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GODINA/ YEAR V

SARAJEVO, 31.01. 2020.

BROJ/ NUMBER 3

INFORMACIJSKO DRUŠTVO

INFORMATION SOCIETY

ELEKTRONSKE KOMUNIKACIJE, treći kvartal 2019

ELECTRONIC COMMUNICATIONS, third quarter 2019

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatora u trećem kvartalu 2019. godine iznosio je 590.409, što predstavlja pad od 2,6% u odnosu na treći kvartal 2018. godine.

Total number of fixed telephone lines of dominant operators in the third quarter 2019 was 590.409 which represents a decrease of 2,6% compared to the third quarter 2018th.

Ukupni odlazni saobraćaj fiksne telefonske mreže u trećem kvartalu 2019. godine iznosio je 374.211.937 minuta, što pokazuje pad od 20,2% u odnosu na treći kvartal 2018. godine.

The total traffic of fixed telephone network in third quarter 2019 was je 374.211.937 minutes which shows an decrease of 20,2% compared to third quarter 2018th.

Broj korisnika mobilne mreže u trećem kvartalu 2019. godine iznosio je 3.804.197 i bilježi rast od 9,3% u odnosu na treći kvartal 2018. godine. Ukupni odlazni saobraćaj mobilne mreže u trećem kvartalu 2019. godine iznosio je 584.334.964 minuta, što pokazuje rast od 0,7% u odnosu na treći kvartal 2018. godine.

Number of mobile phone users in the third quarter 2019 was 3.804.197 which shows an increase of 9,3% compared to the third quarter 2018th year. The total traffic of mobile telephone network in the third quarter 2019 was 584.334.964 minutes which shows an increase of 0,7% compared to the third quarter 2018th year.

Broj poslanih SMS poruka u trećem kvartalu 2019. godine manji je za 12,3%, broj poslanih MMS poruka veći je za 10,1% u odnosu na treći kvartal 2018. godine.

Number of SMS messages sent in the third quarter 2019 decreased by 12,3%, while the number of MMS messages sent increase by 10,1% compared to the third quarter 2018^h.

Ukupan broj internet priključaka putem fiksne mreže u trećem kvartalu 2019. godine iznosio 707.782 i bilježi rast od 2,7% u odnosu na treći kvartal 2018. godine.

The total number of Internet connections via the fixed network in the third quarter of 2019 was 707.782 an increase of 2,7% compared to the third quarter of 2018.

1.FIKSNA TELEFONSKA MREŽA

Tabela 1.1 Fiksna telefonska mreža

Table. 1. 1. Fixed telephone network

	III	III	II	III	III 2019	III 2019	
	Kvartal	Kvartal	Kvartal	Kvartal	II2019	III 2018	
	2017.	2018.	2019.		Indeksi/Indices		
Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatera	646.328	605.933	597.285	590.409	98,8	97,4	Total number of fixed telephone lines of dominant operators
Broj novih operatera fiksne telefonije	11	11	11	11	-	-	The number of new fixed telephony operator
Ukupan broj vlastitih pretplatnika novih operatera	117.910	138.163	144.196	145.267	100,7	105,1	The total number of own subscribers to new operators
Ukupan broj pretplatnika novih operatera sa indirektnim pristupom	2.116	2.121	796	195	24,5	9,2	Alternative operators - Number of Indirect Access Subscribers
Ukupan broj prenesenih brojeva	59.700	76.716	82.053	86.444	105,4	112,7	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

