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INFORMACIONO DRUŠTVO

INFORMATION SOCIETY

ELEKTRONSKE KOMUNIKACIJE, drugi kvartal 2019.

ELECTRONIC COMMUNICATIONS, the second quarter 2019.

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatora u drugom kvartalu 2019. godine iznosio je 597.285 što predstavlja pad od 2,7% u odnosu na drugi kvartal 2018. godine.

Total number of fixed telephone lines of dominant operators in the second quarter 2019 was 597.285 represents a decrease of 2,7% compared to the second quarter 2018th.

Ukupni odlazni saobraćaj fiksne telefonske mreže u drugom kvartalu 2019. godine iznosio je 396.021.252 minuta, što pokazuje pad od 7,3% u odnosu na drugi kvartal 2018. godine.

The total traffic of fixed telephone network in the second quarter 2019 was 396.021.252 minutes which shows a decrease of 7,3% compared the second quarter 2018th.

Broj korisnika telefonskih usluga mobilne mreže u drugom kvartalu 2019. godine iznosio je 3.585.604 što pokazuje rast od 7,3 % u odnosu na drugi kvartal 2018. godine. Ukupni odlazni saobraćaj mobilne mreže u drugom kvartalu 2019. godine iznosio je 569.037.510minuta, što predstavlja blagi pad od 0,2 % u odnosu na drugi kvartal 2018. godine.

Number of mobile phone users in the second quarter 2019 was 3.585.604 which shows an increase of 7,3% compared to the second quarter 2018th year. The total traffic of mobile telephone network in the second quarter 2019 was 569.037.510 minutes which represents a slight decrease of 0,2% compared to the second quarter 2018th year.

Broj poslanih SMS poruka u drugom kvartalu 2019. godine manji je za 10,9%, dok je broj poslanih MMS poruka veći za 24,2% u odnosu na drugi kvartal 2018. godine.

Number of SMS messages sent in the second quarter 2019 decreased by 10,9%, while the number of MMS messages sent increase by 24,2% compared to the second quarter 2018th.

Ukupan broj internet priključaka putem fiksne mreže u drugom kvartalu 2019. godine iznosio je 707.543i bilježi rast od3,1% u odnosu na drugi kvartal 2018. godine

The total number of Internet connections via the fixed network in the second quarter of 2019 was 707.543 an increase of 3,1% compared the second quarter of 2018 years.

1.FIKSNA TELEFONSKA MREŽA

Tabela 1.1 Fiksna telefonska mreža

Table 1. 1. Fixed telephone network

	II	II	I	II	II 2019	II 2019	
	Kvartal	Kvartal	Kvartal	Kvartal	II 2018	I 2019	
	2017.	2018.	2019.		Indeksi/Indices		
Ukupan broj aktivnih fiksnih telefonskih linija incumbent ¹ operatera	677.737	613.822	600.535	597.285	97,3	99,5	Total number of fixed telephone lines of incumbent ¹ operators
Broj novih operatera fiksne telefonije	12	11	11	11	100,0	100,0	The number of new fixed telephony operator
Ukupan broj vlastitih pretplatnika novih operatera	111.364	137.314	142.236	144.196	105,3	101,4	The total number of own subscribers to new operators
Ukupan broj pretplatnika alternativnih operatera sa indirektnim pristupom	38.535	1.947	842	796	40,9	94,5	Alternative operators - Number of Indirect Access Subscribers
Ukupan broj prenesenih brojeva	58.603	72.124	80.599	82.053	113,8	101,8	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

