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INFORMATION SOCIETY

ELEKTRONSKE KOMUNIKACIJE, treći kvartal 2017.

ELECTRONIC COMMUNICATIONS, third quarter 2017.

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatora u trećem kvartalu 2017. godine iznosio je 646.328, što predstavlja pad od 9,3% u odnosu na treći kvartal 2016. godine.

Total number of fixed telephone lines of dominant operators in the third quarter 2017 was 646.328 which represents a decrease of 9,3% compared to the third quarter 2016th.

Ukupni odlazni saobraćaj fiksne telefonske mreže u trećem kvartalu 2017. godine iznosio je 506.037.786 minuta, što pokazuje povećanje od 6,3% u odnosu na treći kvartal 2016. godine.

The total traffic of fixed telephone network in third quarter 2017 was je 506.037.786 minutes which shows an increase of 6,3% compared to third quarter 2016th.

Broj pretplatnika mobilne mreže u trećem kvartalu 2017. godine iznosio je 3.473.418 i bilježi rast od 1,3% u odnosu na treći kvartal 2016. godine. Ukupni odlazni saobraćaj mobilne mreže u trećem kvartalu 2017. godine iznosio je 633.759.603 minuta, što pokazuje rast od 1,3% u odnosu na treći kvartal 2016. godine.

Total mobile telephone subscribers in the third quarter 2017 was 3.473.418 which shows an increase of 1,3% compared to the third quarter 2016th year. The total traffic of mobile telephone network in the third quarter 2017 was 633.759.603 minutes which shows an increase of 1,3% compared to the third quarter 2016th year.

Broj poslanih SMS poruka u trećem kvartalu 2017. godine manji je za 25,7%, broj poslanih MMS poruka manji je za 13,3% u odnosu na treći kvartal 2016. godine.

Number of SMS messages sent in the third quarter 2017 decreased by 25,7%, while the number of MMS messages sent decrease by 13,3% compared to the third quarter 2016^h.

Ukupan broj internet priključaka putem fiksne mreže u trećem kvartalu 2017. godine iznosio 657.055 i bilježi rast od 2,4% u odnosu na treći kvartal 2016. godine

The total number of Internet connections via the fixed network in the third quarter of 2017 was 657.055 an increase of 2,4% compared to the third quarter of 2016.

1.FIKSNA TELEFONSKA MREŽA

Tabela 1.1 Fiksna telefonska mreža

Table. 1. 1. Fixed telephone network

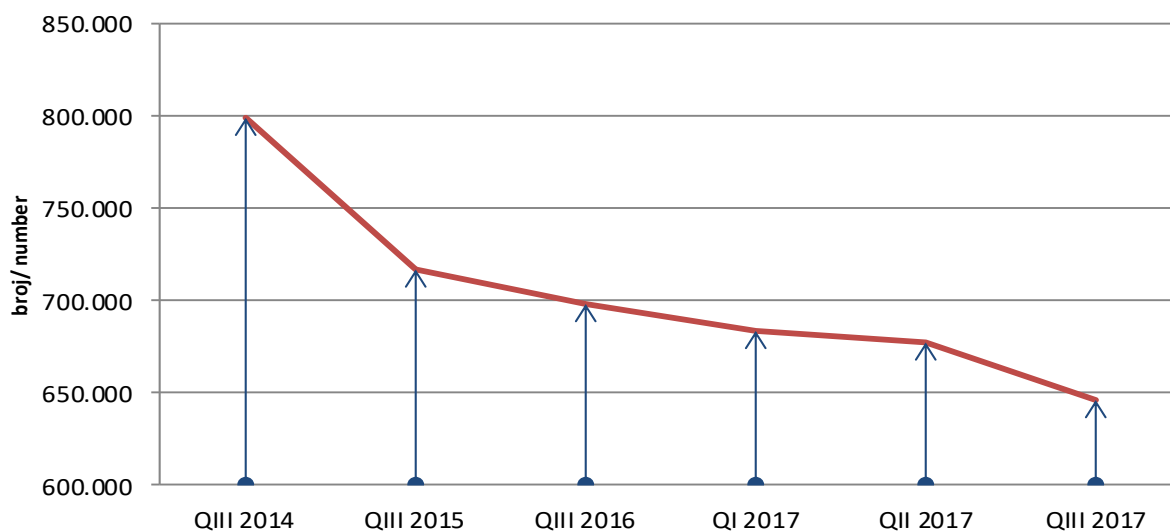
	III Kvartal quarter	III Kvartal quarter	II Kvartal quarter	III Kvartal quarter	III 2017 II2017	III 2017 III 2016	
	2015.	2016.	2017.		Indeksi/Indices		
Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatera	717.273	712.435 ¹	677.737	646.328	95,4	90,7	Total number of fixed telephone lines of dominant operators
Broj novih operatera fiksne telefonije	13	13	12	11	-	-	The number of new fixed telephony operator
Ukupan broj vlastitih pretplatnika novih operatera	76.623	91.674	111.364	117.910	105,9	128,6	The total number of own subscribers to new operators
Ukupan broj pretplatnika novih operatera sa indirektnim pristupom	41.105	39.193	38.535	2.116	5,5	5,4	Alternative operators - Number of Indirect Access Subscribers
Ukupan broj prenesenih brojeva	29.246	44.114	58.603	59.700	101,9	135,3	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