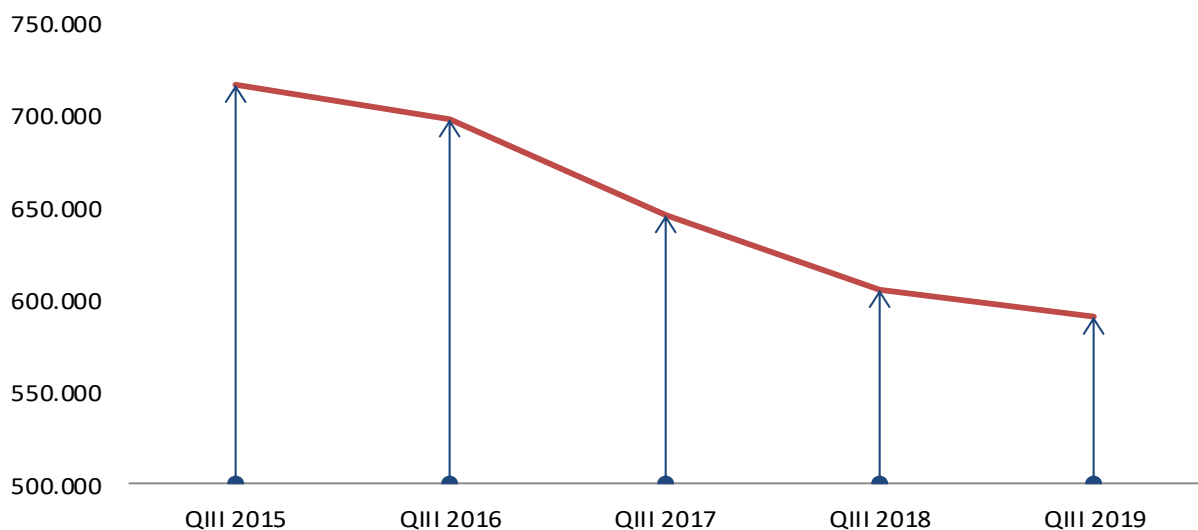


Tabela 1.2. Odlazni saobraćaj operatera fiksne telefonije , u milionama minuta.

Table 1.2 Outgoing traffic fixed - line operator, in millions of minutes

Odlazni saobraćaj operatera u milionama minuta	III kvartal/ quarter	III kvartal/ quarter	I-III kvartal/ quarter	II kvartal/ quarter	III kvartal/ quarter	I-III kvartal/ quarter	Outgoing traffic operators in millions of minutes
	2017.	2018.		2019.			
Ukupno odlazni saobraćaj operatera fiksne telefonije	506	469	1359	396	374	1183	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	496	459	1331	389	368	1162	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	10	10	28	7	6	22	Interantional outgoing fixed telephone traffic

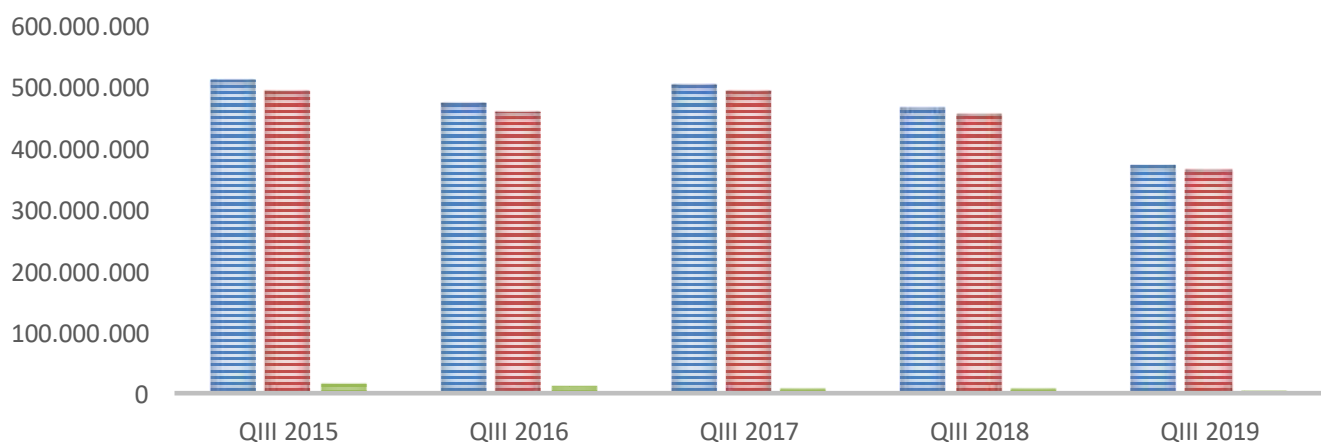
Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)
Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Indeksi po indikatorima odlaznog saobraćaja operatera fiksne telefonije	$\frac{\text{III 2019}}{\text{II 2019}}$	$\frac{\text{III 2019}}{\text{III 2018}}$	$\frac{\text{I – III 2019}}{\text{I – III 2018}}$	Indicies by indicators outgoing traffic fixed-line operator
	Ukupno odlazni saobraćaj operatera fiksne telefonije	94,4	79,8	
Ukupni domaći odlazni saobraćaj	94,6	80,2	87,3	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	85,7	68,3	78,6	Interantional outgoing fixed telephone traffic

