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INFORMACIJSKO DRUŠTVO

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ELEKTRONSKE KOMUNIKACIJE, četvrti kvartal 2015.

ELECTRONIC COMMUNICATIONS, fourth quarter 2015.

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatora u četvrtom kvartalu 2015. godine iznosio je 701.093, što predstavlja pad od 10,4 % u odnosu na četvrti kvartal 2014. godine.

Total number of fixed telephone lines of dominant operators in the fourth quarter 2015 was 701.093 which represents a decrease of 10,4% compared to the fourth quarter 2014th.

Ukupni odlazni saobraćaj fiksne telefonske mreže u četvrtom kvartalu 2015. godine iznosio je 531.980.722 minuta, što pokazuje pad od 7,1% u odnosu na četvrti kvartal 2014. godine.

The total traffic of fixed telephone network in the fourth quarter 2015 was 531.980.722 minutes which shows a decrease of 7,1% compared the fourth quarter 2014th.

Broj pretplatnika mobilne mreže u četvrtom kvartalu 2015. godine iznosio je 3.443.520 i bilježi pad od 1,4% u odnosu na četvrti kvartal 2014. godine. Ukupni odlazni saobraćaj mobilne mreže u četvrtom kvartalu 2015. godine iznosio je 642.924.119 minuta, što pokazuje povećanje od 6,1 % u odnosu na četvrti kvartal 2014. godine.

Total mobile telephone subscribers in the fourth quarter 2015 was 3.443.520 which shows an decrease of 1,4% compared to the fourth quarter 2014th year. The total traffic of mobile telephone network in the fourth quarter 2015 was 642.924.119 minutes which shows an increase of 6,1% compared to the fourth quarter 2014th year.

Broj poslanih SMS poruka u četvrtom kvartalu 2015. godine manji je za 15,0%, dok je broj poslanih MMS poruka manji za 32,5% u odnosu na četvrti kvartal 2014. godine.

Number of SMS messages sent in the fourth quarter 2015 decreased by 15,0%, while the number of MMS messages sent decreased by 32,5% compared to the fourth quarter 2014th.

Ukupan broj internet priključaka putem fiksne mreže u četvrtom kvartalu 2015. godine iznosio je 634.987 i bilježi rast od 17,1% u odnosu na četvrti kvartal 2014. godine

The total number of Internet connections via the fixed network in the fourth quarter of 2015 was 634.987 an increase of 17,1% compared the fourth quarter of 2014.

1.FIKSNA TELEFONSKA MREŽA

Tabela 1.1 Fiksna telefonska mreža

Table. 1. 1. Fixed telephone network

	III	IV	III	IV	IV2015	IV 2015	
	Kvartal	Kvartal	Kvartal	Kvartal	III2015	IV2014	
	2014.		2015.		Indeksi/Indicies		
Ukupan broj aktivnih fiksnih telefonskih linija incumbent ¹ operatera	798.975	782.236	717.273	701.093	97,7	89,6	Total number of fixed telephone lines of incumbenm ¹ operators
Broj novih operatera fiksne telefonije	13	13	13	13	100	100	The number of new fixed telephony operator
Ukupan broj vlastitih pretplatnika novih operatera	59.689	65.458	76.623	78.260	102,1	119,6	The total number of own subscribers to new operators
Ukupan broj pretplatnika alternativnih operatera sa indirektnim pristupom	43.668	43.364	41.105	40.704	99,0	93,9	Alternative operators - Number of Indirect Access Subscribers
Ukupan broj prenesenih brojeva	16.242	18.733	29.246	32.656	112,0	146,6	The total number of transferred fixed numbers

Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)
Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Grafikon 1.1 Fiksna telefonska mreža- Ukupan broj aktivnih fiksnih telefonskih linija inkumbent operatera

Graph 1.1 Fixed telephone network- Total number of fixed telephone lines of incumbent operator

