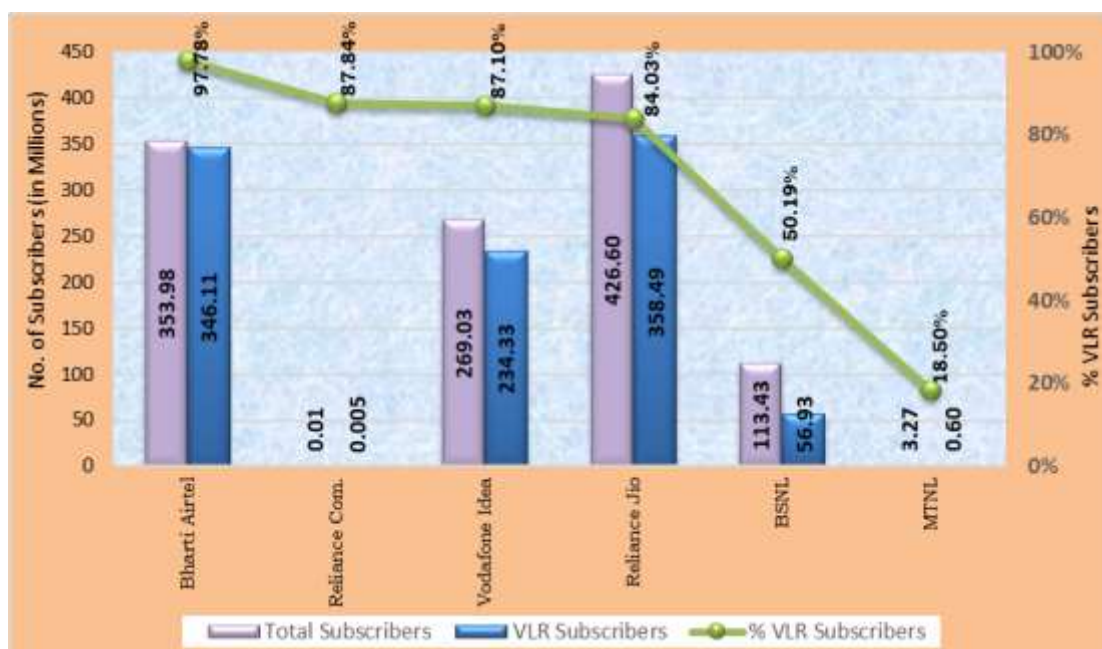


- Except Haryana, West Bengal, Karnataka, Jammu & Kashmir, Bihar, Andhra Pradesh, Tamil Nadu, Odisha and Kolkata, all other service areas have showed growth in their wireless subscribers during the month of October-21.

