

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 27<sup>th</sup> January, 2023

(www.trai.gov.in)

**Highlights of Telecom Subscription Data as on 30<sup>th</sup> November, 2022**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
<b>Broadband Subscribers</b> (Million)	<b>793.55</b>	<b>31.83</b>	<b>825.38</b>
<b>Urban Telephone Subscribers</b> (Million)	<b>626.60</b>	<b>25.08</b>	<b>651.68</b>
Net Addition in November, 2022 (Million)	1.49	0.27	1.76
Monthly Growth Rate	0.24%	1.10%	0.27%
<b>Rural Telephone Subscribers</b> (Million)	<b>516.45</b>	<b>2.05</b>	<b>518.50</b>
Net Addition in November, 2022 (Million)	-2.00	0.041	-1.96
Monthly Growth Rate	-0.39%	2.03%	-0.38%
<b>Total Telephone Subscribers</b> (Million)	<b>1143.04</b>	<b>27.13</b>	<b>1170.18</b>
Net Addition in November, 2022 (Million)	-0.52	0.31	-0.20
Monthly Growth Rate	-0.05%	1.17%	-0.02%
<b>Overall Tele-density*(%)</b>	<b>82.64%</b>	<b>1.96%</b>	<b>84.61%</b>
Urban Tele-density*(%)	129.05%	5.17%	134.22%
Rural Tele-density*(%)	57.54%	0.23%	57.77%
Share of Urban Subscribers	54.82%	92.44%	55.69%
Share of Rural Subscribers	45.18%	7.56%	44.31%

- ❖ In the month of November, 2022, 12.02 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 759.92 million at the end of October-22 to 771.94 million at the end of November-22, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in November, 2022 was 1012.33 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. Broadband Subscriber

- As per the information received from 887 operators in November, 2022 in comparison to 874 Operator in October 2022, the total Broadband Subscribers increased from 821.49 million at the end of

October-22 to 825.38 million at the end of November-22 with a monthly growth rate of 0.47%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

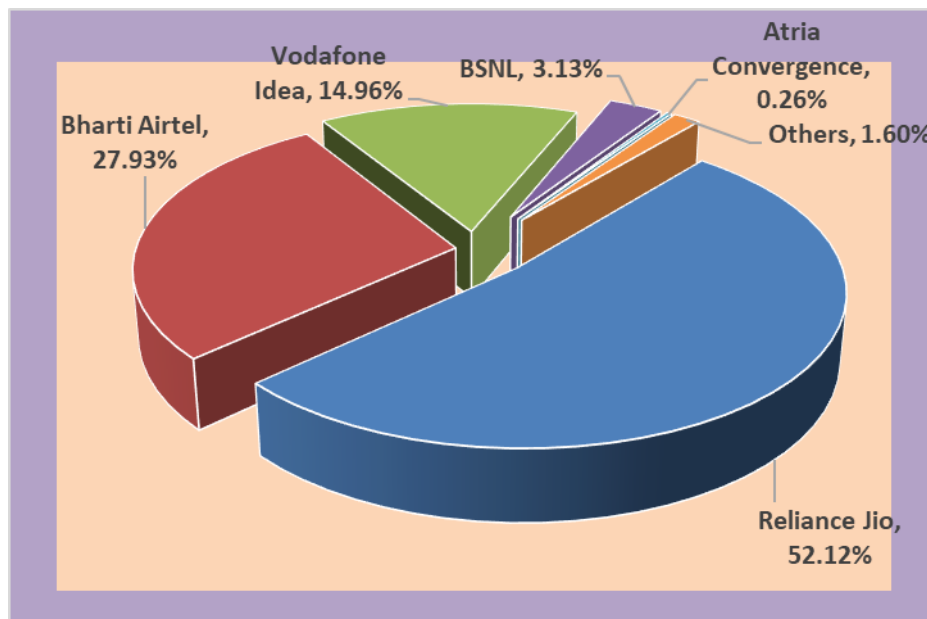
### Segment-wise Broadband Subscribers and Monthly Growth Rate in the month of November, 2022

Segment	Broadband subscribers (in million)		Monthly growth rate in the month of November, 2022
	As on 31 <sup>st</sup> October, 2022	As on 30 <sup>th</sup> November, 2022	
Wired subscribers	31.35	31.83	1.51%
Mobile devices users (Phones and dongles)	789.10	792.47	0.43%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to- Point Radio & VSAT)	1.04	1.08	3.91%
<b>Total</b>	<b>821.49</b>	<b>825.38</b>	<b>0.47%</b>

- Top five service providers constituted 98.40% market share of the total broadband subscribers at the end of November-22. These service providers were Reliance Jio Infocomm Ltd (430.18 million), Bharti Airtel (230.56 million), Vodafone Idea (123.48 million), BSNL (25.85 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 30<sup>th</sup> November, 2022**