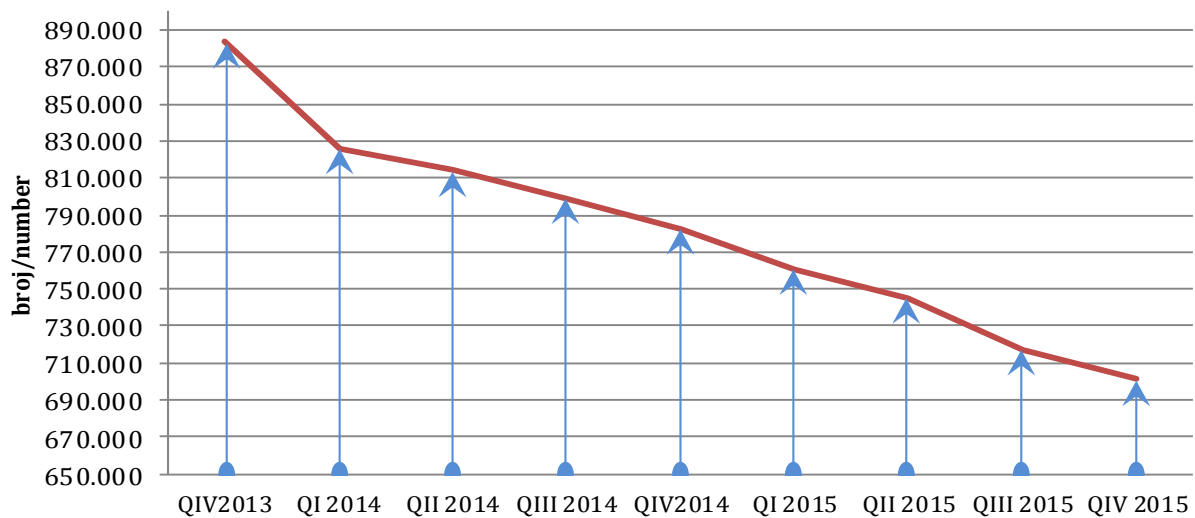


Tabela 1.2. Odlazni saobraćaj operatera fiksne telefonije

Table 1.2 Outgoing traffic fixed - line operator

Odlazni saobraćaj operatera u milionama minuta	III kvartal/ quarter	IV kvartal/ quarter	I-IV kvartal/ quarter	III kvartal/ quarter	IV kvartal/ quarter	I-IV kvartal/ quarter	Outgoing traffic operators in millions of minutes
	2014.			2015.			
Ukupno odlazni saobraćaj operatera fiksne telefonije	563	576	2299	513	532	2135	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	544	558	2234	497	517	2072	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	19	17	73	16	15	63	Interantional outgoing fixed telephone traffic

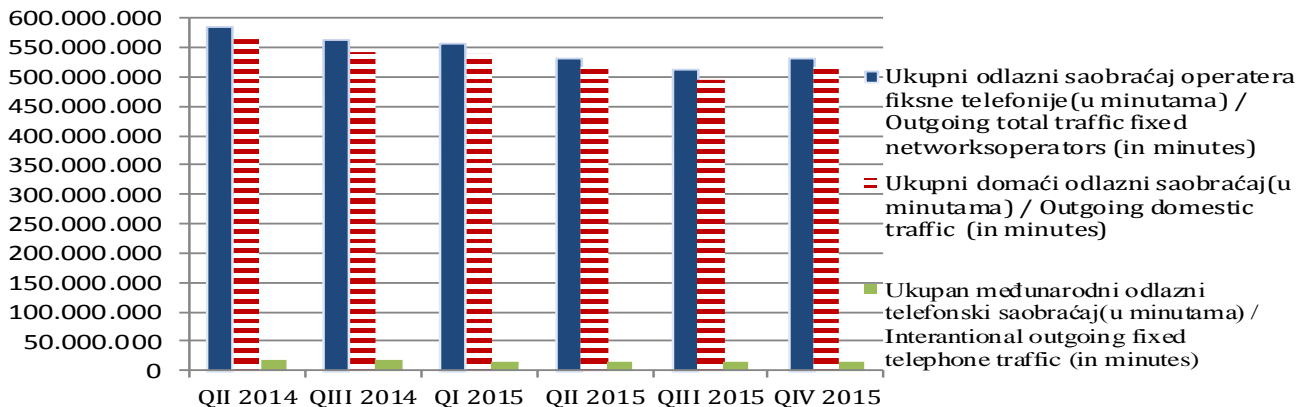
Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)

Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

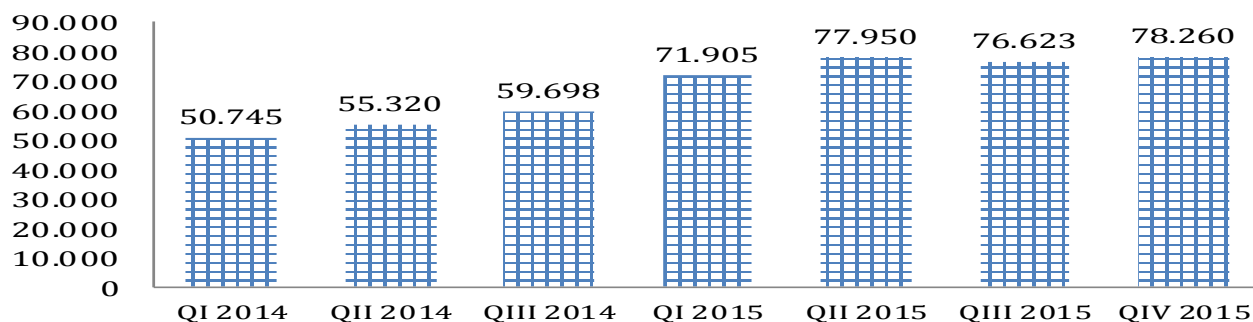
Indeksi po indikatorima odlaznog saobraćaja operatera fiksne telefonije	$\frac{IV\ 2015}{III\ 2015}$	$\frac{IV\ 2015}{IV\ 2014}$	$\frac{I - IV\ 2015}{I - IV\ 2014}$	Indicies by indicators outgoing traffic fixed-line operator
	Ukupno odlazni saobraćaj operatera fiksne telefonije	103,9	92,4	
Ukupni domaći odlazni saobraćaj	104,0	92,7	92,7	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	93,7	88,2	86,3	Interantional outgoing fixed telephone traffic

Grafikon 1.2. Saobraćaj ostvaren putem fiksne telefonske mreže

Graph 1.2 Traffic accomplished via fixed telephone network



Grafikon 1.3. Ukupan broj vlastitih pretplatnika novih operatera
Graph 1.3 Alternative operators- Total number of direct access subscriber



Ukupan broj vlastitih pretplatnika novih operatera
 Alternative operators – Total number of Direct Access Subscriber

2.MOBILNA TELEFONSKA MREŽA

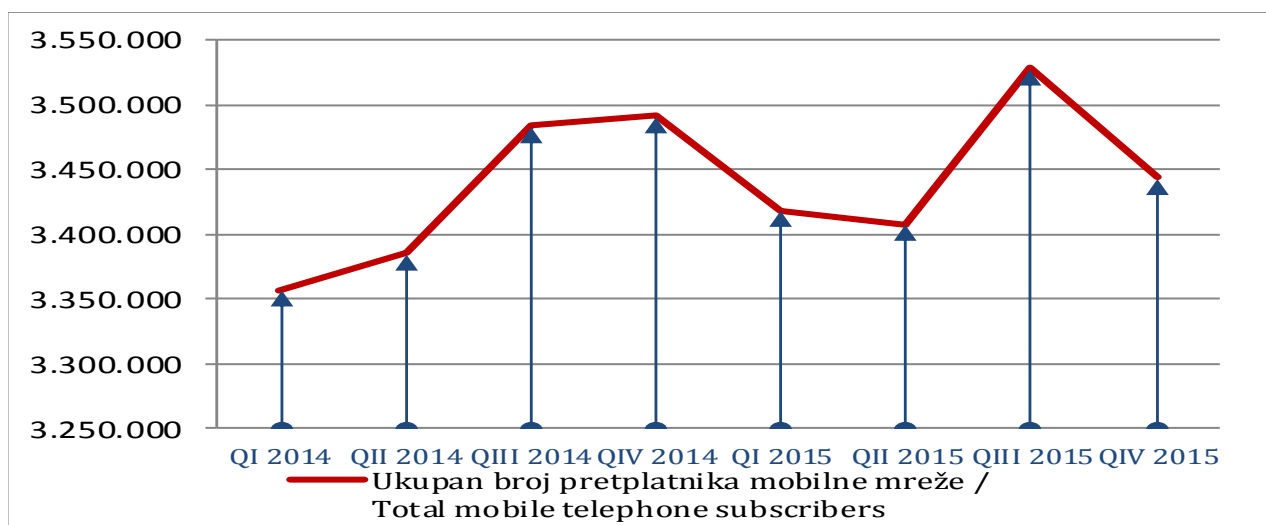
Tabela 2. Mobilna telefonska mreža
Table 2. Mobile telephone network