V. Active Wireless Subscribers (VLR Data)

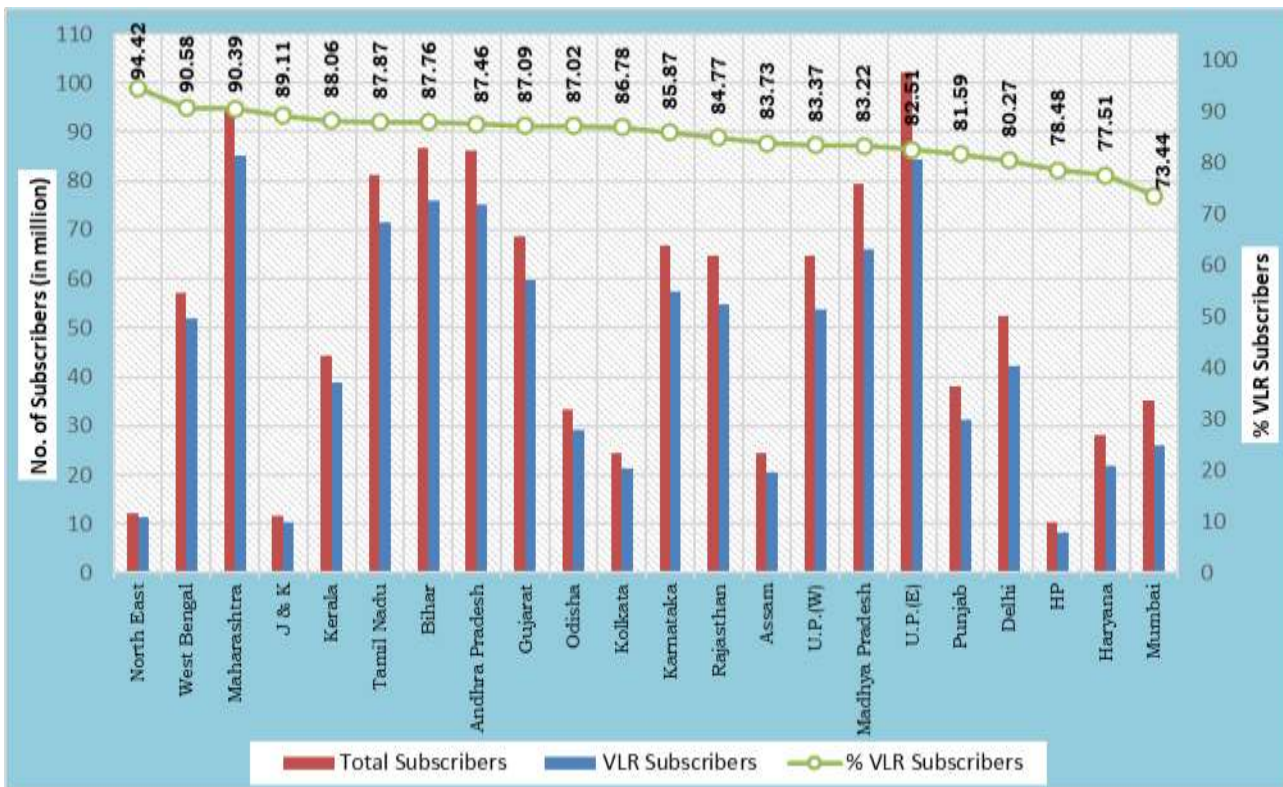
- Out of the total wireless subscribers (1,166.30 million), 996.47 million wireless subscribers were active on the date of peak VLR in the month of October-21. The proportion of active wireless subscribers was approximately 85.44% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of October-21 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 October, 2021



- Bharti Airtel has the maximum proportion (97.78%) of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of peak VLR in the month of October-21 and MTNL has the minimum proportion of VLR (18.50%) of its HLR during the same period.

Service Area wise percentage of VLR Subscribers in the month of October, 2021



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 October-21, a total of 7.29 million requests were received for MNP. Out of total 7.29 million new requests, 4.20 million requests received from Zone-I and 3.09 million requests received from Zone-II. The cumulative MNP requests increased from 638.25 million at the end of September-21 to 645.54 million at the end of October-21, since the implementation of MNP.
- In MNP Zone-I (Northern and Western India), the highest number of requests till date have been received in Maharashtra (about 53.36 million) followed by Uttar Pradesh-East (about 47.24 million) service area.

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 50.89 million) followed by Andhra Pradesh (about 49.12 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)	
	Sep-21	Oct-21		Sep-21	Oct-21
Delhi	31.09	31.48	Andhra Pradesh	48.69	49.12
Gujarat	43.15	43.62	Assam	4.43	4.47
Haryana	21.31	21.48	Bihar	31.02	31.54
Himachal Pradesh	2.93	2.96	Karnataka	50.55	50.89
Jammu & Kashmir	1.40	1.42	Kerala	16.94	17.16
Maharashtra	52.69	53.36	Kolkata	13.31	13.41
Mumbai	26.46	26.64	Madhya Pradesh	46.24	46.76
Punjab	23.83	24.03	North East	1.64	1.66
Rajasthan	46.07	46.50	Odisha	12.37	12.51
U.P.(East)	46.24	47.24	Tamil Nadu	47.31	47.63
U.P.(West)	37.10	37.76	West Bengal	33.49	33.92
Total	332.27	336.48	Total	305.98	309.07
Total (Zone-1 + Zone-2)				638.25	645.54
Net Addition (October, 2021)			7.29 million		

