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INFORMATION SOCIETY

TELEKOMUNIKACIONA OPREMA, MREŽA I USLUGE, BIH, 2018.

TELECOMMUNICATIONS EQUIPMENT, NETWORK AND SERVICES, BIH, 2018.

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatera u 2018. godini iznosio je 652.502 što predstavlja pad od 6,2% u odnosu na 2017. godinu.

Total number of fixed telephone lines of dominant operators in 2018 was 652.502 which represents a decrease of 6,2% compared to the 2017 th year.

Ukupan broj vlastitih pretplatnika alternativnih oparatora u 2018. godini iznosio je 140.033, što pokazuje rast od 11,8% u odnosu na prethodnu godinu

The total number of own subscribers of alternative operators in the year of 2018 was 140.033 which shows an increase of 11,8% compared to previous year.

Ukupni saobraćaj fiksne telefonske mreže u 2018. godini iznosio je 1.383.007.063 minuta, što pokazuje pad od 15,3% u odnosu na 2017.

The total traffic of fixed telephone network in the year of 2018 was 1.383.007.063 minutes which shows a decrease of 15,3% compared to 2017th.

Ukupni domaći odlazni saobraćaj alternativnih operatera u 2018. godini iznosio je 323.158.253 minuta, što pokazuje rast od 0,8% u odnosu na prethodnu godinu.

The total outgoing domestic traffic alternative operators in the year of 2018 was 323.158.253minutes which shows an increase of 0,8% compared to previous year.

Broj pretplatnika mobilne mreže u 2018. godini iznosio je 3.461.058 i bilježi blagi rast od 0,6%.

The number of mobile telephone subscribers in the year of 2018 was 3.461.058 which shows a slight increase of 0,6%

Ukupni saobraćaj mobilne mreže u 2018. godini iznosio je 2.367.465.067minuta, što pokazuje pad od 5,0% u odnosu na prethodnu godinu.

The total traffic of mobile telephone network in the year of 2018 was 2.367.465.067minutes which shows a decrease of 5,0% compared to the previous year.

Broj poslanih SMS poruka u 2018. godini manji je za 29,2%, u odnosu na 2017. godinu.

Number of SMS messages sent in the 2018th year decreased by 29,2%, compared to the 2017th year

Ukupan broj pretplatnika fiksnog interneta u 2018. godini iznosio je 693.873

Total number of fixed Internet subscribers in the year of 2018 was 693.873

Broj pretplatnika mobilnog interneta putem standardnog mobilnog širokopojasnog pristupa u 2018. godini iznosio je 1.789.989, što pokazuje rast od 25,9% u odnosu na prethodnu godinu

Number of subscribers of mobile Internet via a standard mobile broadband access in the year of 2018 was 1.789.989, which shows an increase of 25,9% compared to previous year