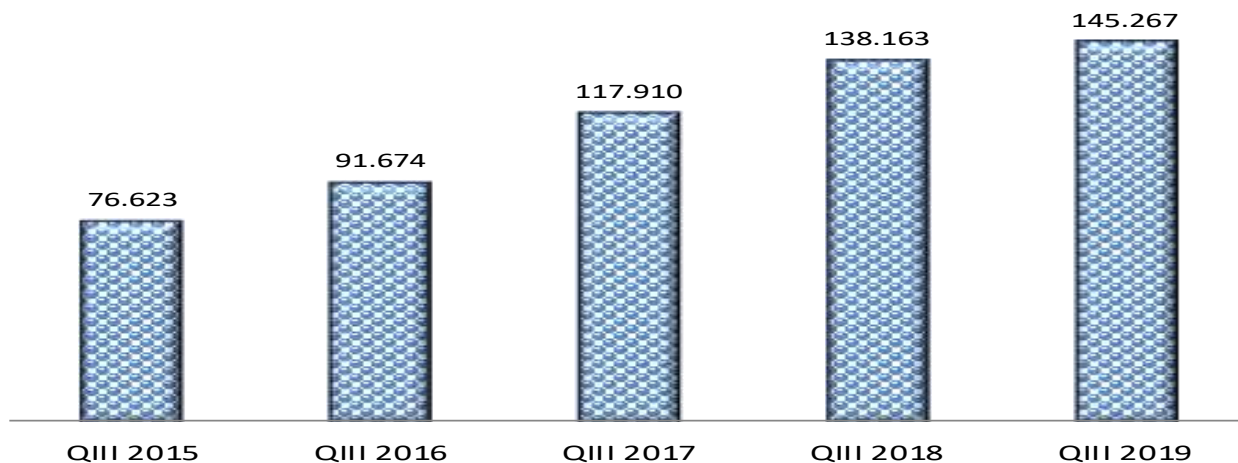
Grafikon 1.2. Saobraćaj ostvaren putem fiksne telefonske mreže

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



2. MOBILNA TELEFONSKA MREŽA

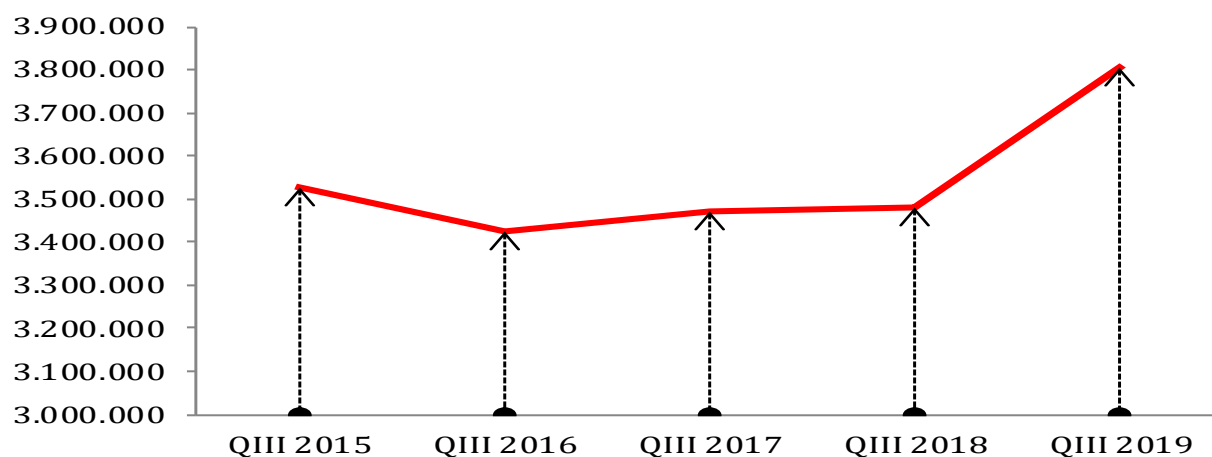
Tabela 2. Mobilna telefonska mreža
Table 2. Mobile telephone network

