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GODINA/ YEAR III

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INFORMACIJSKO DRUŠTVO

INFORMATION SOCIETY

ELEKTRONSKE KOMUNIKACIJE, prvi kvartal 2016.

ELECTRONIC COMMUNICATIONS, first quarter 2016.

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatora u prvom kvartalu 2016. godine iznosio je 717.467, što predstavlja pad od 5,7 % u odnosu na prvi kvartal 2015. godine.

Total number of fixed telephone lines of dominant operators in the first quarter 2016 was 717.467 which represents a decrease of 5,7 % compared to the first quarter 2015th.

Ukupni odlazni saobraćaj fiksne telefonske mreže u prvom kvartalu 2016. godine iznosio 518.561.000 minuta, što pokazuje pad od 6,9% u odnosu na prvi kvartal 2015. godine.

The total traffic of fixed telephone network in the first quarter 2016 was 518.561.000 minutes which shows a decrease of 6,9% compared the first quarter 2015th.

Broj pretplatnika mobilne mreže u prvom kvartalu 2016. godine iznosio je 3.276.498 i bilježi pad od 4,2% u odnosu na prvi kvartal 2015. godine. Ukupni odlazni saobraćaj mobilne mreže u prvom kvartalu 2016. godine iznosio je 606.888.340 minuta, što pokazuje pad od 4,4 % u odnosu na prvi kvartal 2015. godine.

Total mobile telephone subscribers in the first quarter 2016 was 3.276.498 which shows an decrease of 4,2% compared to the first quarter 2015th year. The total traffic of mobile telephone network in the first quarter 2016 was 606.888.340 minutes which shows an decrease of 4,4% compared to the first quarter 2015th year.

Broj poslanih SMS poruka u prvom kvartalu 2016. godine manji je za 24,2%, dok je broj poslanih MMS poruka manji za 25,0% u odnosu na prvi kvartal 2015. godine.

Number of SMS messages sent in the first quarter 2016 decreased by 24,2%, while the number of MMS messages sent decreased by 25,0% compared to the first quarter 2015th.

Ukupan broj internet priključaka putem fiksne mreže u prvom kvartalu 2016. godine iznosio je 643.199 i bilježi rast od 18,0% u odnosu na prvi kvartal 2015. godine.

The total number of Internet connections via the fixed network in the first quarter of 2016 was 643.199 an increase of 18,0% compared the first quarter of 2015.

1.FIKSNA TELEFONSKA MREŽA

Tabela 1.1 Fiksna telefonska mreža

Table. 1. 1. Fixed telephone network

	I Kvartal quarter	I Kvartal quarter	I Kvartal quarter	IV Kvartal quarter	I Kvartal quarter	I 2016 IV2015	I 2016 I 2015	
	2013.	2014.	2015.		2016.	Indeksi/Indicies		
Ukupan broj aktivnih fiksnih telefonskih linija incumbent ¹ operatera	883.409	825.942	760.608	701.093	717.467	102,3	94,3	Total number of fixed telephone lines of incumbent ¹ operators
Broj novih operatera fiksne telefonije	13	13	13	13	13	100	100	The number of new fixed telephony operator
Ukupan broj vlastitih pretplatnika novih operatera	31.527	50.745	71.905	78.260	80.008	102,2	111,2	The total number of own subscribers to new operators
Ukupan broj pretplatnika alternativnih operatera sa indirektnim pristupom	47.182	45.845	41.896	40.704	40.381	99,2	96,4	Alternative operators - Number of Indirect Access Subscribers
Ukupan broj prenesenih brojeva	0	11.959	22.273	32.656	36.246	111,0	162,7	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

