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INFORMATION SOCIETY

ELEKTRONSKE KOMUNIKACIJE, četvrti kvartal 2018.

ELECTRONIC COMMUNICATIONS, fourth quarter 2018.

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatora u četvrtom kvartalu 2018. godine iznosio je 599.642, što predstavlja pad od 5,3% u odnosu na četvrti kvartal 2017. godine.

Total number of fixed telephone lines of dominant operators in the fourth quarter 2018 was 599.642 which represents a decrease of 5,3% compared to the fourth quarter 2017th.

Ukupni odlazni saobraćaj fiksne telefonske mreže u četvrtom kvartalu 2018. godine iznosio je 426.990.705 minuta, što pokazuje pad od 9,1% u odnosu na četvrti kvartal 2017. godine.

The total traffic of fixed telephone network in fourth quarter 2018 was 426.990.705 minutes which shows a decrease of 9,1% compared to fourth quarter 2017th.

Broj korisnika mobilne mreže u četvrtom kvartalu 2018. godine iznosio 3.461.058 i bilježi rast od 0,6% u odnosu na četvrti kvartal 2017. godine. Ukupni odlazni saobraćaj mobilne mreže u četvrtom kvartalu 2018. godine iznosio je 561.093.626 minuta, što pokazuje pad od 2,2% u odnosu na četvrti kvartal 2017. godine.

Number of mobile phone users in the fourth quarter 2018 was 3.461.058 which shows an increase of 0,6% compared to the fourth quarter 2017th year. The total traffic of mobile telephone network in the fourth quarter 2018 was 561.093.626 minutes which shows an decrease of 2,2% compared to the fourth quarter 2017th year.

Broj poslanih SMS poruka u četvrtom kvartalu 2018. godine manji je za 15,5%, dok je broj poslanih MMS poruka veći za 1,4% u odnosu na četvrti kvartal 2017. godine.

Number of SMS messages sent in the fourth quarter 2018 decreased by 15,5%, while the number of MMS messages sent increase by 1,4% compared to the fourth quarter 2017th.

Ukupan broj internet priključaka putem fiksne mreže u četvrtom kvartalu 2018. godine iznosio 693.554 i bilježi rast od 0,6% u odnosu na četvrti kvartal 2017. godine

The total number of Internet connections via the fixed network in the fourth quarter of 2018 was 693.554 an increase of 0,6% compared to the fourth quarter of 2017.

1.FIKSNA TELEFONSKA MREŽA

Tabela 1.1 Fiksna telefonska mreža

Table. 1. 1. Fixed telephone network

	III Kvartal quarter	IV Kvartal quarter	III Kvartal quarter	IV Kvartal quarter	IV 2018 III 2018	IV2018 IV2017	
	2017.		2018.		Indeksi/Indicies		
Ukupan broj aktivnih fiksnih telefonskih linija incumbent ¹ operatera	646.328	632.914	605.933	599.642	99,0	94,7	Total number of fixed telephone lines of incumbenm ¹ operators
Broj novih operatera fiksne telefonije	11	11	11	9	-	-	The number of new fixed telephony operator
Ukupan broj vlastitih pretplatnika novih operatera	117.910	125.230	138.163	140.033	101,4	111,8	The total number of own subscribers to new operators
Ukupan broj pretplatnika alternativnih operatera sa indirektnim pristupom	2.116	2.121	2.121	1.752	82,6	82,6	Alternative operators - Number of Indirect Access Subscribers
Ukupan broj prenesenih brojeva	59.700	65.957	76.716	78.745	102,6	119,4	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 dominantnih operatera