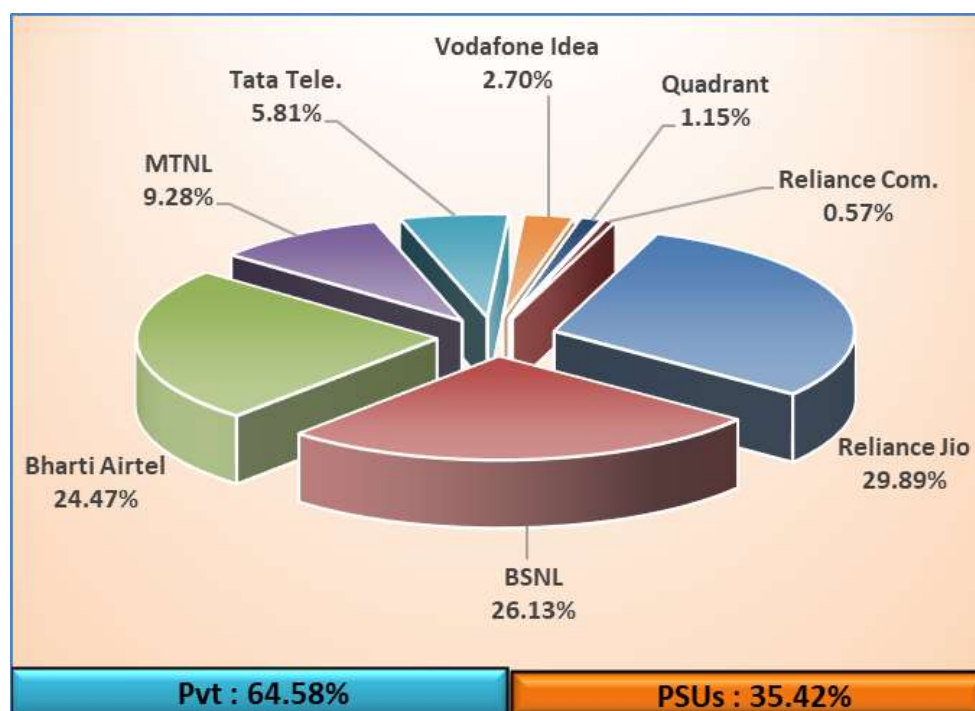


- As on 30<sup>th</sup> November, 2022, the top five Wired Broadband Service providers were Reliance Jio Infocomm Ltd (7.38 million), Bharti Airtel (5.56 million), BSNL (4.02 million), Atria Convergence Technologies (2.14 million) and Hathway Cable & Datacom (1.13 million).
- As on 30<sup>th</sup> November, 2022, the top five Wireless Broadband Service providers were Reliance Jio Infocom Ltd (422.81 million), Bharti Airtel (225 million), Vodafone Idea (123.47 million), BSNL (21.83 million) and Intech Online Pvt. Ltd. (0.23 million).

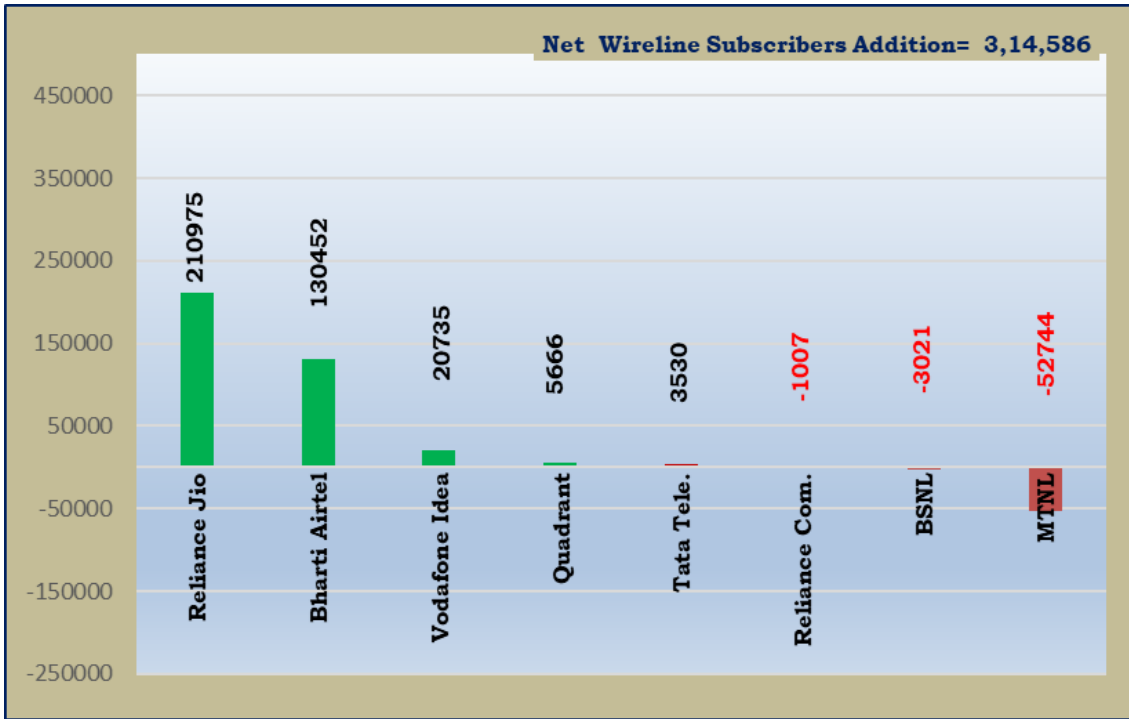
## II. Wireline Subscribers

- Wireline subscribers increased from 26.82 million at the end of October-22 to 27.13 million at the end of November-22. Net increase in the wireline subscriber base was 0.31 million with a monthly growth rate of 1.17%. The share of urban and rural subscribers in total wireline subscribers were 92.44% and 7.56% respectively at the end of November, 2022.
- The Overall Wireline Tele-density in India increased from 1.94% at the end of October-22 to 1.96% at the end of November-22. Urban and Rural Wireline Tele-density were 5.17% and 0.23% respectively during the same period.
- BSNL and MTNL, the two PSU access service providers, held 35.42% of the wireline market share as on 30<sup>th</sup> November, 2022. Detailed statistics of wireline subscriber base are available at **Annexure-III**.