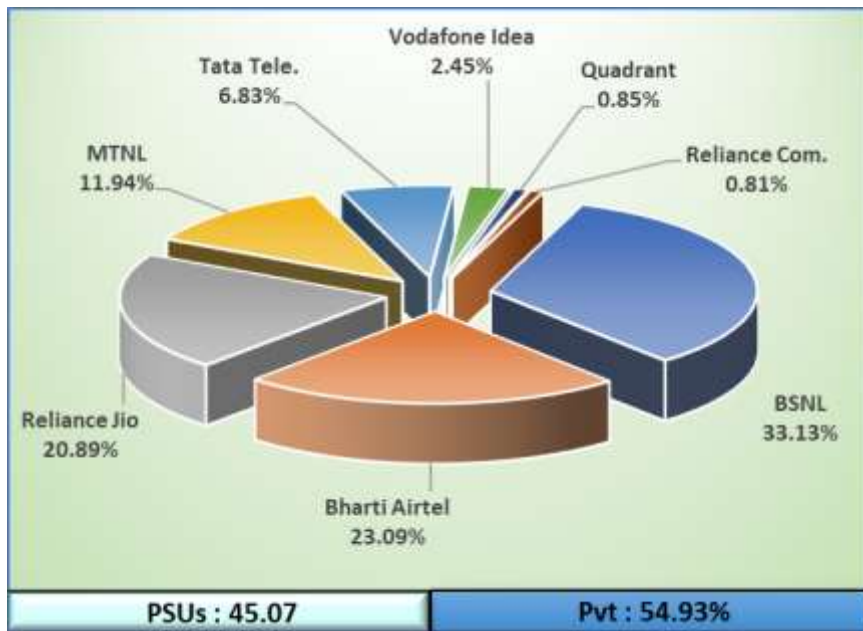
VII. Wireline Subscribers

- Wireline subscribers increased from 23.13 million at the end of September-21 to 23.32 million at the end of October-21. Net increase in the wireline subscriber base was 0.19 million with a monthly growth rate of 0.82%. The share of urban and rural subscribers in total wireline subscribers were 91.72% and 8.28% respectively at the end of October, 2021.
- The Overall Wireline Tele-density in India, increased from 1.69% at the end of September-21 to 1.70% at the end of October-21. Urban and Rural Wireline Tele-density were 4.50% and 0.22% respectively during the same period.

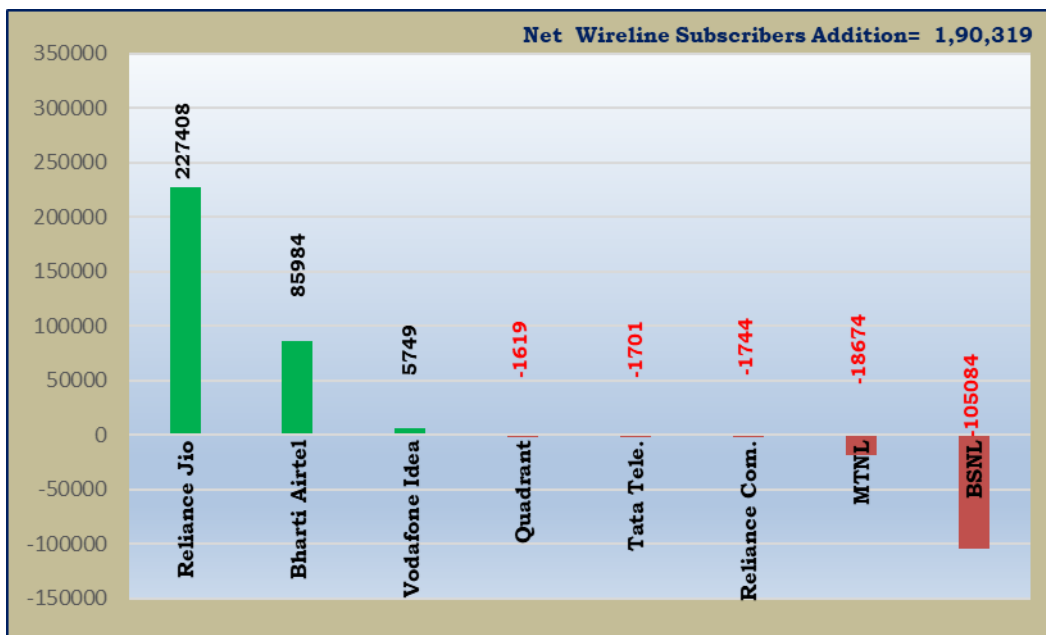
- BSNL and MTNL, the two PSU access service providers, held 45.07% of the wireline market share as on 31st October, 2021.

