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ELEKTRONSKE KOMUNIKACIJE, četvrti kvartal 2019. ELECTRONIC COMMUNICATIONS, *fourth* quarter 2019.

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatora u četvrtom kvartalu 2019. godine iznosio je 582.868, što predstavlja pad od 2,8% u odnosu na četvrti kvartal 2018. godine.

Total number of fixed telephone lines of dominant operators in the fourth quarter 2019 was 582.868 which represents a decrease of 5,3% compared to the fourth quarter 2018th.

Ukupni odlazni saobraćaj fiksne telefonske mreže u četvrtom kvartalu 2019. godine iznosio je 378.221.572 minuta, što pokazuje pad od 11,4% u odnosu na četvrti kvartal 2018. godine.

The total traffic of fixed telephone network in fourth quarter 2019 was je 378.221.572 minutes which shows a decrease of 11,4% compared to fourth quarter 2018th.

Broj korisnika mobilne mreže u četvrtom kvartalu 2019. godine iznosio 3.755.521 i bilježi rast od 8,5% u odnosu na četvrti kvartal 2018. godine. Ukupni odlazni saobraćaj mobilne mreže u četvrtom kvartalu 2019. godine iznosio je 565.539.438 minuta, što pokazuje rast od 0,8% u odnosu na četvrti kvartal 2017. godine.

Number of mobile phone users in the fourth quarter 2019 was 3.755.521 which shows an increase of 8,5% compared to the fourth quarter 2018th year. The total traffic of mobile telephone network in the fourth quarter 2019 was 565.539.438 minutes which shows an increase of 0,8% compared to the fourth quarter 2018th year.

Broj poslanih SMS poruka u četvrtom kvartalu 2019. godine manji je za 12,5%, dok je broj poslanih MMS poruka veći za 13,4% u odnosu na četvrti kvartal 2018. godine.

Number of SMS messages sent in the fourth quarter 2019 decreased by 12,5%, while the number of MMS messages sent increase by 13,4% compared to the fourth quarter 2018th.

Ukupan broj internet priključaka putem fiksne mreže u četvrtom kvartalu 2019. godine iznosio 745.887 i bilježi rast od 5,4% u odnosu na četvrti kvartal 2018. godine

The total number of Internet connections via the fixed network in the fourth quarter of 2019 was 745.887 an increase of 5,4% compared to the fourth quarter of 2018.

1.FIKSNA TELEFONSKA MREŽA

Tabela 1.1 Fiksna telefonska mreža

Table. 1. 1. Fixed telephone network

	III kvartal quarter	IV kvartalq uarter	III kvartal quarter	IV kvartal quarter	IV 2019 III 2019	IV2019 IV2018	
	2018.		2019.		Indeksi/Indicies		
Ukupan broj aktivnih fiksnih telefonskih linija incumbent ¹ operatera	605.933	599.642	590.409	582.868	98,7	97,2	Total number of fixed telephone lines of incumbenm ¹ operators
Broj novih operatera fiksne telefonije	11	9	11	11	-	122,2	The number of new fixed telephony operator
Ukupan broj vlastitih pretplatnika novih operatera	138.163	140.033	145.267	144.593	99,5	103,3	The total number of own subscribers to new operators
Ukupan broj pretplatnika alternativnih operatera sa indirektnim pristupom	2.121	1.752	195	190	97,4	10,8	Alternative operators - Number of Indirect Access Subscribers
Ukupan broj prenesenih brojeva	76.716	78.745	86.444	88.321	102,1	112,2	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 dominantnih operatera

Graph 1.1 Fixed telephone network- Total number of fixed telephone lines of dominant operators