¹ Prethodno objavljeni podatak od 697.884 fiksnih telefonskih linija za III kvartal 2016. godine korigovan je zbog naknadne korekcije podataka od strane operatera

The previously published data of 697,884 fixed telephone lines for the III quarter of 2016 was corrected for the subsequent correction of data by the 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
	2015.	2016.		2017.			
Ukupno odlazni saobraćaj operatera fiksne telefonije	513	476	1489	455	506	1443	Outgoing total traffic fixed Networks operators
Ukupni domaći odlazni saobraćaj	497	463	1449	443	496	1409	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	16	13	40	12	10	35	Interantional outgoing fixed telephone traffic

Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)

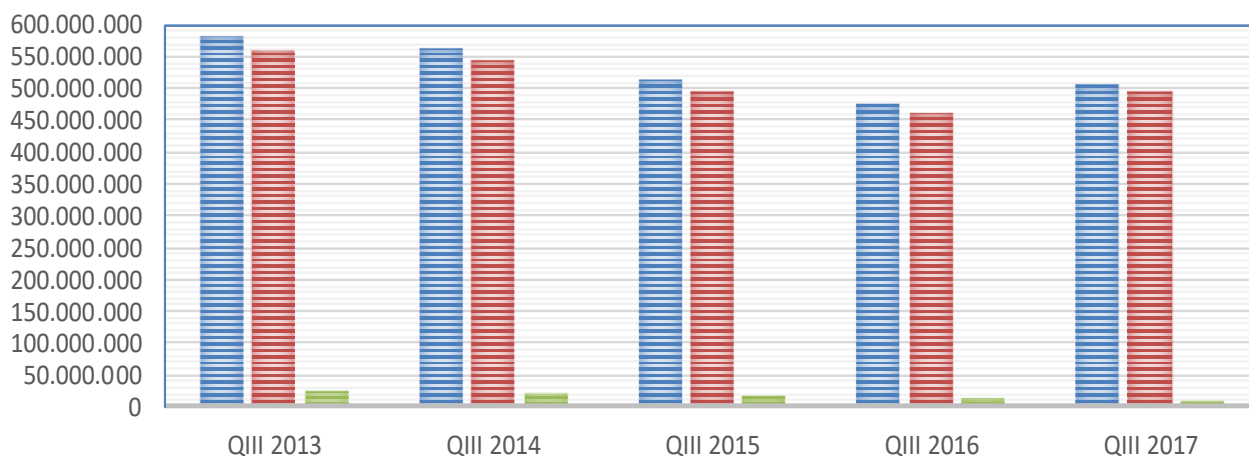
Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Indeksi po indikatorima odlaznog saobraćaja operatera fiksne telefonije	III 2017 II 2017	III 2017 III 2016	I – III 2017 I – III 2016	Indicies by indicators outgoing traffic fixed-line operator
	Ukupno odlazni saobraćaj operatera fiksne telefonije	111,2	106,3	
Ukupni domaći odlazni saobraćaj	112,0	107,1	97,2	Outgoing domestic traffic
Ukupni međunarodni odlazni telefonski saobraćaj	83,3	77,0	87,5	Interantional outgoing fixed telephone traffic

