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GODINA/ YEAR IV

SARAJEVO, 28.02. 2019.

BROJ/ NUMBER 2

INFORMACIONO DRUŠTVO

INFORMATION SOCIETY

ELEKTRONSKE KOMUNIKACIJE, drugi kvartal 2018. *ELECTRONIC COMMUNICATIONS, the second quarter 2018.*

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatora u drugom kvartalu 2018. godine iznosio je 613.822 što predstavlja pad od 9,4 % u odnosu na drugi kvartal 2017. godine.

Total number of fixed telephone lines of dominant operators in the second quarter 2018 was 613.822 represents a decrease of 9,4% compared to the second quarter 2017th.

Ukupni odlazni saobraćaj fiksne telefonske mreže u drugom kvartalu 2018. godine iznosio je 427.000.629 minuta, što pokazuje pad od 6,2% u odnosu na drugi kvartal 2017. godine.

The total traffic of fixed telephone network in the second quarter 2017 was 427.000.629 minutes which shows a decrease of 6,2% compared the second quarter 2017th.

Broj korisnika telefonskih usluga mobilne mreže u drugom kvartalu 2018. godine iznosio je 3.300.634 što pokazuje pad od 0,5 % u odnosu na drugi kvartal 2017. godine. Ukupni odlazni saobraćaj mobilne mreže u drugom kvartalu 2018. godine iznosio je 570.271.219 minuta, što predstavlja pad od 4,1 % u odnosu na drugi kvartal 2017. godine.

Number of mobile phone users in the second quarter 2018 was 3.300.634 which shows a decrease of 0,5% compared to the second quarter 2017th year. The total traffic of mobile telephone network in the second quarter 2018 was 570.271.219 minutes which represents a decrease of 4,1% compared to the second quarter 2017th year.

Broj poslanih SMS poruka u drugom kvartalu 2018. godine manji je za 17,7%, dok je broj poslanih MMS poruka manji za 23,4% u odnosu na drugi kvartal 2017. godine.

Number of SMS messages sent in the second quarter 2018 decreased by 17,7%, while the number of MMS messages sent decreased by 23,4% compared to the second quarter 2017th.

Ukupan broj internet priključaka putem fiksne mreže u drugom kvartalu 2018. godine iznosio je 686.546 i bilježi rast od 2,3% u odnosu na drugi kvartal 2017. godine

The total number of Internet connections via the fixed network in the second quarter of 2018 was 686.546 an increase of 2,3% compared the second quarter of 2017.

1.FIKSNA TELEFONSKA MREŽA

Tabela 1.1 Fiksna telefonska mreža

Table. 1. 1. Fixed telephone network

	II Kvartal quarter 2016.	II Kvartal quarter 2017.	I Kvartal quarter 2018.	II Kvartal quarter 2018.	II 2018 II 2017	II 2018 I 2018	
					Indeksi/Indices		
Ukupan broj aktivnih fiksnih telefonskih linija incumbent ¹ operatera	710.178	677.737	619.489	613.822	90,6	99,1	Total number of fixed telephone lines of incumbenm ¹ operators
Broj novih operatera fiksne telefonije	13	12	11	11	91,6	100,0	The number of new fixed telephony operator
Ukupan broj vlastitih pretplatnika novih operatera	97.478	111.364	132.170	137.314	123,3	103,9	The total number of own subscribers to new operators
Ukupan broj pretplatnika alternativnih operatera sa indirektnim pristupom	40.114	38.535	2.019	1.947	5,0	96,4	Alternative operators - Number of Indirect Access Subscribers
Ukupan broj prenesenih brojeva	40.102	58.603	69.628	72.124	123,1	103,6	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