### Access Service Provider-wise Market Share of Wireline Subscribers as on 30<sup>th</sup> November, 2022



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



### III. Wireless subscriber

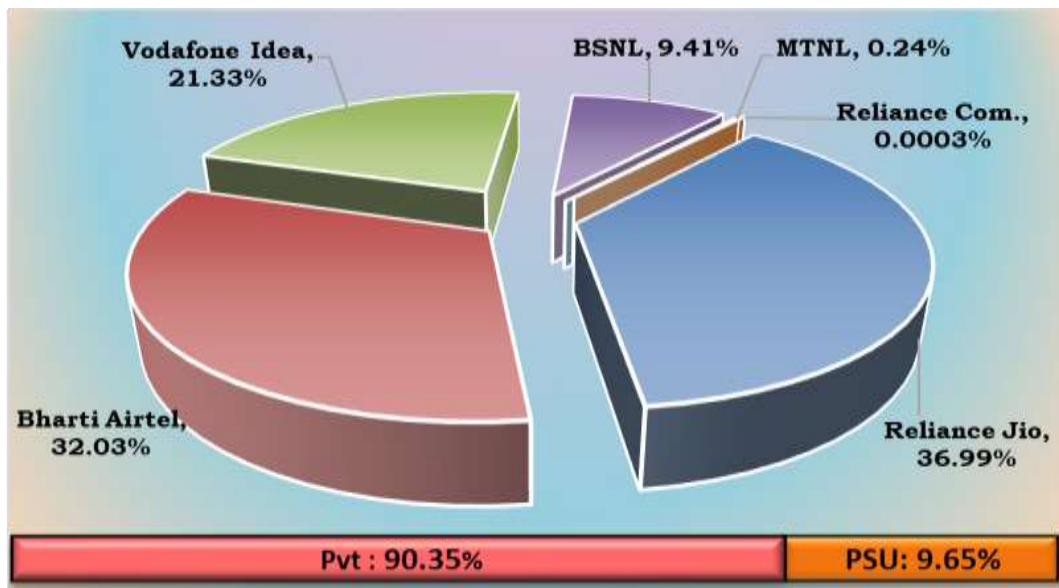
• Total wireless subscribers decreased from 1,143.63 million at the end of October-22, to 1,143.04 million at the end of November-22, thereby registering a monthly decline rate of 0.05%. Wireless subscription in urban areas increased from 625.18 million at the end of October-22 to 626.60 million at the end of November-22 however, wireless subscription in rural areas decreased from 518.45 million to 516.45 million during the same period. Monthly growth rates of urban and rural wireless subscription were 0.24% and -0.39% respectively.



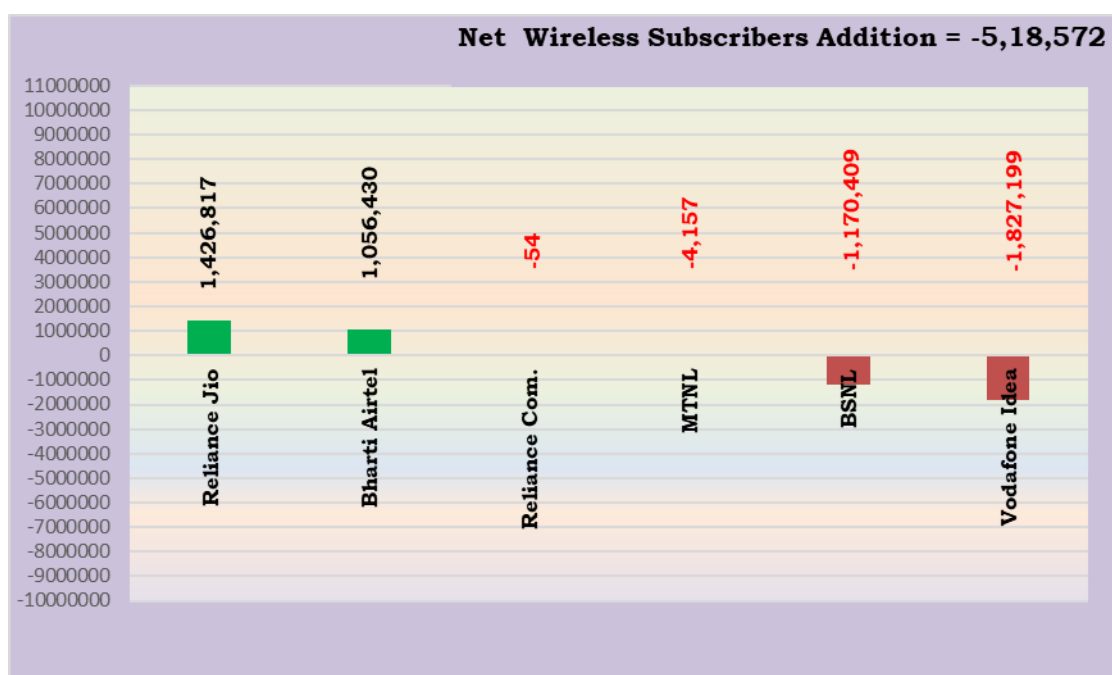
• The Wireless Tele-density in India decreased from 82.75% at the end of October-22 to 82.64% at the end of November-22. The Urban Wireless Tele-density increased from 128.96% at the end of October-22 to 129.05% at the end of November-22 however, Rural Tele-density decreased from 57.78% to 57.54% during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.82% and 45.18% respectively at the end of November-22. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