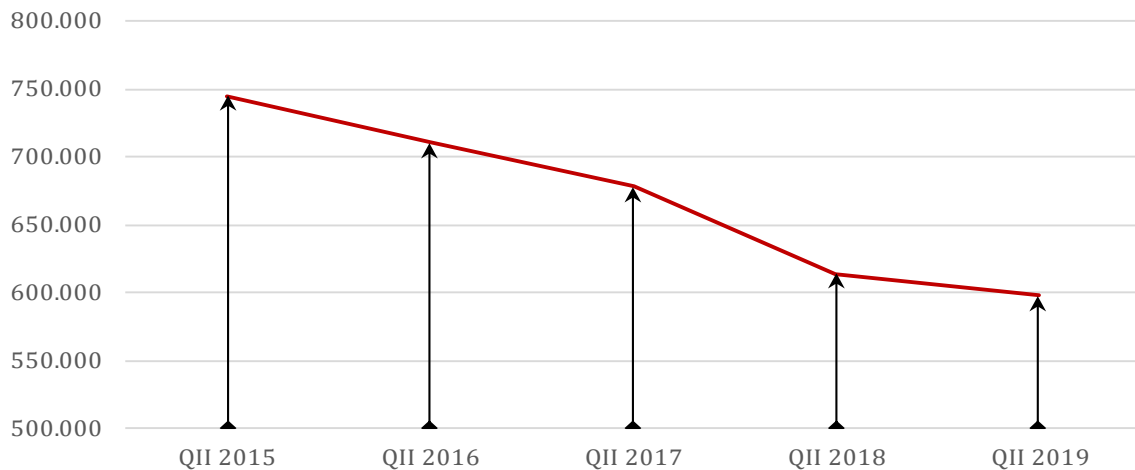
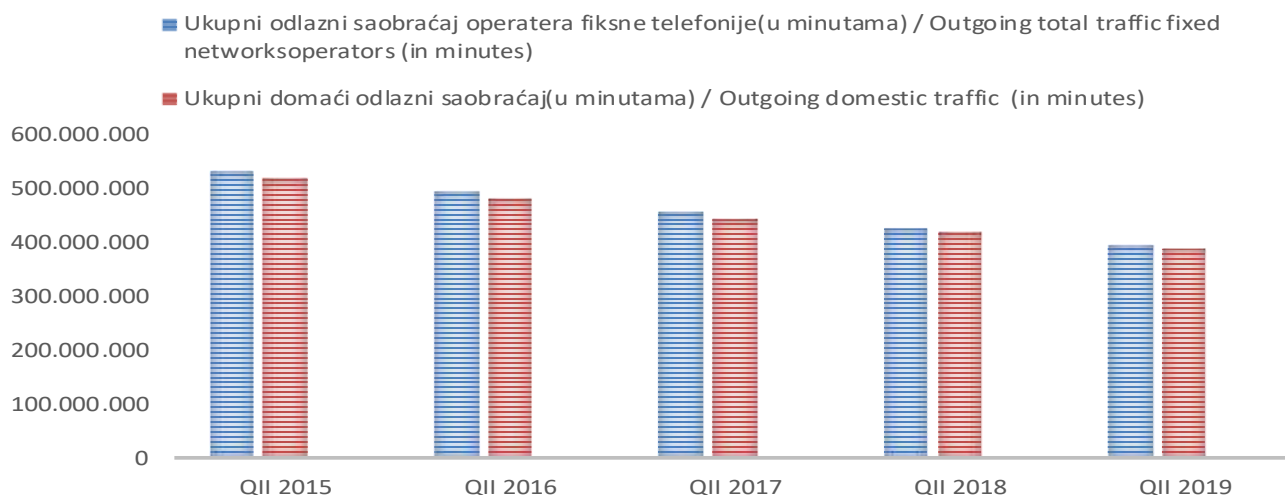


Tabela 1.2. Odlazni saobraćaj operatera fiksne telefonije*Table 1.2 Outgoing traffic fixed - line operator*