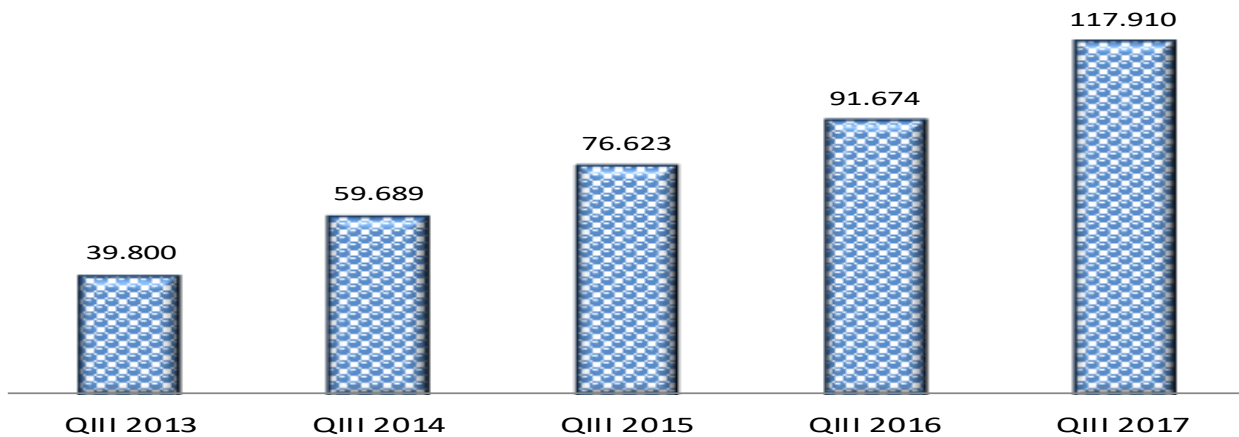
Grafikon 1.2. Saobraćaj ostvaren putem fiksne telefonske mreže

Graph 1.2 Traffic accomplished via fixed telephone network

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

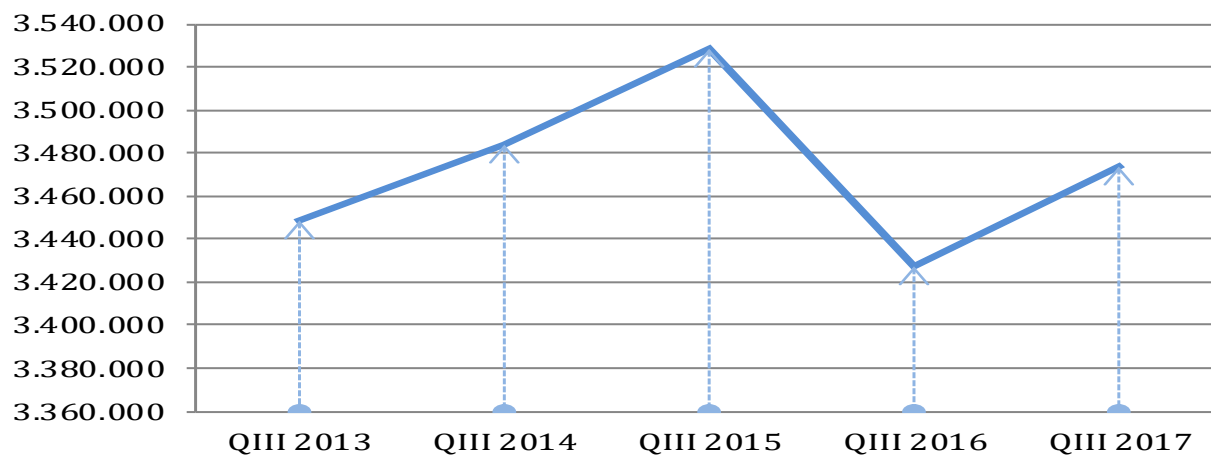
Tabela 2. Mobilna telefonska mreža
Table 2. Mobile telephone network

