

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 18<sup>th</sup> October, 2022

(www.trai.gov.in)

**Highlights of Telecom Subscription Data as on 31<sup>st</sup> August, 2022**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
<b>Total Telephone Subscribers</b> (Million)	<b>1149.11</b>	<b>25.97</b>	<b>1175.08</b>
Net Addition in August, 2022 (Million)	1.08	0.34	1.43
Monthly Growth Rate	0.09%	1.34%	0.12%
<b>Urban Telephone Subscribers</b> (Million)	<b>627.09</b>	<b>23.98</b>	<b>651.07</b>
Net Addition in August, 2022 (Million)	0.35	0.33	0.67
Monthly Growth Rate	0.06%	1.38%	0.10%
<b>Rural Telephone Subscribers</b> (Million)	<b>522.02</b>	<b>1.99</b>	<b>524.01</b>
Net Addition in August, 2022 (Million)	0.73	0.016	0.75
Monthly Growth Rate	0.14%	0.83%	0.14%
<b>Overall Tele-density*(%)</b>	<b>83.27%</b>	<b>1.88%</b>	<b>85.15%</b>
Urban Tele-density*(%)	129.75%	4.96%	134.71%
Rural Tele-density*(%)	58.22%	0.22%	58.44%
Share of Urban Subscribers	54.57%	92.35%	55.41%
Share of Rural Subscribers	45.43%	7.65%	44.59%
<b>Broadband Subscribers</b> (Million)	<b>783.57</b>	<b>30.37</b>	<b>813.94</b>

- ❖ In the month of August, 2022, 11.35 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 724.79 million at the end of July-22 to 736.14 million at the end of August-22, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in August, 2022 was 1013.46 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](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.

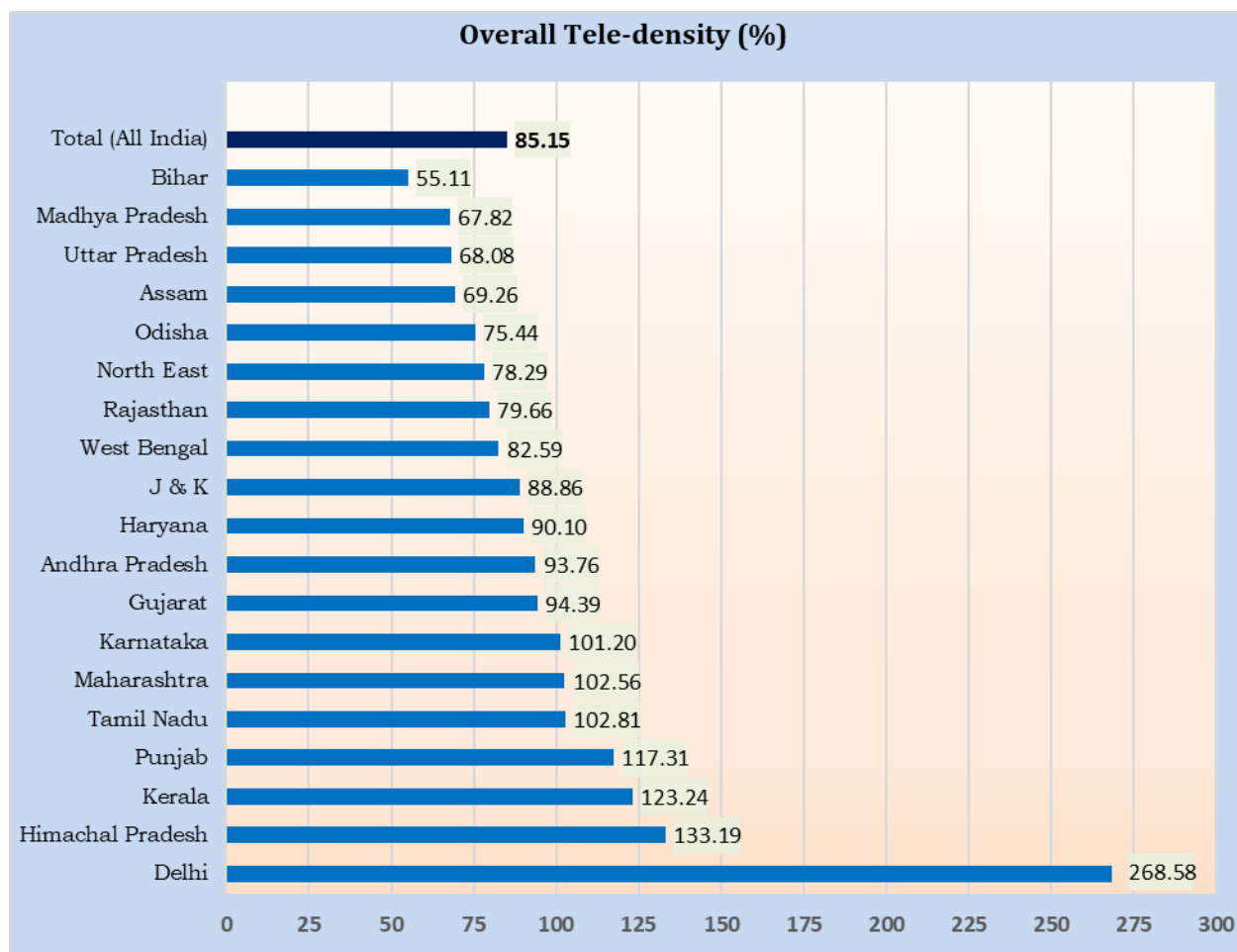
## I. Total Telephone Subscribers

- The number of telephone subscribers in India increased from 1,173.66 million at the end of July-22 to 1,175.08 million at the end of August-22, thereby showing a monthly growth rate of 0.12%. Urban telephone subscription increased from 650.40 million at the end of July-22 to 651.07 million at the end of August-22 and the rural subscription also increased from 523.26 million to 524.01 million during the same period. The monthly growth rates of urban and rural telephone subscription were 0.10% and 0.14% respectively during the month of August-22.