- As on 30<sup>th</sup> November, 2022, the private access service providers held 90.35% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 9.65%.
- 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 30<sup>th</sup> November, 2022**

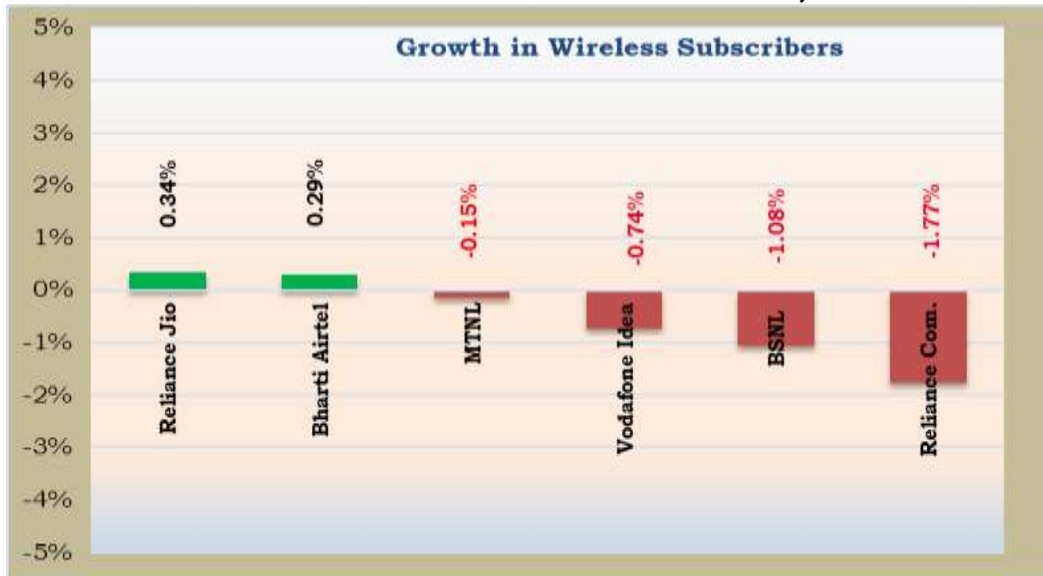


**Net Addition in Wireless Subscribers of Access Service Providers in the month of November, 2022**



## Growth in Wireless Subscribers

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



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

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

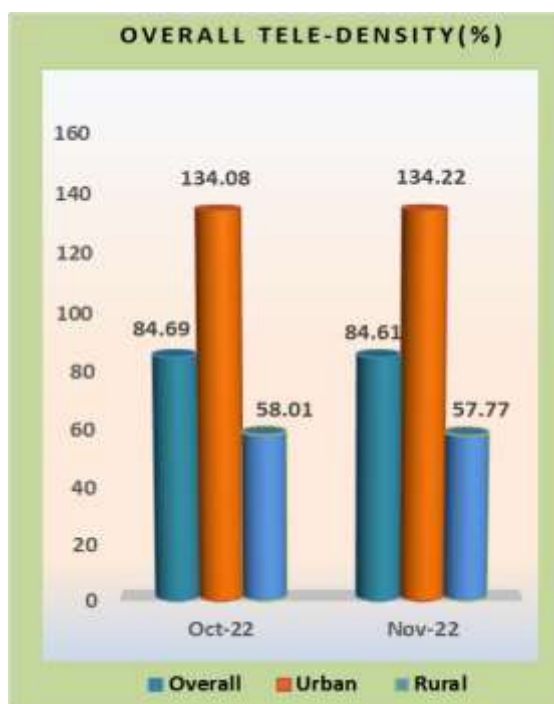


- Except Karnataka, Tamil Nadu, Delhi, Kolkata, Odisha, Assam, Bihar, North East, Haryana and Kerala service areas, all other service areas have showed decline rate in their wireless subscribers during the month of November-22.



#### IV. Total Telephone Subscribers

- The number of telephone subscribers in India decreased from 1,170.45 million at the end of October-22 to 1,170.18 million at the end of November-22, thereby showing a monthly decline rate of 0.02%. Urban telephone subscription increased from 649.99 million at the end of October-22 to 651.68 million at the end of November-22 however, the rural subscription decreased from 520.46 million to 518.50 million during the same period. The monthly growth rates of urban and rural telephone subscription were 0.27% and -0.38% respectively during the month of November-22.



- The overall Tele-density in India decreased 84.69% at the end of October-22 to 84.61% at the end of November-22. The Urban Tele-density increased from 134.08% at the end of October-22 to 134.22% at the end of November-22 however, Rural Tele-decreased from 58.01% to 57.77% during the same period. The share of urban and rural subscribers in total number of telephone subscribers at the end of November-22 was 55.69% and 44.31% respectively.

## Overall Tele-density (LSA Wise) – As on 30<sup>th</sup> November, 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 November-22. Delhi service area has maximum tele-density of 270.76% and the Bihar service area has minimum tele-density of 55.44% at the end of November-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.