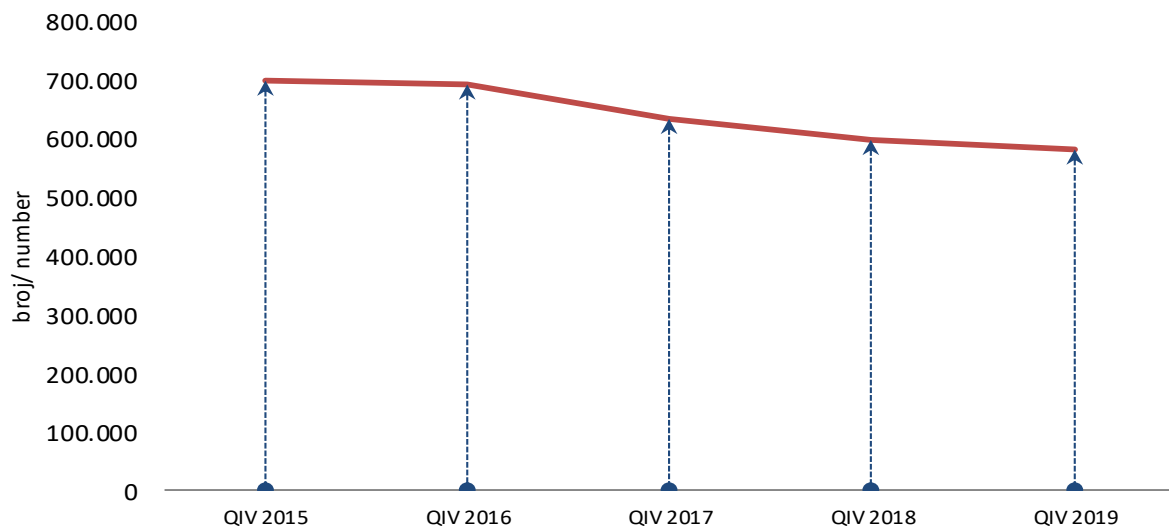


Tabela 1.2. Odlazni saobraćaj operatera fiksne telefonije

Table 1.2 Outgoing traffic fixed - line operator

Odlazni saobraćaj operatera u milionama minuta	III kvartal/ quarter	IV kvartal/ quarter	I-IV kvartal/ quarter	III kvartal/ quarter	IV kvartal/ quarter	I-IV kvartal/ quarter	Outgoing traffic operators in millions of minutes
	2018.			2019.			
Ukupno odlazni saobraćaj operatera fiksne telefonije	469	427	1786	374	378	1561	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	459	419	1750	368	372	1534	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	10	8	36	6	6	28	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	$\frac{IV\ 2019}{III\ 2019}$	$\frac{IV\ 2019}{IV\ 2018}$	$\frac{I - IV\ 2019}{I - IV\ 2018}$	Indicies by indicators outgoing traffic fixed-line operator
	Ukupno odlazni saobraćaj operatera fiksne telefonije	101,1	89,6	
Ukupni domaći odlazni saobraćaj	101,2	89,8	87,7	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	95,6	77,9	80,6	Interantional outgoing fixed telephone traffic

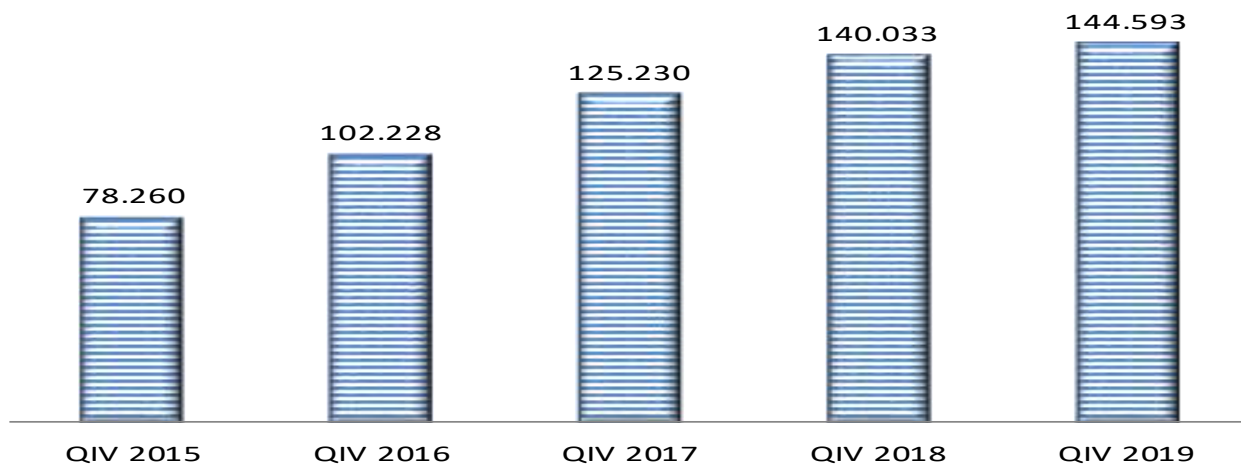
Grafikon 1.2. Saobraćaj ostvaren putem fiksne telefonske mreže