- The overall Tele-density in India increased 85.11% at the end of July-22 to 85.15% at the end of August-22. The Urban Tele-density decreased from 134.78% at the end of July-22 to 134.71% at the end of August-22 however, Rural Tele-density increased from 58.37% to 58.44% during the same period. The share of urban and rural subscribers in total number of telephone subscribers at the end of August-22 was 55.41% and 44.59% respectively.

## Overall Tele-density (LSA Wise) – As on 31<sup>st</sup> August, 2022



- 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-22. Delhi service area has maximum tele-density of 268.58% and the Bihar service area has minimum tele-density of 55.11% at the end of August-22.

### 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](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 August 2022

Circle Category	Net additions in the month of August, 2022		Telephone Subscriber base as on 31st August, 2022	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	1,18,510	-2,08,946	99,26,318	38,62,80,358
Circle B	1,27,243	1,30,735	63,15,276	47,04,28,230
Circle C	40,229	10,72,244	17,16,737	18,17,40,967
Metro	57,808	87,382	80,11,939	11,06,61,718
<b>All India</b>	<b>3,43,790</b>	<b>10,81,415</b>	<b>2,59,70,270</b>	<b>1,14,91,11,273</b>

### Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of August 2022

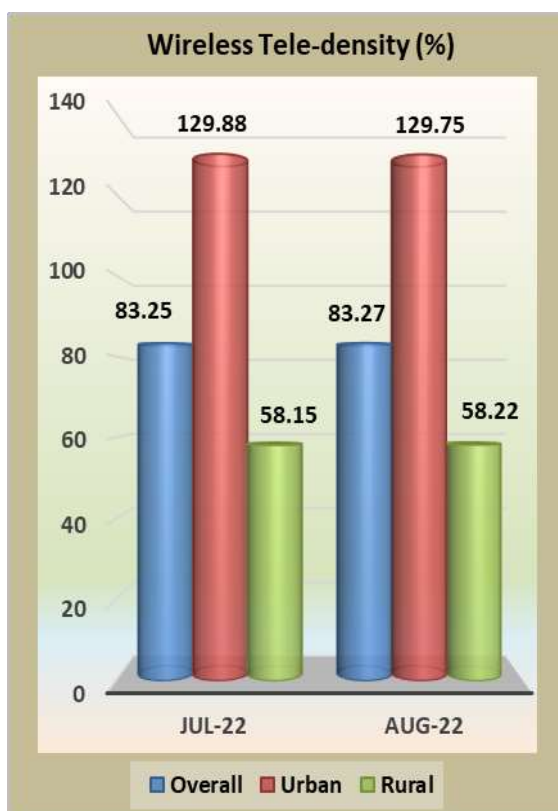
Circle Category	Monthly growth rate (%) (July-22 to August-22)		Yearly growth rate (%) (August-21 to August-22)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	1.21%	-0.05%	13.25%	-4.23%
Circle B	2.06%	0.03%	21.77%	-2.55%
Circle C	2.40%	0.59%	31.78%	-0.54%
Metro	0.73%	0.08%	5.35%	-6.12%
<b>All India</b>	<b>1.34%</b>	<b>0.09%</b>	<b>13.61%</b>	<b>-3.17%</b>

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 'A' all circles have registered growth rate in their subscriber base. On yearly basis, all circles have registered decline rate in their subscriber base.
- In Wireline segment both on monthly and yearly basis, all circles have registered growth rate in their subscriber base.

### III. Wireless subscriber

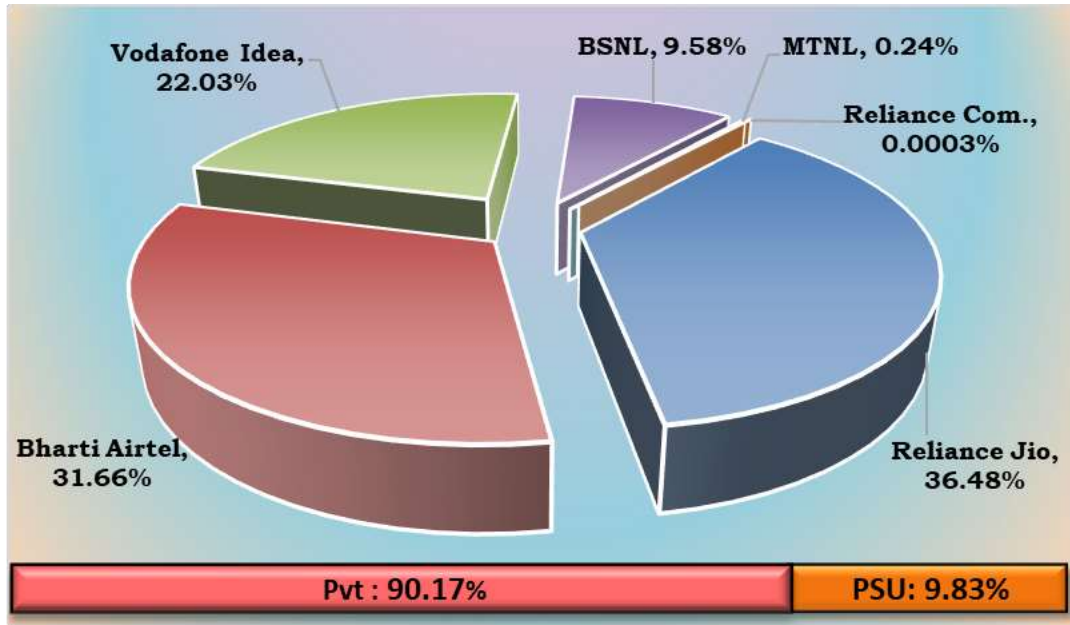
• Total wireless subscribers increased from 1,148.03 million at the end of July-22, to 1,149.11 million at the end of August-22, thereby registering a monthly growth rate of 0.09%. Wireless subscription in urban areas increased from 626.74 million at the end of July-22 to 627.09 million at the end of August-22 and wireless subscription in rural areas also increased from 521.29 million to 522.02 million during the same period. Monthly growth rates of urban and rural wireless subscription were 0.06% and 0.14% respectively.