	III Kvartal quarter	III Kvartal quarter	II Kvartal quarter	III Kvartal quarter	III 2019 II2019	III 2019 III 2018	
	2017.	2018.	2019.		Indeksi/Indices		
Ukupan broj korisnika mobilne mreže	3.473.418	3.480.733	3.585.604	3.804.197	106,1	109,3	Total number of mobile network users
Penetracija mobilne telefonije	98,36%	98,57%	101,54%	107,73%	106,1	109,3	Penetration of mobile telephony
Ukupan broj prenesenih brojeva	46.841	59.676	66.755	73.498	104,2	123,2	The total number of transferred numbers
Ukupan odlazni saobraćaj operatora mobilne telefonije (minutama)	633.759.603	580.279.004	569.037.510	584.334.964	102,7	100,7	Total outgoing traffic of mobile operators (in minutes)
Broj poslanih SMS poruka	157.596.401	131.119.524	119.157.496	115.056.189	96,6	87,7	SMS sent
Broj poslanih MMS poruka	290.364	279.014	278.685	307.239	110,2	110,1	MMS sent

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

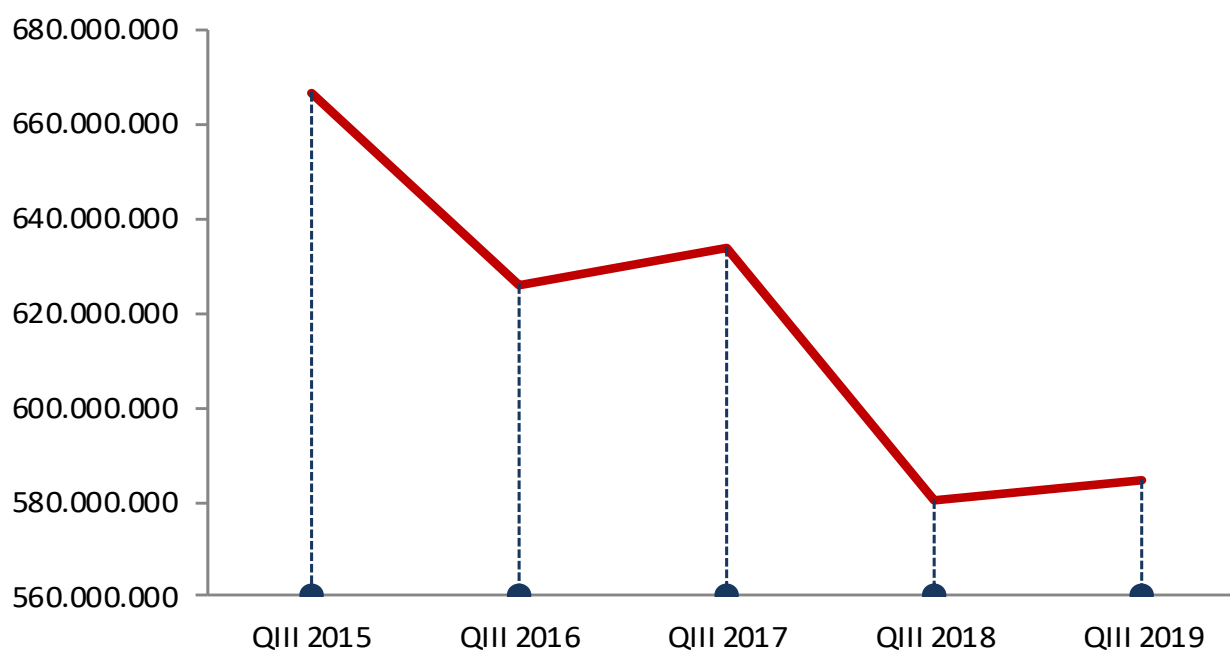
Grafikon 2.1. Broj korisnika telefonskih usluga u mobilnoj telefoniji