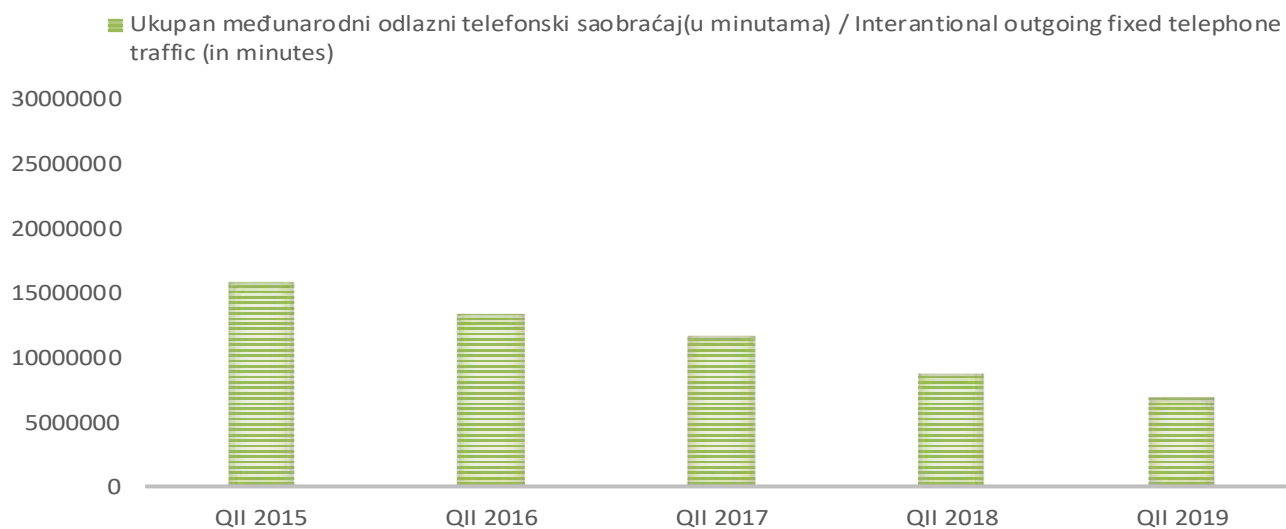
Odlazni saobraćaj operatera u milionama minuta	II kvartal/ quarter	II kvartal/ quarter	II kvartal/ quarter	I kvartal/ quarter	II kvartal/ quarter	Outgoing traffic operators in millions of minutes
	2016	2017	2018	2019	2019	
Ukupno odlazni saobraćaj operatera fiksne telefonije	494.017.927	455.175.167	427.000.629	412.618.178	396.021.252	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	480.658.109	443.466.685	418.272.133	405.445.866	389.070.890	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	13.359.818	11.708.482	8.728.499	7.172.312	6.950.362	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)*

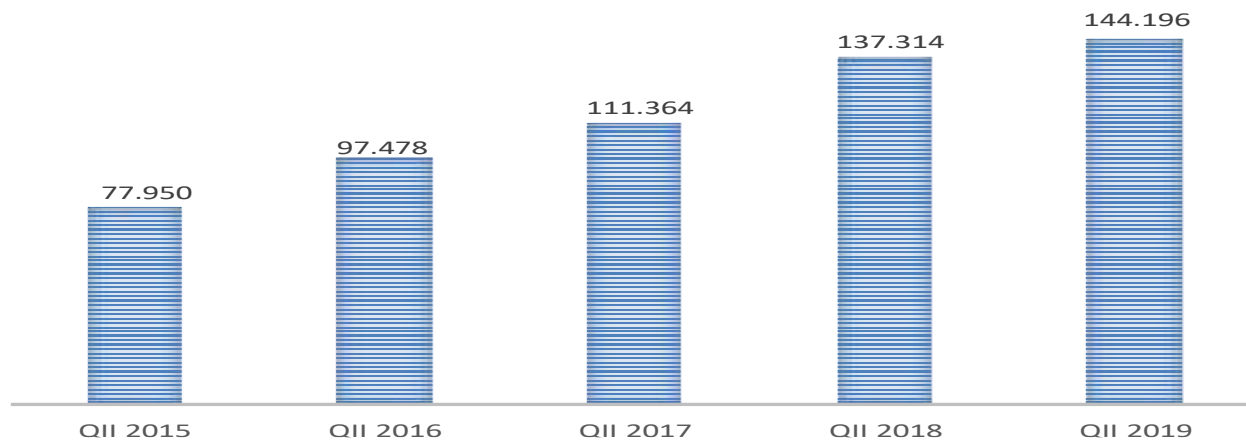
Indeksi po indikatorima odlaznog saobraćaja operatera fiksne telefonije	II 2019 II 2017	II 2019 II 2018	II 2019 I 2019	Indicies by indicators outgoing traffic fixed-line operator
	Ukupno odlazni saobraćaj operatera fiksne telefonije	87,0	92,7	
Ukupni domaći odlazni saobraćaj	87,7	93,0	96,0	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	59,4	79,6	96,9	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. Saobraćaj ostvaren putem fiksne telefonske mreže, međunarodni odlazni saobraćaj
Graph 1.3 Traffic accomplished via fixed telephone network, Interantional outgoing fixed telephone traffic