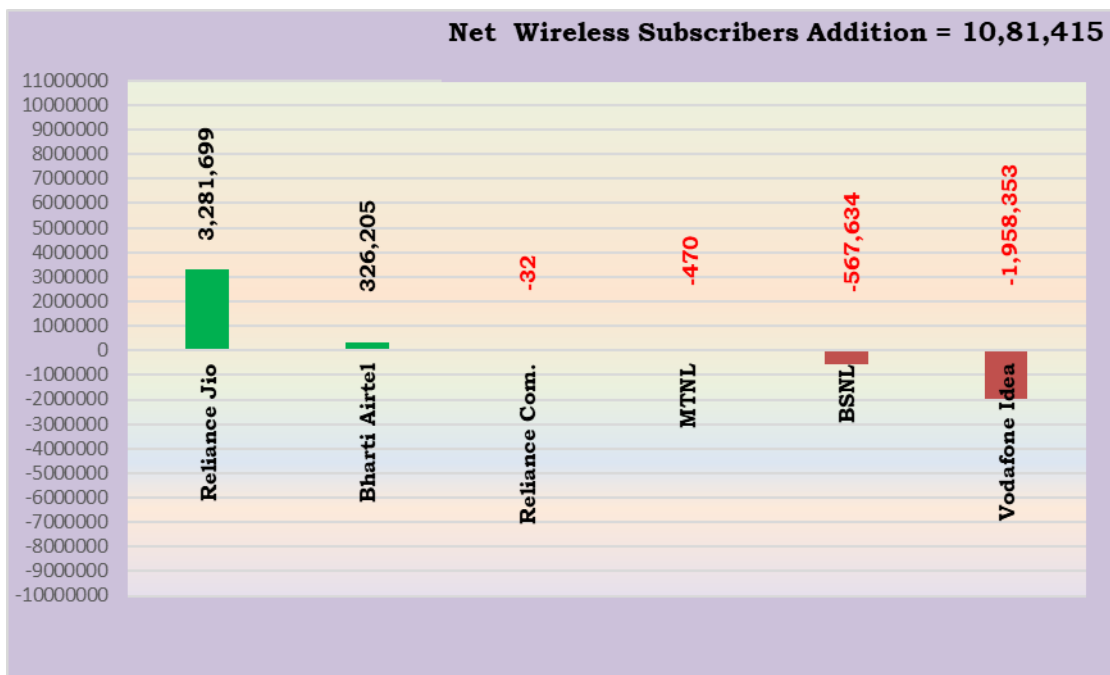
• The Wireless Tele-density in India increased from 83.25% at the end of July-22 to 83.27% at the end of August-22. The Urban Wireless Tele-density decreased from 129.88% at the end of Jul-22 to 129.75% at the end of August-22, however Rural Tele-density increased from 58.15% to 58.22% during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.57% and 45.43% respectively at the end of Aug-22. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

- As on 31<sup>st</sup> August, 2022, the private access service providers held 90.17% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 9.83%.
- 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 31<sup>st</sup> August, 2022**