	III Kvartal quarter	IV Kvartal quarter	III Kvartal quarter	IV Kvartal quarter	IV2015 III 2015	IV2015 IV 2014	
	2014.		2015.		Indeksi/Indicies		
Ukupan broj pretplatnika mobilne mreže	3.483.874	3.491.188	3.528.695	3.443.520	97,6	98,6	Total number mobile telephone subscribers
Penetracija mobilne telefonije	90,68%	90,87%	91,85%	89,97%	98,0	99,1	Penetration of mobile telephony
Ukupan broj prenesenih brojeva	12.979	15.781	23.445	26.599	113,5	168,6	The total number of transferred numbers
Ukupan odlazni saobraćaj operatora mobilne telefonije (minutama)	641.434.744	605.989.616	666.322.355	642.924.119	96,5	106,1	Total outgoing traffic of mobile operators (in minutes)
Broj poslatih SMS poruka	343.546.769	291.589.991	267.381.327	247.920.702	92,7	85,0	SMS sent
Broj poslatih MMS poruka	532.333	460.925	321.245	311.337	96,9	67,5	MMS sent

Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)
 Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Grafikon 2.1. Broj pretplatnika mobilne mreže

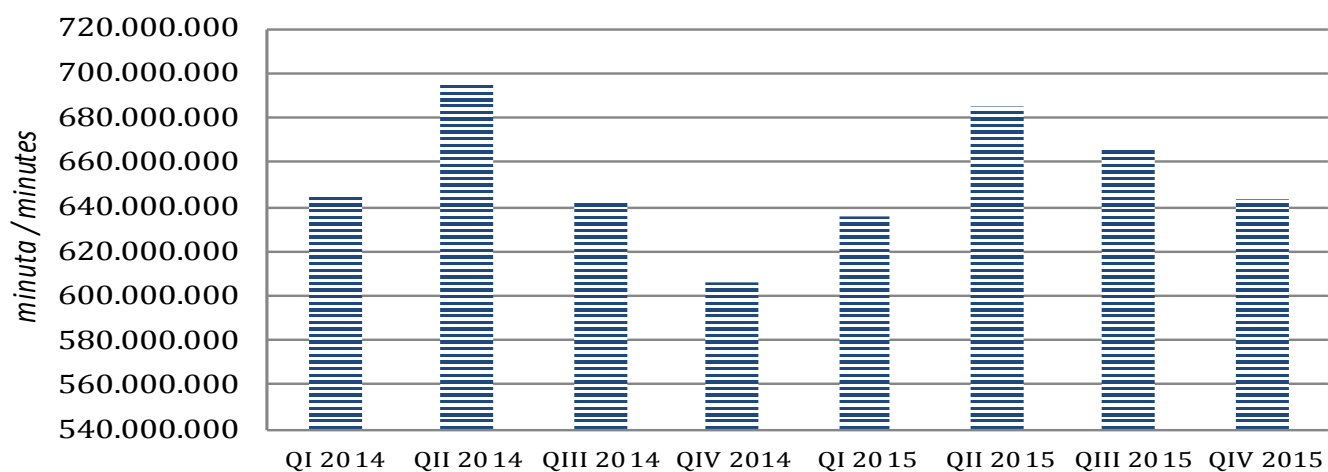
Graph.2.1 Mobile telephone subscribers



Grafikon 2.2. Odlazni saobraćaj mobilne telefonije

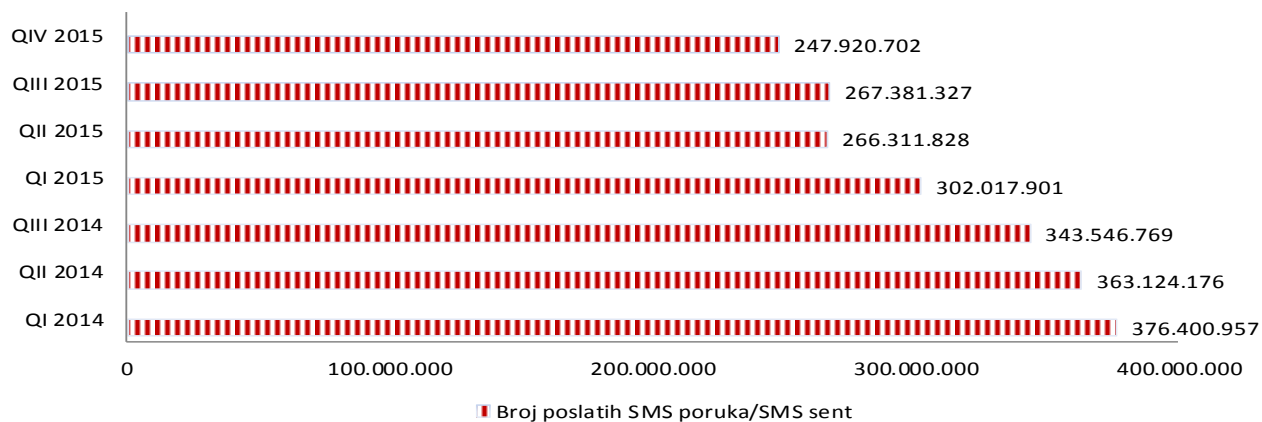
Graph.2.2 Outgoing traffic of mobile operators

Ukupan odlazni saobraćaj operatora mobilne telefonije Total outgoing traffic of mobile operators