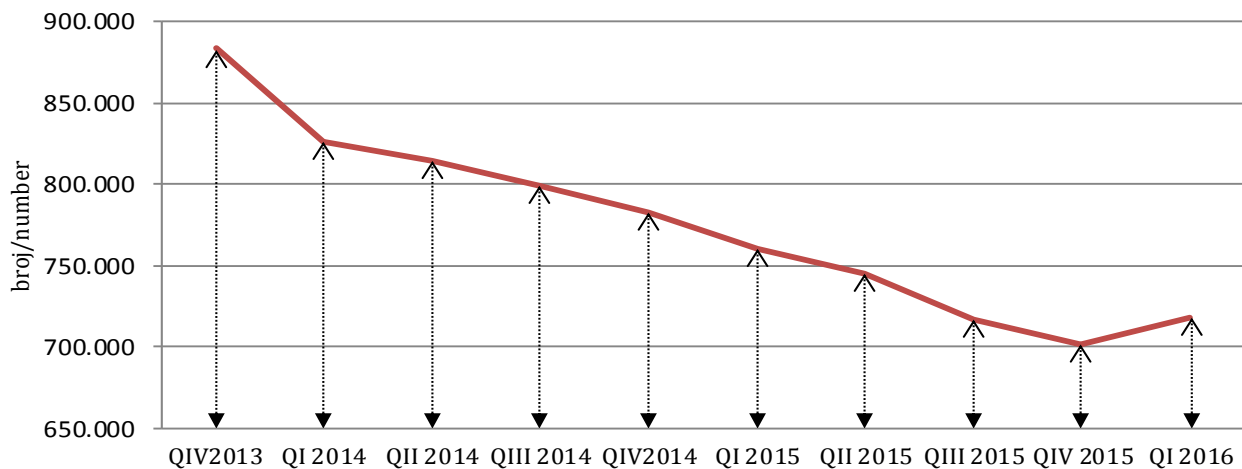


Tabela 1.2. Odlazni saobraćaj operatera fiksne telefonije

Table 1.2 Outgoing traffic fixed - line operator

Odlazni saobraćaj operatera u milionama minuta	I kvartal/ quarter	I kvartal/ quarter	I kvartal/ quarter	IV kvartal/ quarter	I kvartal/ quarter	Outgoing traffic operators in millions of minutes
	2013	2014	2015	2015	2016	
Ukupno odlazni saobraćaj operatera fiksne telefonije	597.809.196	574.098.494	557.023.666	531.980.722	518.561.000	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	575.966.275	555.539.549	541.091.010	517.413.005	504.339.788	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	21.922.921	18.558.945	15.932.656	14.567.717	14.221.212	Interantional outgoing fixed telephone traffic

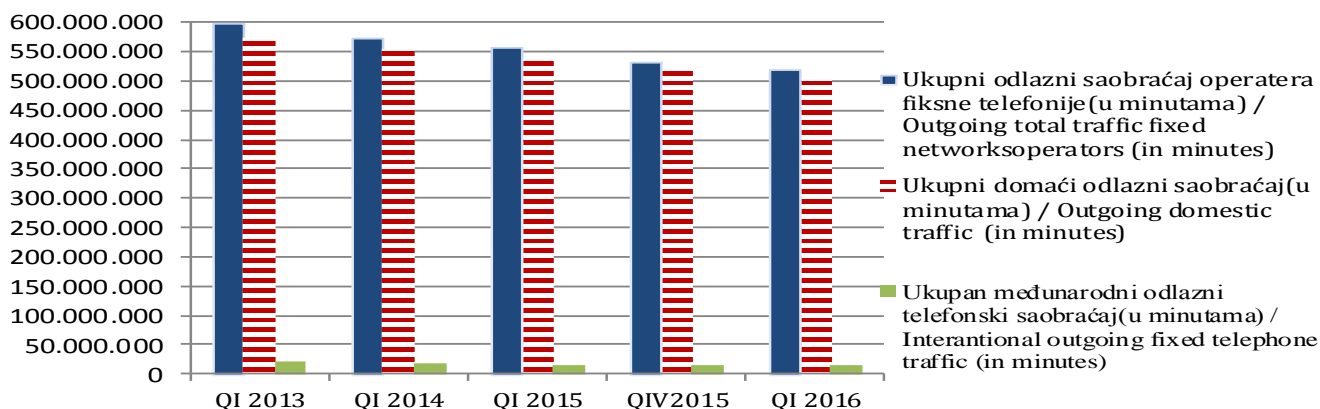
Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)

