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ELEKTRONSKE KOMUNIKACIJE, prvi kvartal 2018. **ELECTRONIC COMMUNICATIONS, first quarter 2018.**

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatora u prvom kvartalu 2018. godine iznosio je 619.489, što predstavlja pad od 9,4 % u odnosu na prvi kvartal 2017. godine.

Total number of fixed telephone lines of dominant operators in the first quarter 2018 was 619.489 which represents a decrease of 9,4% compared to the first quarter 2017th.

Ukupni odlazni saobraćaj fiksne telefonske mreže u prvom kvartalu 2018. godine iznosio je 462.491.302 minuta, što pokazuje pad od 4,2% u odnosu na prvi kvartal 2017. godine.

The total traffic of fixed telephone network in the fourth quarter 2018 was 462.491.302 minutes which shows a decrease of 4,2% compared the first quarter 2017th.

Broj korisnika mobilne mreže u prvom kvartalu 2018-e godine iznosio je 3.301.808 i bilježi blagi rast od 0,6% u odnosu na prvi kvartal 2017. godine. Ukupni odlazni saobraćaj mobilne mreže u prvom kvartalu 2018. godine iznosio je 524.806.197 minuta, što predstavlja pad od 5,9 % u odnosu na prvi kvartal 2017. godine.

Total mobile network users in the first quarter 2018 was 3.301.808 which shows a slight increase of 0,6% compared to the first quarter 2017th year. The total traffic of mobile telephone network in the first quarter 2018 was 524.806.197 minutes which represents a decrease of 5,9% compared to the first quarter 2017th year.

Broj poslanih SMS poruka u prvom kvartalu 2018. godine manji je za 22,3%, dok je broj poslanih MMS poruka manji za 13,7% u odnosu na prvi kvartal 2017. godine.

Number of SMS messages sent in the first quarter 2018 decreased by 22,3%, while the number of MMS messages sent decreased by 13,7% compared to the first quarter 2017th.

Ukupan broj internet priključaka putem fiksne mreže u prvom kvartalu 2018. godine iznosio je 686.226 i bilježi rast od 3,4% u odnosu na prvi kvartal 2017-e godine.

The total number of Internet connections via the fixed network in the first quarter of 2018 was 686.226 an increase of 3,4% compared the first quarter of 2017.

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 2018 IV2017	I 2018 I 2017	
	2015.	2016.	2017.		2018.	Indeksi/Indicies		
Ukupan broj aktivnih fiksnih telefonskih linija incumbent ¹ operatera	760.608	738.909	683.984	632.914	619.489	97,9	90,6	Total number of fixed telephone lines of incumben ^{m 1} operators
Broj novih operatera fiksne telefonije	13	13	12	11	11	100,0	91,7	The number of new fixed telephony operator
Ukupan broj vlastitih pretplatnika novih operatera	71.905	80.008	107.140	125.230	132.170	105,5	123,4	The total number of own subscribers to new operators
Ukupan broj pretplatnika alternativnih operatera sa indirektnim pristupom	41.896	40.381	38.672	2.121	2.019	95,2	5,2	Alternative operators - Number of Indirect Access Subscribers
Ukupan broj prenesenih brojeva	22.273	36.246	54.223	65.957	69.628	105,6	128,4	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