Detailed statistics of wireline subscriber base are available at **Annexure-III.**

Access Service Provider-wise Market Share of Wireline Subscribers as on 31st October, 2021



Access Service Provider-wise Net Addition/Decline in Wireline Subscribers during the month of October, 2021



VIII. Broadband (\geq 512 Kbps download)

- As per the information received from 577 operators in October 2021 in comparison to 522 Operator in September 2021, the total Broadband Subscribers increased from 794.88 million at the end of September-21 to 798.95 million at the end of October-21 with a monthly increase rate of 0.51%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

Segment-wise Broadband Subscribers and Monthly Growth Rate in the month of October, 2021

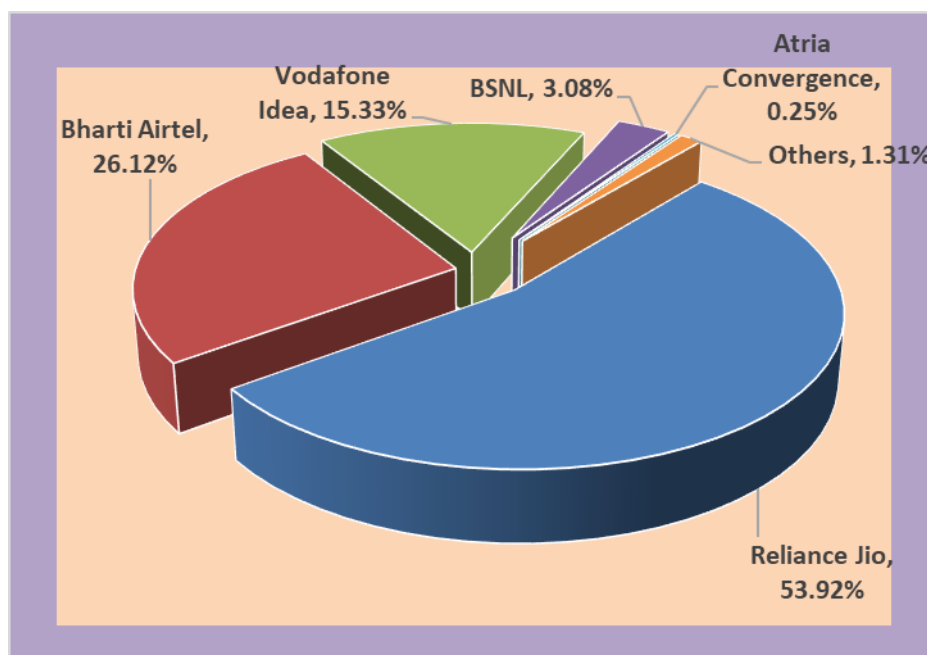
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of October-21
	As on 30 th September, 2021	As on 31 st October, 2021	
Wired subscribers	24.39	24.55	0.67%
Mobile devices users (Phones and dongles)	769.22	773.09	0.50%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	1.28	1.31	2.38%
Total	794.88	798.95	0.51%

- Top five service providers constituted 98.69% market share of the total broadband subscribers at the end of October-21. These service providers were Reliance Jio Infocomm Ltd (430.75 million), Bharti Airtel (208.71 million), Vodafone Idea (122.47 million), BSNL (24.57 million) and Atria Convergence (1.97 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 31st October 2021**



- As on 31st October, 2021, the top five Wired Broadband Service providers were BSNL (4.72 million), Reliance Jio Infocomm Ltd (4.16 million), Bharti Airtel (3.98 million), Atria Convergence Technologies (1.97 million) and Hathway Cable & Datacom (1.07 million).

As on 31st October, 2021, the top five Wireless Broadband Service providers were Reliance Jio Infocomm Ltd (426.60 million), Bharti Airtel (204.73 million), Vodafone Idea (122.47 million), BSNL (19.85 million) and Tikona Inifinet Ltd. (0.30 million).

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**(V. Raghunandan)
Secretary, TRAI**