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



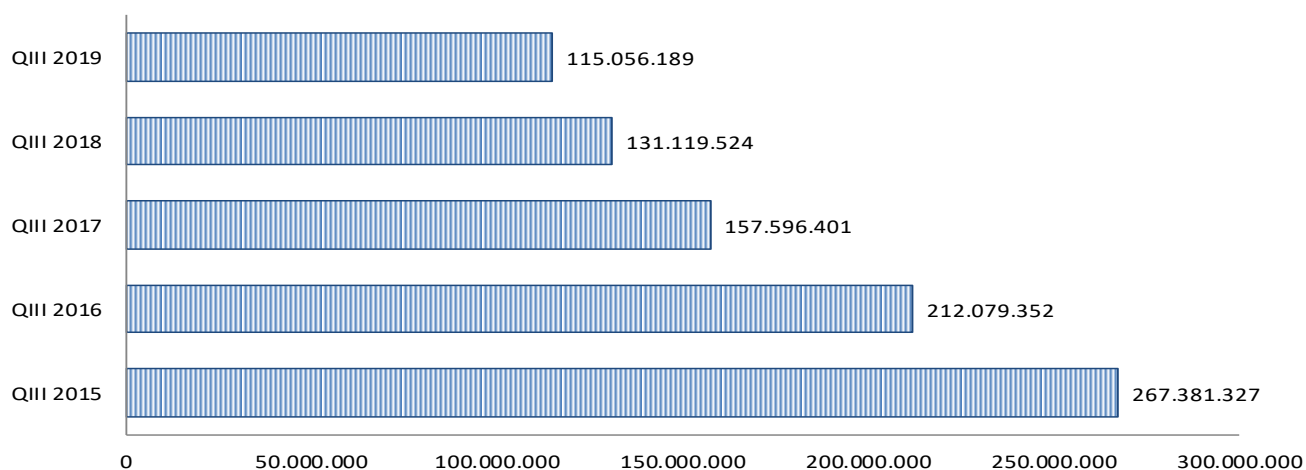
Grafikon 2.2. Odlazni saobraćaj mobilne telefonije (u minutama).

Graph.2.2 Outgoing traffic of mobile operators(in minutes).