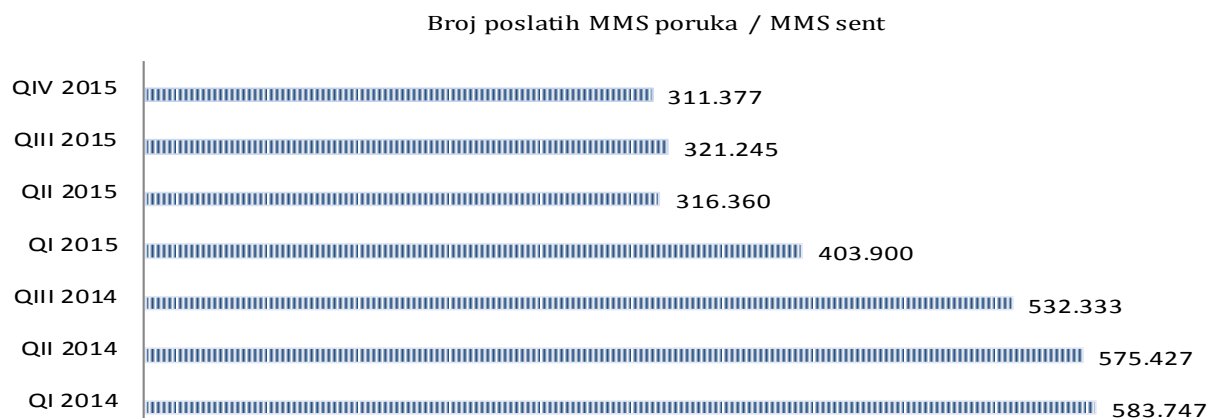
Grafikon 2.3. Broj poslatih SMS poruka

Graph.2.3. SMS sent



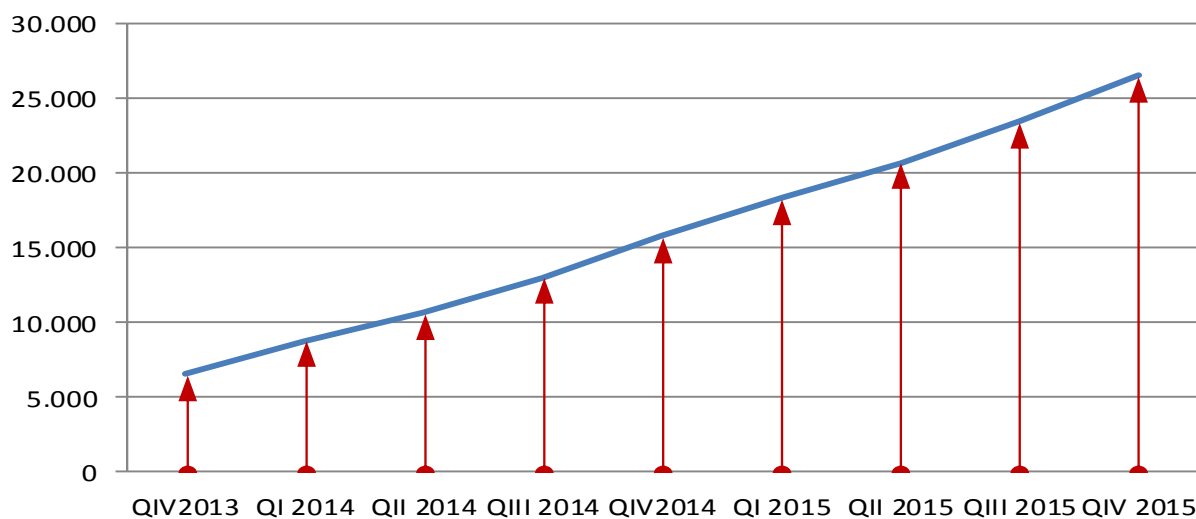
Grafikon 2.4. Broj poslatih MMS poruka

Graph.2.4. MMS sent



Grafikon 2.4. Ukupan broj prenesenih brojeva

Graph.2.4. The total number of transferred numbers



3. PRISTUP INTERNETU

Tabela 3. Pristup internetu

Table 3. Internet access

	III Kvartal quarter	IV Kvartal quarter	III* Kvartal quarter	IV Kvartal quarter	IV 2015 III 2015	IV 2015 IV 2014	
	2014.		2015.		Indeksi/Indicies		
Ukupan broj priključaka širokopolasnog pristupa internetu putem fiksne mreže	536.044	542.405	626.671	634.987	101,3	117,1	Total number of broadband subscribers
Broj xDSL priključaka	297.002	297.245	366.530	372.767	101,7	125,4	Number of subscribers using xDSL connection
Broj priključaka putem kablovske mreže	173.968	181.753	195.929	200.972	102,6	110,6	Number of subscribers by cable network
Broj priključaka fiksni bežični pristup	63.024	61.367	62.262	59.326	95,3	96,7	Number of subscribers fixed wireless connection
Broj priključaka putem iznajmljene linije	1.326	1.318	1.277	1.254	98,2	95,1	Number of subscribers via leased lines
Broj priključaka FTTx	357	374	417	428	102,6	114,4	Number of subscribers via FTTx connection
Broj priključaka putem ostalih tehnologija	367	348	256	240	93,7	69,0	Number of subscribers using other technologies
Stopa penetracije korisnika interneta putem fiksne mreže	59,52%	60,25%	68,93%	42,69%	94,4	70,9	Penetration rate of Internet users via the fixed network