Graph 1.2 Traffic accomplished via fixed telephone network

- Ukupni odlazni saobraćaj operatera fiksne telefonije (u minutama) / Outgoing total traffic fixed networks operators (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

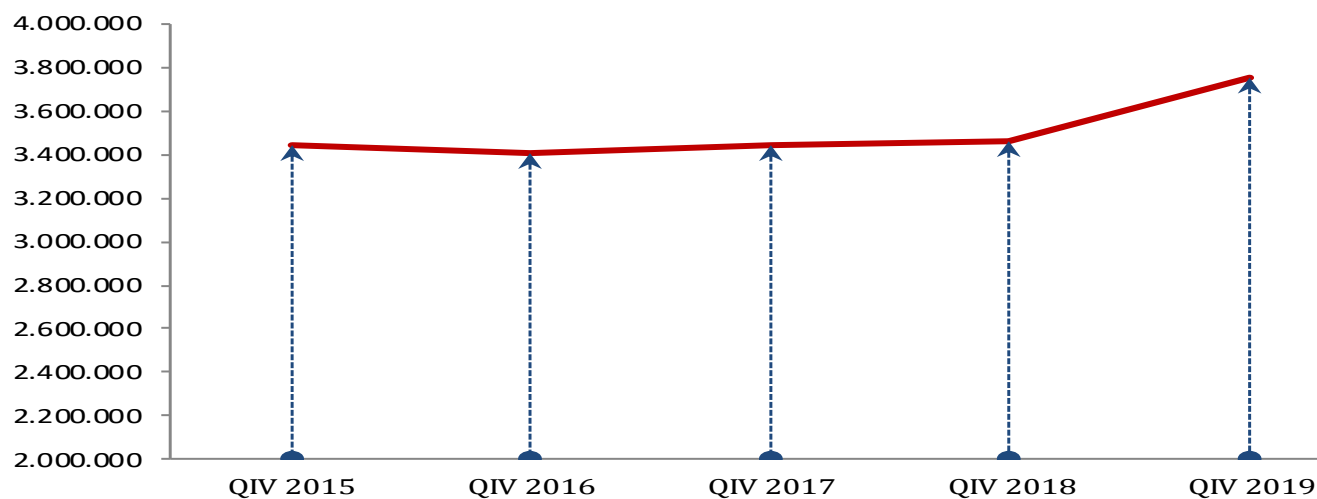
Tabela 2. Mobilna telefonska mreža
 Table 2. Mobile telephone network

	III kvartal quarter	IV kvartal quarter	III kvartal quarter	IV kvartal quarter	IV 2019 III 2019	IV 2019 IV 2018	
	2018.		2019.		Indeksi/Indices		
Ukupan broj korisnika mobilne mreže	3.480.733	3.461.058	3.804.197	3.755.521	98,7	108,5	Total number of mobile network users
Penetracija mobilne telefonije	98,57%	98,01%	107,73%	106,35%	98,7	108,5	Penetration of mobile telephony
Ukupan broj prenesenih brojeva	59.676	62.925	73.498	77.640	105,6	123,4	The total number of transferred numbers
Ukupan odlazni saobraćaj operatora mobilne telefonije (minutama)	580.279.004	561.093.626	584.334.964	565.539.438	96,8	100,8	Total outgoing traffic of mobile operators (in minutes)
Broj poslatih SMS poruka	131.119.524	123.258.377	115.056.189	107.878.666	93,7	87,5	SMS sent
Broj poslatih MMS poruka	279.014	247.803	307.239	280.981	91,5	113,4	MMS sent