	III Kvartal quarter	III Kvartal quarter	II Kvartal quarter	III Kvartal quarter	III 2017 II2017	III 2017 III 2016	
	2015.	2016.	2017.		Indeksi/Indicies		
Ukupan broj pretplatnika mobilne mreže	3.528.695	3.427.401	3.319.084	3.473.418	104,6	101,3	Total number mobile telephone subscribers
Penetracija mobilne telefonije	91,85%	89,55%	93,99%	98,36%	104,6	109,8	Penetration of mobile telephony
Ukupan broj prenesenih brojeva	23.445	36.944	46.126	46.841	101,6	126,8	The total number of transferred numbers
Ukupan odlazni saobraćaj operatora mobilne telefonije (minutama)	666.322.355	625.837.421	594.650.077	633.759.603	106,6	101,3	Total outgoing traffic of mobile operators (in minutes)
Broj poslatih SMS poruka	267.381.327	212.079.352	162.394.070	157.596.401	97,0	74,3	SMS sent
Broj poslatih MMS poruka	321.245	334.987	293.113	290.364	99,1	86,7	MMS sent

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

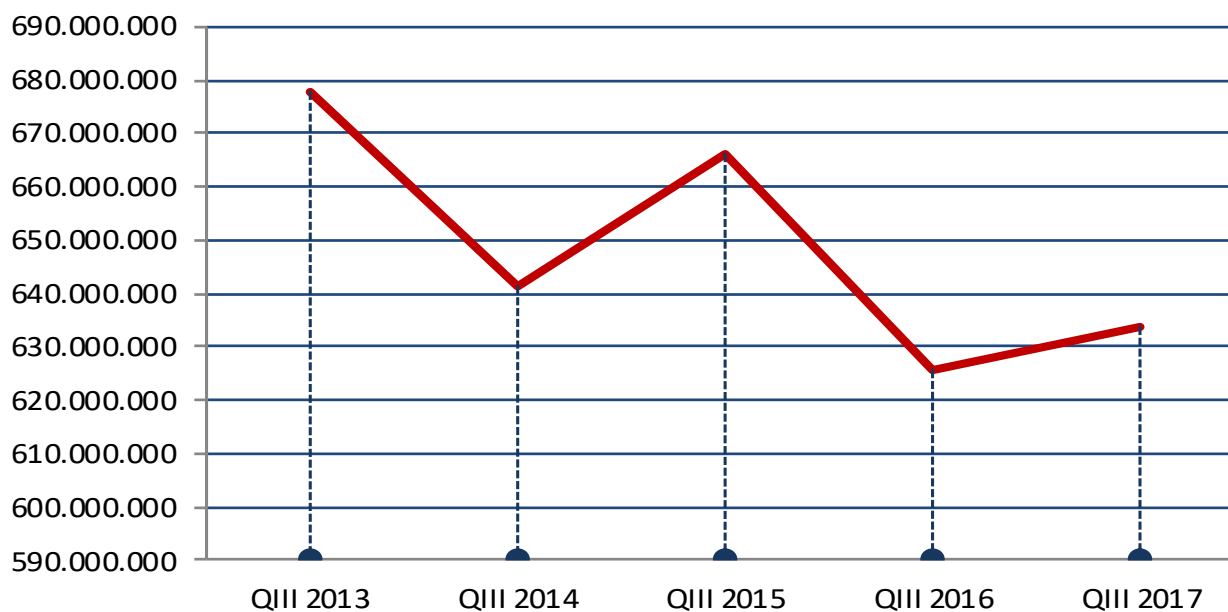
Grafikon 2.1. Broj pretplatnika mobilne mreže