**Net Addition in Wireless Subscribers of Access Service Providers in the month of August, 2022**



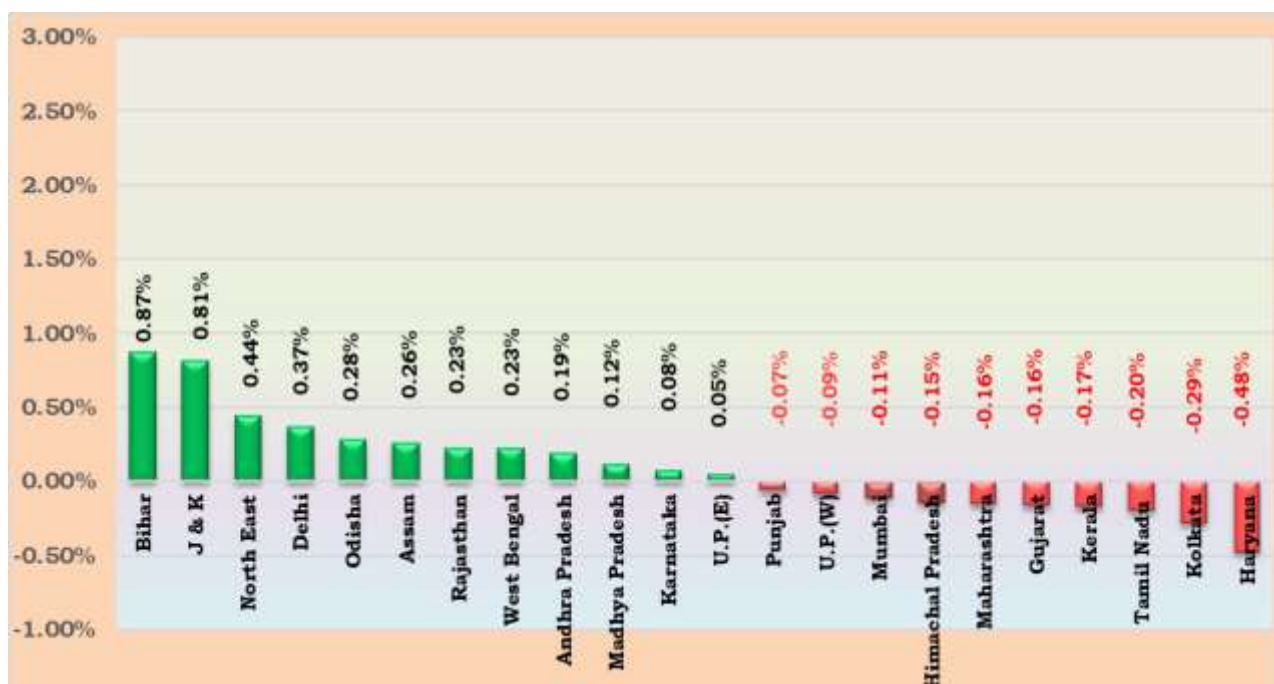
## Growth in Wireless Subscribers

### Access Service Provider-wise Monthly Growth Rate of Wireless Subscribers in the month of August, 2022



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

### Service Area-wise Monthly Growth Rate of Wireless Subscribers in the month of August, 2022

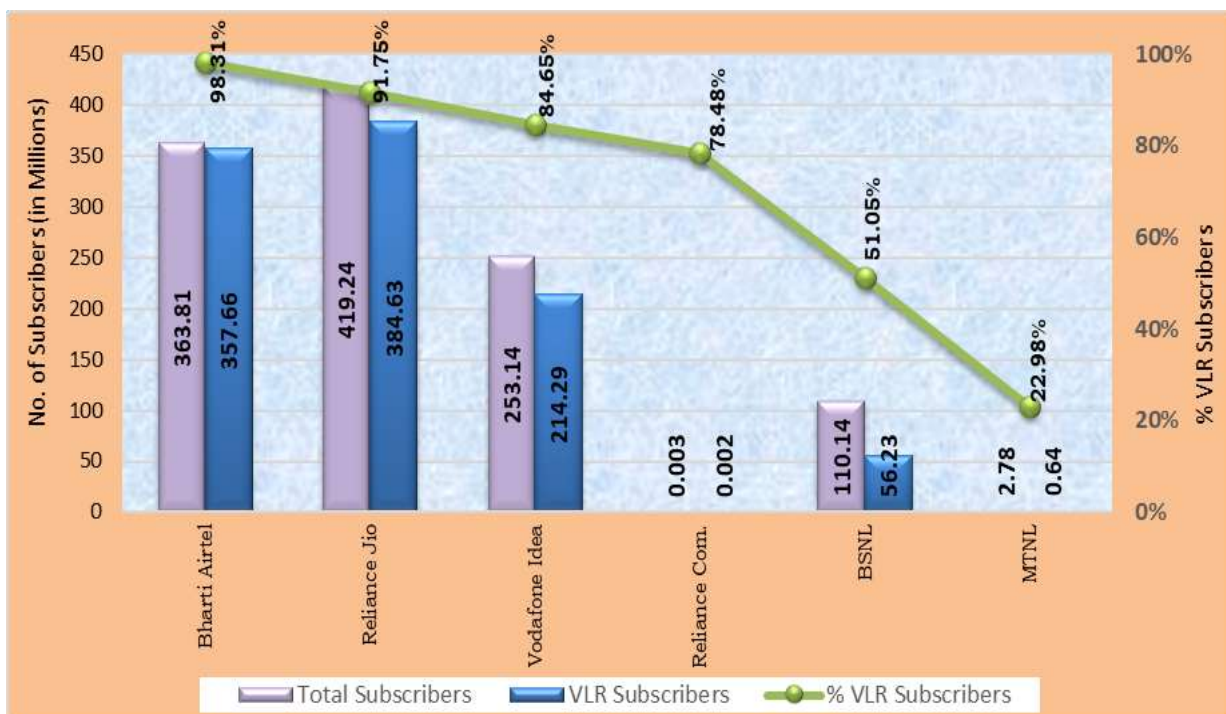


- Except Punjab, U.P.(W), Mumbai, Himachal Pradesh, Maharashtra, Gujarat, Kerala, Tamil Nadu, Kolkata and Haryana service areas, all other service areas have showed growth rate in their wireless subscribers during the month of August-22.

#### IV. Active Wireless Subscribers (VLR Data)

- Out of the total 1,149.11 million wireless subscribers, 1013.46 million wireless subscribers were active on the date of peak VLR in the month of August-22. The proportion of active wireless subscribers was approximately 88.19% 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-22 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 August, 2022**



- Bharti Airtel has the maximum proportion 98.31% of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of peak VLR in the month of August-22 and MTNL has the minimum proportion of VLR 22.98% of its HLR during the same period.



### Service Area wise percentage of VLR Subscribers in the month of August, 2022



## 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 August-22, a total of 11.35 million requests were received for MNP. Out of total 11.35 million new requests, 6.79 million requests received from Zone-I and 4.56 million requests received from Zone-II. The cumulative MNP requests increased from 724.79 million at the end of July-22 to 736.14 million at the end of August-22, 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 60.66 million) followed by Uttar Pradesh-East (about 59.27 million) service area.

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 55.71 million) followed by Madhya Pradesh (about 54.59 million).