## V. Category-wise Growth in subscriber base

### Circle Category-wise Net Additions in Telephone Subscribers in the month of November 2022

Circle Category	Net additions in the month of November, 2022		Telephone Subscriber base as on 30 <sup>th</sup> November, 2022	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	124,452	3,31,340	1,03,61,356	38,43,32,361
Circle B	114,933	-14,26,478	67,00,924	46,44,16,549
Circle C	52,440	3,24,061	19,11,439	18,29,92,973
Metro	22,761	2,52,505	81,60,739	11,13,00,039
<b>All India</b>	<b>3,14,586</b>	<b>-5,18,572</b>	<b>2,71,34,458</b>	<b>1,14,30,41,922</b>

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

Circle Category	Monthly growth rate (%) (October -22 to November-22)		Yearly growth rate (%) (November-21 to November-22)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	1.22%	0.09%	15.36%	-3.28%
Circle B	1.75%	-0.31%	22.94%	-3.02%
Circle C	2.82%	0.18%	36.62%	2.15%
Metro	0.28%	0.23%	5.77%	-0.70%
<b>All India</b>	<b>1.17%</b>	<b>-0.05%</b>	<b>15.24%</b>	<b>-2.09%</b>

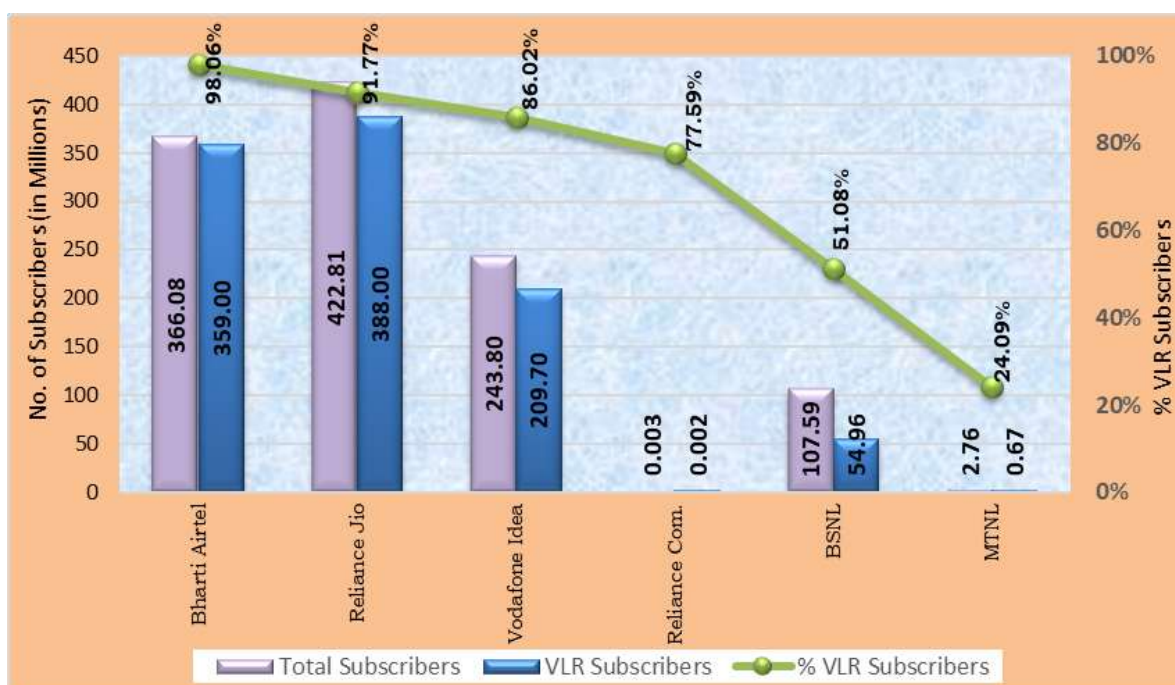
Note: Circle Category-Metro includes Delhi, Mumbai and Kolkata. Data for Chennai has been included in Circle Category-A, as part of TamilNadu.

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

## VI. Active Wireless Subscribers (VLR Data)

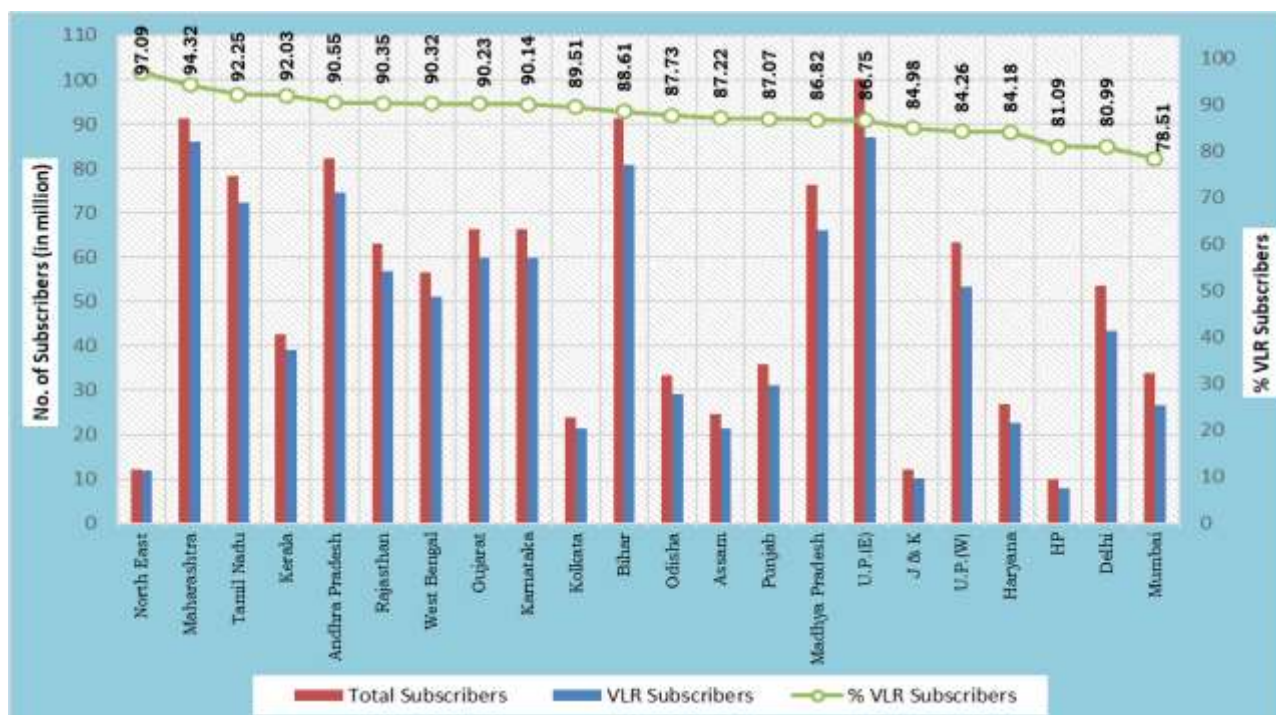
- Out of the total 1,143.04 million wireless subscribers, 1012.33 million wireless subscribers were active on the date of peak VLR in the month of November-22. The proportion of active wireless subscribers was approximately 88.56% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of November-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 November, 2022**



