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ELEKTRONSKE KOMUNIKACIJE, prvi kvartal 2019. *ELECTRONIC COMMUNICATIONS, first quarter 2019.*

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatora u prvom kvartalu 2019. godine iznosio je 600.535 što predstavlja pad od 3,1% u odnosu na prvi kvartal 2018. godine.

Total number of fixed telephone lines of dominant operators in the first quarter 2019 was 600.535 which represents a decrease of 3,1% compared to the first quarter 2018th.

Ukupni odlazni saobraćaj fiksne telefonske mreže u prvom kvartalu 2019. godine iznosio je 412.618.178 minuta, što pokazuje pad od 10,8% u odnosu na prvi kvartal 2018. godine.

The total traffic of fixed telephone network in the fourth quarter 2019 was 412.618.178 minutes which shows a decrease of 10,8% compared the first quarter 2018th.

Broj korisnika mobilne mreže u prvom kvartalu 2019. godine iznosio je 3.319.416 i bilježi blagi rast od 0,5% u odnosu na prvi kvartal 2018. godine. Ukupni odlazni saobraćaj mobilne mreže u prvom kvartalu 2019. godine iznosio je 542.033.666 minuta, što predstavlja rast od 3,3 % u odnosu na prvi kvartal 2018. godine.

Total mobile network users in the first quarter 2019 was 3.319.416 which shows a slight increase of 0,5% compared to the first quarter 2018th year. The total traffic of mobile telephone network in the first quarter 2019 was 542.033.666 minutes which represents an increase of 3,3% compared to the first quarter 2018th year.

Broj poslanih SMS poruka u prvom kvartalu 2019. godine manji je za 16,5%, dok je broj poslanih MMS poruka veći za 10,7% u odnosu na prvi kvartal 2018. godine.

Number of SMS messages sent in the first quarter 2019 decreased by 16,5%, while the number of MMS messages sent increase by 10,7% compared to the first quarter 2018th.

Ukupan broj internet priključaka putem fiksne mreže u prvom kvartalu 2019. godine iznosio je 697.642 i bilježi rast od 1,7% u odnosu na prvi kvartal 2018. godine.

The total number of Internet connections via the fixed network in the first quarter of 2019 was 697.642 an increase of 1,7% compared the first quarter of 2018th.

1.FIKSNA TELEFONSKA MREŽA

Tabela 1.1 Fiksna telefonska mreža

Table. 1. 1. Fixed telephone network

	I kvartal quarter	I kvartalq uarter	I kvartal quarter	IV kvartalq uarter	I kvartal quarter	I 2019 IV2018	I 2019 I 2018	
	2016.	2017.	2018.		2019.	Indeksi/Indicies		
Ukupan broj aktivnih fiksnih telefonskih linija incumbent ¹ operatera	738.909	683.984	619.489	599.642	600.535	100,1	96,9	Total number of fixed telephone lines of incumben ^{m 1} operators
Broj novih operatera fiksne telefonije	13	12	11	9	11	-	-	The number of new fixed telephony operator
Ukupan broj vlastitih pretplatnika novih operatera	80.008	107.140	132.170	140.033	142.236	101,6	107,6	The total number of own subscribers to new operators
Ukupan broj pretplatnika alternativnih operatera sa indirektnim pristupom	40.381	38.672	2.019	1.752	842	48,1	41,7	Alternative operators - Number of Indirect Access Subscribers
Ukupan broj prenesenih brojeva	36.246	54.223	69.628	78.745	80.599	102,4	115,8	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