Graph.2.1 Mobile telephone subscribers



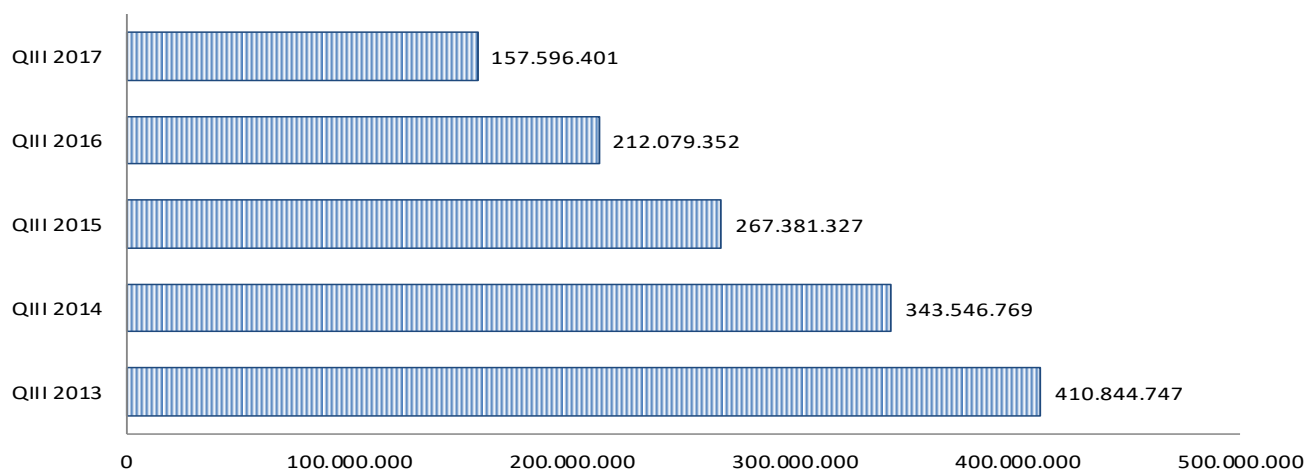
Grafikon 2.2. Odlazni saobraćaj mobilne telefonije (u minutama).