Grafikon 1.4. Ukupan broj vlastitih pretplatnika novih operatera
Graph 1.4 Alternative operators- Total number of direct access subscriber



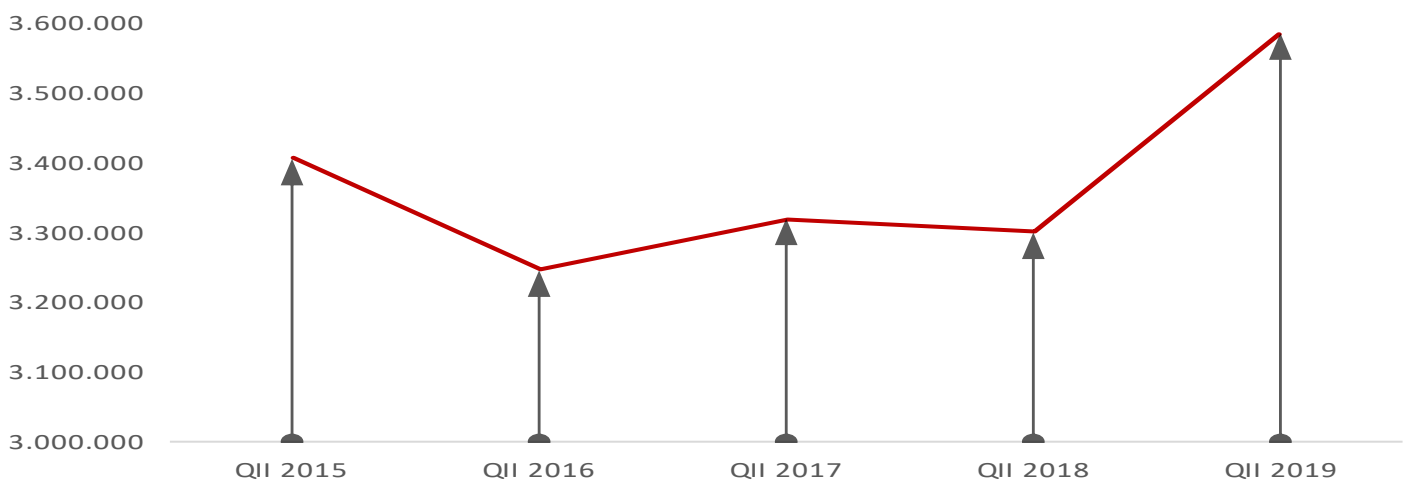
2.MOBILNA TELEFONSKA MREŽA

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

	I Kvartal quarter	II Kvartal quarter	I Kvartal quarter	II Kvartal quarter	II 2019 II 2018	II 2019 I 2019	
	2017.	2018.	2019.	2019.	Indeksi/Indices		
Ukupan broj korisnika mobilne mreže	3.319.084	3.300.634	3.319.416	3.585.604	108,6	108,0	Total number of mobile network users
Penetracija mobilne telefonije	93,99%	93,47%	94,00%	101,54%	108,6	108,1	Penetration of mobile telephony
Ukupan broj prenesenih brojeva	46.126	56.477	64.307	66.755	118,2	103,8	The total number of transferred numbers
Ukupan odlazni saobraćaj operatora mobilne telefonije (minutama)	594.650.077	570.271.219	542.033.666	569.037.510	99,8	105,0	Total outgoing traffic of mobile operators (in minutes)
Broj poslanih SMS poruka	162.394.070	133.713.307	109.393.545	119.157.496	89,1	108,9	SMS sent
Broj poslanih MMS poruka	293.113	224.401	255.233	278.685	124,2	109,2	MMS sent