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

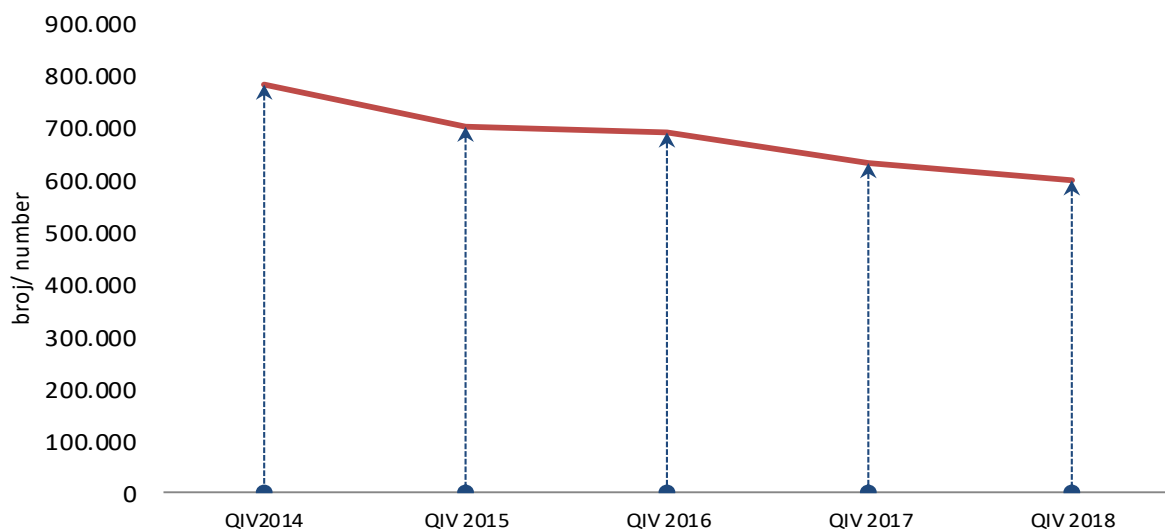


Tabela 1.2. Odlazni saobraćaj operatera fiksne telefonije*Table 1.2 Outgoing traffic fixed - line operator*

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
	2017.			2018.			
Ukupno odlazni saobraćaj operatera fiksne telefonije	506	470	1913	469	427	1786	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	496	460	1869	459	419	1750	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	10	10	45	10	8	36	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)

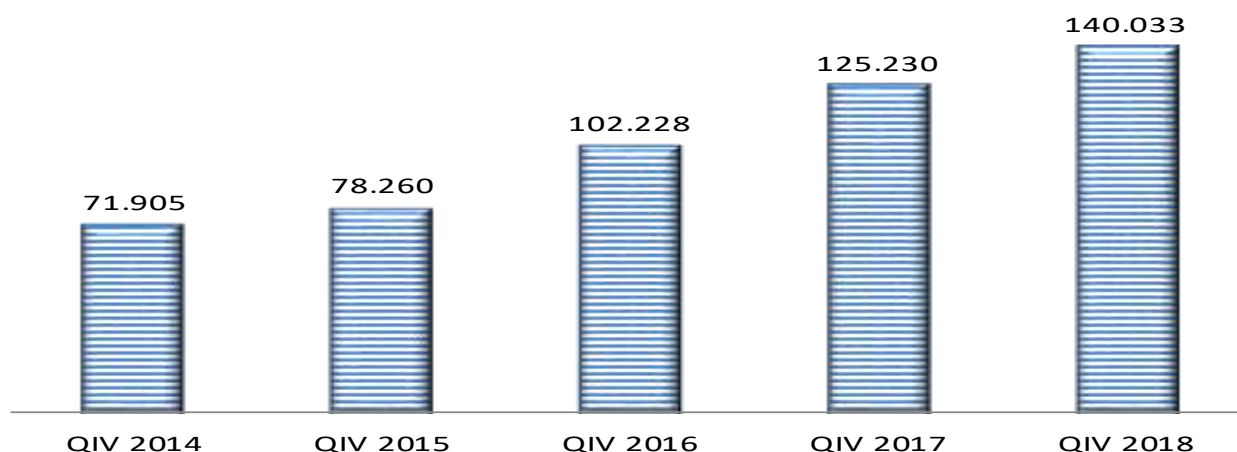
Indeksi po indikatorima odlaznog saobraćaja operatera fiksne telefonije	$\frac{IV\ 2018}{III\ 2018}$	$\frac{IV\ 2018}{IV\ 2017}$	$\frac{I - IV2018}{I - IV\ 2017}$	Indicies by indicators outgoing traffic fixed-line operator
Ukupno odlazni saobraćaj operatera fiksne telefonije	91,1	90,9	93,4	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	91,2	91,0	93,6	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	83,8	82,9	80,0	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