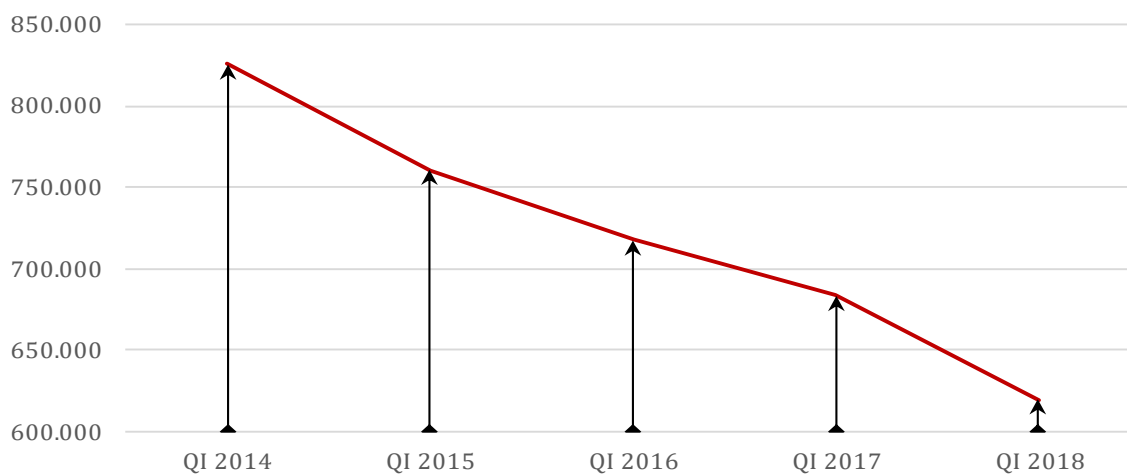


Tabela 1.2. Odlazni saobraćaj operatera fiksne telefonije*Table 1.2 Outgoing traffic fixed - line operator*

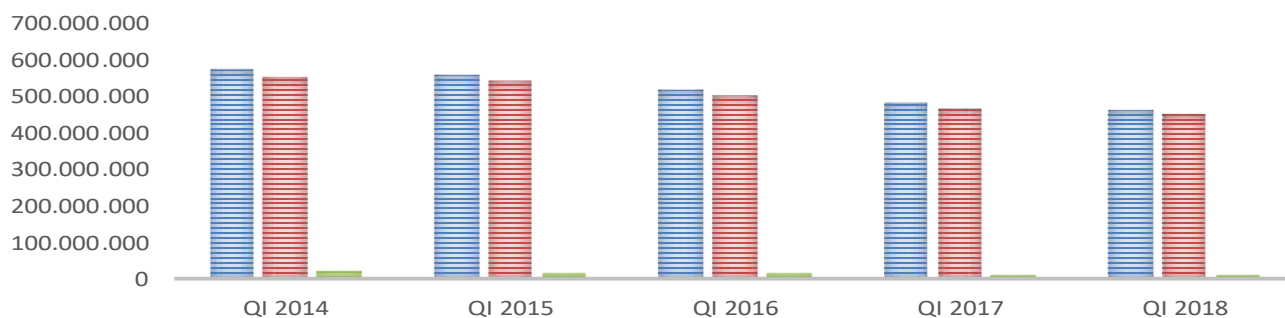
Odlazni saobraćaj operatera u milionama minuta	I kvartal/ quarter	I kvartal/ quarter	I kvartal/ quarter	IV kvartal/ quarter	I kvartal/ quarter	I kvartal/ quarter	Outgoing traffic operators in millions of minutes
	2014	2015	2016	2017	2017	2018	
Ukupno odlazni saobraćaj operatera fiksne telefonije	574.098.494	557.023.666	499.808.307	469.733.885	482.453.309	462.491.302	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	555.539.549	541.091.010	486.863.462	459.977.009	469.951.257	453.490.600	Outgoing domestic traffic
Ukupni međunarodni i odlazni telefonski saobraćaj	18.558.945	15.932.656	12.944.845	9.756.876	12.502.052	9.000.702	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)*

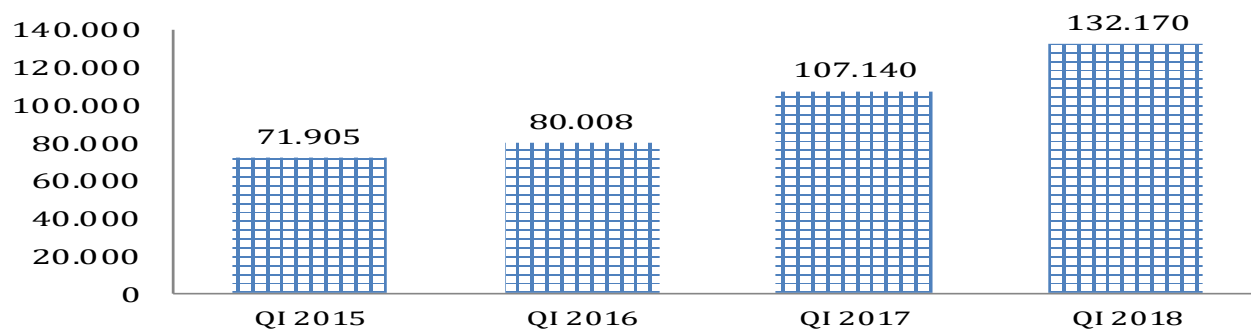
Indeksi po indikatorima odlaznog saobraćaja operatera fiksne telefonije	I 2018 I 2016	I 2018 I 2017	I 2018 IV 2017	Indicies by indicators outgoing traffic fixed-line operator
Ukupno odlazni saobraćaj operatera fiksne telefonije	92,5	95,8	98,5	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	93,1	96,5	98,6	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	69,5	72,0	92,2	Interantional outgoing fixed telephone traffic