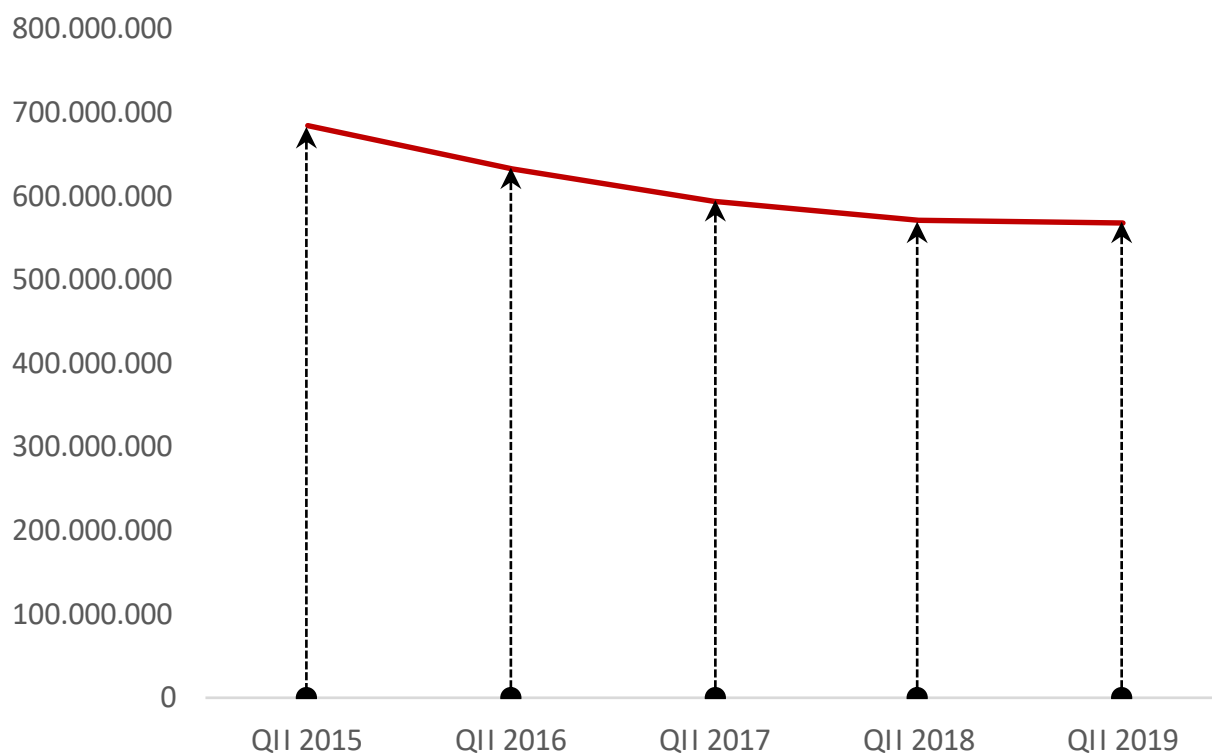
Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)
 Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Grafikon 2.1. Broj korisnika telefonskih usluga u mobilnoj telefoniji
Graph.2.1 Number of users of telephone services in mobile telephony