TELEKOMUNIKACIONI POKAZATELJI¹
TELECOMMUNICATION INDICATORS

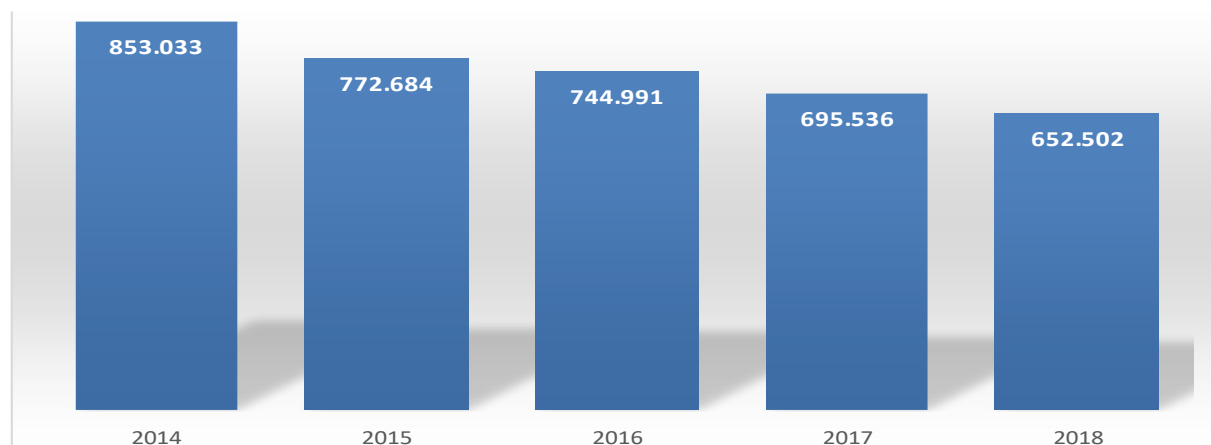
T. 1. Fiksna telefonska mreža

T.1. Fixed telephone network

	2018.	
Ukupan broj aktivnih fiksnih telefonskih linija incumbent operatera²	652.502	Total number of fixed telephone lines of Incumbent operators
Broj aktivnih analognih linija- PSTN linije	464.015	<i>Number of active analog lines- PSTN lines</i>
Broj ISDN linija izraženo u B kanalima	34.122	<i>Number of ISDN lines (expressed in B channels)</i>
Broj pretplata putem fiksne bežične petlje (CLL ili WLL)	14.418	<i>CLL subscriptions</i>
Broj pretplata IP telefonije	138.825	<i>Number of IP telephone subscribers³</i>
Ukupan broj javnih telefonskih govornica	1.122	<i>Number of public payphones</i>
Broj linija pretplatnika fizičkih osoba	503.345	<i>Number of main lines which are residential (analog and B channels)</i>
Broj linija pretplatnika pravnih osoba	148.035	<i>Number of main lines which are business (analog and B channels)</i>
Broj alternativnih operatera fiksne telefonije ³	12	<i>Total number of alternative operators</i>
Ukupan broj vlastitih pretplatnika alternativnih operatera	140.033	<i>Alternative operators -Number of Direct Access Subscribers</i>
Ukupan broj pretplatnika alternativnih operatera sa indirektnim pristupom (CS- izbor operatera)	1.752	<i>Alternative operators -Number of Indirect Access Subscribers (GPS, CS, etc.)</i>
Ukupan broj prenesenih fiksnih brojeva sa 31.12. 2018. godine	81.789	<i>The total number off transferred fixed numbers (with 31.12.2018 year)</i>

G1. Fiksna telefonska mreža-ukupan broj aktivnih fiksnih telefonskih linija incumbent operatera

G.1. Fixed telephone network- Total number of fixed telephone lines of incumbent operators



¹ Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)

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

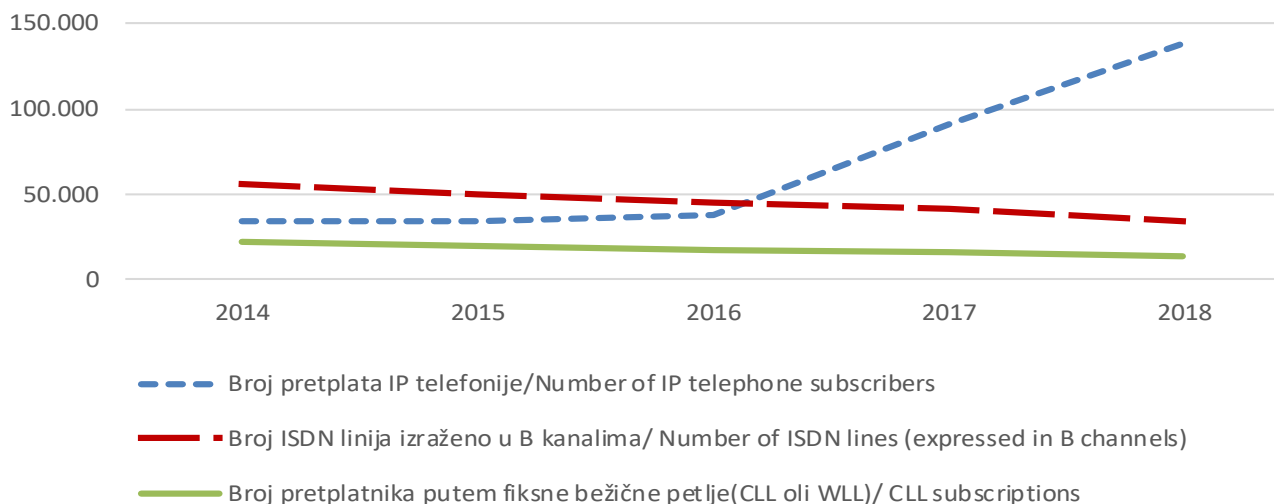
² Termin incumbent operatori se odnosi na operatore koji su prije liberalizacije tržišta imali državni (zakonski) monopol; u Bosni i Hercegovini su: BH Telecom, Telekom Srpske i HT Mostar.