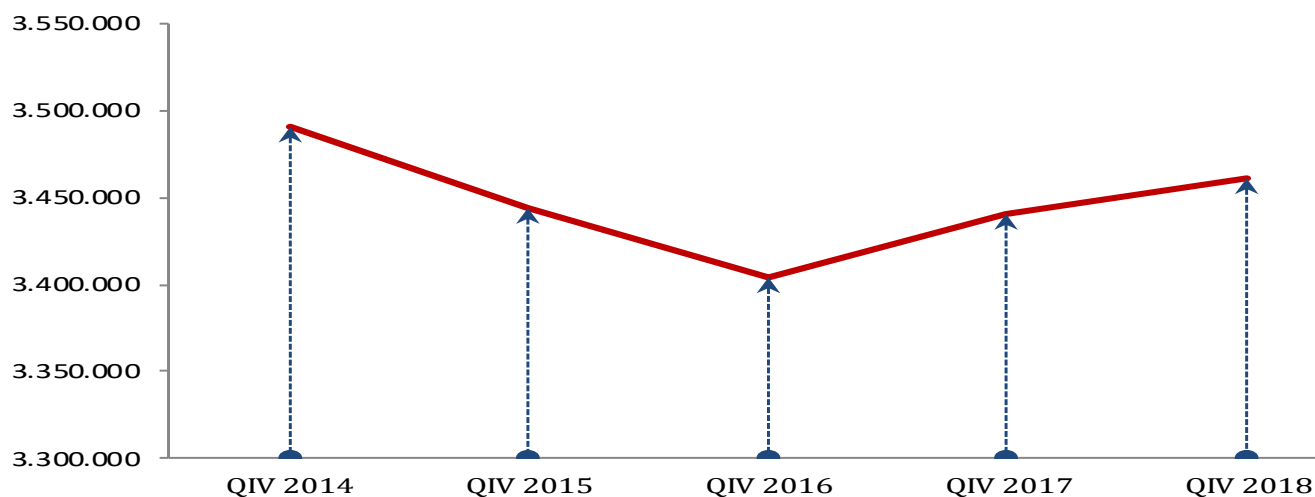
Tabela 2. Mobilna telefonska mreža
Table 2. Mobile telephone network

	III Kvartal quarter	IV Kvartal quarter	III Kvartal quarter	IV Kvartal quarter	IV 2018 III 2018	IV 2018 IV 2017	
	2017.		2018.		Indeksi/Indices		
Ukupan broj korisnika mobilne mreže	3.473.418	3.440.085	3.480.733	3.461.058	99,4	99,4	Total number of mobile network users
Penetracija mobilne telefonije	98,36%	97,42%	98,57%	98,01%	99,4	100,7	Penetration of mobile telephony
Ukupan broj prenesenih brojeva	46.841	50.257	59.676	62.925	105,4	125,2	The total number of transferred numbers
Ukupan odlazni saobraćaj operatora mobilne telefonije (minutama)	633.759.603	573.893.927	580.279.004	561.093.626	96,7	97,8	Total outgoing traffic of mobile operators (in minutes)
Broj poslatih SMS poruka	157.596.401	145.836.623	131.119.524	123.258.377	94,0	84,5	SMS sent
Broj poslatih MMS poruka	290.364	244.487	279.014	247.803	88,8	101,4	MMS sent