- Bharti Airtel has the maximum proportion 98.06% of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of peak VLR in the month of November-22 and MTNL has the minimum proportion of VLR 24.09% of its HLR during the same period.

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



### 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 November-22, a total of 12.02 million requests were received for MNP. Out of total 12.02 million new requests, 7.07 million requests received from Zone-I and 4.96 million requests received from Zone-II. The cumulative MNP requests increased from 759.92 million at the end of October-22 to 771.94 million at the end of November-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 Uttar Pradesh-East (about 64.34 million) followed by Maharashtra (about 63.72 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 57.80 million) followed by Karnataka (about 57.59 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>Oct-22</b>	<b>Nov-22</b>		<b>Oct-22</b>	<b>Nov-22</b>
Delhi	36.41	36.99	Andhra Pradesh	55.11	55.73
Gujarat	51.68	52.50	Assam	5.43	5.51
Haryana	24.82	25.12	Bihar	39.21	39.98
Himachal Pradesh	3.39	3.43	Karnataka	56.99	57.59
Jammu & Kashmir	1.74	1.77	Kerala	19.81	20.03
Maharashtra	62.67	63.72	Kolkata	15.04	15.20
Mumbai	28.76	29.02	Madhya Pradesh	56.72	57.80
Punjab	27.17	27.47	North East	1.85	1.87
Rajasthan	54.07	54.80	Odisha	14.18	14.33
U.P.(East)	62.65	64.34	Tamil Nadu	52.62	53.15
U.P.(West)	48.91	50.20	West Bengal	40.67	41.40
<b>Total</b>	<b>402.29</b>	<b>409.36</b>	<b>Total</b>	<b>357.63</b>	<b>362.58</b>
<b>Total (Zone-1 + Zone-2)</b>				<b>759.92</b>	<b>771.94</b>
<b>Net Addition (November, 2022)</b>			<b>12.02 million</b>		

**Contact details in case of any clarification: -**

Shri Amit Sharma, Advisor (F&EA),  
Telecom Regulatory Authority of India,  
Mahanagar Doorsanchar Bhawan,  
Jawahar Lal Nehru Marg,  
New Delhi – 110002,  
Ph: 011-23234367, Fax: 011-23235249  
E-mail: [advfea2@traigov.in](mailto:advfea2@traigov.in)