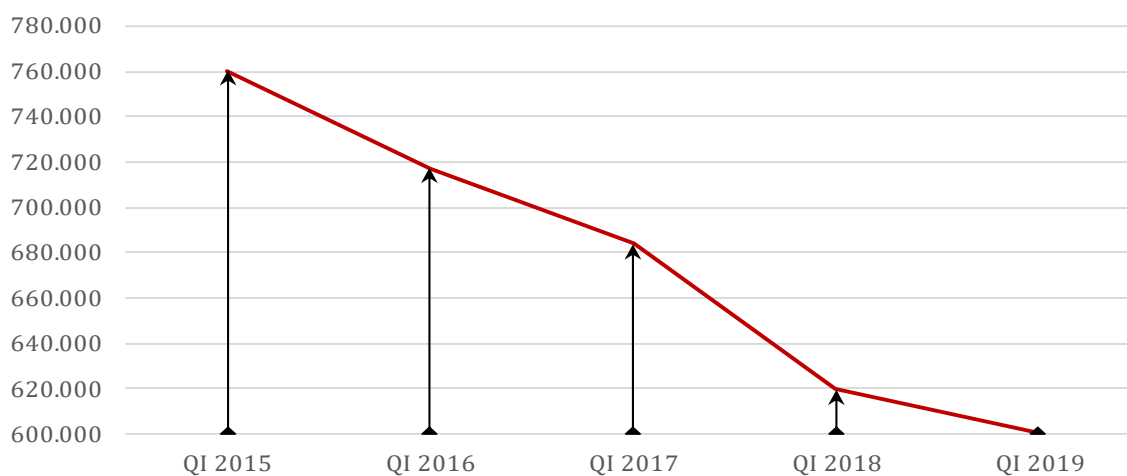
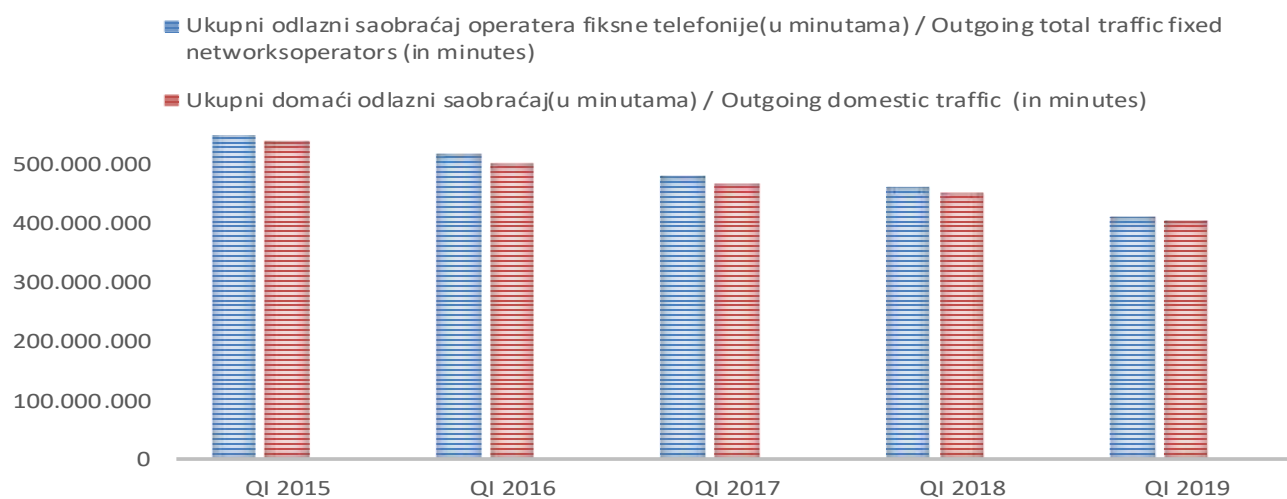


Tabela 1.2. Odlazni saobraćaj operatera fiksne telefonije*Table 1.2 Outgoing traffic fixed - line operator*

Odlazni saobraćaj operatera u milionama minuta	I kvartal/ quarter	I kvartal/ quarter	I kvartal/ quarter	I kvartal/ quarter	IV kvartal/ quarter	I kvartal/ quarter	Outgoing traffic operators in millions of minutes
	2015.	2016.	2017.	2018.	2018.	2019.	
Ukupno odlazni saobraćaj operatera fiksne telefonije	557.023.666	499.808.307	482.453.309	462.491.302	426.990.705	412.618.178	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	541.091.010	486.863.462	469.951.257	453.490.600	418.653.569	405.445.866	Outgoing domestic traffic
Ukupni međunarodni i odlazni telefonski saobraćaj	15.932.656	12.944.845	12.502.052	9.000.702	8.091.361	7.172.312	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 2019 I 2017	I 2019 I 2018	I 2019 IV 2018	Indicies by indicators outgoing traffic fixed-line operator
Ukupno odlazni saobraćaj operatera fiksne telefonije	85,5	89,2	96,6	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	86,8	89,4	96,8	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	57,4	79,7	88,6	Interantional outgoing fixed telephone traffic