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

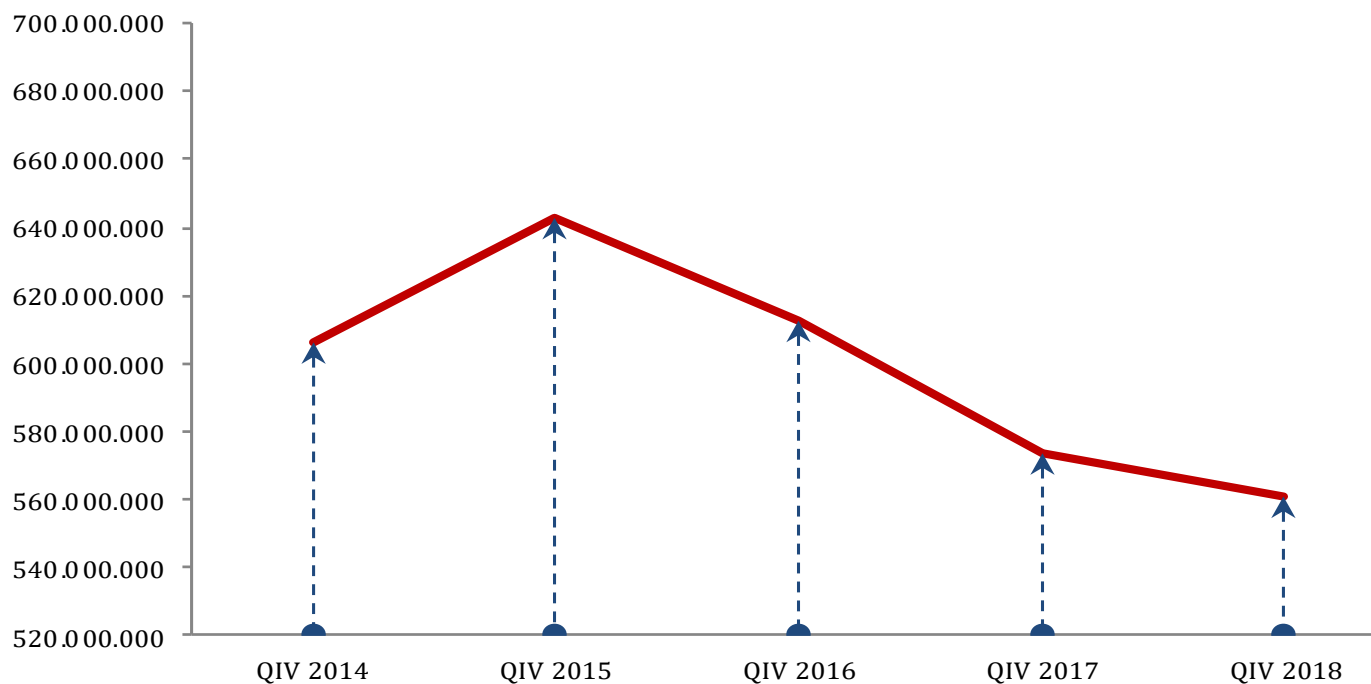
Grafikon 2.1. Broj korisnika telefonskih usluga u mobilnoj telefoniji