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



Grafikon 2.3. Broj poslatih SMS poruka

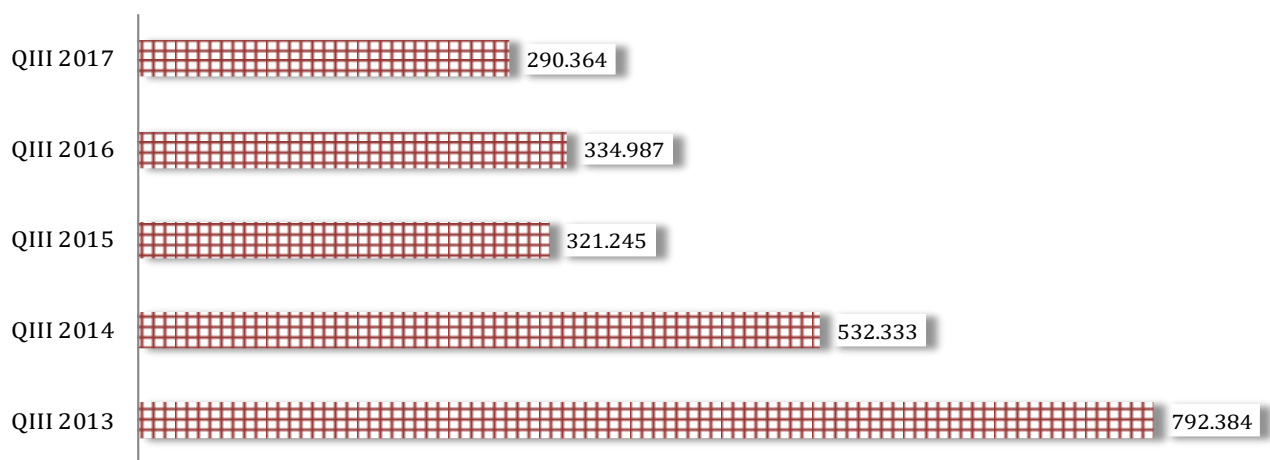
Graph.2.3. SMS sent



Grafikon 2.4. Broj poslatih MMS poruka

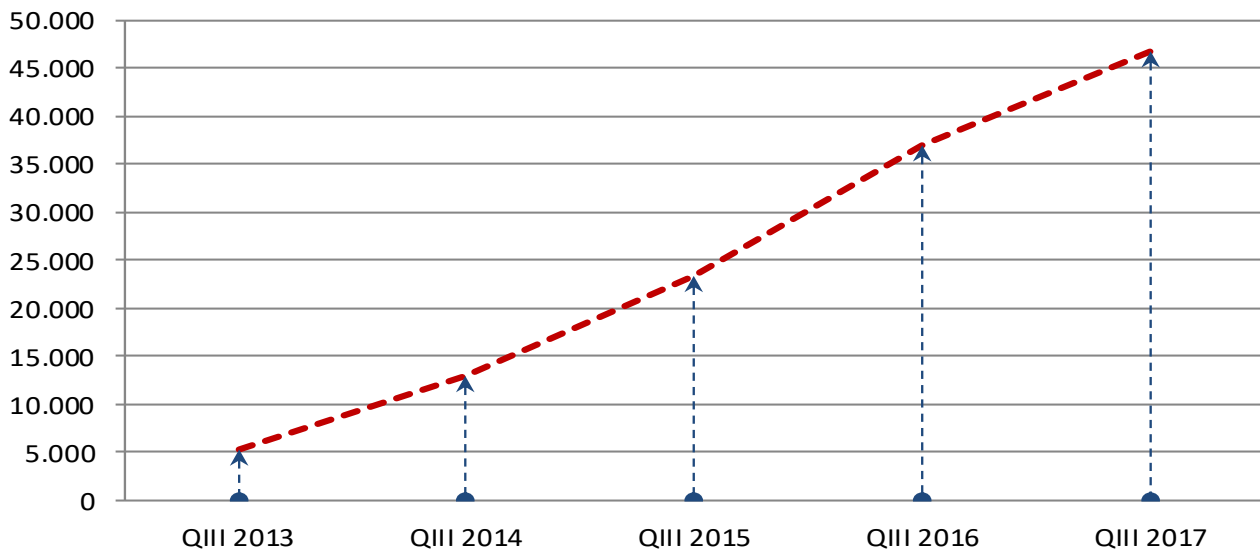
Graph.2.4. MMS sent

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

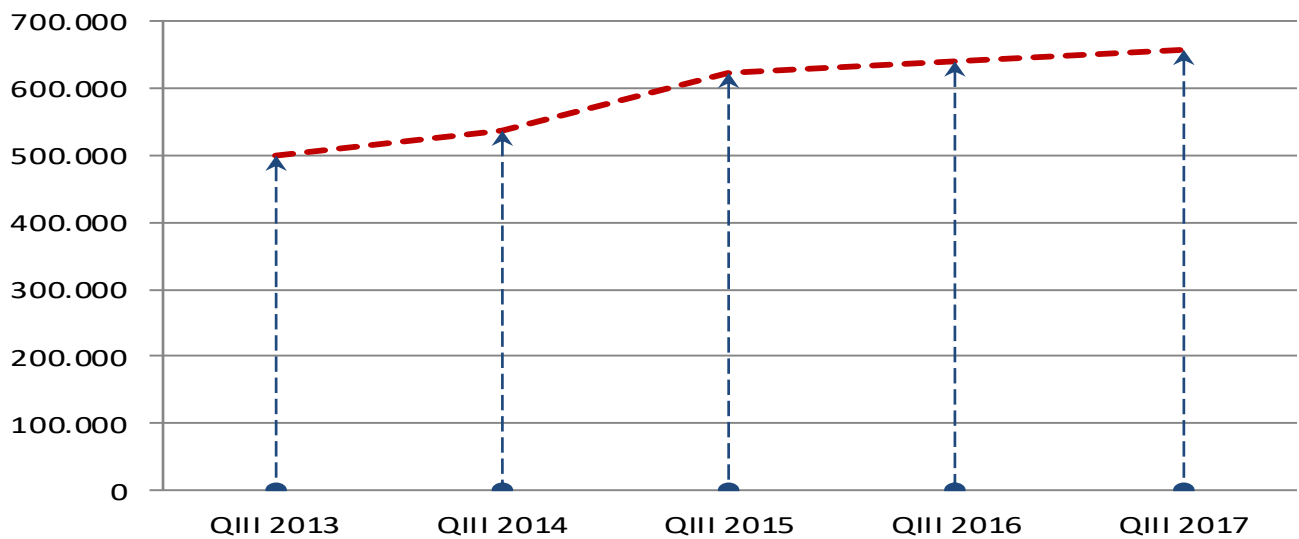
	III	III	II	III	III 2017	III 2017	
	Kvartal	Kvartal	Kvartal	Kvartal	II 2017	III 2016	
	2015.	2016.	2017.		Indeksi/Indicies		
Ukupan broj priključaka širokopolasnog pristupa internetu putem fiksne mreže	624.686	641.527	671.068	657.055	97,9	102,4	Total number of broadband subscribers
Broj xDSL priključaka	366.530	376.187	389.310	392.526	100,8	104,3	Number of subscribers using xDSL connection
Broj priključaka putem kablovske mreže	195.785	207.983	221.559	218.769	98,7	105,1	Number of subscribers by cable network
Broj priključaka fiksni bežični pristup	60.441	55.130	57.661	42.988	74,6	78,0	Number of subscribers fixed wireless connection
Broj priključaka putem iznajmljene linije	1.257	1.245	1.206	1.168	96,8	93,8	Number of subscribers via leased lines
Broj priključaka FTTx	417	807	894	1.190	133,1	147,6	Number of subscribers via FTTx connection
Broj priključaka putem ostalih tehnologija	256	175	438	414	94,5	236,6	Number of subscribers using other technologies
Stopa penetracije korisnika interneta putem fiksne mreže	68,74%	74,05	83,48%	75,52% ²	90,5	102,0	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)