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

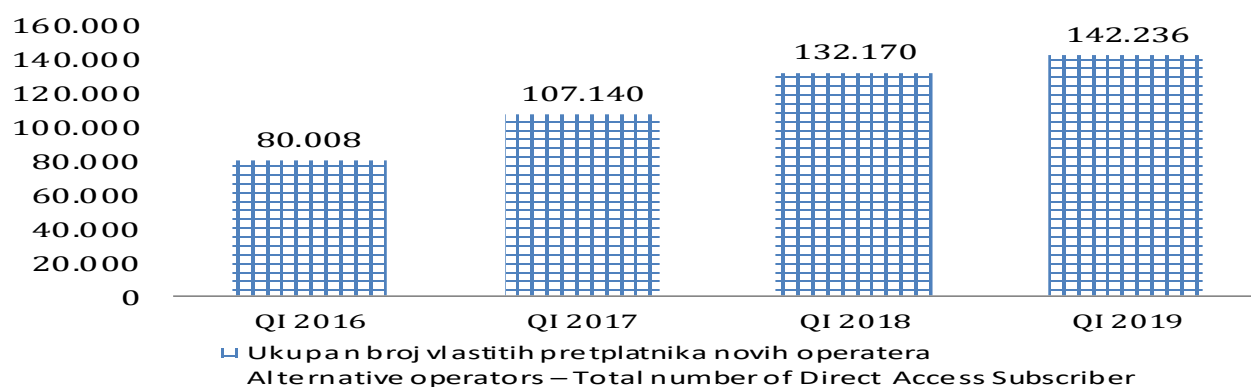
Grafikon 1.2.1 Saobraćaj ostvaren putem fiksne telefonske mreže

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

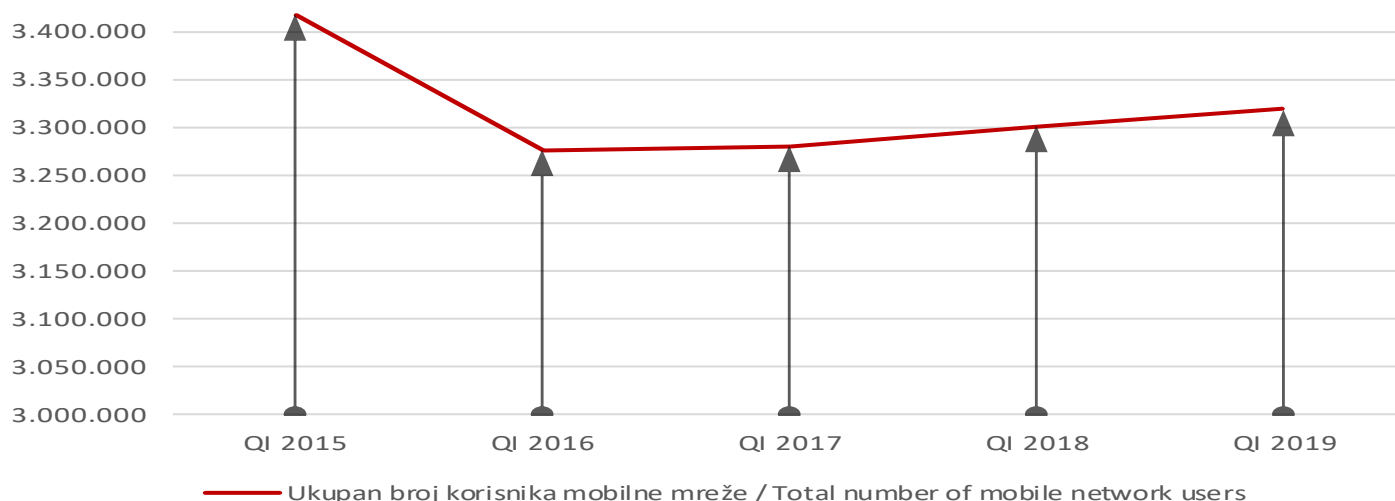
	I kvartal <i>quarter</i>	I kvartal <i>quarter</i>	IV kvartal <i>quarter</i>	I kvartal <i>quarter</i>	I 2019 IV 2018	I 2019 I 2018	
	2017.	2018.		2019.	Indeksi/Indices		
Ukupan broj korisnika mobilne mreže	3.281.402	3.301.808	3.461.058	3.319.416	95,9	100,5	Total number of mobile network users
Penetracija mobilne telefonije	92,93%	93.50%	98,01%	94,00%	95,9	100,5	Penetration of mobile telephony
Ukupan broj prenesenih brojeva	43.554	53.684	62.925	64.307	102,2	119,8	The total number of transferred numbers
Ukupan odlazni saobraćaj operatora mobilne telefonije (minutama)	557.631.668	524.806.197	561.093.626	542.033.666	96,6	103,3	Total outgoing traffic of mobile operators (in minutes)
Broj poslatih SMS poruka	168.611.585	131.059.077	123.258.377	109.393.545	89,8	77,5	SMS sent
Broj poslatih MMS poruka	267.059	230.584	247.803	255.233	103,0	110,7	MMS sent