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



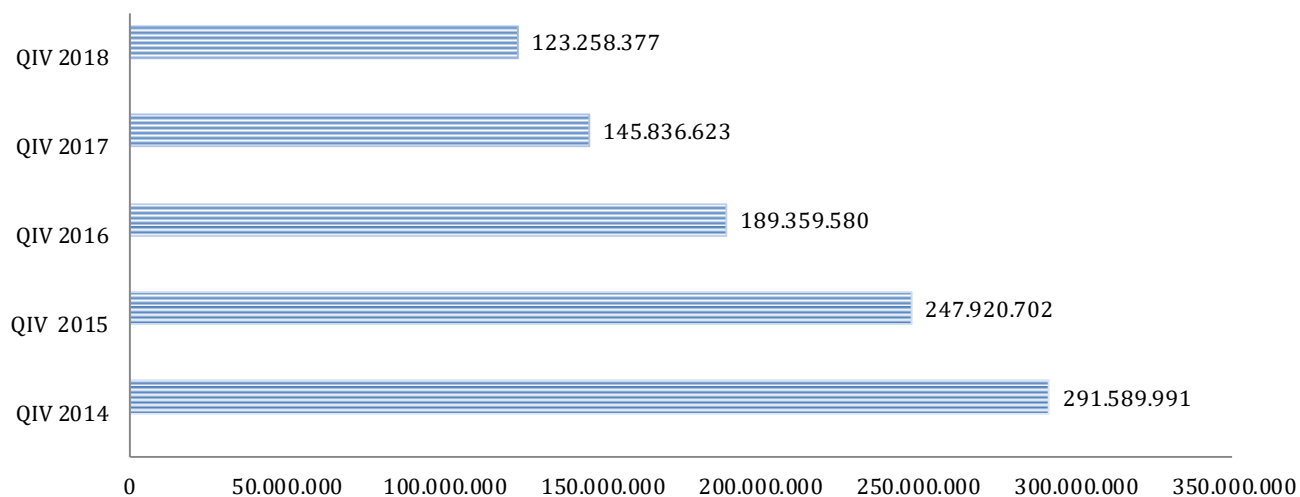
Grafikon 2.2. Odlazni saobraćaj mobilne telefonije (u minutama).