**(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
	Oct-22	Nov-22	Oct-22	Nov-22	Oct-22	Nov-22	Oct-22	Nov-22	Oct-22	Nov-22	Oct-22	Nov-22	Oct-22	Nov-22	Oct-22	Nov-22	
Andhra Pradesh	31881272	31986320			12300968	12189800	8781567	8294784					29691246	29858919	<b>82655053</b>	<b>82329823</b>	-325230
Assam	10,502,842	10,574,415			2203229	2169994	3336449	3297907					8488456	8542805	<b>24530976</b>	<b>24585121</b>	54145
Bihar	39,544,824	39,646,114			9700393	9533826	5690177	5730724					36085593	36310101	<b>91020987</b>	<b>91220765</b>	199778
Delhi	16546528	16689920	198	197	16668651	16773385					1691203	1690857	18293364	18318430	<b>53199944</b>	<b>53472789</b>	272845
Gujarat	11240322	11286317	57	56	22971933	22802688	5233513	5186621					26853347	26979972	<b>66299172</b>	<b>66255654</b>	-43518
Haryana	6385784	6459040	13	12	7633531	7567239	4709067	4702058					7981082	8026673	<b>26709477</b>	<b>26755022</b>	45545
Himachal Pradesh	3397367	3408687	92	92	510985	505671	2613635	2526660					3290053	3328111	<b>9812132</b>	<b>9769221</b>	-42911
J & K	5840123	5819809	0	0	408684	399193	833458	832052					4981591	5006524	<b>12063856</b>	<b>12057578</b>	-6278
Karnataka	30969953	31070659	601	596	7636633	7748135	6516496	6514593					20627732	20933629	<b>65751415</b>	<b>66267612</b>	516197
Kerala	7842755	7902200	152	127	14878749	14775767	10011031	9980393					9750919	9873408	<b>42483606</b>	<b>42531895</b>	48289
Kolkata	5688040	5698150	0	0	5947569	5929730	2150086	2158282					10079669	10155835	<b>23865364</b>	<b>23941997</b>	76633
Madhya Pradesh	15289095	15219958	0	0	17867798	17630923	5542016	5504944					37826692	37819183	<b>76525601</b>	<b>76175008</b>	-350593
Maharashtra	20649914	20815369	0	0	25785346	25224424	6411561	6390616					38605459	38794891	<b>91452280</b>	<b>91225300</b>	-226980
Mumbai	9462952	9427519	1197	1186	11515155	11433688					1074959	1071148	11927963	11951712	<b>33982226</b>	<b>33885253</b>	-96973
North East	5798015	5813244	0	0	1004679	990057	1,385,412	1,379,535					3915585	3944651	<b>12103691</b>	<b>12127487</b>	23796
Odisha	11360062	11390700	32	30	1645826	1653617	6,320,827	6,323,737					13810523	13864717	<b>33137270</b>	<b>33232801</b>	95531
Punjab	12105740	12176302	113	113	7544015	7467094	5,051,223	4,987,442					11183703	11129275	<b>35884794</b>	<b>35760226</b>	-124568
Rajasthan	21978942	21858415	161	159	10400783	10349423	6,378,687	6,356,440					24298718	24375102	<b>63057291</b>	<b>62939539</b>	-117752
Tamil Nadu	27255080	27429986	271	271	17221976	17288073	9,537,386	9,538,723	73,198	82,002			23755190	23914917	<b>77843101</b>	<b>78253972</b>	410871
U.P.(E)	36158120	36188001	0	0	19331519	19299489	10,147,502	9,786,103					34743042	35011960	<b>100380183</b>	<b>100285553</b>	-94630
U.P.(W)	18635968	18596553	8	8	17532134	17259455	5,648,600	5,615,695					22105744	21881903	<b>63922454</b>	<b>63353614</b>	-568840
West Bengal	16492148	16624598	157	151	14912584	14804270	2,389,825	2,401,996					23084907	22784677	<b>56879621</b>	<b>56615692</b>	-263929
<b>Total</b>	<b>365025846</b>	<b>366082276</b>	<b>3052</b>	<b>2998</b>	<b>245623140</b>	<b>243795941</b>	<b>108688518</b>	<b>107509305</b>	<b>73198</b>	<b>82002</b>	<b>2766162</b>	<b>2762005</b>	<b>421380578</b>	<b>422807395</b>	<b>1143560494</b>	<b>1143041922</b>	<b>-518572</b>
<b>Net Addition</b>		<b>1056430</b>		<b>-54</b>		<b>-1827199</b>		<b>-1179213</b>		<b>8804</b>		<b>-4157</b>		<b>1426817</b>	0	<b>-518572</b>	
<b>Rural Subscribers</b>	<b>177,267,773</b>	<b>176,534,657</b>	0	0	<b>121161494</b>	<b>119796159</b>	<b>34,880,358</b>	<b>34,409,406</b>	0	0	35346	35339	185104088	185669882	<b>518449059</b>	<b>516445443</b>	<b>-2003616</b>