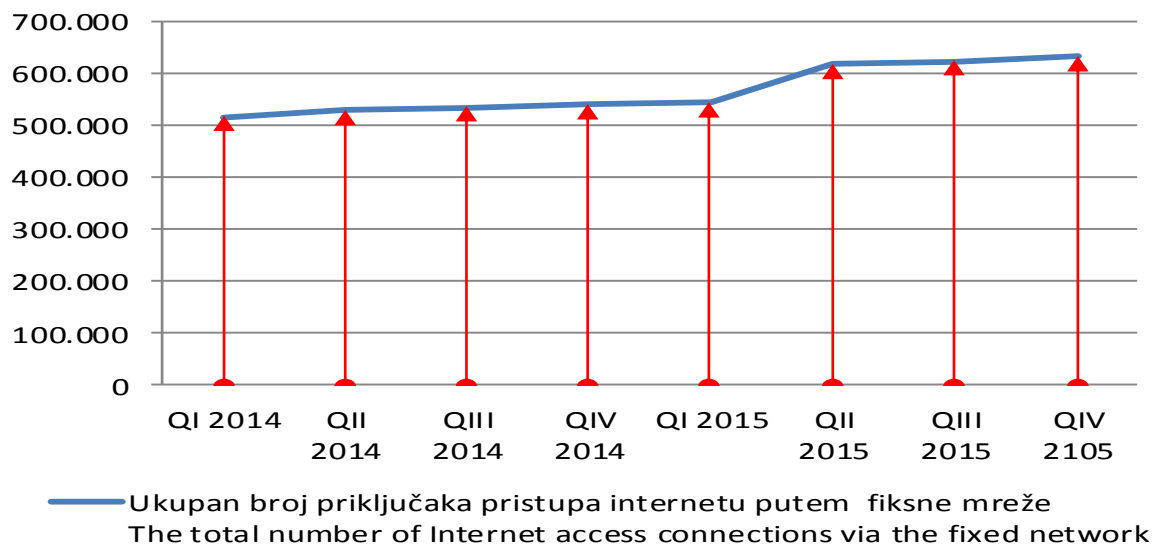
Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)

Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

*Podaci korigovani u odnosu na objavljene podatke u statističkom saopćenju za III kvartal 2015.

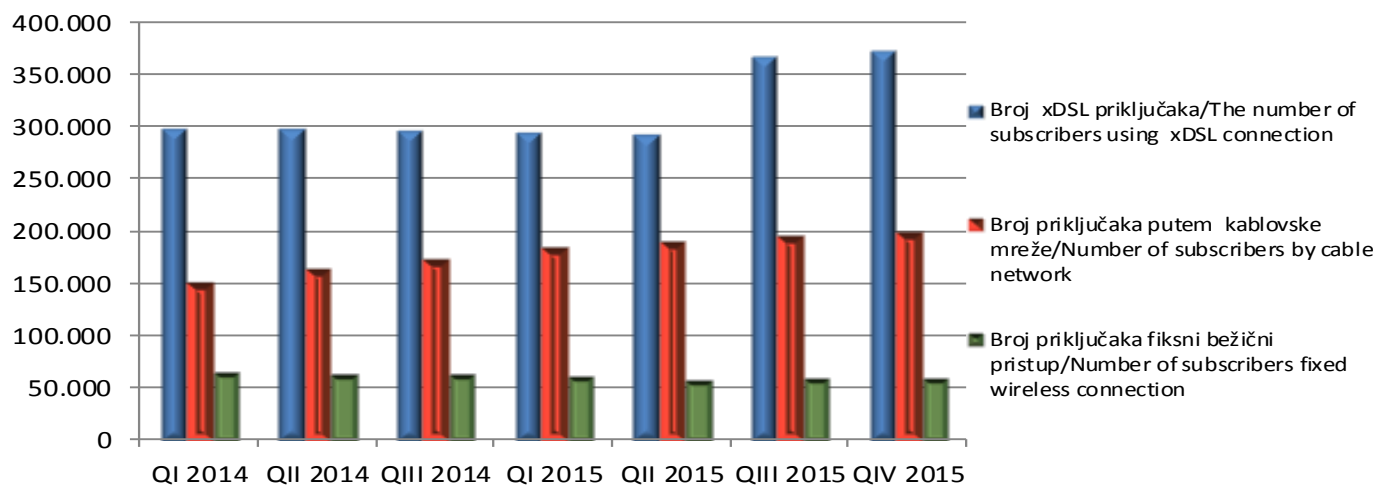
Grafikon 3.1 Ukupan broj priključaka pristupa internetu putem fiksne mreže

Graph 3.1 Number of broadband subscribers



Grafikon 3.2. Tip priključaka pristupa internetu putem fiksne mreže

Graph 3.2. Type connectors of Internet access connections via the fixed network



METODOLOŠKA OBJAŠNENJA

Izvor prikupljanja podataka

Podaci o telekomunikacionim uslugama preuzeti su od Regulatorne agencije za komunikacije Bosne i Hercegovine (RAK BiH)

Obuhvat

Telekomunikacione usluge obuhvataju saobraćaj ostvaren u fiksnoj i mobilnoj mreži

Unutrašnji saobraćaj u fiksnoj ili mobilnoj mreži obuhvata ukupno ostvaren saobraćaj unutar vlastite fiksne ili mobilne mreže prema drugim fiksnim i mobilnim mrežama.