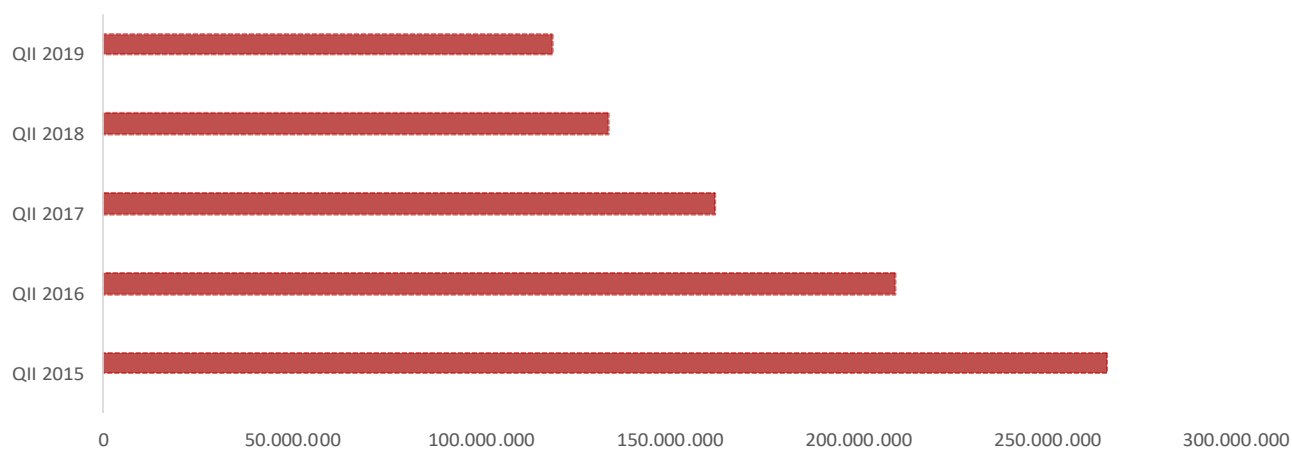
Grafikon 2.2. Odlazni saobraćaj mobilne telefonije, u minutama