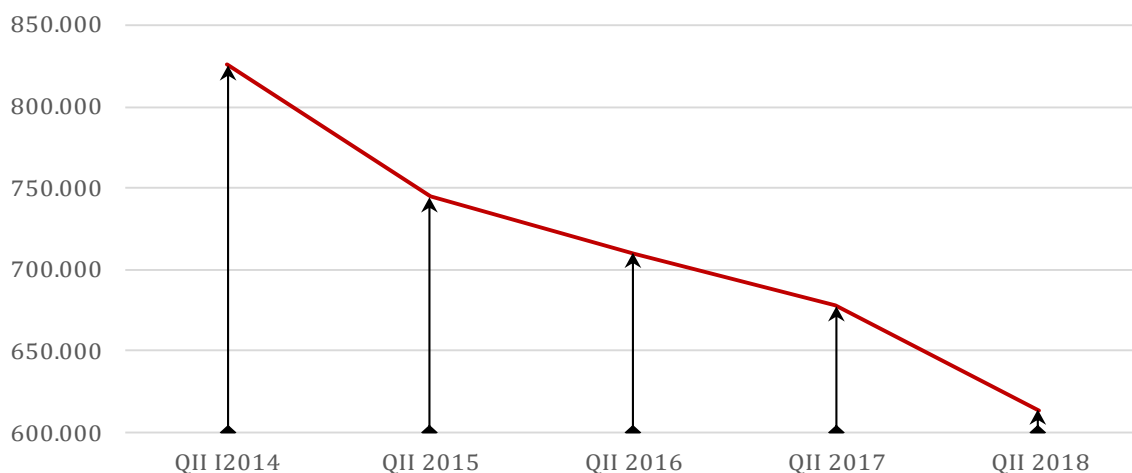


Tabela 1.2. Odlazni saobraćaj operatera fiksne telefonije*Table 1.2 Outgoing traffic fixed - line operator*

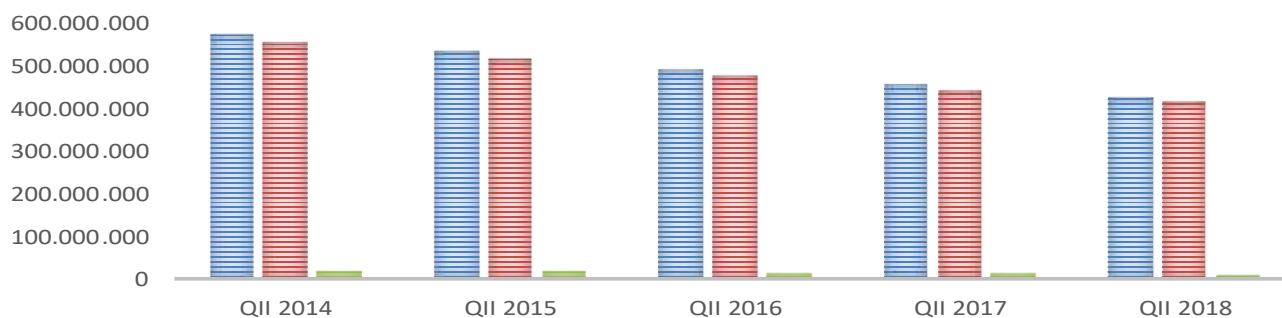
Odlazni saobraćaj operatera u milionama minuta	II kvartal/ quarter	II kvartal/ quarter	II kvartal/ quarter	I kvartal/ quarter	II kvartal/ quarter	Outgoing traffic operators in millions of minutes
	2015	2016	2017	2018	2018	
Ukupno odlazni saobraćaj operatera fiksne telefonije	533.380.593	494.017.927	455.175.167	462.491.302	427.000.629	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	517.493.047	480.658.109	443.466.685	453.490.600	418.272.133	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	15.887.546	13.359.818	11.708.482	9.000.702	8.728.499	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)*