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

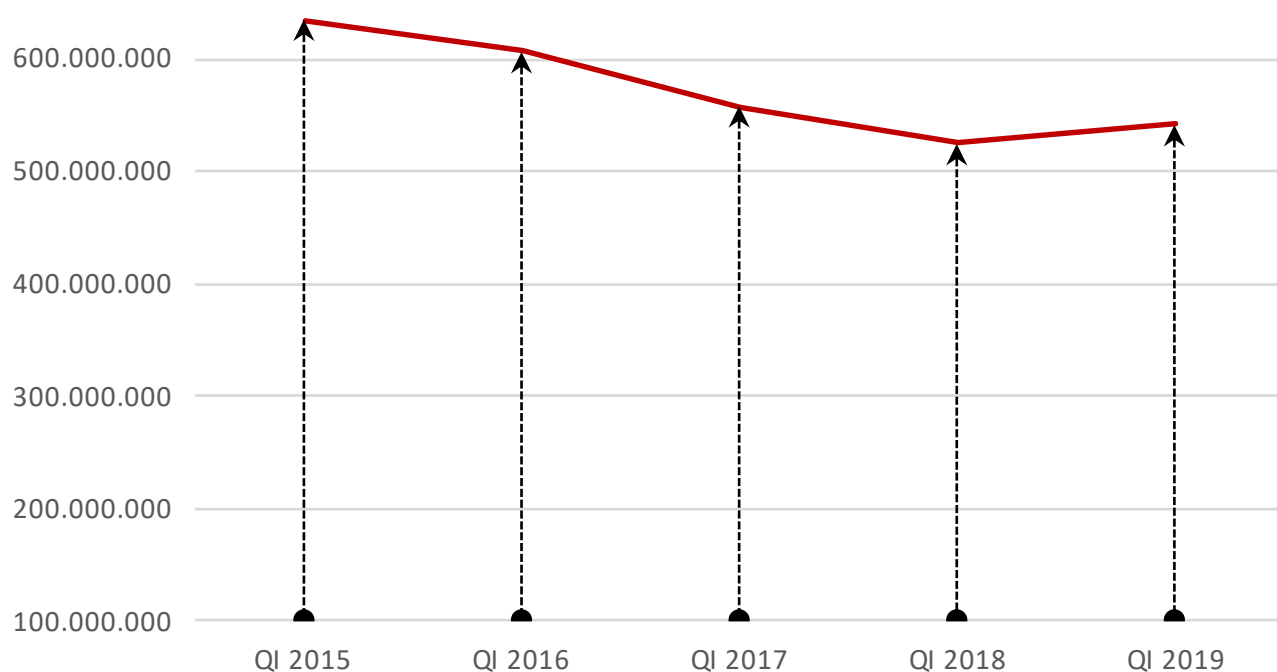
Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Grafikon 2.1. Broj korisnika telefonskih usluga u mobilnoj telefoniji