<b>Service Area Wise MNP Status</b>					
<b>Zone - 1</b>			<b>Zone - 2</b>		
<b>Service Area</b>	<b>Number of Porting Requests (in Million)</b>		<b>Service Area</b>	<b>Number of Porting Requests (in Million)</b>	
	<b>Jul-22</b>	<b>Aug-22</b>		<b>Jul-22</b>	<b>Aug-22</b>
Delhi	34.85	35.35	Andhra Pradesh	53.35	53.90
Gujarat	49.03	49.89	Assam	5.21	5.29
Haryana	23.88	24.18	Bihar	37.01	37.71
Himachal Pradesh	3.26	3.30	Karnataka	55.11	55.71
Jammu & Kashmir	1.66	1.68	Kerala	19.18	19.39
Maharashtra	59.72	60.66	Kolkata	14.60	14.75
Mumbai	28.06	28.29	Madhya Pradesh	53.60	54.59
Punjab	26.23	26.55	North East	1.79	1.81
Rajasthan	51.76	52.55	Odisha	13.73	13.87
U.P.(East)	57.69	59.27	Tamil Nadu	51.22	51.65
U.P.(West)	45.23	46.44	West Bengal	38.61	39.29
<b>Total</b>	<b>381.38</b>	<b>388.17</b>	<b>Total</b>	<b>343.42</b>	<b>347.98</b>
<b>Total (Zone-1 + Zone-2)</b>				<b>724.79</b>	<b>736.14</b>
<b>Net Addition (August, 2022)</b>			<b>11.35 million</b>		

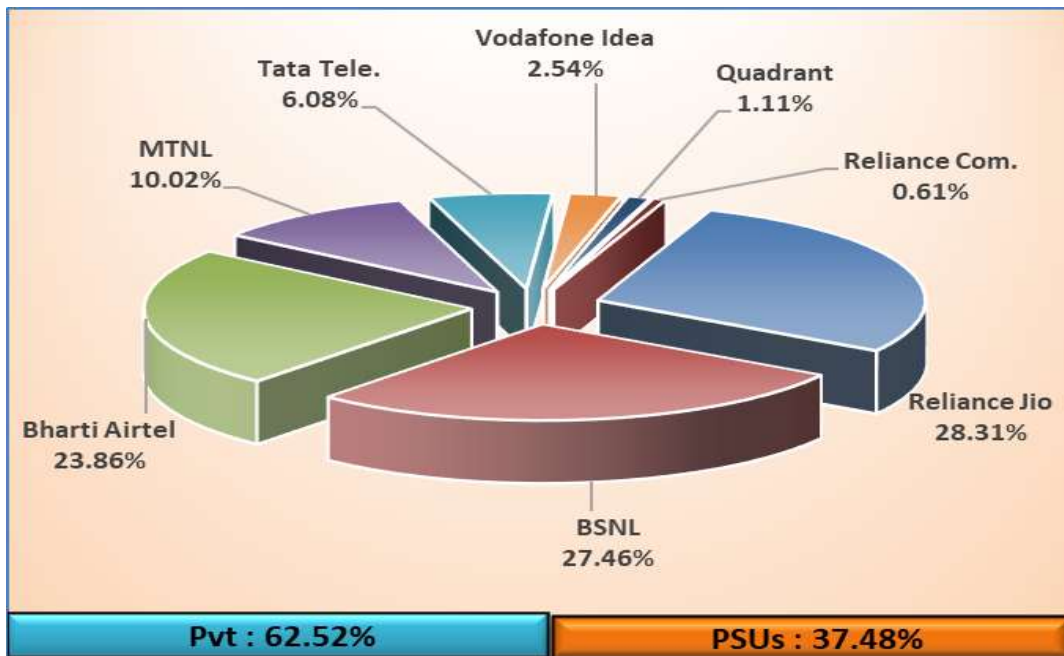
## VII. Wireline Subscribers

- Wireline subscribers increased from 25.63 million at the end of July-22 to 25.97 million at the end of August-22. Net increase in the wireline subscriber base was 0.34 million with a monthly growth rate of 1.34%. The share of urban and rural subscribers in total wireline subscribers were 92.35% and 7.65% respectively at the end of August, 2022.
- The Overall Wireline Tele-density in India increased from 1.86% at the end of July-22 to 1.88% at the end of August-22. Urban and Rural Wireline Tele-density were 4.96% and 0.22% respectively during the same period.

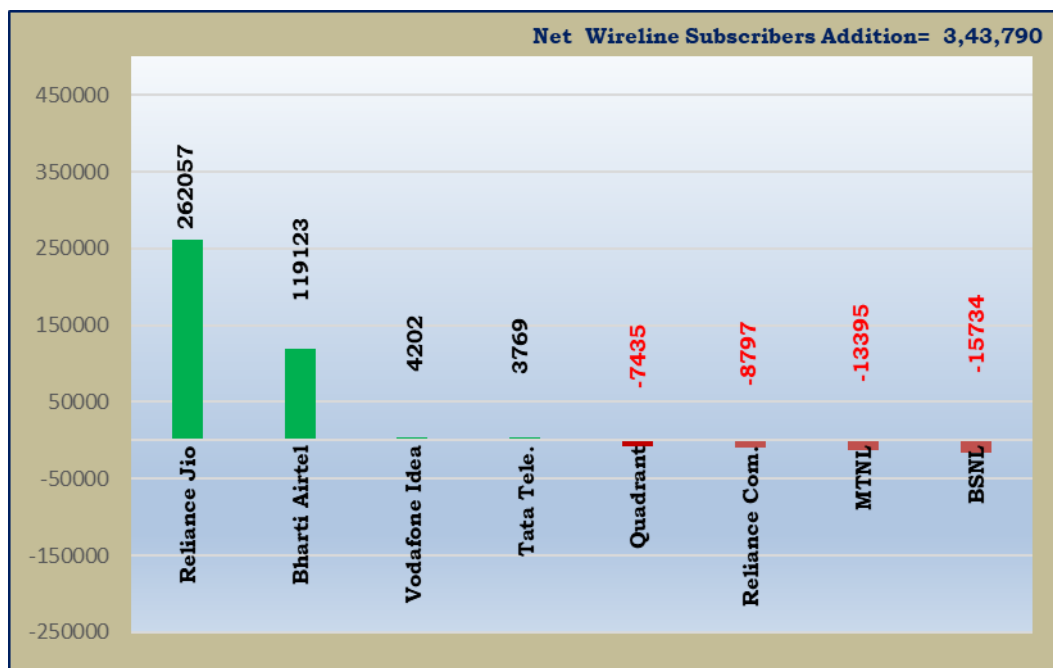
- BSNL and MTNL, the two PSU access service providers, held 37.48% of the wireline market share as on 31<sup>st</sup> August, 2022.