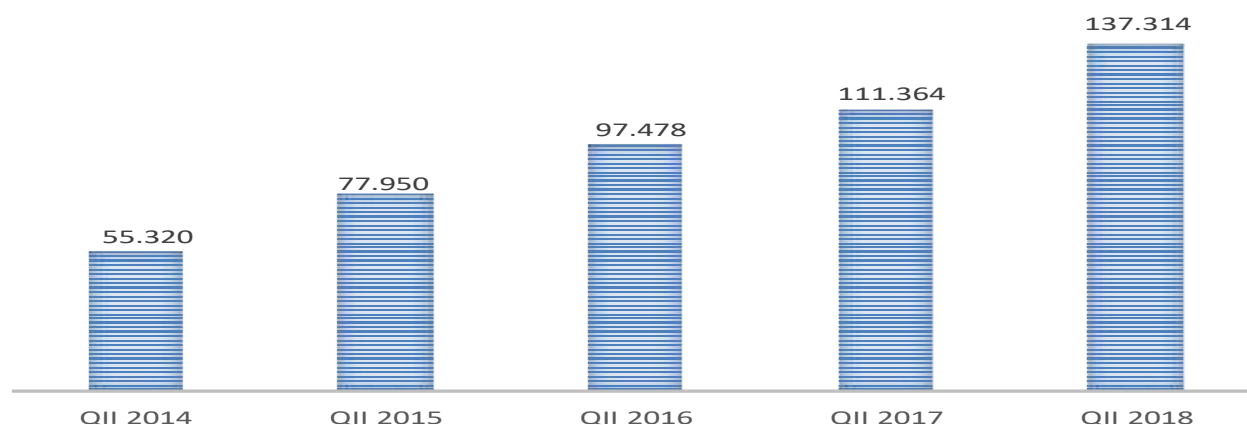
Indeksi po indikatorima odlaznog saobraćaja operatera fiksne telefonije	II 2018 II 2016	II 2018 II 2017	II 2018 I 2018	Indicies by indicators outgoing traffic fixed-line operator
Ukupno odlazni saobraćaj operatera fiksne telefonije	86,4	93,8	92,3	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	87,0	94,1	92,2	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	65,3	74,5	97,0	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 networkoperators (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

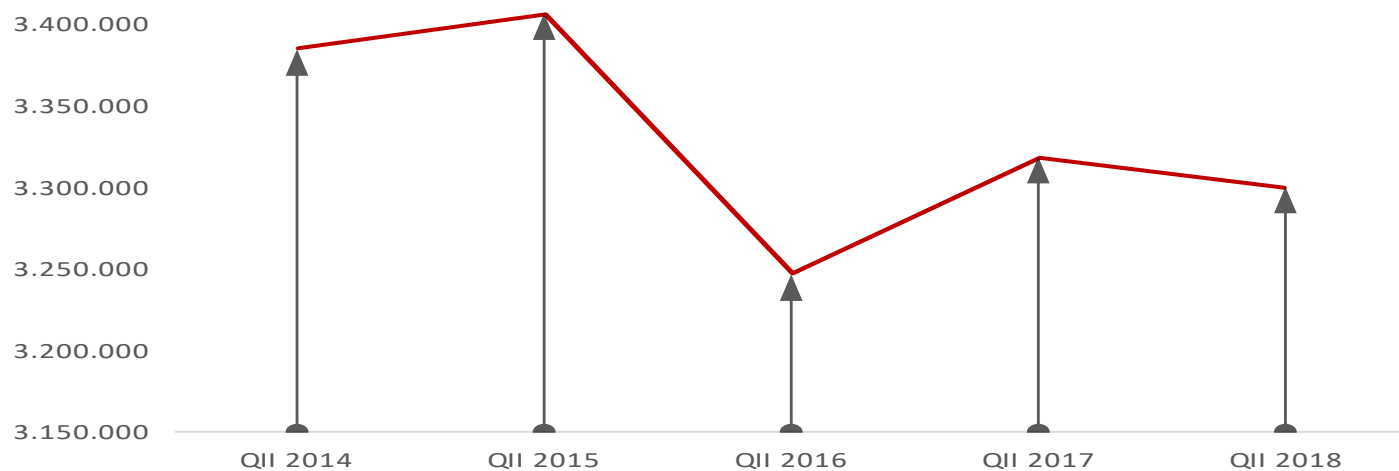
Tabela 2. Mobilna telefonska mreža
Table 2. Mobile telephone network