Međunarodni saobraćaj obuhvata ukupno ostvaren saobraćaj u fiksnim i mobilnim mrežama koji počinje unutar Bosne i Hercegovine i završava izvan Bosne i Hercegovine.

DEFINICIJE

Telekomunikaciona usluga je usluga prijenosa, odašiljanja ili primanja znakova, signala, pisanog teksta, slika, govora i zvukova ili saopćenja bilo koje prirode koja se pruža žičnim, svjetlosnim, bežičnim ili drugim elektromagnetskim sistemima uključujući omogućavanje upotrebe tih sistema kao cjeline ili djelomično davanjem u najam, prodajom ili na neki drugi način.

Priključak je fizička mrežna priključna tačka preko koje korisnik pristupa javnoj komunikacionoj mreži, a uključuje sve tehničke načine pristupa, kao što su PSTN, ISDN, xDSL i sl

Preneseni brojevi su telefonski brojevi koji su preneseni u druge mreže.

FTTx je pristup širokopojasnim internet uslugama realizovan putem optičkog vlakna.

xDSL (Digitalna Pretplatnička Linija) je širokopojasni pristup internet uslugama realizovan putem upredene bakarne parice. Tu spadaju širokopojasne tehnologije kao što su ADSL, VDSL, HDSL, SDSL, itd.

Utrošene minute u fiksnoj i mobilnoj mreži obuhvataju ukupni saobraćaj ostvaren u unutrašnjem i međunarodnom saobraćaju izražen u jedinici vremena – minutama.

Fiksna mreža je telekomunikaciona mreža kod koje je međusobna povezanost svih elemenata ostvarena žično.

Mobilna mreža je telekomunikaciona mreža kod koje je međusobna povezanost nekih elemenata ostvarena bežično i time se omogućava uspostavljanje veza i u uslovima fizičkoga kretanja korisnika usluga te mreže.

SMS poruke (Short Message Service) su kratke tekstualne poruke.

MMS poruke (Multimedia Messaging Service) su poruke koje uključuju i multimedijalne sadržaje (npr. slike, muzika).

NOTES ON METHODOLOGY

Sources of data collection

Data on telecommunication services were picked up from Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH).

Coverage

Telecommunication services include traffic realized in fixed and mobile telephone network.

The domestic traffic in fixed and mobile network includes the total traffic realized in the own fixed and mobile network, the traffic directed to other fixed and mobile networks.

The international traffic includes the total traffic realized in the fixed and mobile network that starts within and ends outside the Bosnia and Herzegovina.

DEFINITIONS

Telecommunication service is a service of transfer, transmission or reception of signs, written text, pictures, speech, sounds or releasing of any kind rendered through wire, light, wireless or other electromagnetic systems, including the possibility of using those systems either as a whole or in part, through renting, sale or some other way.

Connection is a physical network connection point through which users access to a public communications network, and includes all the technical means of access such as PSTN, ISDN, xDSL, etc..

Ported numbers are phone numbers that have been transferred to other networks.

FTTx has access to broadband internet services realized through optical fibers.

xDSL (Digital Subscriber Line) is a broadband internet services realized via twisted copper pairs. These include broadband technologies such as ADSL, VDSL, HDSL, SDSL, etc.

Minutes spent in the fixed and mobile telephone network include the total traffic realized in the domestic and international traffic and measured by time units – minutes.

Fixed network is telecommunication network in which all elements are connected by using wires.

Mobile network is a telecommunication network in which some elements are not connected by using wires. In that way, a connection is possible even when users are physically moving.

SMS messages (Short Message Service) are short text messages.

MMS messages (Multimedia Messaging Service) are messages which include multimedia services (pictures, music).

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