Graph.2.2 Outgoing traffic of mobile operators, in minutes



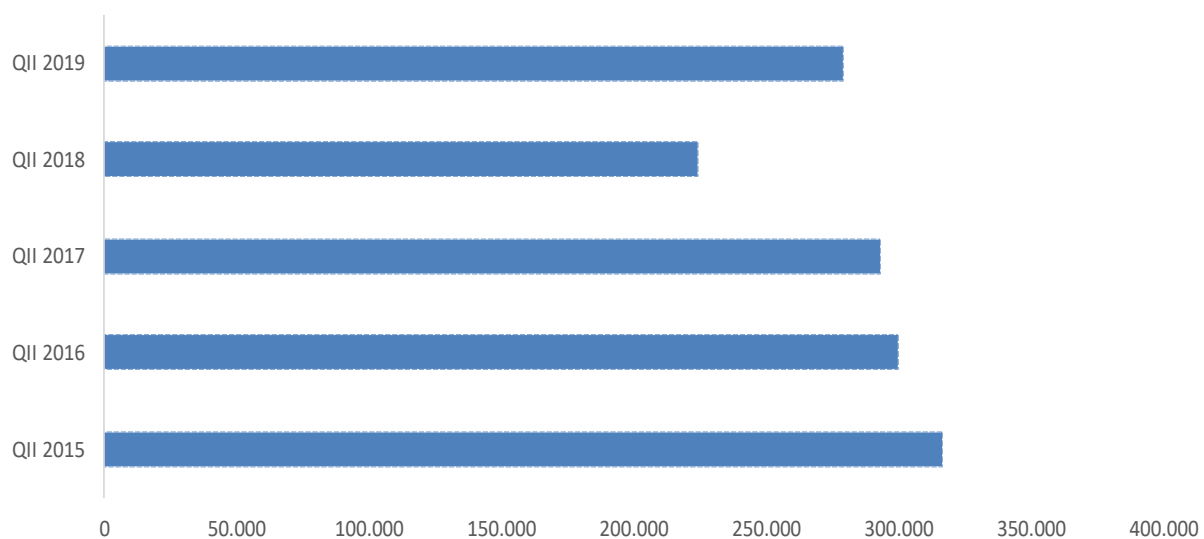
Grafikon 2.3. Broj poslatih SMS poruka

Graph.2.3. SMS sent



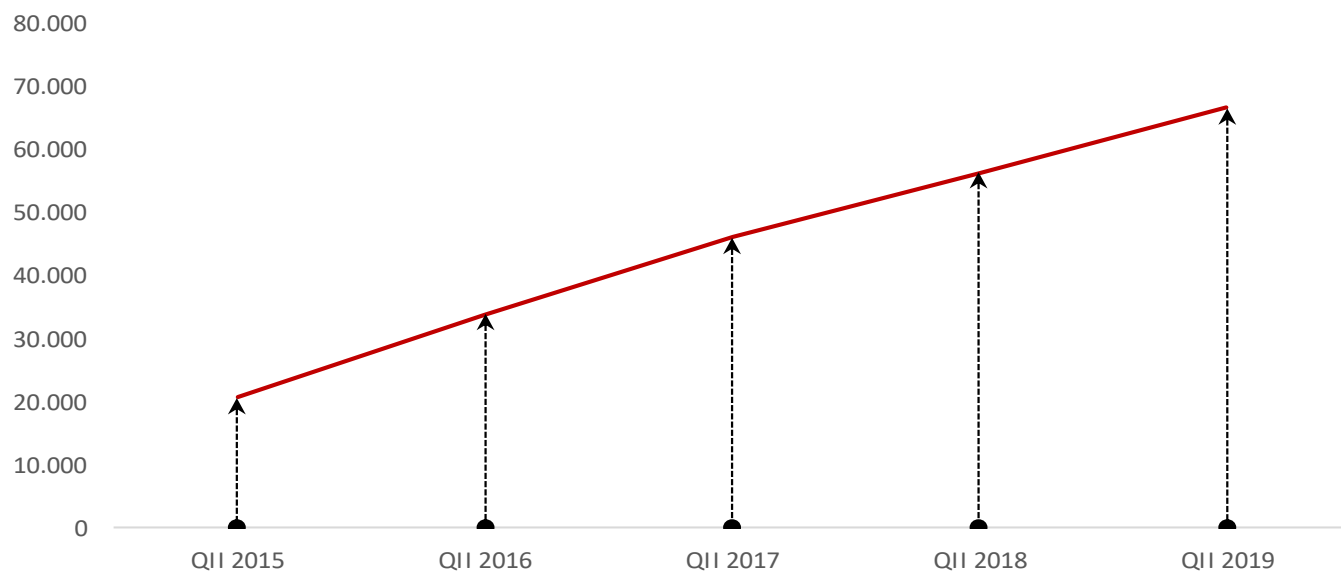
Grafikon 2.4. Broj poslatih MMS poruka

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

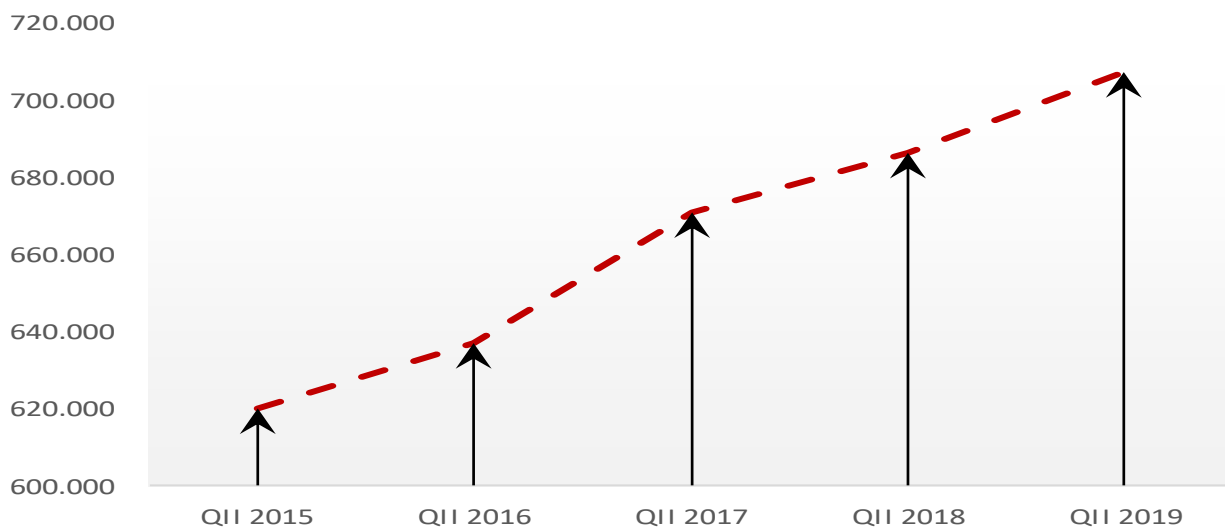
Table 3. Internet access

	II	II	I	II	II 2019	II 2019	
	Kvartal	Kvartal	Kvartal	Kvartal	II 2019	I 2019	
	2017	2018	2019	2019	Indeksi/Indicies		
Ukupan broj priključaka širokopolasnog pristupa internetu putem fiksne mreže	671.068	686.546	697.642	707.543	103,1	101,4	Total number of broadband subscribers
Broj xDSL priključaka	389.310	398.716	407.091	410.263	102,9	100,8	Number of subscribers using xDSL connection
Broj priključaka putem kablovske mreže	221.559	230.030	230.767	230.550	100,2	99,9	Number of subscribers by cable network
Broj priključaka fiksni bežični pristup	57.661	43.541	38.835	41.912	96,3	107,9	Number of subscribers fixed wireless connection