	I I Kvartal quarter 2016.	II Kvartal quarter 2017.	I Kvartal quarter 2018.	II Kvartal quarter 2018.	II 2018 II 2017	II 2018 I 2018	
					Indeksi/Indicies		
Ukupan broj korisnika mobilne mreže	3.247.236	3.319.084	3.301.808	3.300.634	99,5	99,9	Total number of mobile network users
Penetracija mobilne telefonije	84,84%	93,99%	93.50%	93,47%	99,4	99,9	Penetration of mobile telephony
Ukupan broj prenesenih brojeva	33.842	46.126	53.684	56.477	122,4	105,2	The total number of transferred numbers
Ukupan odlazni saobraćaj operatora mobilne telefonije (minutama)	633.506.883	594.650.077	524.806.197	570.271.219	95,9	108,7	Total outgoing traffic of mobile operators(in minutes)
Broj poslatih SMS poruka	209.836.101	162.394.070	131.059.077	133.713.307	82,3	102,0	SMS sent
Broj poslatih MMS poruka	299.703	293.113	230.584	224.401	76,6	97,3	MMS sent

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

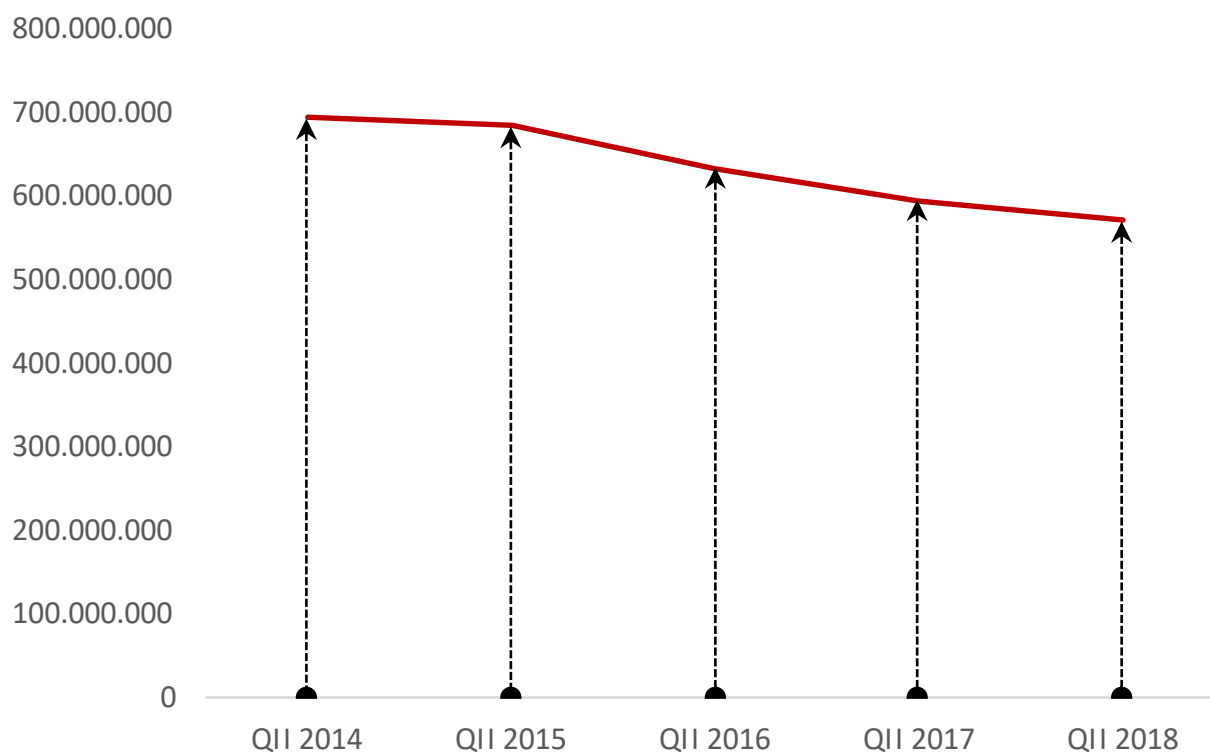
Grafikon 2.1. Broj korisnika telefonskih usluga u mobilnoj telefoniji