<b>Proportion of VLR on the date of Peak VLR in the month of Nov-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>	98.32	60.43	92.42		-	89.84	<b>90.55</b>
<b>Assam</b>	96.19	41.65	90.53		-	92.86	<b>87.22</b>
<b>Bihar</b>	91.80	42.36	80.10		-	94.66	<b>88.61</b>
<b>Delhi</b>	98.01		63.57	17.33	85.79	87.30	<b>80.99</b>
<b>Gujarat</b>	106.44	44.54	91.46		96.43	91.20	<b>90.23</b>
<b>Haryana</b>	102.97	32.10	88.04		100.00	95.93	<b>84.18</b>
<b>Himachal Pradesh</b>	96.61	38.64	98.34		43.48	94.80	<b>81.09</b>
<b>J &amp; K</b>	90.38	74.13	79.48		-	80.94	<b>84.98</b>
<b>Karnataka</b>	98.12	47.72	83.71		94.30	93.87	<b>90.14</b>
<b>Kerala</b>	102.56	80.25	92.59		118.90	94.68	<b>92.03</b>
<b>Kolkata</b>	95.40	44.79	88.07		-	96.54	<b>89.51</b>
<b>Madhya Pradesh</b>	98.48	45.93	85.54		-	88.67	<b>86.82</b>
<b>Maharashtra</b>	106.54	62.33	88.89		-	96.57	<b>94.32</b>
<b>Mumbai</b>	90.71		69.55	34.76	68.38	81.39	<b>78.51</b>
<b>North East</b>	103.32	56.15	93.92		-	103.01	<b>97.09</b>
<b>Odisha</b>	98.48	51.31	94.92		40.00	94.66	<b>87.73</b>
<b>Punjab</b>	98.71	40.79	90.23		63.72	92.96	<b>87.07</b>
<b>Rajasthan</b>	100.14	40.97	93.16		61.01	93.27	<b>90.35</b>
<b>Tamil Nadu</b>	99.73	68.61	92.28		97.42	93.16	<b>92.25</b>
<b>U.P. (E)</b>	97.09	32.04	86.42		-	91.53	<b>86.75</b>
<b>U.P. (W)</b>	99.14	36.59	84.81		100.00	83.41	<b>84.26</b>
<b>West Bengal</b>	93.89	70.40	86.79		49.01	92.10	<b>90.32</b>
<b>Total</b>	<b>98.06</b>	<b>51.08</b>	<b>86.02</b>	<b>24.09</b>	<b>77.59</b>	<b>91.77</b>	<b>88.56</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
	Oct-22	Nov-22	Oct-22	Nov-22	Oct-22	Nov-22	Oct-22	Nov-22	Oct-22	Nov-22	Oct-22	Nov-22	Oct-22	Nov-22	Oct-22	Nov-22	Oct-22	Nov-22	
Andhra Pradesh	675656	676231			399967	409727	20189	20185	155898	155357			72595	71965	917700	941194	<b>2242005</b>	<b>2274659</b>	<b>32654</b>
Assam	108,173	108,550			15030	15576	0	0	0	0			2730	2670	131038	134656	<b>256971</b>	<b>261452</b>	<b>4481</b>
Bihar	162,761	165,899			47896	63293	9	3	8934	8959			2010	2050	359798	373523	<b>581408</b>	<b>613727</b>	<b>32319</b>
Delhi	0	0	1244785	1200701	1843591	1864543	22232	21890	141704	143425			85870	89550	755172	772955	<b>4093354</b>	<b>4093064</b>	<b>-290</b>
Gujarat	350220	347835			168833	172625	2551	2656	77156	77431			56806	59146	462609	478580	<b>1118175</b>	<b>1138273</b>	<b>20098</b>
Haryana	188844	194277			89298	92696	0	0	31520	31295			420	420	89841	92122	<b>399923</b>	<b>410810</b>	<b>10887</b>
Himachal Pradesh	88899	87954			3273	3546	0	0	1564	1538			30	30	42954	43967	<b>136720</b>	<b>137035</b>	<b>315</b>
J & K	90852	89322			67767	71256	0	0	0	0			30	30	167052	169279	<b>325701</b>	<b>329887</b>	<b>4186</b>
Karnataka	876405	882307			994879	1002087	21056	20939	226058	225345			157752	165972	684798	697201	<b>2960948</b>	<b>2993851</b>	<b>32903</b>
Kerala	1023603	1013989			84508	86680	3803	3676	19070	19000			6810	6860	200550	206734	<b>1338344</b>	<b>1336939</b>	<b>-1405</b>
Kolkata	213718	211488			178175	180137	4441	4463	48340	48581			14855	14925	364345	374132	<b>823874</b>	<b>833726</b>	<b>9852</b>
Madhya Pradesh	256422	258892			398406	406415	14	20	12486	12591			29895	35245	483817	501098	<b>1181040</b>	<b>1214261</b>	<b>33221</b>
Maharashtra	640237	635365			333368	345065	9882	9708	208005	211021			26373	27123	200694	207755	<b>1418559</b>	<b>1436037</b>	<b>17478</b>
Mumbai			1326717	1318057	502073	512533	46184	46029	471568	471150			175850	176145	698358	710035	<b>3220750</b>	<b>3233949</b>	<b>13199</b>
North East	76125	75703			0	0	0	0	0	0			510	510	118337	123731	<b>194972</b>	<b>199944</b>	<b>4972</b>
Odisha	172630	173283			646	246	4	4	8454	8408			3990	3960	177503	183493	<b>363227</b>	<b>369394</b>	<b>6167</b>
Punjab	313450	323156			202706	207648	1988	1983	15160	15346	306325	311991	2040	2210	222290	229669	<b>1063959</b>	<b>1092003</b>	<b>28044</b>
Rajasthan	284526	282290			173726	178384	3637	3595	12893	12956			15385	15355	292654	299519	<b>782821</b>	<b>792099</b>	<b>9278</b>
Tamil Nadu	984248	979124			743017	756648	19742	19576	118210	118062			37363	37913	594637	607213	<b>2497217</b>	<b>2518536</b>	<b>21319</b>
U.P.(E)	141044	136164			153027	157371	20	20	8268	8215			16750	16720	359369	370382	<b>678478</b>	<b>688872</b>	<b>10394</b>
U.P.(W)	188168	187788			98585	101011	9	9	4788	4931			3788	3788	395081	407264	<b>690419</b>	<b>704791</b>	<b>14372</b>
West Bengal	258267	261610			10125	11861	82	80	2622	2617			120	120	179791	184861	<b>451007</b>	<b>461149</b>	<b>10142</b>
<b>Total</b>	<b>7094248</b>	<b>7091227</b>	<b>2571502</b>	<b>2518758</b>	<b>6508896</b>	<b>6639348</b>	<b>155843</b>	<b>154836</b>	<b>1572698</b>	<b>1576228</b>	<b>306325</b>	<b>311991</b>	<b>711972</b>	<b>732707</b>	<b>7898388</b>	<b>8109363</b>	<b>26819872</b>	<b>27134458</b>	<b>314586</b>
<b>Net Addition</b>		<b>-3021</b>		<b>-52744</b>		<b>130452</b>		<b>-1007</b>		<b>3530</b>		<b>5666</b>		<b>20735</b>		<b>210975</b>		<b>314586</b>	
<b>Rural Subscribers</b>	1815626	1851575	34	34	0	0	423	423	29450	29966	20473	20308	0	0	145476	150030	<b>2011482</b>	<b>2052336</b>	<b>40854</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.