The term incumbent refers to operators who had public (legal) monopoly before liberalization markets; in Bosnia and Herzegovina these are: BH Telecom, Telekom Srpske and HT Mostar.

³ Termin alternativni operatori se odnosi na operatore koji su se na tržištu pojavili nakon početka liberalizacije tržišta i korisnici su Dozvole za obavljanje djelatnosti davatelja nepokretnih javnih telefonskih usluga.

The term alternative operators refers to operators that have appeared on the market after the start of the liberalization of the market and customers are licensees for providers of fixed public telephone services

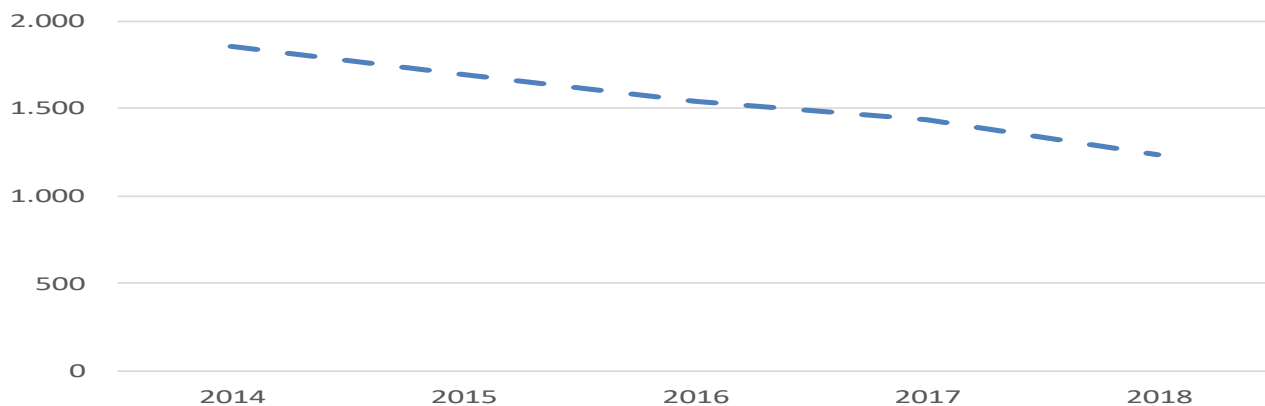
G.2. Fiksna telefonska mreža
G.2. Fixed telephone network



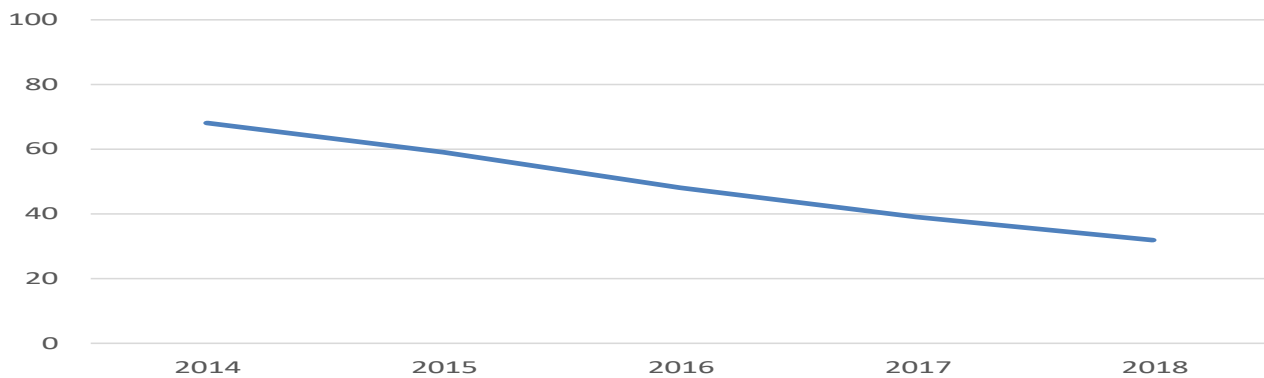
T.1.1. Saobraćaj ostvaren putem fiksne telefonske mreže, incumbent operatori
T.1.1 Traffic accomplished via fixed telephone network, Incumbent operators