Grafikon 1.2. Saobraćaj ostvaren putem fiksne telefonske mreže*Graph 1.2 Traffic accomplished via fixed telephone network*

- Ukupni odlazni saobraćaj operatera fiksne telefonije(u minutama) / Outgoing total traffic fixed networksoperators (in minutes)
- Ukupni domaći odlazni saobraćaj(u minutama) / Outgoing domestic traffic (in minutes)
- Ukupan međunarodni odlazni telefonski saobraćaj(u minutama) / Interantional outgoing fixed telephone traffic (in minutes)



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

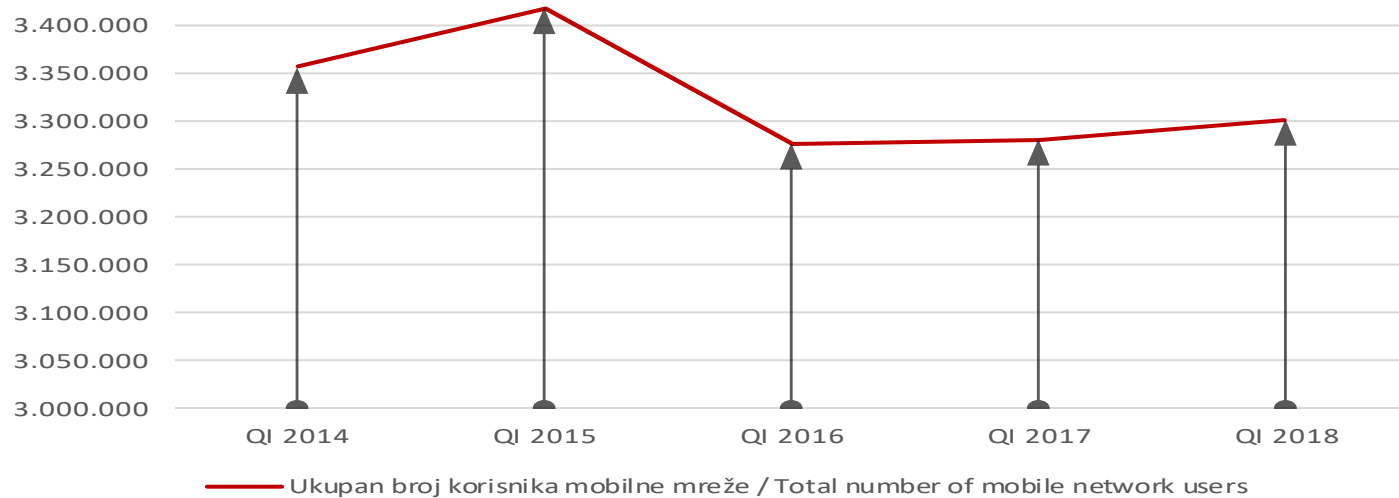
Tabela 2. Mobilna telefonska mreža
Table 2. Mobile telephone network

	I Kvartal quarter 2016.	I Kvartal quarter 2017.	IV Kvartal quarter 2017.	I Kvartal quarter 2018.	I 2018 IV 2017	I 2018 I 2017	
					Indeksi/Indicies		
Ukupan broj korisnika mobilne mreže	3.276.498	3.281.402	3.440.085	3.301.808	96,0	100,6	Total number of mobile network users
Penetracija mobilne telefonije	85,61 %	92,93%	97,42%	93.50%	96,0	100,6	Penetration of mobile telephony
Ukupan broj prenesenih brojeva	30.411	43.554	50.257	53.684	106,8	123,6	The total number of transferred numbers
Ukupan odlazni saobraćaj operatora mobilne telefonije (minutama)	606.888.340	557.631.668	573.893.927	524.806.197	91,4	94,1	Total outgoing traffic of mobile operators(in minutes)
Broj poslatih SMS poruka	228.888.104	168.611.585	145.836.623	131.059.077	89,9	77,7	SMS sent
Broj poslatih MMS poruka	302.836	267.059	244.487	230.584	94,3	86,3	MMS sent