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

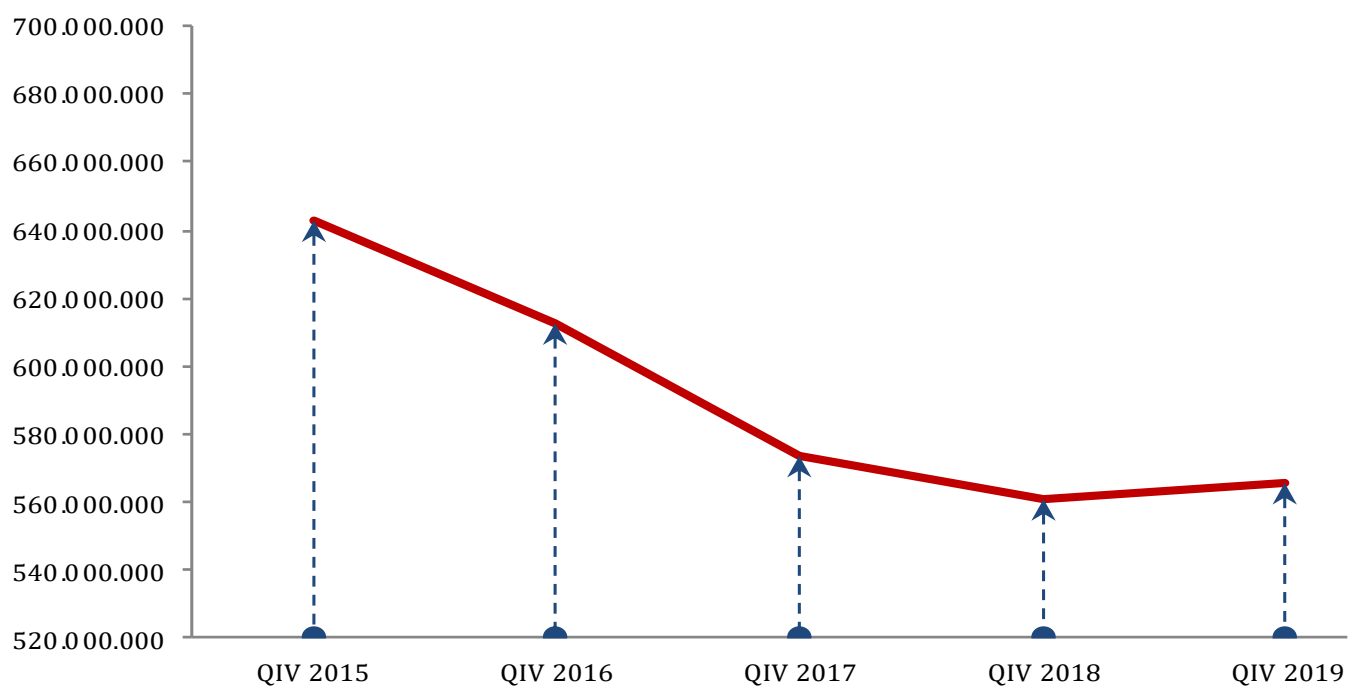
Grafikon 2.1. Broj korisnika telefonskih usluga u mobilnoj telefoniji