Grafikon 2.3. Broj poslatih SMS poruka

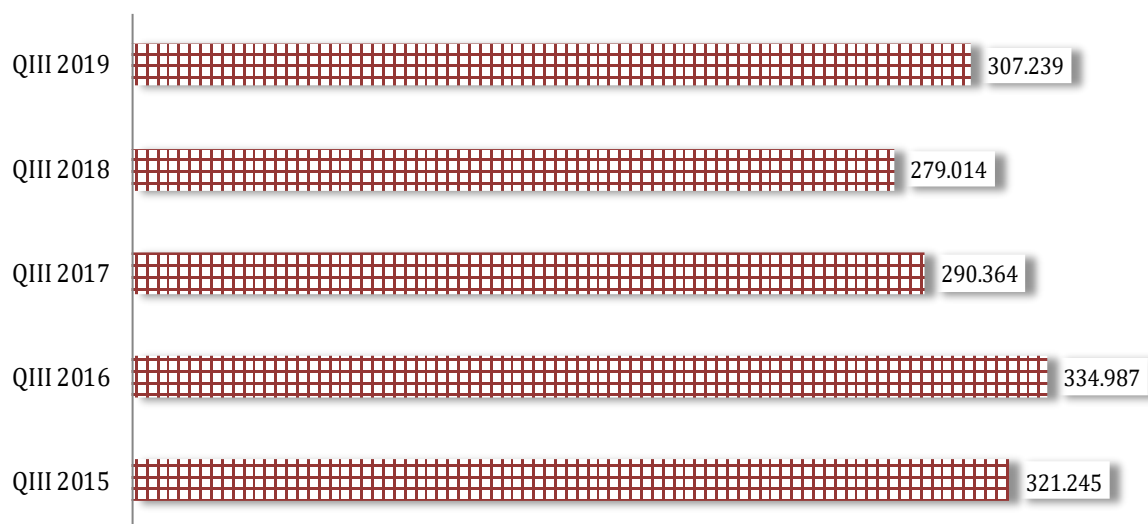
Graph.2.3. SMS sent



Grafikon 2.4. Broj poslatih MMS poruka

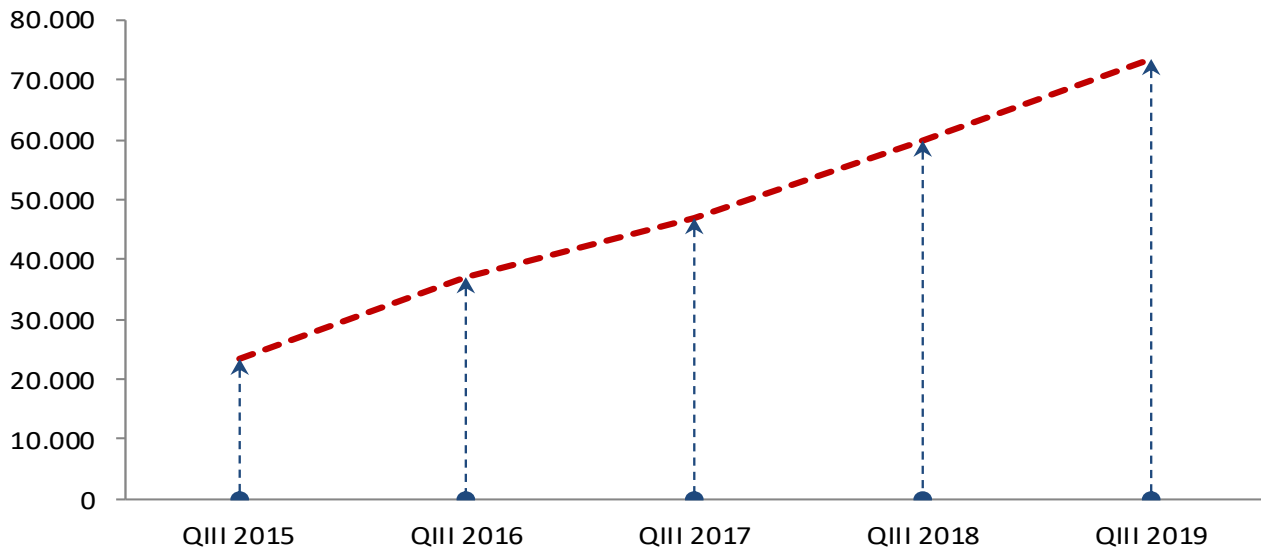
Graph.2.4. MMS sent

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

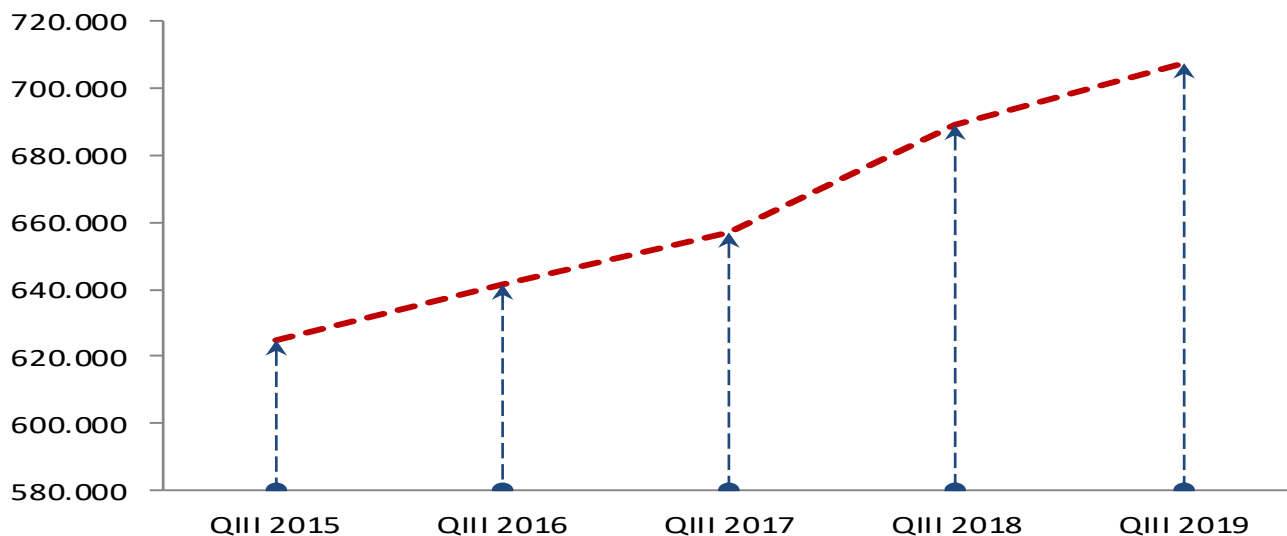
	III	III	II	III	III 2019	III 2019	
	Kvartal	Kvartal	Kvartal	Kvartal	II 2019	III 2018	
	2017.	2018.	2019.		Indeksi/Indicies		
Ukupan broj priključaka širokopoljnog pristupa internetu putem fiksne mreže	657.055	689.339	707.543	707.782	100,1	102,7	Total number of broadband subscribers
Broj xDSL priključaka	392.526	399.789	410.263	411.627	100,3	103,0	Number of subscribers using xDSL connection
Broj priključaka putem kablovske mreže	218.769	230.557	230.550	226.879	98,4	98,4	Number of subscribers by cable network
Broj priključaka fiksni bežični pristup	42.988	42.216	41.912	42.300	100,9	100,2	Number of subscribers fixed wireless connection
Broj priključaka putem iznajmljene linije	1.168	1.059	911	973	106,8	91,9	Number of subscribers via leased lines
Broj priključaka FTTx	1.190	15.611	23.769	25.866	108,8	165,7	Number of subscribers via FTTx connection
Broj priključaka putem ostalih tehnologija	414	167	138	137	99,3	82,0	Number of subscribers using other technologies
Stopa penetracije korisnika interneta putem fiksne mreže	75,5%	86,0%	87,5%	87,3%	99,7	101,5	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)