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

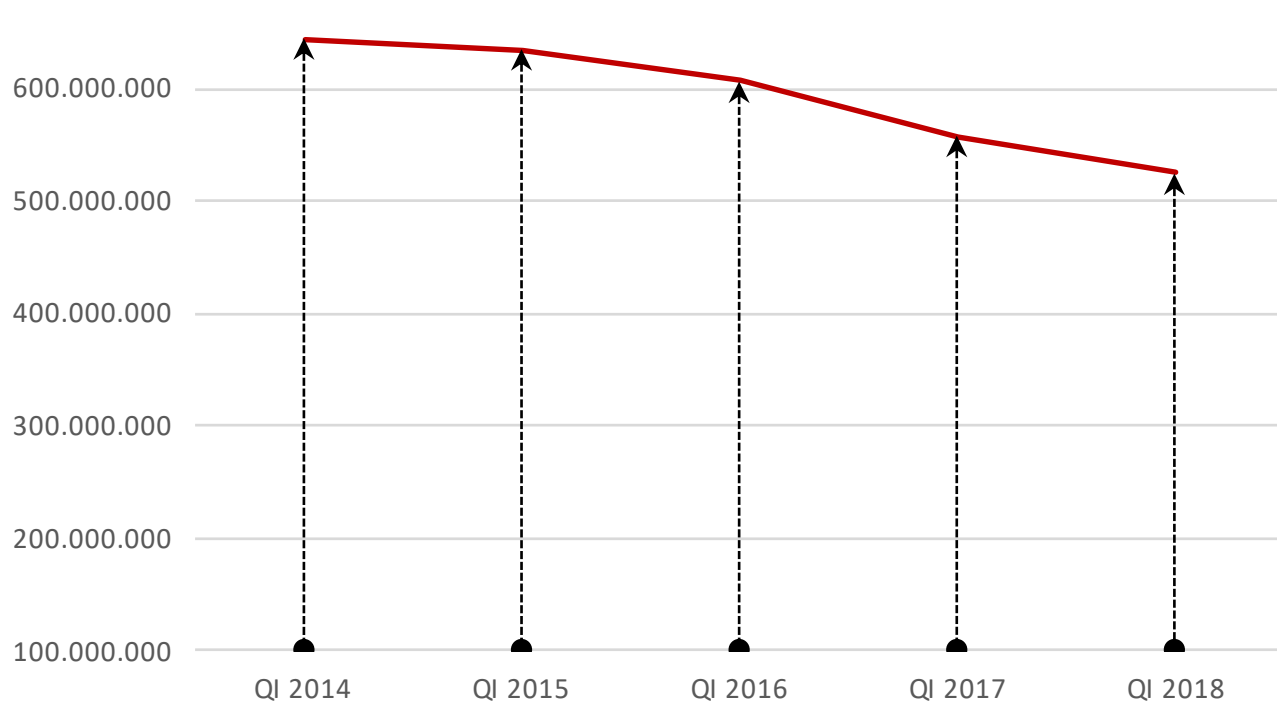
Grafikon 2.1. Broj korisnika telefonskih usluga u mobilnoj telefoniji