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

**Access Service Provider-wise Market Share of Wireline Subscribers as on 31<sup>st</sup> August, 2022**



**Access Service Provider-wise Net Addition/Decline in Wireline Subscribers during the month of August, 2022**



## VIII. Broadband Subscriber

- As per the information received from 767 operators in August, 2022 in comparison to 694 Operator in July 2022, the total Broadband Subscribers increased from 807.42 million at the end of July-22 to 813.94 million at the end of August-22 with a monthly growth rate of 0.81%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

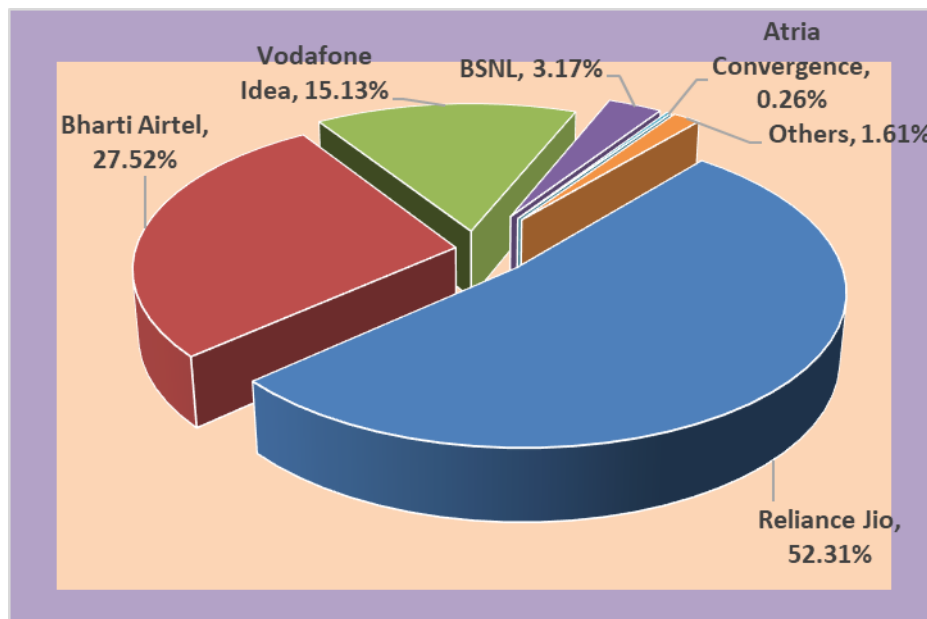
### Segment-wise Broadband Subscribers and Monthly Growth Rate in the month of August, 2022

Segment	Broadband subscribers (in million)		Monthly growth rate in the month of August, 2022
	As on 31 <sup>st</sup> July, 2022	As on 31 <sup>st</sup> Aug, 2022	
Wired subscribers	29.47	30.37	3.06%
Mobile devices users (Phones and dongles)	776.81	782.46	0.73%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	1.14	1.11	-2.37%
<b>Total</b>	<b>807.42</b>	<b>813.94</b>	<b>0.81%</b>

- Top five service providers constituted 98.39% market share of the total broadband subscribers at the end of August-22. These service providers were Reliance Jio Infocomm Ltd (425.80 million), Bharti Airtel (223.98 million), Vodafone Idea (123.12 million), BSNL (25.80 million) and Atria Convergence (2.13 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 31<sup>st</sup> August, 2022**



- As on 31<sup>st</sup> August, 2022, the top five Wired Broadband Service providers were Reliance Jio Infocomm Ltd (6.56 million), Bharti Airtel (5.13 million), BSNL (3.88 million), Atria Convergence Technologies (2.13 million) and Hathway Cable & Datacom (1.13 million).

As on 31<sup>st</sup> August, 2022, the top five Wireless Broadband Service providers were Reliance Jio Infocom Ltd (419.24 million), Bharti Airtel (218.85 million), Vodafone Idea (123.12 million), BSNL (21.92 million) and Intech Online Pvt. Ltd. (0.23 million).