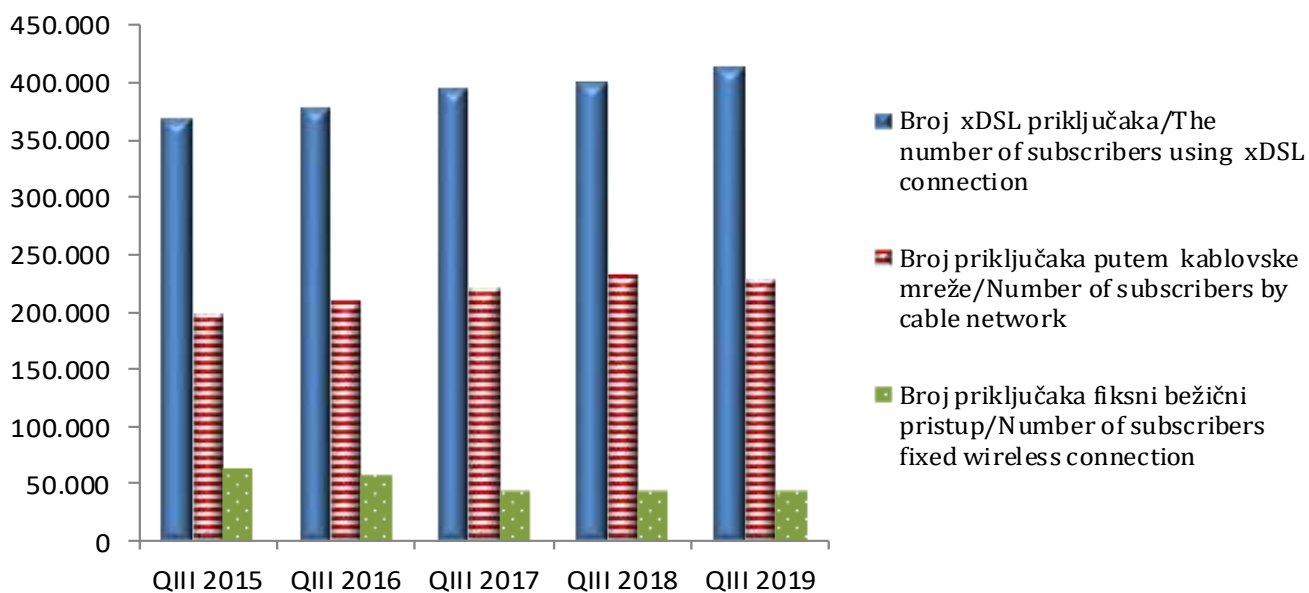
Grafikon 3.1 Ukupan broj priključaka širokopojasnog pristupa internetu putem fiksne mreže

Graph 3.1 Total number of broadband access connections via the fixed network



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.

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.

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).

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).

Izdaje i štampa Agencija za statistiku Bosne i Hercegovine, 71000 Sarajevo, Zelenih beretki 26
Published and printed by the Agency for Statistics of the Bosnia and Herzegovina, 71000 Sarajevo, Zelenih beretki 26

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