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

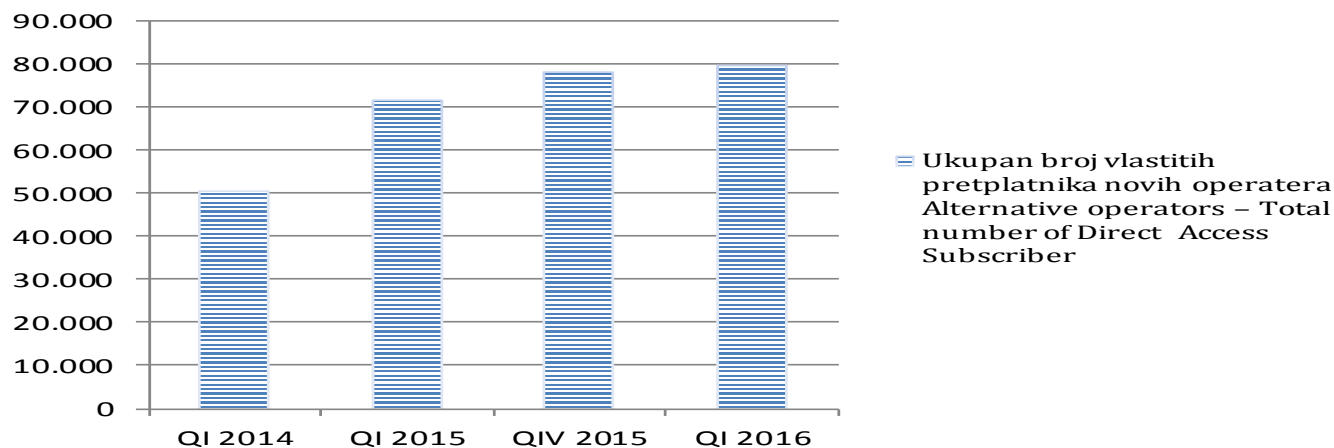
Indeksi po indikatorima odlaznog saobraćaja operatera fiksne telefonije	I 2016 I 2014	I 2016 I 2015	I 2016 IV 2015	Indicies by indicators outgoing traffic fixed-line operator
	Ukupno odlazni saobraćaj operatera fiksne telefonije	90,3	93,1	
Ukupni domaći odlazni saobraćaj	90,8	93,2	97,5	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	76,6	89,3	97,6	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



2. MOBILNA TELEFONSKA MREŽA

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

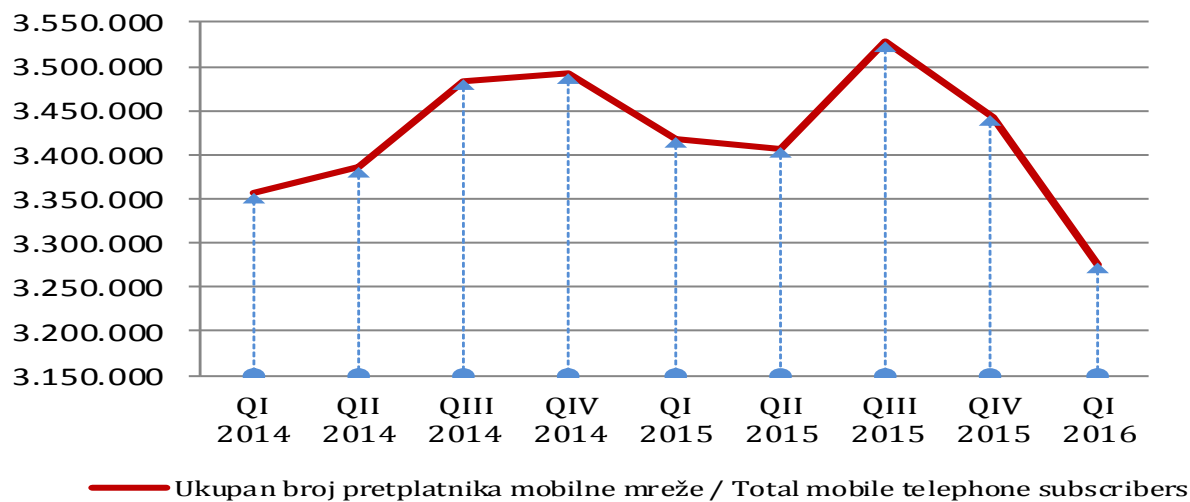
	I kvartal/ quarter 2013	I kvartal/ quarter 2014	I kvartal/ quarter 2015	IV kvartal/ quarter 2015	I kvartal/ quarter 2016	
Ukupan broj pretplatnika mobilne mreže	3.241.086	3.356.762	3.418.458	3.443.520	3.276.498	Total number mobile telephone subscribers
Ukupan broj prenesenih brojeva	-	8.778	18.307	26.599	30.411	Total number of transferred numbers
Ukupan odlazni Saobraćaj operatora mobilne telefonije (u minutama)	606.287.491	644.279.587	634.856.422	642.924.119	606.888.340	Total outgoing traffic of mobile operators (in minutes)
Broj poslatih SMS poruka	431.524.369	376.400.957	302.017.901	247.920.702	228.888.104	SMS sent
Broj poslatih MMS poruka	863.824	583.747	403.900	311.337	302.836	MMS sent