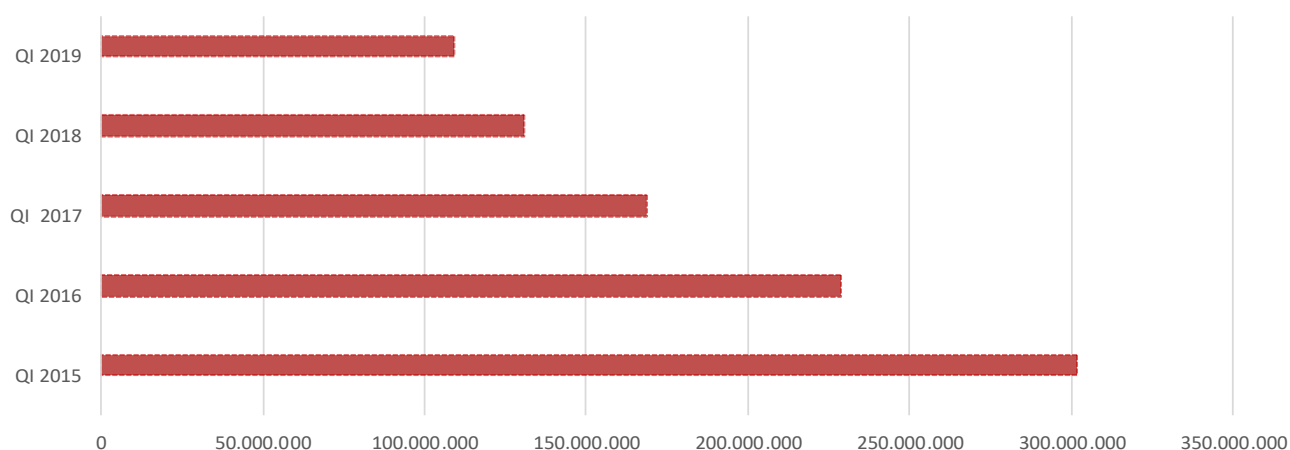
Graph.2.1 Number of users of telephone services in mobile telephony



Grafikon 2.2. Odlazni saobraćaj mobilne telefonije, u minutama.
Graph.2.2 Outgoing traffic of mobile operators, in minutes.