	2018.	
Ukupan saobraćaj incumbent operatora (u minutama)	1.383.007.063	Total traffic incumbent operators (in minutes)
Ukupni domaći odlazni saobraćaj (u minutama)	1.237.422.466	Outgoing domestic traffic SMP operators (in minutes)
Odlazni lokalni i međumjesni saobraćaj unutar vlastite fiksne mreže (u minutama)	894.034.251	Outgoing local and trunk telephone traffic- traffic inside same network group (in minutes)
Odlazni saobraćaj prema drugim fiksним mrežama u BiH (u minutama)	147.429.719	Outgoing traffic to other fixed networks in BiH (in minutes)
Odlazni saobraćaj prema mobilnim mrežama u BiH (u minutama)	195.958.496	Outgoing traffic to mobile networks in BiH (in minutes)
Međunarodni odlazni telefonski saobraćaj (u minutama)	31.724.695	Interantional outgoing fixed telephone traffic (in minutes)
Međunarodni dolazni telefonski saobraćaj (u minutama)	113.859.843	Interantional incoming fixed telephone traffic (in minutes)
Dial-up internet saobraćaj (u minutama)	59	Dial up internet traffic (in minutes)

G.3. Ukupan domaći odlazni saobraćaj incumbent operatora (u milionama minuta)
G.3. Total domestic outgoing traffic incumbent operators (in millions minutes)



G.4. Ukupan međunarodni odlazni saobraćaj incumbent operatora (u milionama minuta)
G.4. Total Interantional outgoing traffic incumbent operators (in millions minutes)



T.1.2. Saobraćaj (koji su ostvarili altenativni operatori)

T.1.2. Traffic (realised by alternative operators)

	2018.	
Ukupni domaći odlazni saobraćaj alternativnih operatora (u minutama)	323.158.253	Outgoing domestic traffic alternative operators (in minutes)
Međunarodni odlazni telefonski saobraćaj alternativnih operatora (u minutama) ⁴	6.962.667	International outgoing fixed telephone traffic alternative operators (in minutes) ⁵
Međunarodni dolazni telefonski saobraćaj alternativnih operatora (u minutama) ⁵	13.902.753	Interantional incoming fixed telephone traffic alternative operators (in minutes) ⁶
Međunarodni dolazni saobraćaj koji je došao preko alternativnih operatora i završio u fiksnim mrežama dominantnih operatora (u minutama)	48.703.734	International incoming traffic that came through the alternative operators and ended in the fixed networks of dominant operators (in minutes)
Međunarodni dolazni saobraćaj koji je došao preko alternativnih operatora i završio u mobilnim mrežama dominantnih operatora (u minutama)	25.874.023	International incoming traffic that came through the alternative operator and ended in the mobile networks of dominant operators (in minutes)

G.5. Ukupan domaći odlazni saobraćaj alternativnih operatora (u milionama minuta)

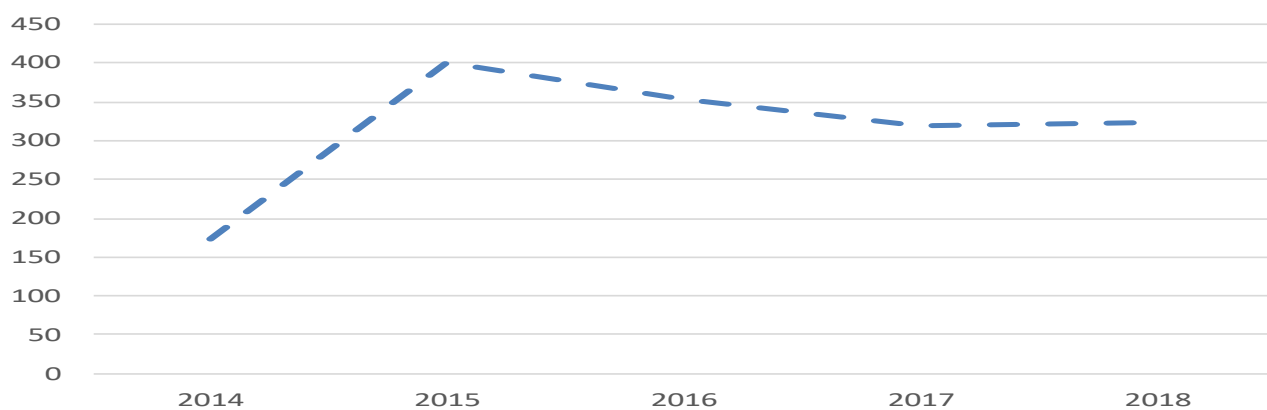
G.5. Total domestic outgoing traffic alternative operators (in millions minutes)

⁴ Saobraćaj vlastitih pretplatnika i pretplatnika koji koriste indirektni pristup (CS, CPS, telefonska kartica) koji se upućuje ka fiksnim i mobilnim mrežama u inostranstvu.