² 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

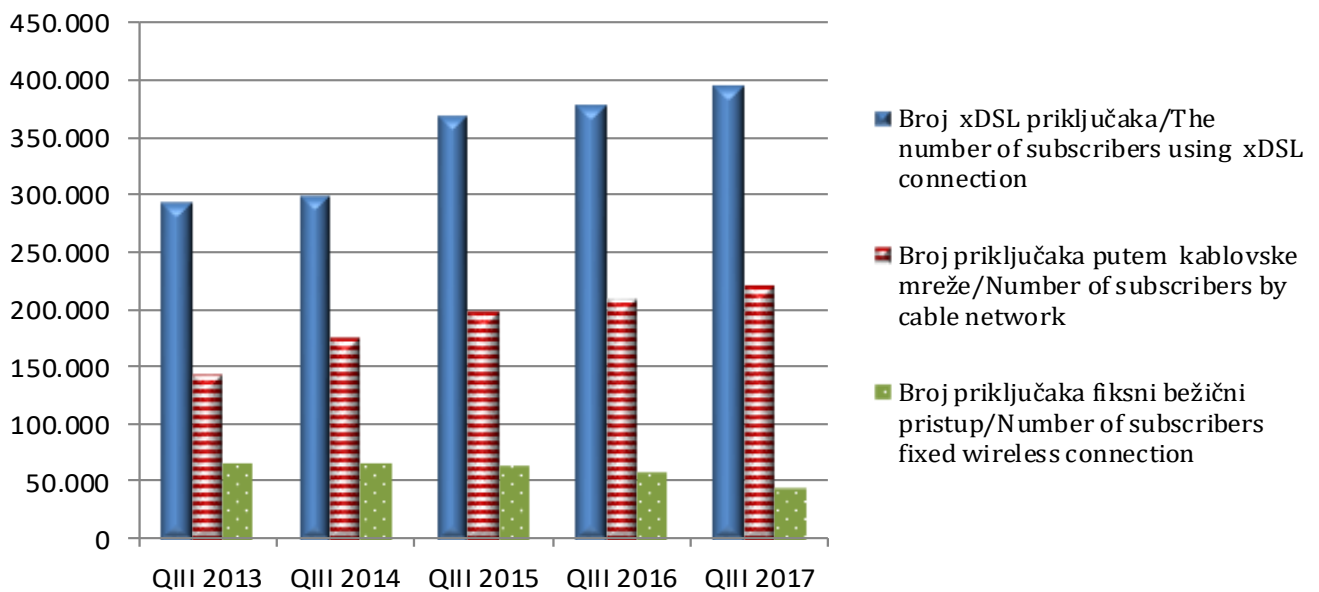
Grafikon 3.1 Ukupan broj priključaka pristupa internetu putem fiksne mreže

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



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 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 širokopoljasnim internet uslugama realizovan putem optičkog vlakna.

xDSL (Digitalna Pretplatnička Linija) je širokopoljasni pristup internet uslugama realizovan putem upredene bakarne parice. Tu spadaju širokopoljasne 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 ON 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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