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



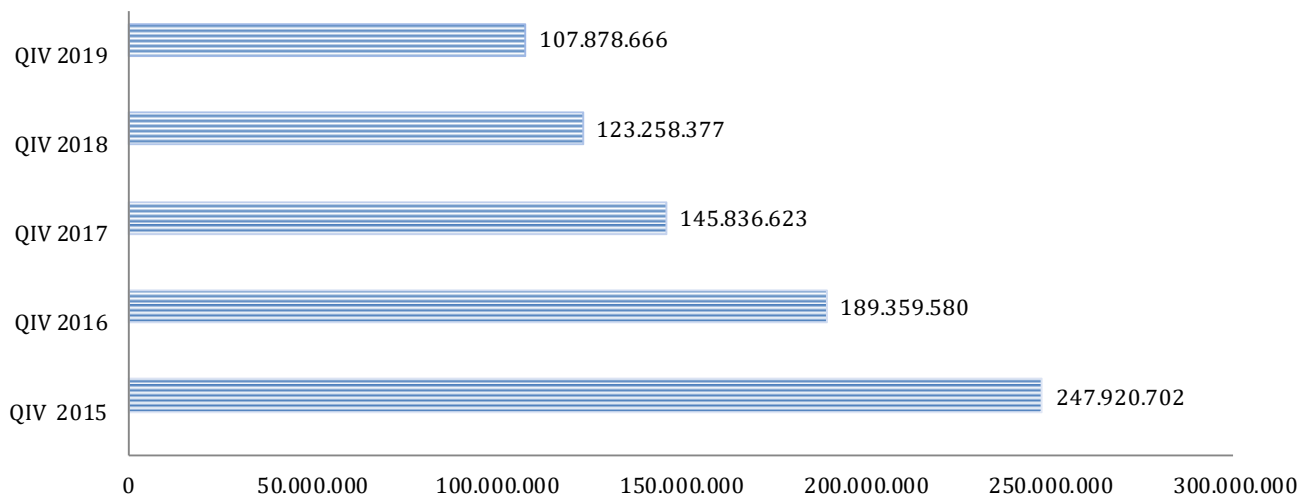
Grafikon 2.2. Odlazni saobraćaj mobilne telefonije (u minutama)