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

	I 2016 I 2014	I 2016 I 2015	I 2016 IV 2015	
Ukupan broj pretplatnika mobilne mreže	97,6	95,8	95,1	Outgoing total traffic fixed networks operators
Ukupan broj prenesenih brojeva	346,4	166,1	114,3	Total number of transferred numbers
Ukupan odlazni saobraćaj operatora mobilne telefonije	94,2	95,6	94,4	Total outgoing traffic of mobile operators
Broj poslatih SMS poruka	60,8	75,8	92,3	SMS sent
Broj poslatih MMS poruka	51,9	75,0	97,3	MMS sent

Grafikon 2.1. Broj pretplatnika mobilne mreže

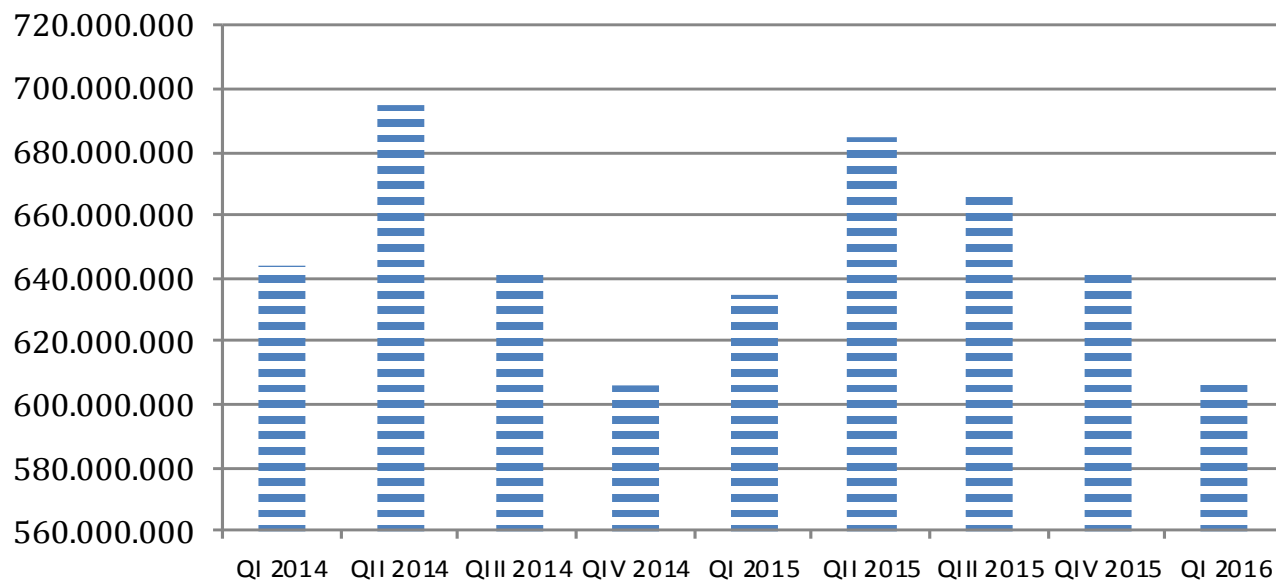
Graph.2.1 Mobile telephone subscribers



Grafikon 2.2. Odlazni saobraćaj mobilne telefonije

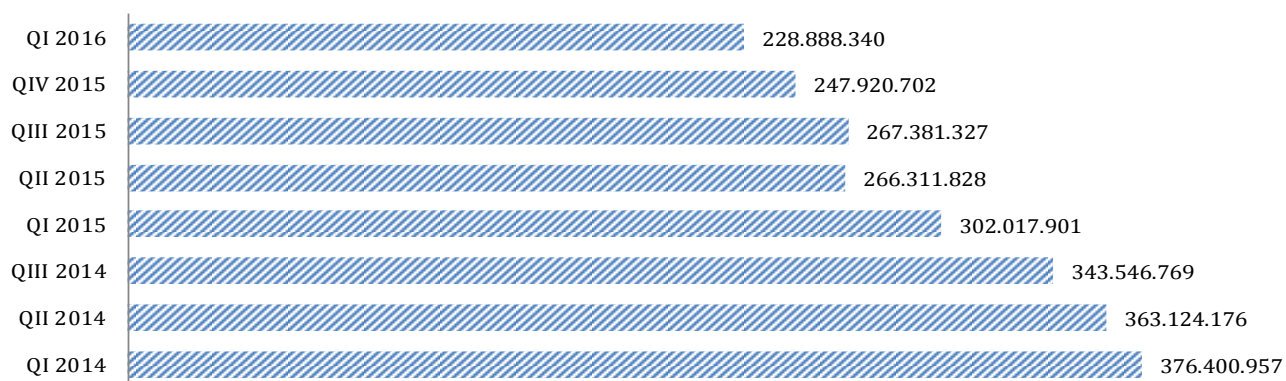
Graph.2.2 Outgoing traffic of mobile operators

Ukupan odlazni saobraćaj operatora mobilne telefonije u minutama
Total outgoing traffic of mobile operators in minutes