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



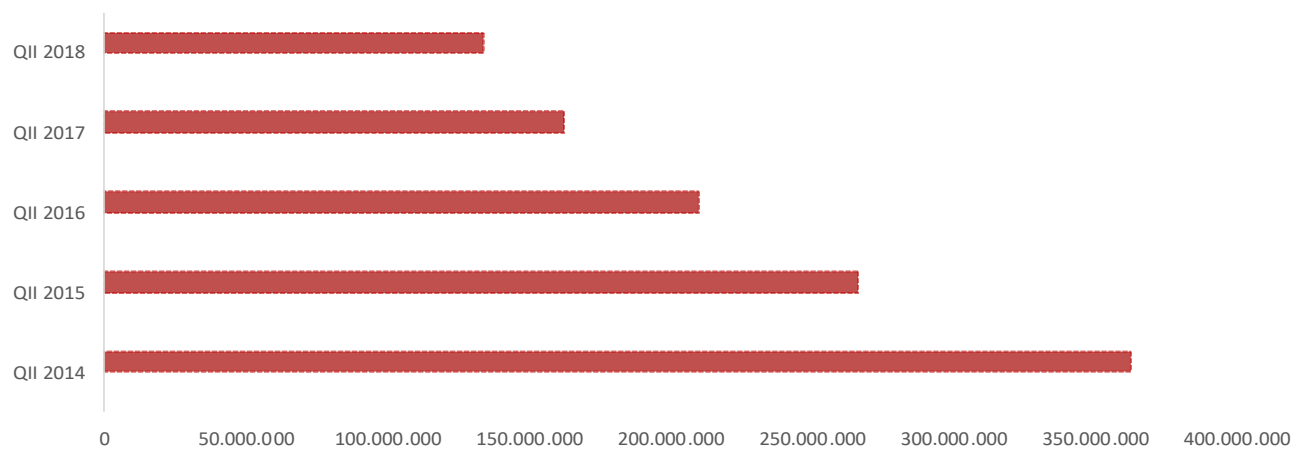
Grafikon 2.2. Odlazni saobraćaj mobilne telefonije, u minutama