Wireless Subscriber Base																Annexure-I	
Circle	Bharti Airtel (including Tata Tele.)		Reliance Com.		Vodafone Idea		BSNL		BSNL (VNO's)		MTNL		Reliance Jio		Total		Net Addition
	Sep-21	Oct-21	Sep-21	Oct-21	Sep-21	Oct-21	Sep-21	Oct-21	Sep-21	Oct-21	Sep-21	Oct-21	Sep-21	Oct-21	Sep-21	Oct-21	
Andhra Pradesh	31193079	31114350			14768586	14589459	9043969	9108418					31390404	31280685	86396038	86092912	-303126
Assam	9,666,469	9,748,438			2896364	2844345	3097802	3111491					8692859	8737018	24353494	24441292	87798
Bihar	36,289,924	36,102,624			10973747	10877621	5543665	5495516					34130700	34183516	86938036	86659277	-278759
Delhi	15829346	15814431	327	320	15812011	15774846					2155755	2154926	18605915	18811487	52403354	52556010	152656
Gujarat	11842855	11743743	167	166	24305580	24206672	5676308	5590010					26862748	27171671	68687658	68712262	24604
Haryana	5685403	5682781	49	47	8027162	7962609	4950543	4986044					9344716	9365110	28007873	27996591	-11282
Himachal Pradesh	3327816	3323832	93	93	605149	597924	2700415	2705274					3759318	3779027	10392791	10406150	13359
J & K	5513460	5506324	0	0	454075	446906	1306794	1312811					4417890	4392606	11692219	11658647	-33572
Karnataka	30292369	30293784	1209	957	8531587	8456083	7059485	7031492					20946637	20931005	66831287	66713321	-117966
Kerala	7379352	7461603	307	236	16550717	16576730	10714520	10720778					9463239	9445458	44108135	44204805	96670
Kolkata	5553511	5495417	23	18	6457356	6402240	2332993	2334289					10351062	10237359	24694945	24469323	-225622
Madhya Pradesh	15459137	15447846	0	0	20787588	20723844	6007209	6005064					36605321	37155085	78859255	79331839	472584
Maharashtra	20110593	20181990	0	0	29368881	29030093	6576590	6624339					37765173	38388649	93821237	94225071	403834
Mumbai	9469184	9416692	2124	2097	11579610	11620995					1113968	1110237	13040989	13092699	35205875	35242720	36845
North East	5437472	5465771	0	0	1268515	1247622	1353900	1352550					3969330	3988177	12029217	12054120	24903
Odisha	10990316	10871307	150	111	2069538	2033600	6344305	6277613					14346857	14274541	33751166	33457172	-293994
Punjab	11480248	11477678	222	183	8864450	9004580	5388005	5357459					12244618	12297174	37977543	38137074	159531
Rajasthan	21589292	21513959	222	207	11626794	11557027	6033689	6103323					25442295	25539082	64692292	64713598	21306
Tamil Nadu	27595251	27665088	468	389	18421575	18267793	9887738	9875338	53,618	56,318			25600655	25399190	81559305	81264116	-295189
U.P.(E)	36561974	36457063	0	0	20781191	21051817	11132440	11123371					33392337	33481471	101867942	102113722	245780
U.P.(W)	17902978	17939539	146	108	19343161	19271089	5676052	5668625					21534971	21731250	64457308	64610611	153303
West Bengal	15295963	15252023	506	472	16496690	16482187	2571430	2587936					22929592	22916503	57294181	57239121	-55060
Total	354465992	353976283	6013	5404	269990327	269026082	113397852	113371741	53618	56318	3269723	3265163	424837626	426598763	1166021151	1166299754	278603
Net Addition		-489709		-609		-964245		-26111		2700		-4560		1761137	0	278603	
Rural Subscribers	169,995,277	170,829,410	0	0	137214917	136517387	36,583,166	36,561,165	0	0	45055	45038	184291767	184906387	528130182	528859387	729205

Note: 1. The subscribers of M/s Bharti Airtel includes subscribers of M/s Tata Teleservices Ltd.

2. Virtual Network Operator (VNO) of BSNL has reported its subscriber number from the month of October, 2018.

Proportion of VLR on the date of Peak VLR in the month of October-21 (%)							Annexure-II
Circle	Bharti	BSNL	Vodafone Idea	MTNL	Reliance Com.	Reliance Jio	Total
Andhra Pradesh	100.45	57.76	89.25		-	82.35	87.46
Assam	96.18	44.73	87.21		-	82.59	83.73
Bihar	93.67	43.31	84.02		-	89.86	87.76
Delhi	97.68		73.53	11.61	142.81	79.15	80.27
Gujarat	101.27	46.52	95.58		88.55	81.75	87.09
Haryana	109.79	33.31	87.28		106.38	73.15	77.51
Himachal Pradesh	103.04	37.70	106.52		31.18	81.63	78.48
J & K	97.39	53.33	88.01		-	89.54	89.11
Karnataka	95.47	48.06	84.52		135.74	85.24	85.87
Kerala	101.44	69.91	92.80		83.90	89.76	88.06
Kolkata	98.24	42.28	89.41		77.78	89.13	86.78
Madhya Pradesh	94.54	42.38	82.71		-	85.41	83.22
Maharashtra	102.86	56.62	91.20		-	89.05	90.39
Mumbai	84.78		71.45	31.88	51.36	70.58	73.44
North East	103.20	62.87	88.29		-	95.02	94.42
Odisha	100.21	56.83	91.01		30.63	89.69	87.02
Punjab	105.36	41.45	82.34		55.74	76.33	81.59
Rajasthan	97.50	43.62	89.67		58.94	81.65	84.77
Tamil Nadu	96.19	69.62	94.01		270.95	81.52	87.87
U.P. (E)	95.76	32.95	83.92		-	83.67	82.51
U.P. (W)	101.13	38.17	83.04		14.81	80.79	83.37
West Bengal	96.96	66.35	92.39		31.36	87.77	90.58
Total	97.78	50.19	87.10	18.50	87.84	84.03	85.44