Traffic of own subscribers and subscribers who use intermediate access (CS, CPS, phone cards) that is being redirected toward fix and mobile networks abroad.

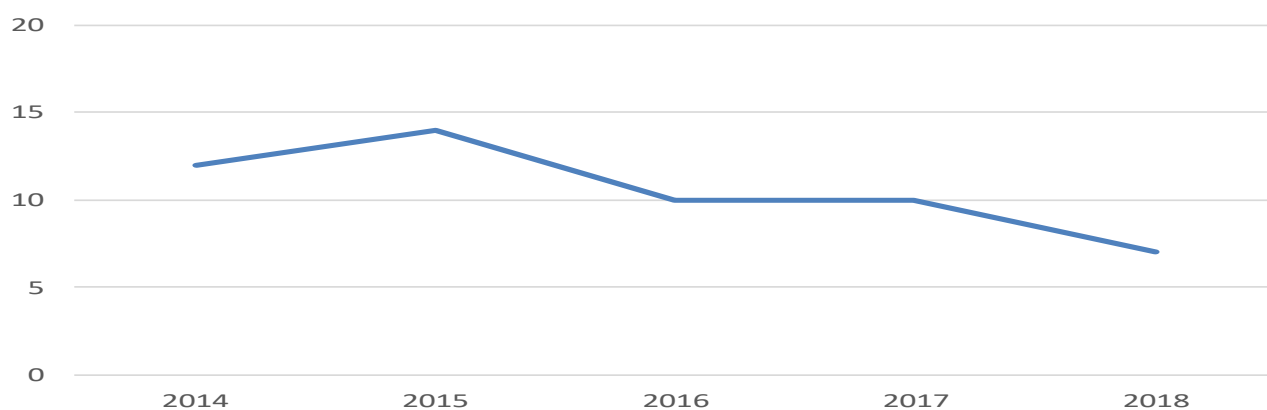
⁵ Međunarodni saobraćaj koji dolazi u vlastitu mrežu operatora.

International traffic that uses the own network of telephone provider



G.6. Ukupan međunarodni odlazni saobraćaj alternativnih operatora (u milionama minuta)

G.6. Total Interantional outgoing traffic alternative operators (in millions minutes)



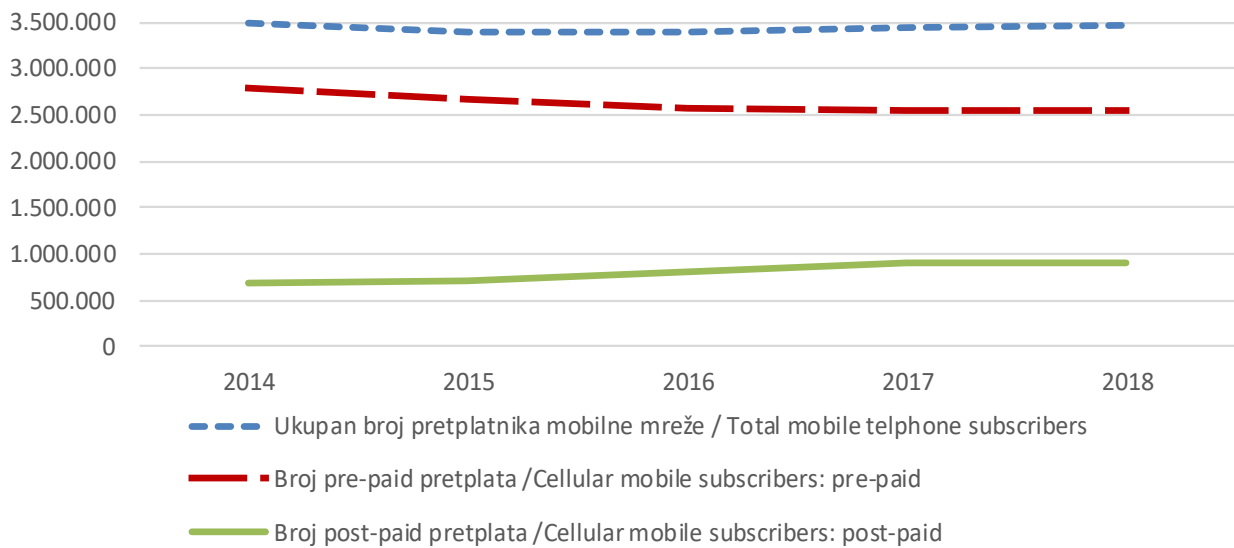
T.2. Mobilna telefonska mreža

T.2. Mobile Telephone Network

	31.12.2018.	
Ukupan broj pretplatnika mobilne mreže	3.461.058	Total mobile telephone subscribers
Broj pre-paid pretplata	2.548.040	Cellular mobile subscribers: pre-paid
Broj post-paid pretplata	913.018	Cellular mobile subscribers: post-paid