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

**Wireless Subscriber Base**

**Annexure-I**

Circle	Bharti Airtel (including Tata)		Reliance Com.		Vodafone Idea		BSNL		BSNL (VNO's)		MTNL		Reliance Jio		Total		Net Addition
	Jul-22	Aug-22	Jul-22	Aug-22	Jul-22	Aug-22	Jul-22	Aug-22	Jul-22	Aug-22	Jul-22	Aug-22	Jul-22	Aug-22	Jul-22	Aug-22	
Andhra Pradesh	31662370	31693515			13003669	12957328	8975581	8976822					29515342	29685731	83156962	83313396	156434
Assam	10,267,397	10,350,589			2364854	2316904	3267601	3289812					8410618	8416567	24310470	24373872	63402
Bihar	38,816,333	39,154,621			10128738	10115082	5627609	5646915					35111834	35548114	89684514	90464732	780218
Delhi	16304284	16358878	200	198	16444876	16530586					1692461	1691991	18175459	18230624	52617280	52812277	194997
Gujarat	11503148	11371451	61	57	23746631	23683216	5429139	5364415					26583026	26733663	67262005	67152802	-109203
Haryana	6240683	6281489	13	13	7800804	7771735	4674849	4633316					8102509	8003839	26818858	26690392	-128466
Himachal Pradesh	3320505	3351375	92	92	535351	528275	2699499	2658073					3249709	3252931	9805156	9790746	-14410
J & K	5835259	5848363	0	0	427464	428138	830837	834456					4820174	4899513	11913734	12010470	96736
Karnataka	30818598	30882862	610	601	7520391	7442360	6706785	6610337					20352298	20511660	65398682	65447820	49138
Kerala	7827365	7808380	152	152	15120953	15078888	10291573	10184966					9591904	9686259	42831947	42758645	-73302
Kolkata	5707578	5682836	0	0	6061242	6024917	2174826	2184737					10075670	10057795	24019316	23950285	-69031
Madhya Pradesh	15341652	15344621	0	0	19404464	19166403	5737343	5676648					37020701	37406556	77504160	77594228	90068
Maharashtra	20441867	20438915	0	0	27466723	26908840	6469963	6502724					37999072	38380673	92377625	92231152	-146473
Mumbai	9372923	9359238	1203	1197	11597665	11532881					1085252	1085252	11880697	11920588	33937740	33899156	-38584
North East	5744822	5749887	0	0	1062224	1036909	1,404,098	1,398,132					3824552	3904306	12035696	12089234	53538
Odisha	11214048	11234951	34	32	1705100	1680848	6,303,809	6,316,772					13696162	13779310	32919153	33011913	92760
Punjab	11993803	12027193	114	113	8302554	8210720	5,153,397	5,076,739					10925686	11036940	36375554	36351705	-23849
Rajasthan	22039493	22159978	161	161	10835672	10750310	6,426,475	6,411,947					23995947	24119101	63297748	63441497	143749
Tamil Nadu	27138932	27082054	277	272	17638986	17555468	9,610,858	9,542,312	69,583	73,727			23835394	23881355	78294030	78135188	-158842
U.P.(E)	36775541	36508080	0	0	20069503	19910512	10,717,989	10,644,914					34020610	34571305	101583643	101634811	51168
U.P.(W)	18775362	18758857	8	8	18303435	18103713	5,763,968	5,736,206					21800647	21986731	64643420	64585515	-57905
West Bengal	16339802	16359837	160	157	15561404	15410317	2,368,727	2,372,905					22972072	23228221	57242165	57371437	129272
<b>Total</b>	<b>363481765</b>	<b>363807970</b>	<b>3085</b>	<b>3053</b>	<b>255102703</b>	<b>253144350</b>	<b>110634926</b>	<b>110063148</b>	<b>69583</b>	<b>73727</b>	<b>2777713</b>	<b>2777243</b>	<b>415960083</b>	<b>419241782</b>	<b>1148029858</b>	<b>1149111273</b>	<b>1081415</b>
<b>Net Addition</b>		<b>326205</b>		<b>-32</b>		<b>-1958353</b>		<b>-571778</b>		<b>4144</b>		<b>-470</b>		<b>3281699</b>	0	<b>1081415</b>	
<b>Rural Subscribers</b>	<b>175,208,104</b>	<b>175,739,263</b>	0	0	<b>127925974</b>	<b>126620697</b>	<b>35,652,731</b>	<b>35,448,613</b>	0	0	<b>35373</b>	<b>35363</b>	<b>182464490</b>	<b>184177190</b>	<b>521286672</b>	<b>522021126</b>	<b>734454</b>

<b>Proportion of VLR on the date of Peak VLR in the month of Aug-22 (%)</b>							<b>Annexure-II</b>
<b>Circle</b>	<b>Bharti</b>	<b>BSNL</b>	<b>Vodafone Idea</b>	<b>MTNL</b>	<b>Reliance Com.</b>	<b>Reliance Jio</b>	<b>Total</b>
<b>Andhra Pradesh</b>	98.92	57.46	90.09		-	91.70	<b>90.51</b>
<b>Assam</b>	98.14	41.97	90.15		-	95.25	<b>88.80</b>
<b>Bihar</b>	92.16	46.18	76.64		-	93.51	<b>88.08</b>
<b>Delhi</b>	102.02		66.75	18.07	94.95	88.94	<b>83.77</b>
<b>Gujarat</b>	105.36	46.98	89.47		110.53	89.28	<b>88.69</b>
<b>Haryana</b>	103.32	34.50	84.83		100.00	92.88	<b>82.86</b>
<b>Himachal Pradesh</b>	101.63	38.09	105.18		44.57	101.26	<b>84.45</b>
<b>J &amp; K</b>	92.08	79.25	76.56		-	87.28	<b>88.68</b>
<b>Karnataka</b>	97.12	48.82	88.12		94.84	93.38	<b>90.05</b>
<b>Kerala</b>	104.56	73.44	92.49		101.97	94.93	<b>90.71</b>
<b>Kolkata</b>	93.81	46.00	87.65		-	97.11	<b>89.29</b>
<b>Madhya Pradesh</b>	97.03	46.69	81.03		-	92.62	<b>87.27</b>
<b>Maharashtra</b>	106.21	61.44	85.89		-	96.58	<b>93.12</b>
<b>Mumbai</b>	91.33		70.95	30.63	68.67	81.85	<b>79.12</b>
<b>North East</b>	105.29	56.72	94.01		-	103.57	<b>98.15</b>
<b>Odisha</b>	98.23	53.24	93.95		40.63	96.98	<b>88.88</b>
<b>Punjab</b>	100.76	41.73	82.63		67.26	79.11	<b>81.85</b>
<b>Rajasthan</b>	99.13	41.64	90.71		62.11	91.93	<b>89.15</b>
<b>Tamil Nadu</b>	100.13	70.14	93.76		101.10	92.96	<b>92.82</b>
<b>U.P. (E)</b>	97.00	31.18	84.03		-	89.05	<b>84.86</b>
<b>U.P. (W)</b>	98.12	37.77	82.65		100.00	85.26	<b>84.05</b>
<b>West Bengal</b>	93.98	73.92	85.78		45.86	92.29	<b>90.26</b>
<b>Total</b>	<b>98.31</b>	<b>51.05</b>	<b>84.65</b>	<b>22.98</b>	<b>78.48</b>	<b>91.75</b>	<b>88.19</b>