Grafikon 2.3. Broj poslatih SMS poruka

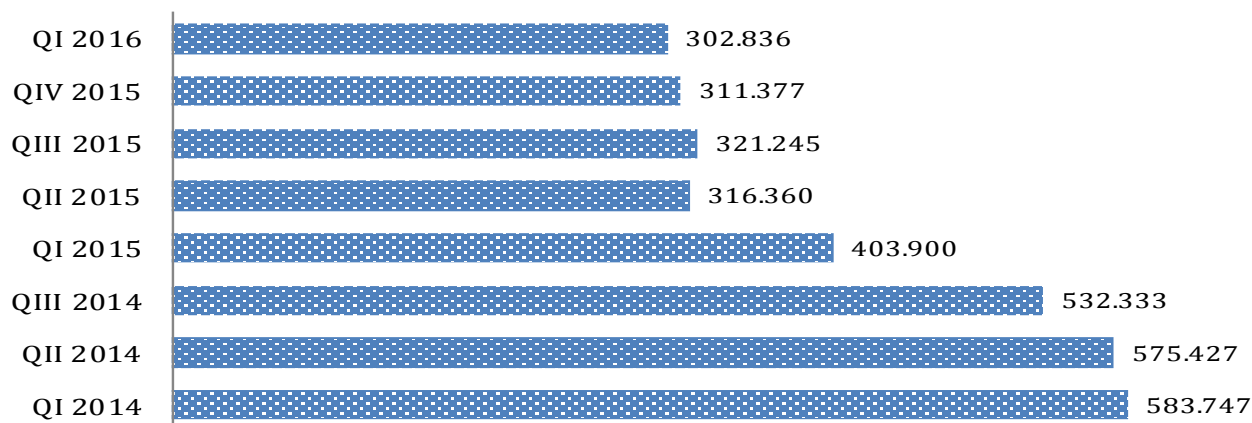
Graph.2.3. SMS sent



Broj poslatih SMS poruka/SMS sent

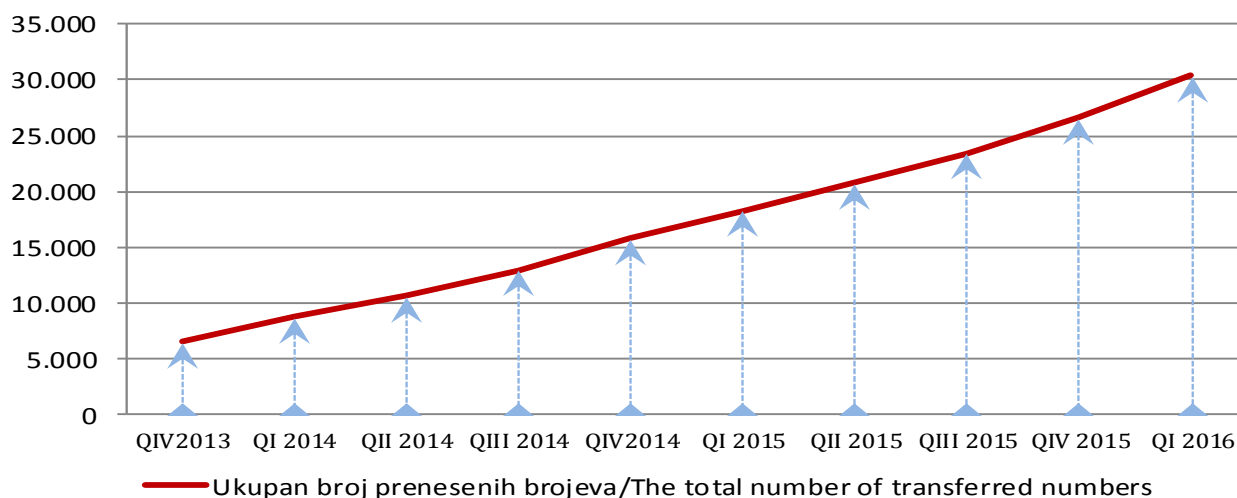
Grafikon 2.4. Broj poslatih MMS poruka

Graph.2.4. MMS sent



Broj poslatih MMS poruka/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

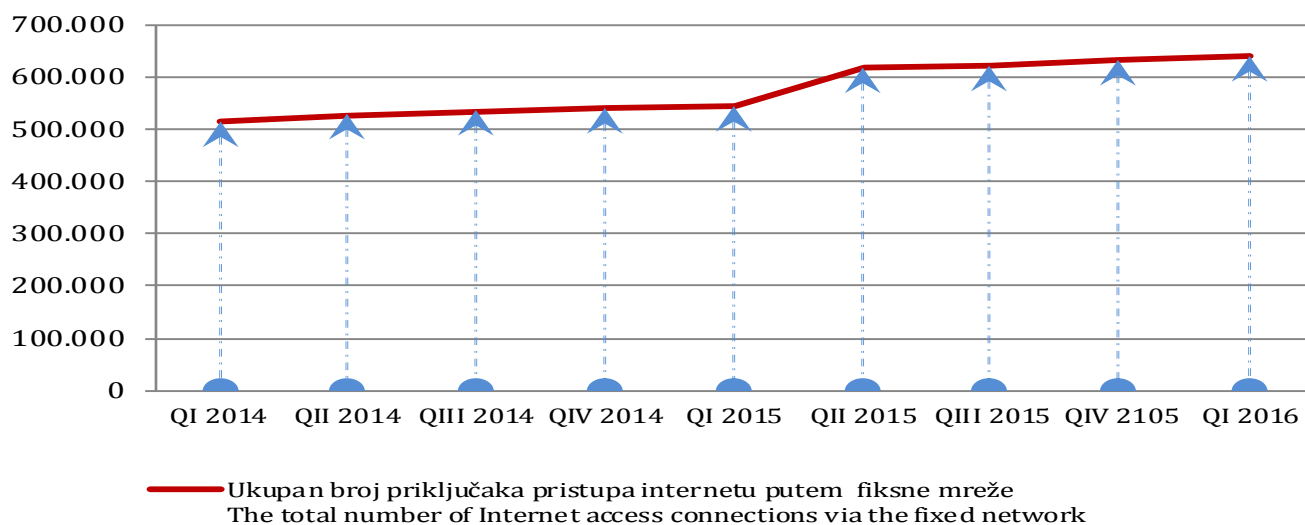
	I	I	I	IV	I	
	Kvartal	Kvartal	Kvartal	Kvartal	Kvartal	
	2013	2014	2015		2016	
Ukupan broj priključaka širokopojasnog pristupa internetu putem fiksne mreže	486.167	517.388	544.907	634.987	643.199	<i>Total number of broadband subscribers</i>
Broj xDSL priključaka	287.463	297.447	295.483	372.767	377.248	<i>Number of subscribers using xDSL connection</i>
Broj priključaka putem kablovske mreže	132.542	153.016	186.298	200.972	203.839	<i>Number of subscribers by cable network</i>
Broj priključaka fiksni bežični pristup	64.564	64.856	61.108	59.326	60.076	<i>Number of subscribers fixed wireless connection</i>
Broj priključaka putem iznajmljene linije	814	1.316	1.299	1.254	1.253	<i>Number of subscribers via leased lines</i>
Broj priključaka FTTx	317	313	407	428	530	<i>Number of subscribers via FTTx connection</i>
Broj priključaka putem ostalih tehnologija	477	440	312	240	253	<i>Number of subscribers using other technologies</i>
Stopa penetracije korisnika interneta putem fiksne mreže	58,29%	58,52%	61,79%	72,69%	73,32%	<i>Penetration rate of Internet users via the fixed network</i>