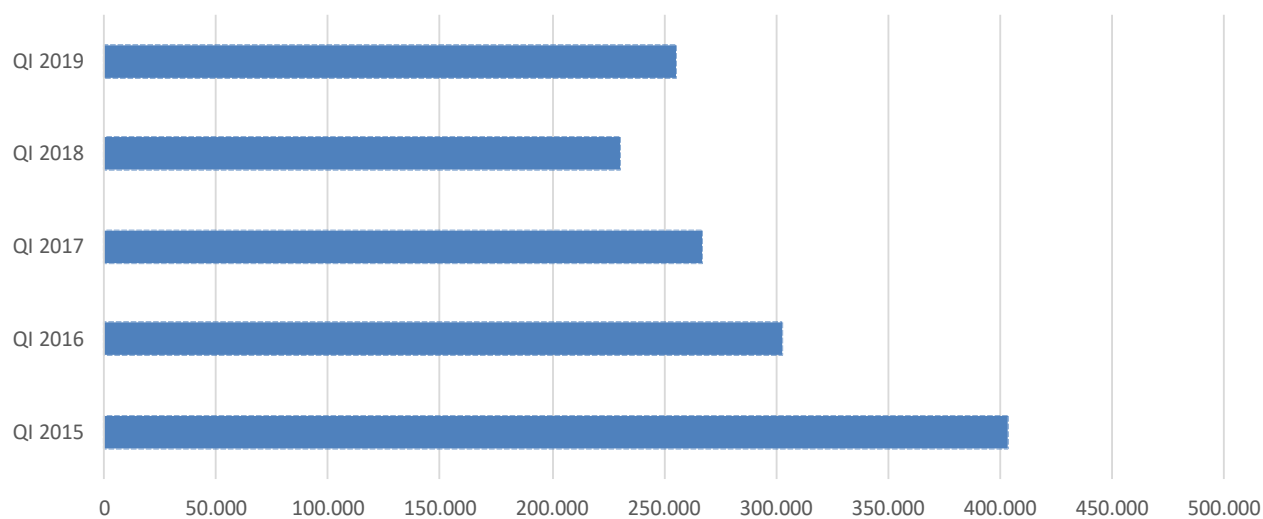


Grafikon 2.3. Broj poslatih SMS poruka
Graph.2.3. SMS sent



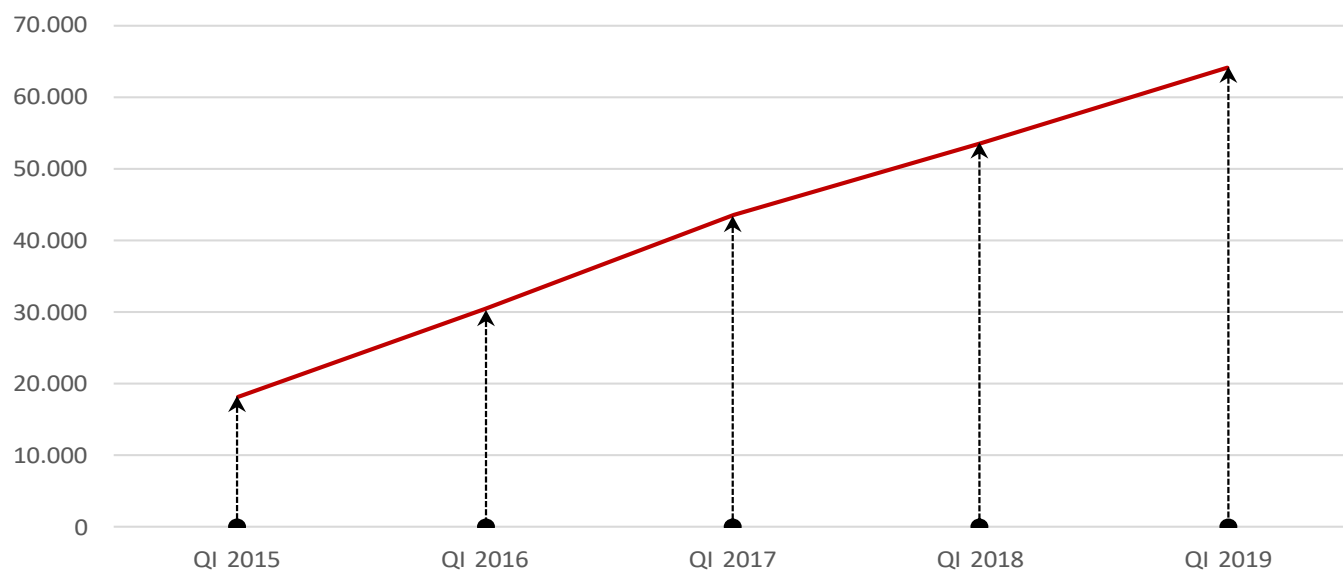
Grafikon 2.4. Broj poslatih MMS poruka

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

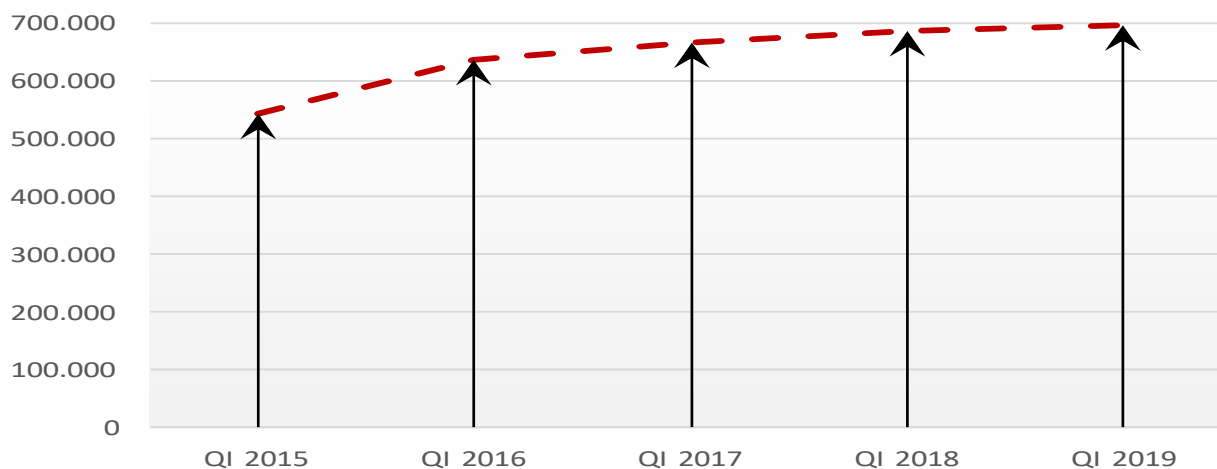
	I kvartal quarter 2017.	I kvartal quarter 2018.	IV kvartal quarter 2018.	I kvartal quarter 2019.	I 2019 I 2018	I 2019 IV 2018	
					Indeksi/Indices		
Ukupan broj priključaka širokopolasnog pristupa internetu putem fiksne mreže	666.344	686.226	693.554	697.642	101,7	100,6	Total number of broadband subscribers
Broj xDSL priključaka	388.508	403.596	404.795	407.091	100,9	100,6	Number of subscribers using xDSL connection
Broj priključaka putem kablovske mreže	218.225	232.937	230.028	230.767	99,1	100,3	Number of subscribers by cable network