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
	Jul-22	Aug-22	Jul-22	Aug-22	Jul-22	Aug-22	Jul-22	Aug-22	Jul-22	Aug-22	Jul-22	Aug-22	Jul-22	Aug-22	Jul-22	Aug-22	Jul-22	Aug-22	
Andhra Pradesh	678186	677212			367718	376860	20814	20428	155653	155385			71985	74615	815166	850219	<b>2109522</b>	<b>2154719</b>	<b>45197</b>
Assam	106,553	107,153			12122	13172	0	0	0	0			2760	2730	117131	121876	<b>238566</b>	<b>244931</b>	<b>6365</b>
Bihar	161,015	159,565			0	0	9	9	8312	8791			1890	1980	313553	330474	<b>484779</b>	<b>500819</b>	<b>16040</b>
Delhi	0	0	1259702	1255347	1787467	1806892	28077	23866	138750	140878			80500	83610	701322	713455	<b>3995818</b>	<b>4024048</b>	<b>28230</b>
Gujarat	366935	359693			162226	166291	2549	2266	76397	76342			47666	47566	425750	435989	<b>1081523</b>	<b>1088147</b>	<b>6624</b>
Haryana	184779	186343			61897	63483	0	0	31676	31617			360	360	80454	83239	<b>359166</b>	<b>365042</b>	<b>5876</b>
Himachal Pradesh	88025	88095			1787	1850	0	0	1561	1562			30	30	38060	39819	<b>129463</b>	<b>131356</b>	<b>1893</b>
J & K	94895	93027			46507	47887	0	0	0	0			30	30	154877	159111	<b>296309</b>	<b>300055</b>	<b>3746</b>
Karnataka	871239	872693			953479	968656	21106	20680	227408	226273			126992	123972	606852	631126	<b>2807076</b>	<b>2843400</b>	<b>36324</b>
Kerala	1022512	1030807			81692	82525	4229	4105	18856	19323			6960	6900	177572	184973	<b>1311821</b>	<b>1328633</b>	<b>16812</b>
Kolkata	218304	215282			172826	173913	5983	5506	47010	47086			14095	14175	323460	337956	<b>781678</b>	<b>793918</b>	<b>12240</b>
Madhya Pradesh	267551	263388			374060	381161	5	5	12086	12173			25365	25365	430743	448412	<b>1109810</b>	<b>1130504</b>	<b>20694</b>
Maharashtra	662159	654869			305167	313389	10106	9958	209014	209105			25893	26183	183055	188356	<b>1395394</b>	<b>1401860</b>	<b>6466</b>
Mumbai	0	0	1355663	1346623	486075	491343	48715	46969	476651	477757			171291	173266	638240	658015	<b>3176635</b>	<b>3193973</b>	<b>17338</b>
North East	78790	77264			0	0	0	0	0	0			330	360	102932	108678	<b>182052</b>	<b>186302</b>	<b>4250</b>
Odisha	179284	177525			0	1066	4	4	8133	8583			3530	3530	154388	162566	<b>345339</b>	<b>353274</b>	<b>7935</b>
Punjab	308444	309327			193053	196752	2323	1974	14130	14804	296499	289064	2010	2040	197861	205767	<b>1014320</b>	<b>1019728</b>	<b>5408</b>
Rajasthan	287560	288233			157827	164538	3666	3430	13033	12942			15270	15295	261296	272107	<b>738652</b>	<b>756545</b>	<b>17893</b>
Tamil Nadu	999878	997668			699543	708694	20690	20279	119816	119652			37920	37110	536446	554789	<b>2414293</b>	<b>2438192</b>	<b>23899</b>
U.P.(E)	142154	141427			122755	144667	20	20	8255	8261			16750	16720	319587	332583	<b>609521</b>	<b>643678</b>	<b>34157</b>
U.P.(W)	189560	188012			91754	93939	10	10	4758	4741			3716	3708	348810	364227	<b>638608</b>	<b>654637</b>	<b>16029</b>
West Bengal	240307	244813			0	0	13	13	2631	2624			120	120	163064	168939	<b>406135</b>	<b>416509</b>	<b>10374</b>
<b>Total</b>	<b>7148130</b>	<b>7132396</b>	<b>2615365</b>	<b>2601970</b>	<b>6077955</b>	<b>6197078</b>	<b>168319</b>	<b>159522</b>	<b>1574130</b>	<b>1577899</b>	<b>296499</b>	<b>289064</b>	<b>655463</b>	<b>659665</b>	<b>7090619</b>	<b>7352676</b>	<b>25626480</b>	<b>25970270</b>	<b>343790</b>
<b>Net Addition</b>		<b>-15734</b>		<b>-13395</b>		<b>119123</b>		<b>-8797</b>		<b>3769</b>		<b>-7435</b>		<b>4202</b>		<b>262057</b>		<b>343790</b>	
<b>Rural Subscribers</b>	1785082	1796254	35	34	0	0	388	358	32594	32620	21337	21337	0	0	131794	137009	<b>1971230</b>	<b>1987612</b>	<b>16382</b>



## 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: -

<b>1</b>	<b>Total IMSI's in HLR (A)</b>
<b>2</b>	<b>Less: (B = a + b + c + d + e)</b>
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
<b>3</b>	<b>Subscribers Base (A-B)</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.