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



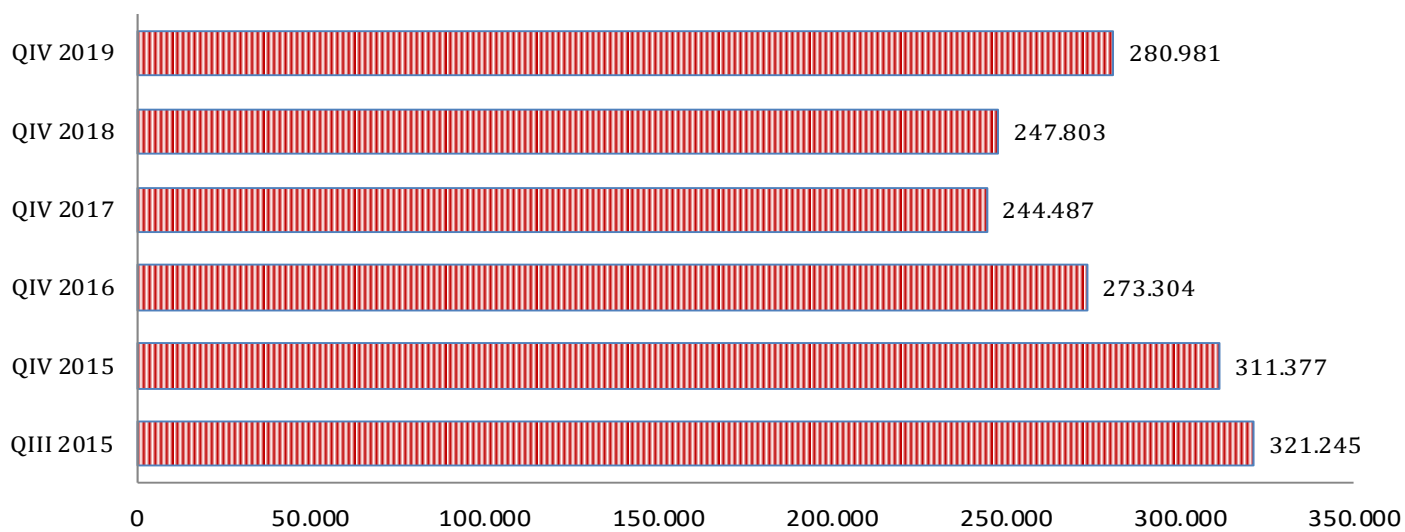
Grafikon 2.3. Broj poslatih SMS poruka

Graph.2.3. SMS sent



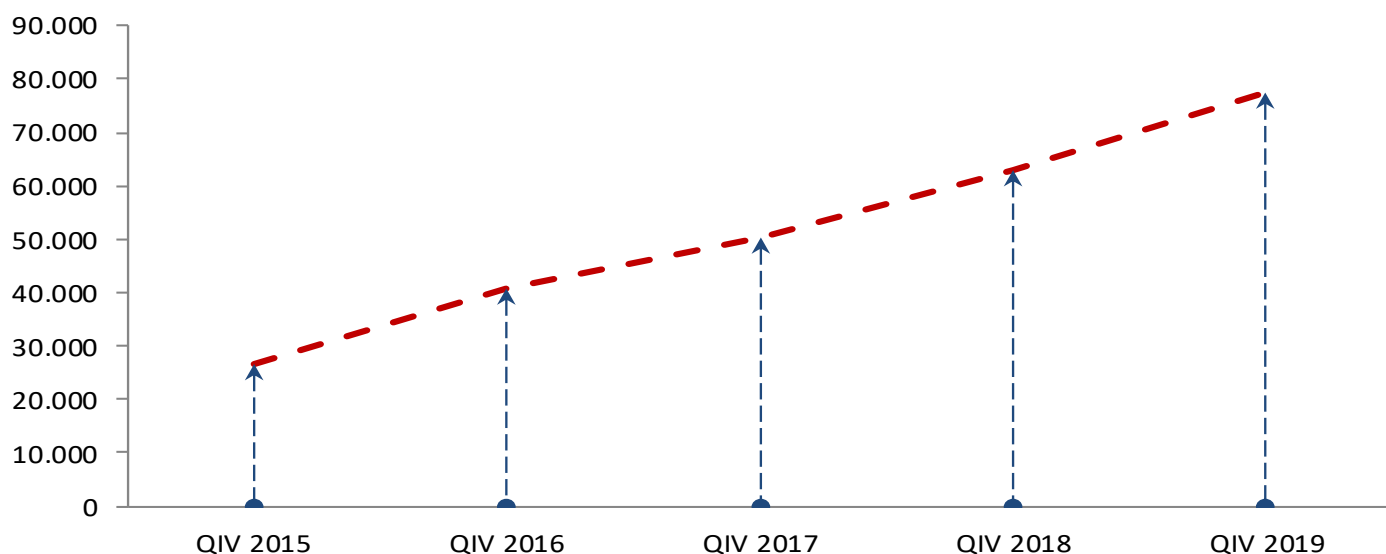
Grafikon 2.4. Broj poslatih MMS poruka

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

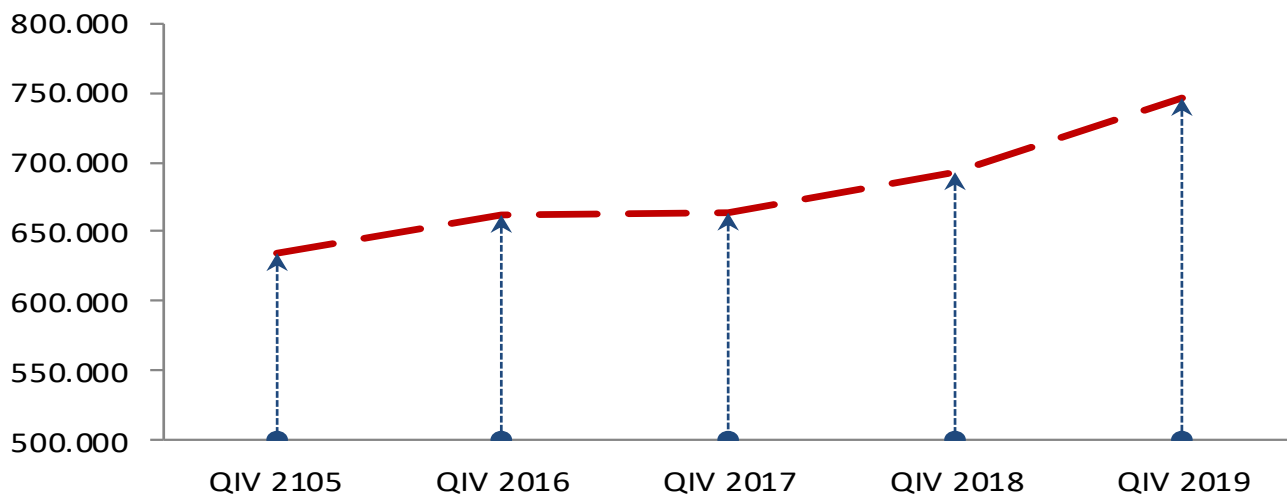
	III kvartal	IV kvartal	III kvartal	IV kvartal	IV 2019	IV 2019	
	quarter	quarter	quarter	quarter	III 2019	IV 2018	
	2018.		2019.		Indeksi/Indicies		
Ukupan broj priključaka širokopolasnog pristupa internetu putem fiksne mreže	689.339	693.554	707.782	745.887	105,4	107,5	Total number of broadband subscribers
Broj xDSL priključaka	399.789	404.795	411.627	413.902	100,6	102,2	Number of subscribers using xDSL connection
Broj priključaka putem kablovske mreže	230.557	230.028	226.879	239.551	105,6	104,1	Number of subscribers by cable network
Broj priključaka fiksni bežični pristup	42.216	40.719	42.300	60.936	144,1	149,7	Number of subscribers fixed wireless connection