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



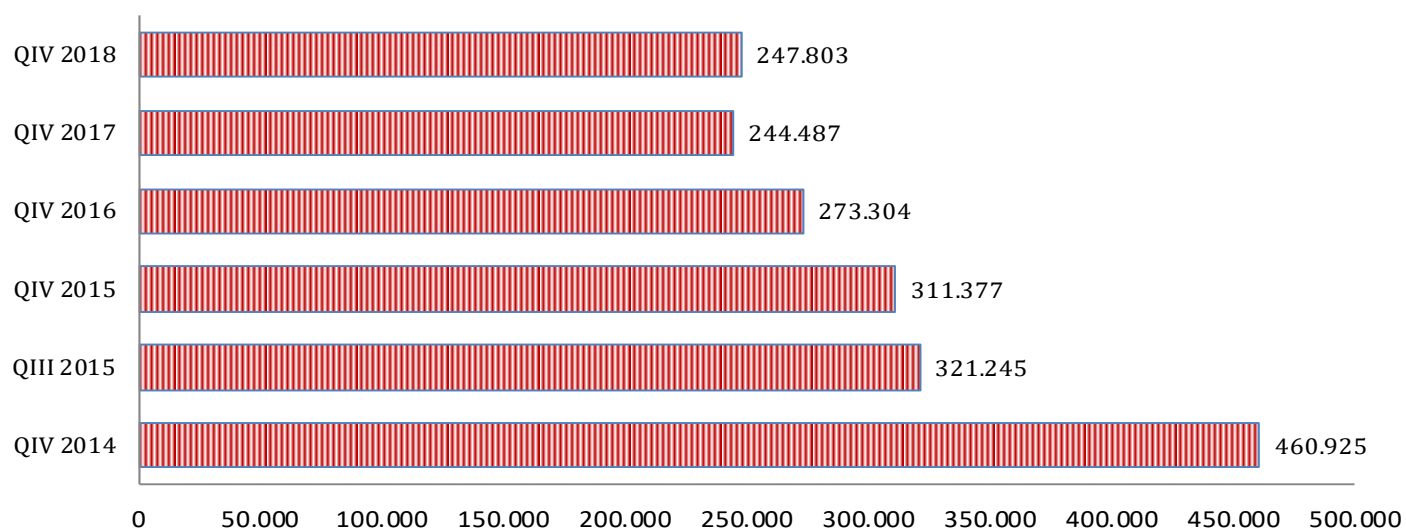
Grafikon 2.3. Broj poslatih SMS poruka

Graph.2.3. SMS sent

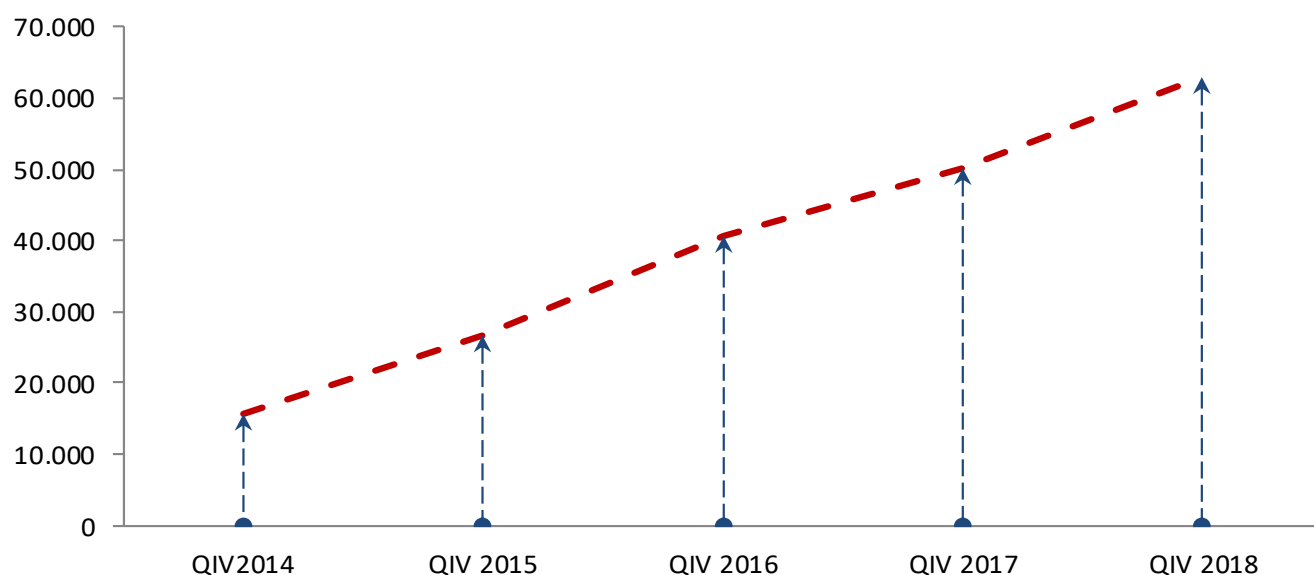


Grafikon 2.4. Broj poslatih MMS poruka

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

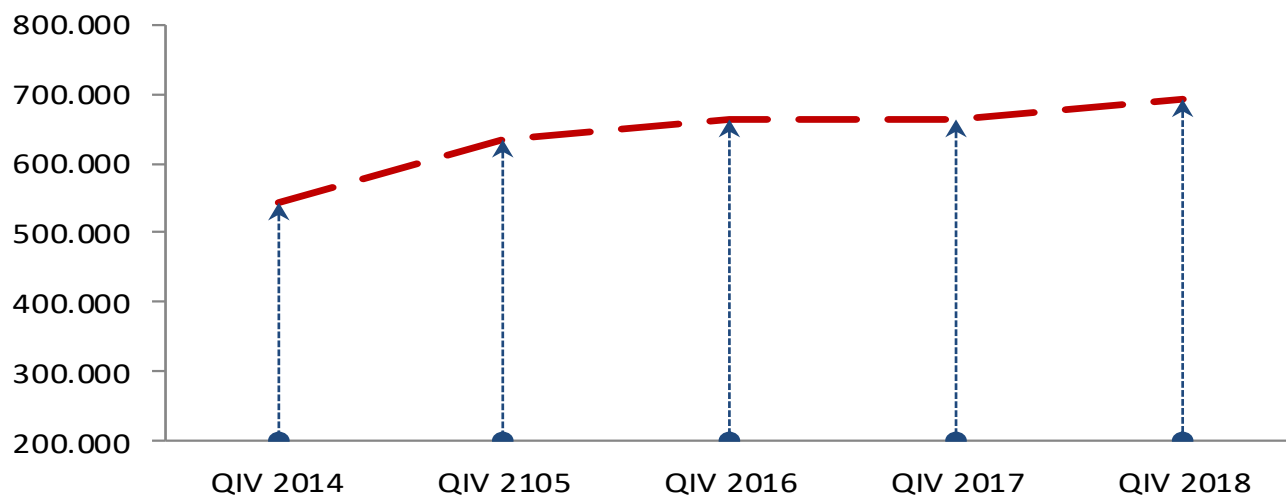
	III Kvartal quarter	IV Kvartal quarter	III Kvartal quarter	IV Kvartal quarter	IV 2018 III 2018	IV 2018 IV 2017	
	2017.		2018.		Indeksi/Indices		
Ukupan broj priključaka širokopojsnog pristupa internetu putem fiksne mreže	657.055	663.682	689.339	693.554	100,6	104,5	Total number of broadband subscribers
Broj xDSL priključaka	392.526	398.110	399.789	404.795	101,3	101,7	Number of subscribers using xDSL connection
Broj priključaka putem kablovske mreže	218.769	221.251	230.557	230.028	99,8	104,0	Number of subscribers by cable network
Broj priključaka fiksni bežični pristup	42.988	40.886	42.216	40.719	96,6	99,6	Number of subscribers fixed wireless connection
Broj priključaka putem iznajmljene linije	1.168	1.142	1.059	1.036	97,8	90,7	Number of subscribers via leased lines
Broj priključaka FTTx	1.190	1.939	15.611	16.691	106,9	860,8	Number of subscribers via FTTx connection
Broj priključaka putem ostalih tehnologija	414	354	167	285	170,7	80,5	Number of subscribers using other technologies
Stopa penetracije korisnika interneta putem fiksne mreže	75,52% ¹	85,25%	86,00%	86,50%	100,6	-	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)