Graph.2.1 1 Number of users of telephone services in mobile telephony



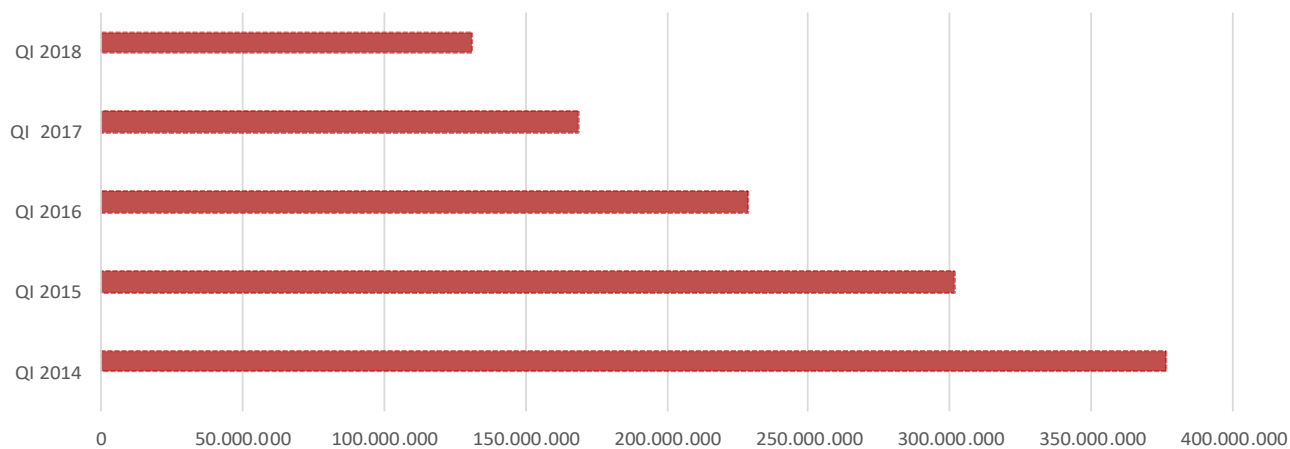
Grafikon 2.2. Odlazni saobraćaj mobilne telefonije, u minutama.

Graph.2.2 Outgoing traffic of mobile operators, in minutes.