G.7. Ukupan broj pretplatnika mobilne mreže

G.7. Total mobile telephone subscribers



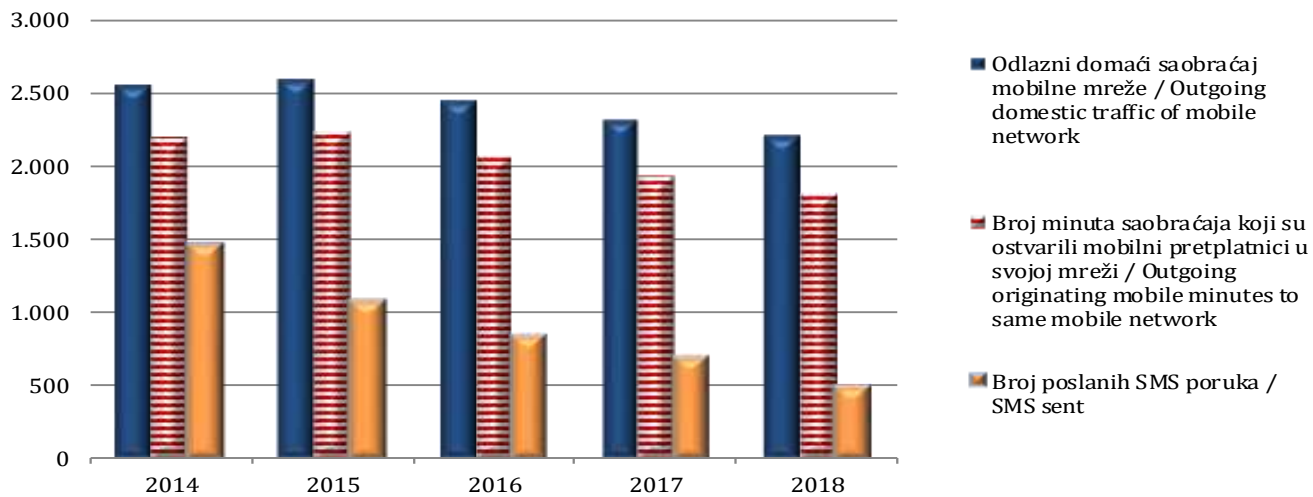
T.2.1. Saobraćaj ostvaren putem mobilne mreže

T.2.1. Traffic accomplished via mobile cellular network

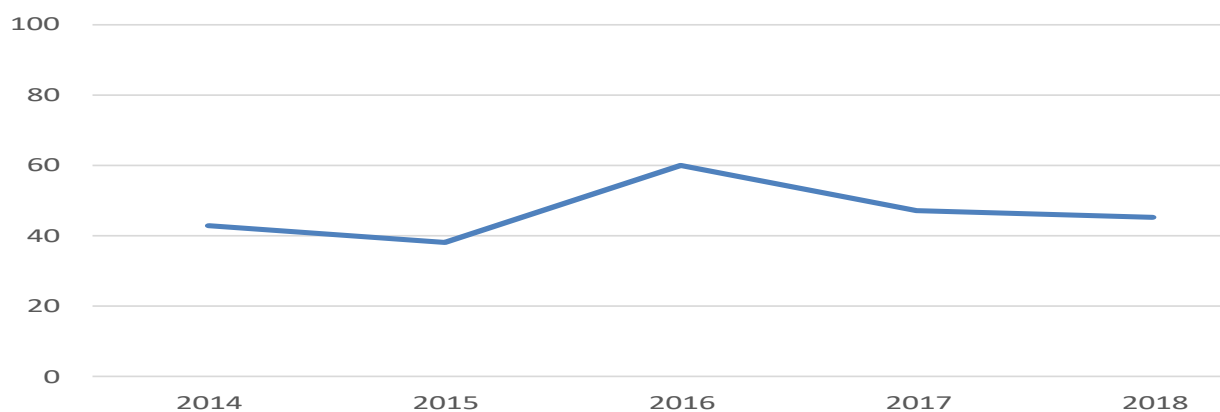
	2018.	
Ukupni saobraćaj (u minutama)	2.367.465.067	Total traffic (in minutes)
Ukupni odlazni saobraćaj mobilne mreže u minutama (domaći saobraćaj), od toga:	2.198.475.809	Total Outgoing traffic of mobile network in minute (domestic traffic), of which:
Broj minuta saobraćaja koji su ostvarili mobilni pretplatnici u svojoj mreži.	1.812.855.877	Outgoing/originating mobile minutes to same mobile network.
Broj minuta saobraćaja koji su ostvarili mobilni pretplatnici prema drugim mobilnim mrežama u BiH.	225.931.933	Outgoing/originating mobile minutes to other mobile networks in BiH.
Broj minuta saobraćaja mobilna - fiksna	159.687.999	Outgoing mobile minutes to fixed networks
Međunarodni odlazni saobraćaj (u minutama)	44.956.859	International outgoing mobile traffic (in minutes)
Međunarodni dolazni saobraćaj (u minutama)	124.032.399	International incoming mobile traffic (in minutes)
Broj poslanih SMS poruka	495.792.672	SMS sent
Broj poslanih MMS poruka	981.286	MMS sent