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 broja priključaka širokopojasnog pristupa internetu	$\frac{I\ 2016}{I\ 2014}$	$\frac{I\ 2016}{I\ 2015}$	$\frac{I\ 2016}{IV\ 2015}$	Indices of the indicators of the number of broadband access to the Internet
Ukupan broj priključaka širokopojasnog pristupa internetu putem fiksne mreže	124,3	118,0	101,3	<i>Total number of broadband subscribers</i>
Broj xDSL priključaka	126,8	127,7	101,2	<i>Number of subscribers using xDSL connection</i>
Broj priključaka putem kablovske mreže	133,2	109,4	101,4	<i>Number of subscribers by cable network</i>

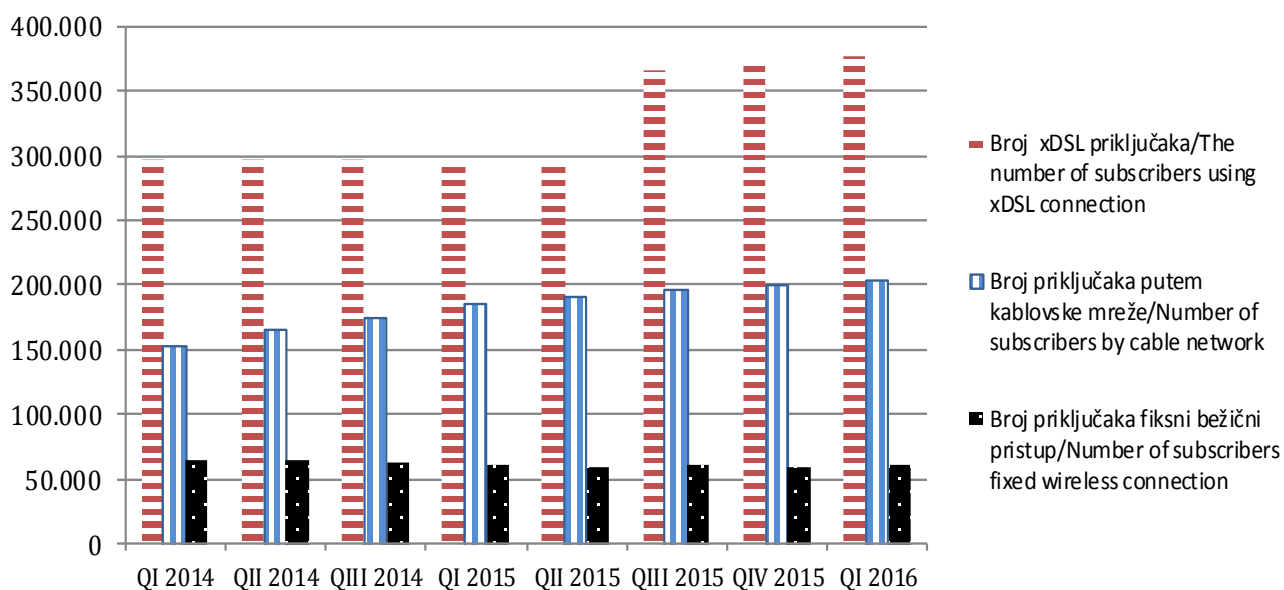
Grafikon 3.1 Ukupan broj priključaka pristupa internetu putem fiksne mreže

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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