¹ Manja stopa penetracije u ovom kvartalu je posljedica manjeg broja operatera koji su dostavili podatke RAK-u
 A smaller penetration rate in this quarter is a consequence of the smaller number of operators who supplied data to CRA

Grafikon 3.1 Ukupan broj priključaka pristupa internetu putem fiksne mreže

Graph 3.1 The total number of broadband subscribers



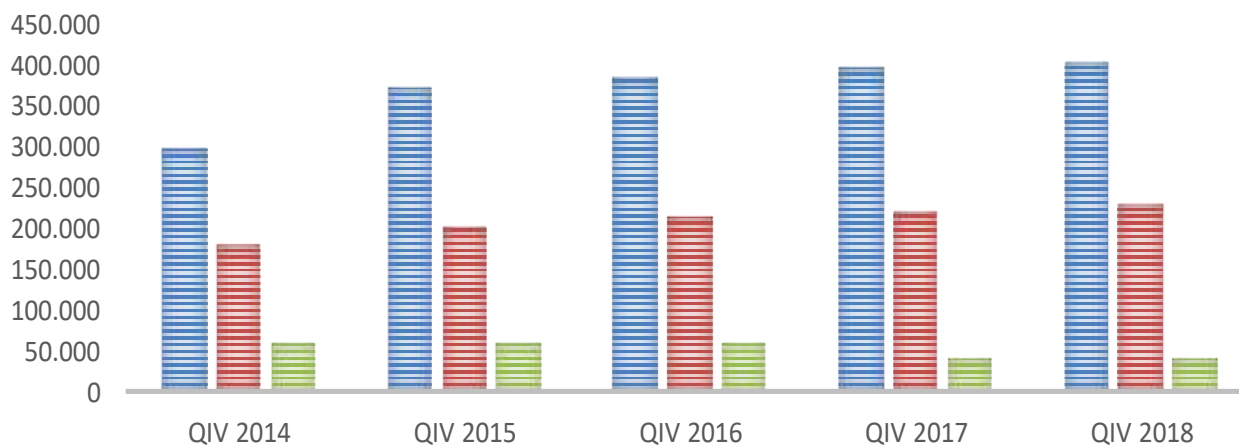
Grafikon 3.2. Tip priključaka pristupa internetu putem fiksne mreže

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 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.

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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