G.8. Saobraćaj ostvaren putem mobilne mreže (u milionama minuta)

G.8. Traffic accomplished via mobile cellular network (in millions minutes)



G.9. Međunarodni odlazni saobraćaj (u milionama minuta)
G.9. International outgoing mobile traffic (in millions minutes)



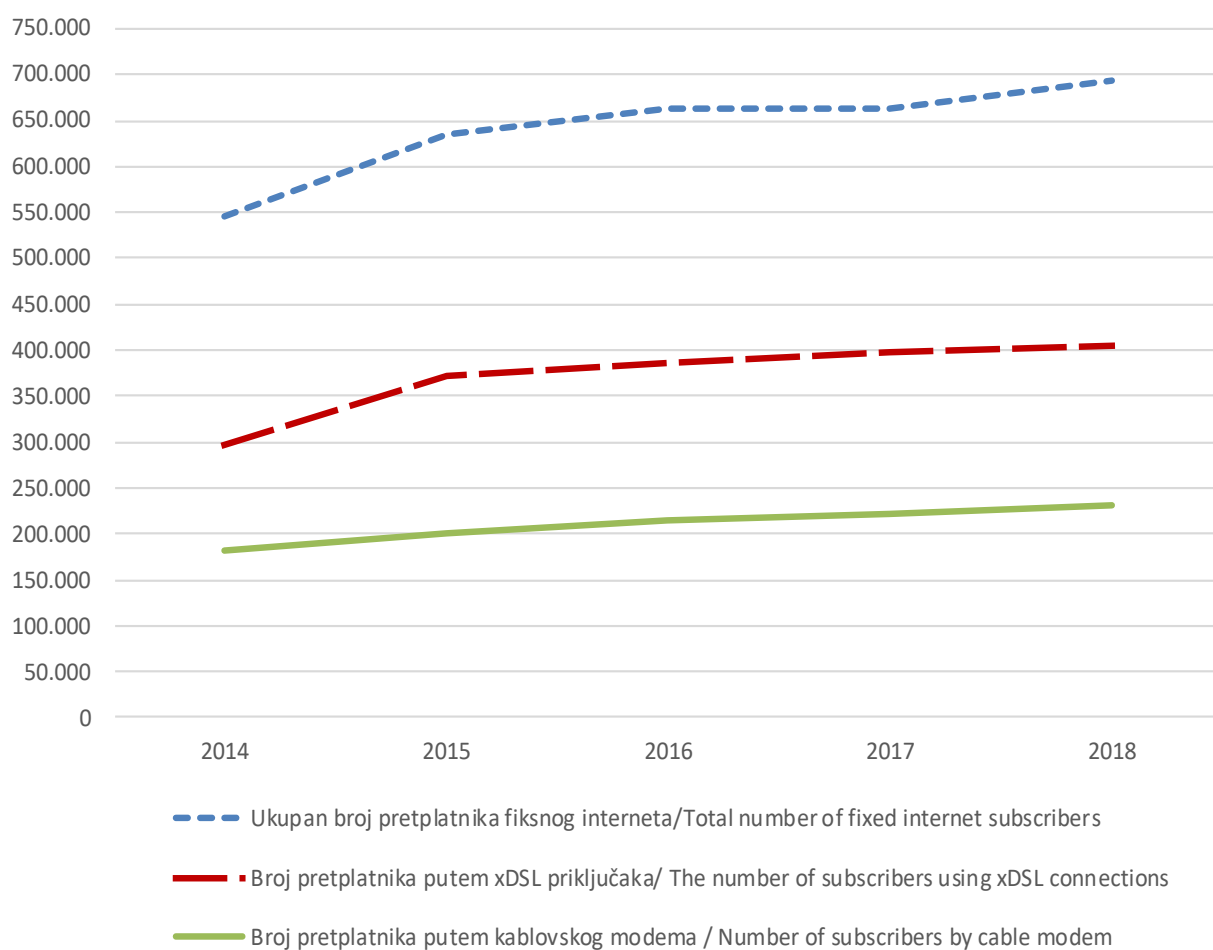
T.3 Fiksni internet

T.3 Fixed internet

	2018.	
Broj ISP-ova	67	Number of ISPs
Ukupan broj pretplatnika fiksnog interneta	693.873	Total number of fixed Internet subscribers
Broj dial up pretplatnika	319	Number of dial-up subscribers
Ukupan broj broadband pretplatnika fiksnog interneta	693.554	Total number of broadband subscribers
Broj pretplatnika putem xDSL priključka	404.795	The number of subscribers using xDSL connection
Broj pretplatnika putem kablovskog modema	230.028	Number of subscribers by cable modem
Broj pretplatnika putem FWA (fiksni bežični pristup) priključka	40.719	Number of subscribers by FWA (fixed wireless) connection
Broj pretplatnika putem iznajmljenih linija	1.036	The number of subscribers via leased lines