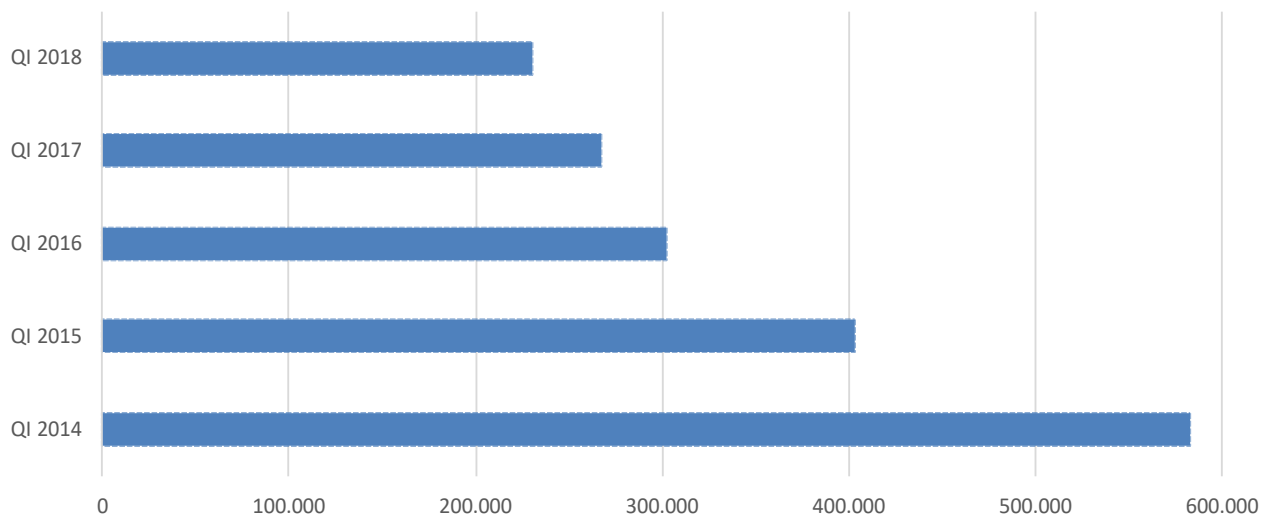
Grafikon 2.3. Broj poslatih SMS poruka

Graph.2.3. SMS sent

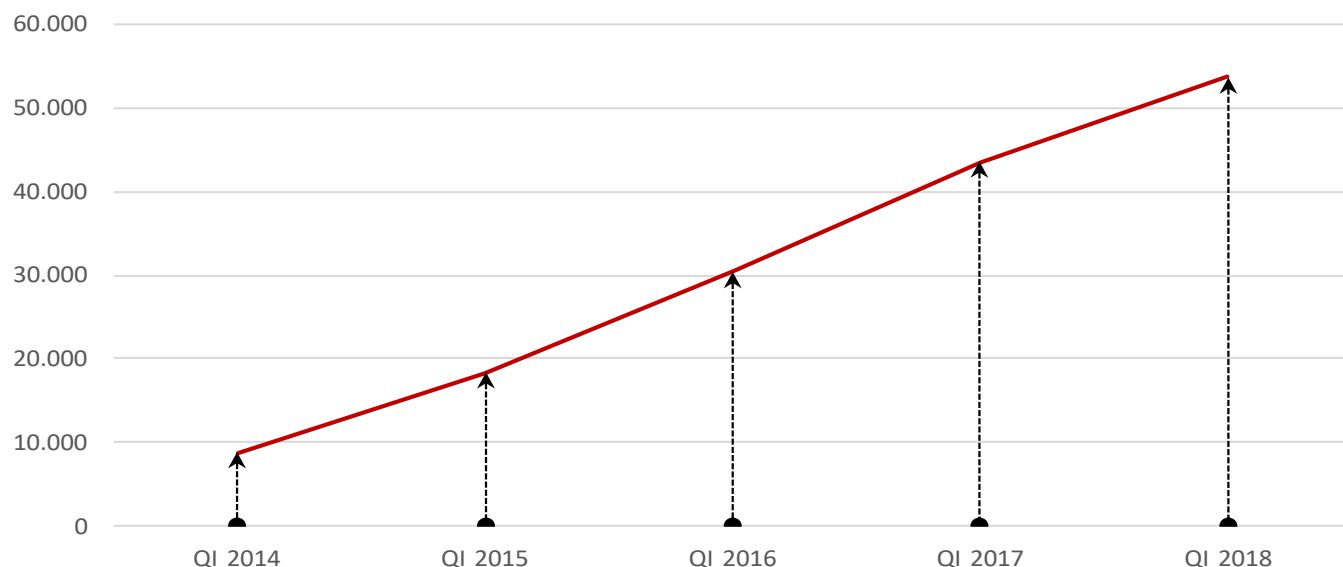


Grafikon 2.4. Broj poslatih MMS poruka

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

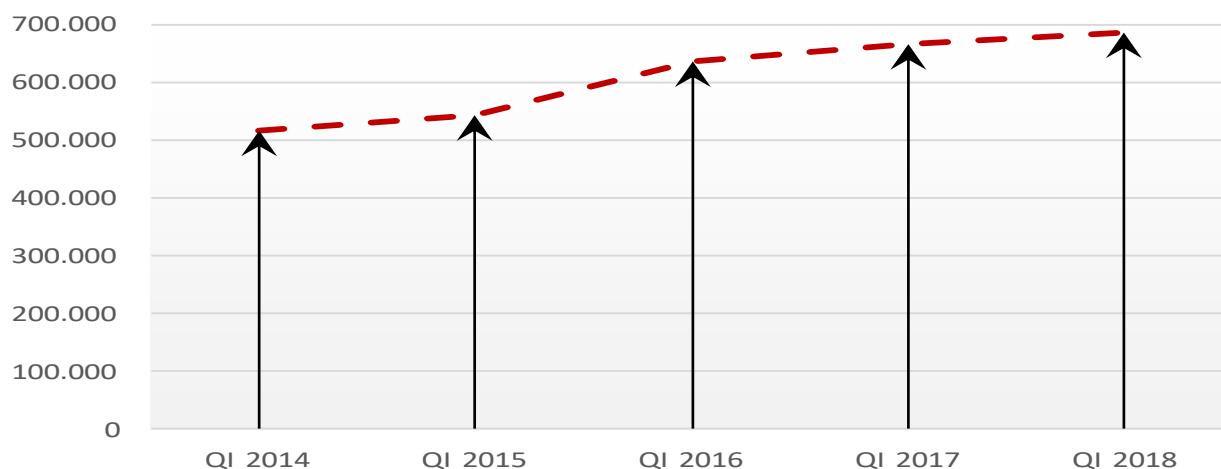
Table 3. Internet access

	I Kvartal quarter 2016	I Kvartal quarter 2017	IV Kvartal quarter 2017	I Kvartal quarter 2018	I 2018 I 2017	I 2018 IV 2017	
	Indeksi/Indices						
Ukupan broj priključaka širokopojasnog pristupa internetu putem fiksne mreže	643.199	666.344	663.682	686.226	103,0	103,4	Total number of broadband subscribers
Broj xDSL priključaka	377.248	388.508	398.110	403.596	103,9	101,4	Number of subscribers using xDSL connection
Broj priključaka putem kablovske mreže	203.839	218.225	221.251	232.937	106,7	105,3	Number of subscribers by cable network
Broj priključaka fiksni bežični pristup	60.076	57.214	40.886	45.168	78,9	110,5	Number of subscribers fixed wireless connection
Broj priključaka putem iznajmljene linije	1.253	1.220	1.142	1.114	91,3	97,5	Number of subscribers via leased lines
Broj priključaka FTTx	530	1.019	1.939	3.103	304,5	160,0	Number of subscribers via FTTx connection