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		
Service Area	BSNL		MTNL		Bharti Airtel		Reliance Com.		Tata Tele.		Quadrant		Vodafone Idea		Reliance Jio		Total		Net Addition
	Sep-21	Oct-21	Sep-21	Oct-21	Sep-21	Oct-21	Sep-21	Oct-21	Sep-21	Oct-21	Sep-21	Oct-21	Sep-21	Oct-21	Sep-21	Oct-21	Sep-21	Oct-21	
Andhra Pradesh	689207	687168			309830	313224	20879	20664	155394	155813			61415	61415	525501	556175	1762226	1794459	32233
Assam	103,859	103,814			0	0		0		0			3450	3450	72561	75953	179870	183217	3347
Bihar	180,193	180,833			0	0	20	20	7804	7820			1770	1770	178590	190597	368377	381040	12663
Delhi	0	0	1300197	1297343	1671190	1694192	30932	30345	136965	137791			93659	96179	476030	491870	3708973	3747720	38747
Gujarat	457252	447023			135718	137703	3697	3591	77684	76053			45017	44979	306146	315580	1025514	1024929	-585
Haryana	182657	182401			37733	37462	0	0	35433	35443			360	360	53861	56375	310044	312041	1997
Himachal Pradesh	89944	89259			0	0	0	0	1620	1620			30	30	22017	23373	113611	114282	671
J & K	108505	107456			30018	30662	0	0	0	0			0	0	110386	115496	248909	253614	4705
Karnataka	873892	872640			824939	837631	24527	24168	242814	242362			98712	98872	364046	380828	2428930	2456501	27571
Kerala	1087505	1077563			72949	73517	5105	5098	18681	18605			8780	8830	111820	117906	1304840	1301519	-3321
Kolkata	452866	399835			161358	162659	6915	6819	46187	46025			15330	15400	199605	210818	882261	841556	-40705
Madhya Pradesh	299002	295756			318194	326398	5	5	11059	10974			2765	5765	269926	285372	900951	924270	23319
Maharashtra	772380	762778			201921	206852	11154	11101	216790	215873			29653	29820	132163	137402	1364061	1363826	-235
Mumbai	0	0	1504117	1488297	442634	452239	57145	56950	479353	479228			112805	112305	478307	498786	3074361	3087805	13444
North East	83339	83117			0	0	0	0	0	0			330	330	59906	63382	143575	146829	3254
Odisha	196630	197797			0	0	6	6	8381	8295			6570	6570	82238	88368	293825	301036	7211
Punjab	263568	260728			171608	173057	1706	1700	12887	13115	198910	197291	2265	2265	128710	134101	779654	782257	2603
Rajasthan	307576	305041			117361	121631	4130	4172	12080	12074			13320	13440	168146	177225	622613	633583	10970
Tamil Nadu	1054202	1045902			627786	638940	24094	23933	117917	118248			38565	38565	378477	396216	2241041	2261804	20763
U.P.(E)	191367	191016			103756	105384	21	20	7944	7882			23610	23810	206944	219265	533642	547377	13735
U.P.(W)	206738	205120			72913	74341	7	7	4279	4351			7350	7350	217293	229377	508580	520546	11966
West Bengal	230297	230648			0	0	12	12	2447	2446			120	120	102788	108404	335664	341630	5966
Total	7830979	7725895	2804314	2785640	5299908	5385892	190355	188611	1595719	1594018	198910	197291	565876	571625	4645461	4872869	23131522	23321841	190319
Net Addition		-105084		-18674		85984		-1744		-1701		-1619		5749		227408		190319	
Rural Subscribers	1822729	1816065	0	0	0	0	180	180	38499	38297	24874	24471	0	0	42593	51911	1928875	1930924	2049

Note: - BSNL-FTTH Voice-connections have also been incorporated from the month of May 2021

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.