Broj priključaka putem iznajmljene linije	1.059	1.036	973	980	100,7	94,6	Number of subscribers via leased lines
Broj priključaka FTTx	15.611	16.691	25.866	30.231	116,9	181,1	Number of subscribers via FTTx connection
Broj priključaka putem ostalih tehnologija	167	285	137	287	209,5	100,7	Number of subscribers using other technologies
Stopa penetracije korisnika interneta putem fiksne mreže	86,00%	86,50%	87,30%	94,32%	108,1	109,0	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

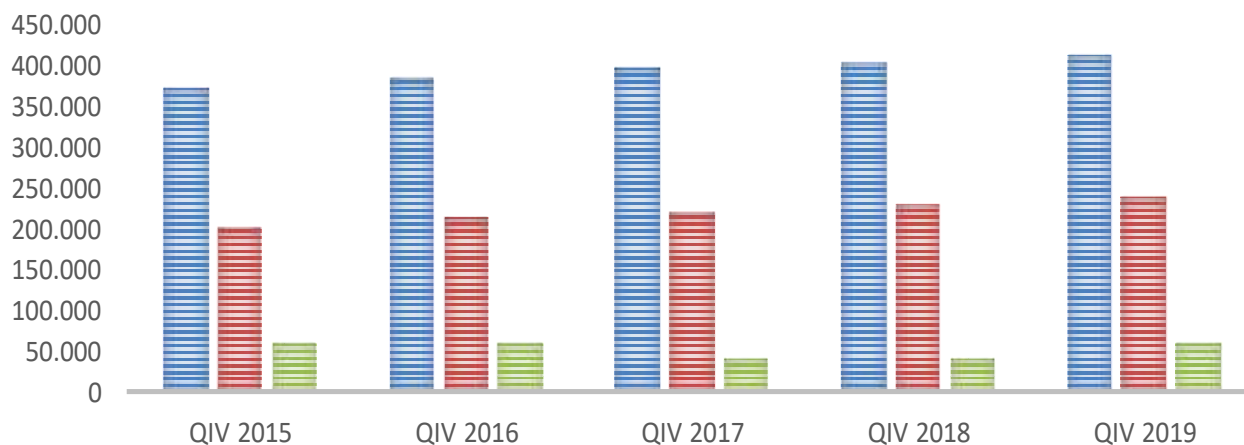
Graph 3.1 The total number of broadband subscribers



Grafikon 3.2. Tip priključaka pristupa internetu putem fiksne mreže

Graph 3.2. Type connectors of Internet access connections via the fixed network

- Broj xDSL priključaka/The number of subscribers using xDSL connection
- Broj priključaka putem kablovske mreže/Number of subscribers by cable network
- Broj priključaka fiksni bežični pristup/Number of subscribers fixed wireless connection



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).

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