Broj priključaka fiksni bežični pristup	57.214	45.168	40.719	38.835	86,0	95,4	Number of subscribers fixed wireless connection
Broj priključaka putem iznajmljene linije	1.220	1.114	1.036	1.005	90,2	97,0	Number of subscribers via leased lines
Broj priključaka FTTx	1.019	3.103	16.691	19.799	638,1	118,6	Number of subscribers via FTTx connection
Broj priključaka putem ostalih tehnologija	158	308	285	145	47,1	50,9	Number of subscribers using other technologies
Stopa penetracije korisnika interneta putem fiksne mreže	83,40%	85,50%	86,50%	86,56%	-	-	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)

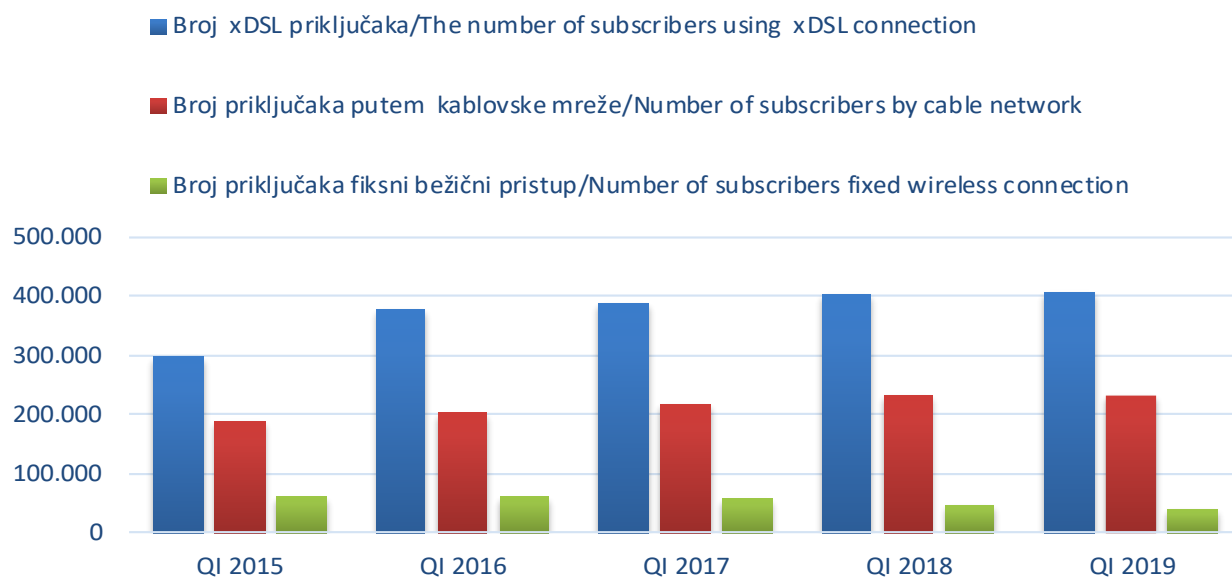
Grafikon 3.1 Ukupan broj priključaka pristupa internetu putem fiksne mreže

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 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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