Broj priključaka putem iznajmljene linije	1.206	1.078	1.005	911	84,5	90,6	Number of subscribers via leased lines
Broj priključaka FTTx	894	13.033	19.799	23.769	182,4	120,1	Number of subscribers via FTTx connection
Broj priključaka putem ostalih tehnologija	438	148	145	138	93,2	95,2	Number of subscribers using other technologies
Stopa penetracije korisnika interneta putem fiksne mreže	83,5%	85,5%	85,6%	87,5%	102,3	101,1	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)

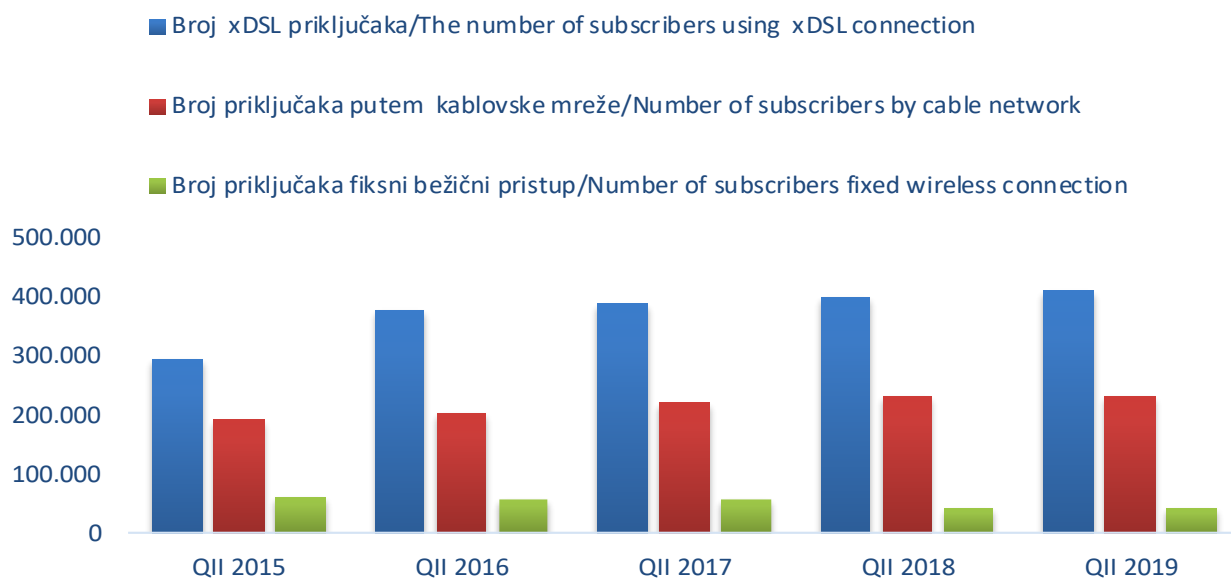
Grafikon 3.1 Ukupan broj priključaka pristupa internetu putem fiksne mreže

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 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 saopštenja 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 širokopoljnim internet uslugama realizovan putem optičkog vlakna.

xDSL (Digitalna Pretplatnička Linija) je širokopoljni pristup internet uslugama realizovan putem upredene bakarne parice. Tu spadaju širokopoljne 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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