Graph.2.2 Outgoing traffic of mobile operators, in minutes



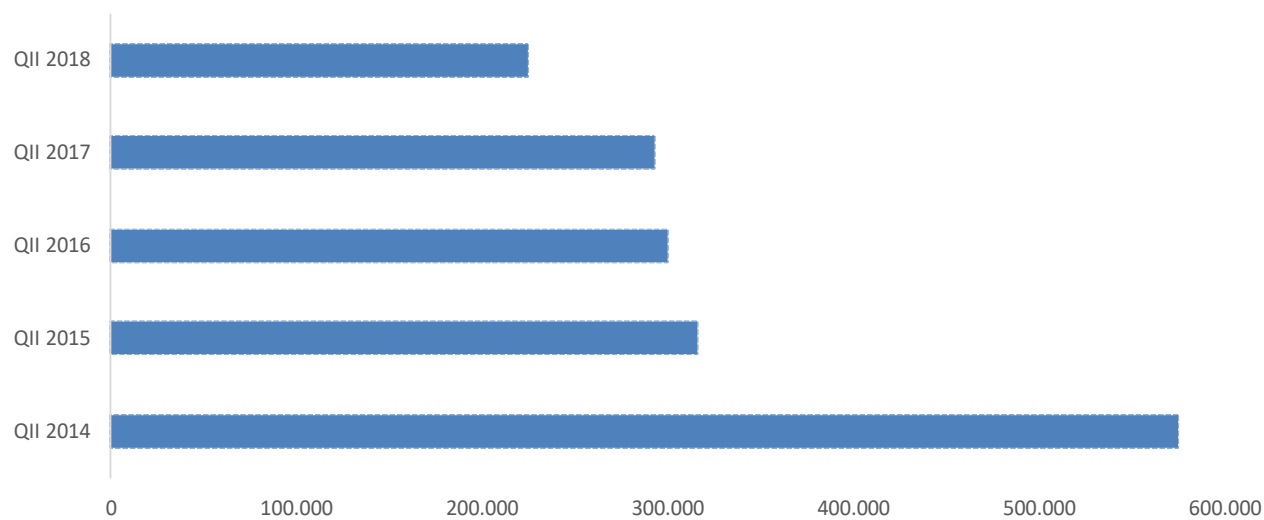
Grafikon 2.3. Broj poslatih SMS poruka

Graph.2.3. SMS sent

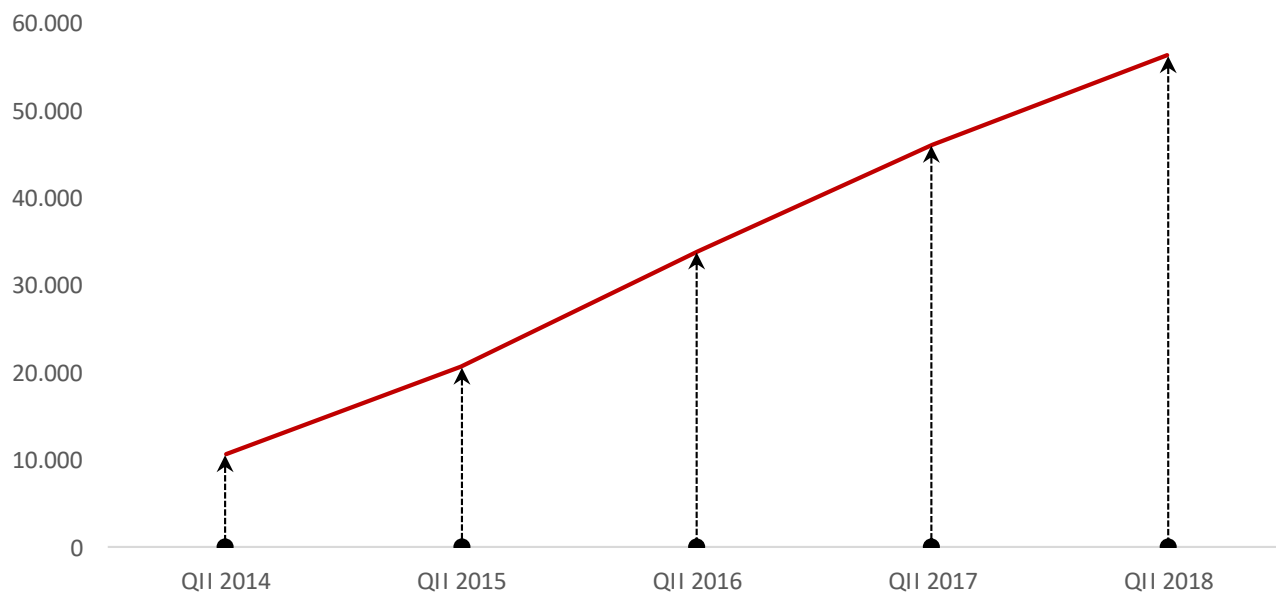


Grafikon 2.4. Broj poslatih MMS poruka

Graph.2.4. MMS sent



Grafikon 2.4. Ukupan broj prenesenih brojeva
Graph.2.4. The total number of transferred numbers



3. PRISTUP INTERNETU

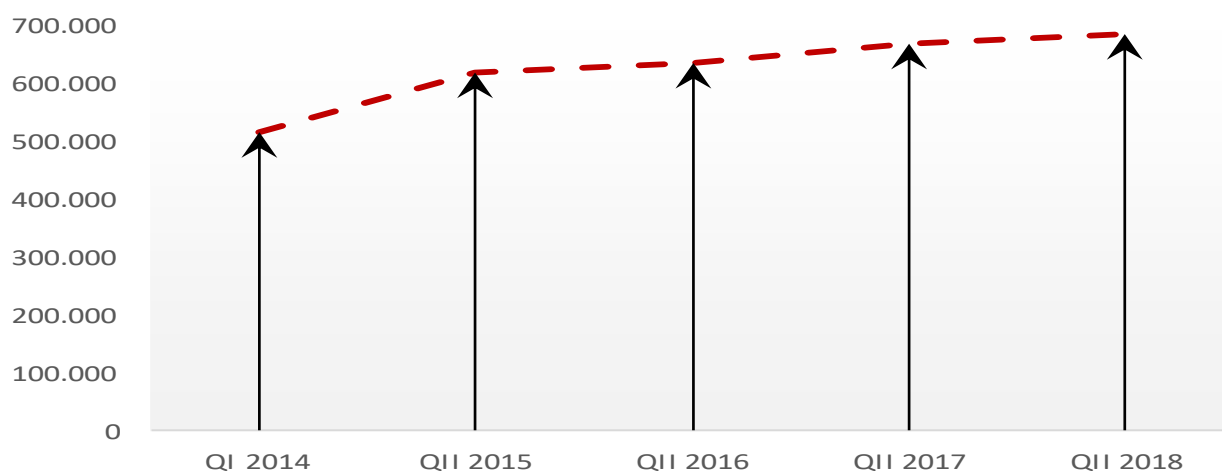
Tabela 3. Pristup internetu
Table 3. Internet access