Broj pretplatnika putem FTTH priključka	16.691	The number of subscribers via FTTH connection
Broj pretplatnika putem ostalih tehnologija	285	The number of subscribers using other technologies

G.10. Fiksni internet

G.10. Fixed internet



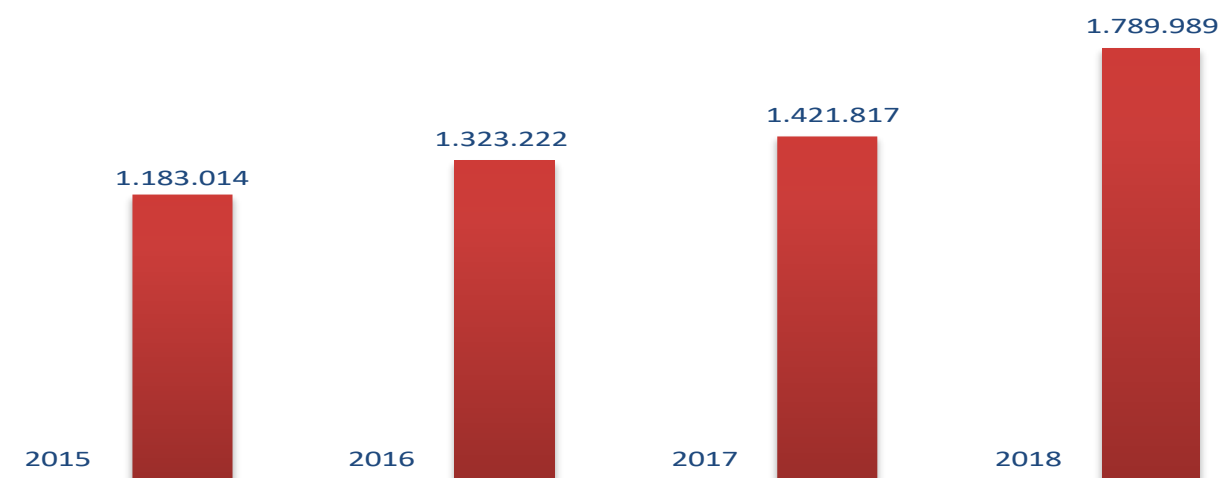
T.4. Mobilni internet

T.4. Mobile internet

2018		
Broj pretplatnika mobilnog interneta putem standardnog mobilnog širokopojasnog (broadband) pristupa	1.789.989	<i>The number of subscribers of mobile Internet via a standard mobile broadband access</i>
Broj pretplatnika mobilnog interneta putem namjenskog širokopojasnih (broadband) pristupa.	50.819	<i>The number of subscribers of mobile Internet via dedicated broadband access</i>

G.11. Broj pretplatnika mobilnog interneta putem standardnog mobilnog širokopojasnog (broadband) pristupa

G.11. The number of subscribers of mobile Internet via a standard mobile broadband access



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 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.

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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