Broj priključaka putem ostalih tehnologija	253	158	354	308	195,0	87,0	Number of subscribers using other technologies
Stopa penetracije korisnika interneta putem fiksne mreže	73.32%	83,40%	85,25%	85,50%	-	-	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)

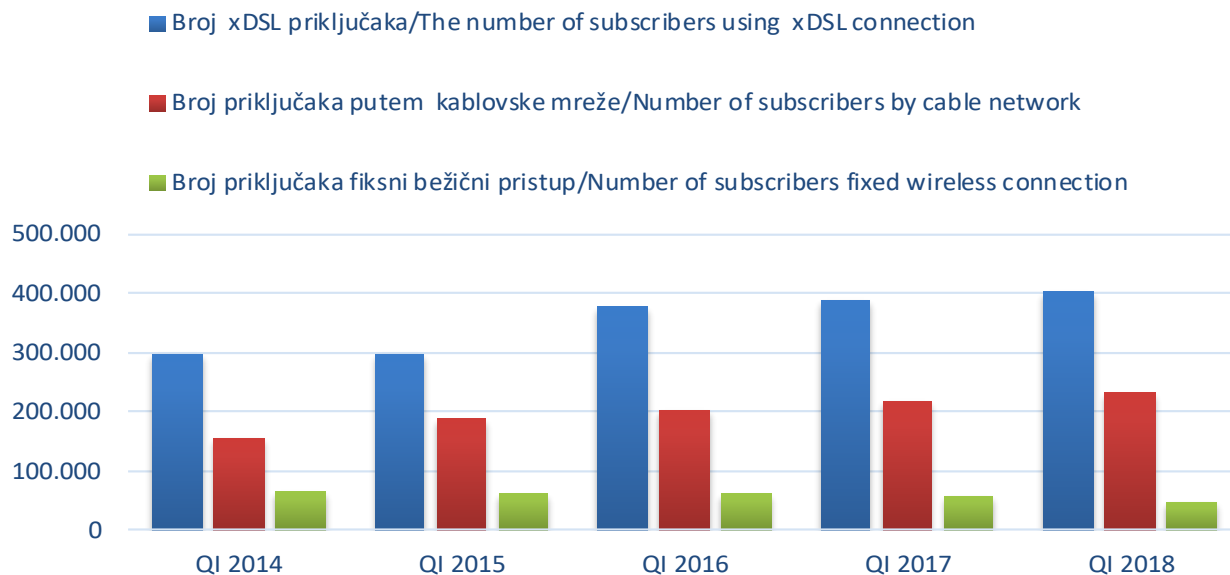
Grafikon 3.1 Ukupan broj priključaka pristupa internetu putem fiksne mreže

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 OBJAŠNJENJA

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 saopštenja bilo koje prirode koja se pruža žičnim, svjetlosnim, bežičnim ili drugim elektromagnetskim sistemima uključujući omogućavanje upotrebe tih sistema kaocjeline 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 OF 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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Telefon/Phone: +387 (33) 911 911 · Telefaks/Telefax: +387 (33) 220 622
Elektronska pošta/E-mail : bhas@bhas.gov.ba · Internetska stranica/Web site: <http://www.bhas.ba>

Odgovara direktor: dr.sc Velimir Jukić
Person responsible: Velimir Jukić, PhD, Director

Saopćenje priredio: Dragan Jovović
Prepared by: Dragan Jovović

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