	II Kvartal quarter 2016	II Kvartal quarter 2017	I Kvartal quarter 2018	II Kvartal quarter 2018	II 2018 II 2017	II 2018 I 2018	
	Indeksi/Indices						
Ukupan broj priključaka širokopojasnog pristupa internetu putem fiksne mreže	637.039	671.068	686.226	686.546	102,3	100,0	Total number of broadband subscribers
Broj xDSL priključaka	375.991	389.310	403.596	398.716	102,4	98,8	Number of subscribers using xDSL connection
Broj priključaka putem kablovske mreže	203.843	221.559	232.937	230.030	103,8	98,8	Number of subscribers by cable network
Broj priključaka fiksni bežični pristup	55.049	57.661	45.168	43.541	75,5	96,4	Number of subscribers fixed wireless connection
Broj priključaka putem iznajmljene linije	1.255	1.206	1.114	1.078	89,4	96,8	Number of subscribers via leased lines
Broj priključaka FTTx	659	894	3.103	13.033	1457,8	320,0	Number of subscribers via FTTx connection
Broj priključaka putem ostalih tehnologija	242	438	308	148	33,8	48,1	Number of subscribers using other technologies
Stopa penetracije korisnika interneta putem fiksne mreže	73,4%	83,5%	85,5%	85,5%	102,4	100,0	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

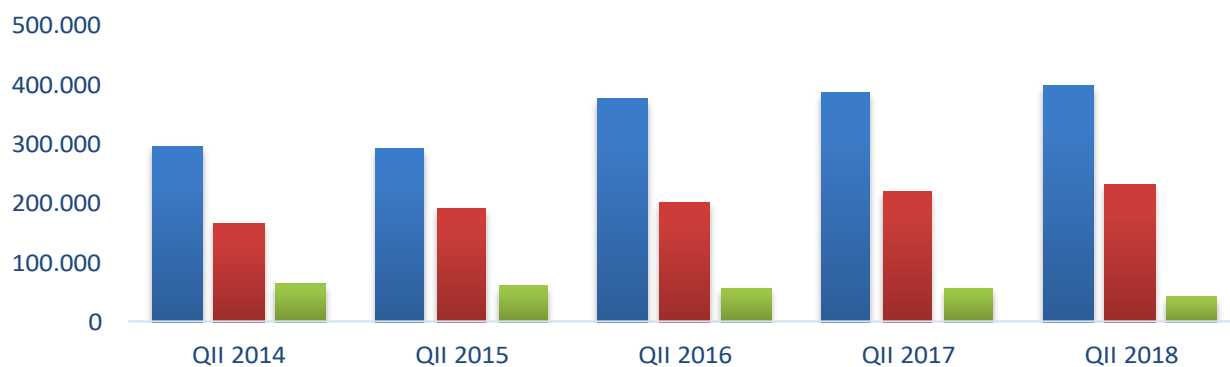
Graph 3.1 Number of broadband subscribers



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 saopštenja bilo koje prirode koja se pruža žičnim, svjetlosnim, bežičnim ili drugim elektromagnetskim sistemima uključujući omogućavanje upotrebe tih sistema kaocjeline 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 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).

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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