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BROJ/ NUMBER 1

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INFORMATION SOCIETY

TELEKOMUNIKACIONA OPREMA, MREŽA I USLUGE, BIH, 2019.

TELECOMMUNICATIONS EQUIPMENT, NETWORK AND SERVICES, BIH, 2019.

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatera u 2019. godini iznosio je 652.502 što predstavlja pad od 10,5% u odnosu na 2018. godinu.

Total number of fixed telephone lines of dominant operators in 2019 was 583.729 which represents a decrease of 6,2% compared to the 2018 th year.

Ukupan broj vlastitih pretplatnika alternativnih oparatora u 2019. godini iznosio je 144.593, što pokazuje rast od 3,6% u odnosu na prethodnu godinu.

The total number of own subscribers of alternative operators in the year of 2019 was 144.593 which shows an increase of 3,6,% compared to previous year.

Ukupni saobraćaj fiksne telefonske mreže u 2019. godini iznosio je 1.153.251.033 minuta, što pokazuje pad od 16,6% u odnosu na 2018.

The total traffic of fixed telephone network in the year of 2019 was 1.153.251.033minutes which shows a decrease of 16,6% compared to 2018th.

Ukupni domaći odlazni saobraćaj alternativnih operatera u 2019. godini iznosio je 306.516.505 minuta, što pokazuje pad od 5,1% u odnosu na prethodnu godinu.

The total outgoing domestic traffic alternative operators in the year of 2019 was 306.516.505minutes which shows a decrease of 5,1% compared to previous year.

Broj pretplatnika mobilne mreže u 2019. godini iznosio je 3.755.521 i bilježi rast od 8,5%.

The number of mobile telephone subscribers in the year of 2019 was 3.755.521which shows a slight increase of 8,5%

Ukupni odlazni saobraćaj mobilne mreže u 2019. godini iznosio je 2.203.500.616, što pokazuje blagi rast od 0,2% u odnosu na prethodnu godinu.

The total traffic of mobile telephone network in the year of 2019 was 2.203.500.616 which shows a slight increase 0,2% compared to the previous year.

Broj poslanih SMS poruka u 2019. godini manji je za 8,1%, u odnosu na 2018. godinu.

Number of SMS messages sent in the 2019th year decreased by 8,1%, compared to the 2018th year

Ukupan broj pretplatnika fiksnog interneta u 2019. godini iznosio je 746.271.

Total number of fixed Internet subscribers in the year of 2019 was 746.271

Broj pretplatnika mobilnog interneta putem standardnog mobilnog širokopojasnog pristupa u 2019. godini iznosio je 1.544.760.

Number of subscribers of mobile Internet via a standard mobile broadband access in the year of 2019 was 1.544.760

TELEKOMUNIKACIONI INDIKATORI¹
TELECOMMUNICATION INDICATORS

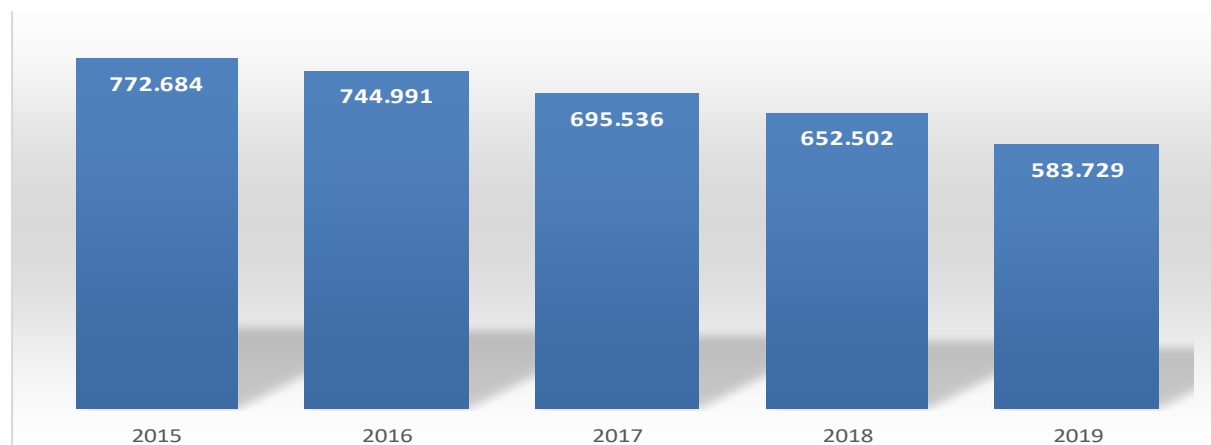
T. 1. Fiksna telefonska mreža

T.1. Fixed telephone network

	2019.	
Ukupan broj aktivnih fiksnih telefonskih linija incumbent operateraz	583.729	Total number of fixed telephone lines of Incumbent operators
Broj aktivnih analognih linija- PSTN linije	356.262	Number of active analog lines- PSTN lines
Broj ISDN linija izraženo u B kanalima	29.840	Number of ISDN lines (expressed in B channels)
Broj pretplata putem fiksne bežične petlje (CLL ili WLL)	13.341	CLL subscriptions
Broj pretplata IP telefonije	183.425	Number of IP telephone subscribers ³
Ukupan broj javnih telefonskih govornica	861	Number of public payphones
Broj linija pretplatnika fizičkih osoba	447.010	Number of main lines which are residential (analog and B channels)
Broj linija pretplatnika pravnih osoba	135.858	Number of main lines which are business (analog and B channels)
Broj alternativnih operatera fiksne telefonije ³	12	Total number of alternative operators
Ukupan broj vlastitih pretplatnika alternativnih operatera	144.593	Alternative operators -Number of Direct Access Subscribers
Ukupan broj pretplatnika alternativnih operatera sa indirektnim pristupom (CS- izbor operatera)	190	Alternative operators -Number of Indirect Access Subscribers (CPS, CS, etc.)
Ukupan broj prenesenih fiksnih brojeva sa 31.12. 2019. godine	88.321	The total number off transferred fixed numbers (with 31.12.2018 year)

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)

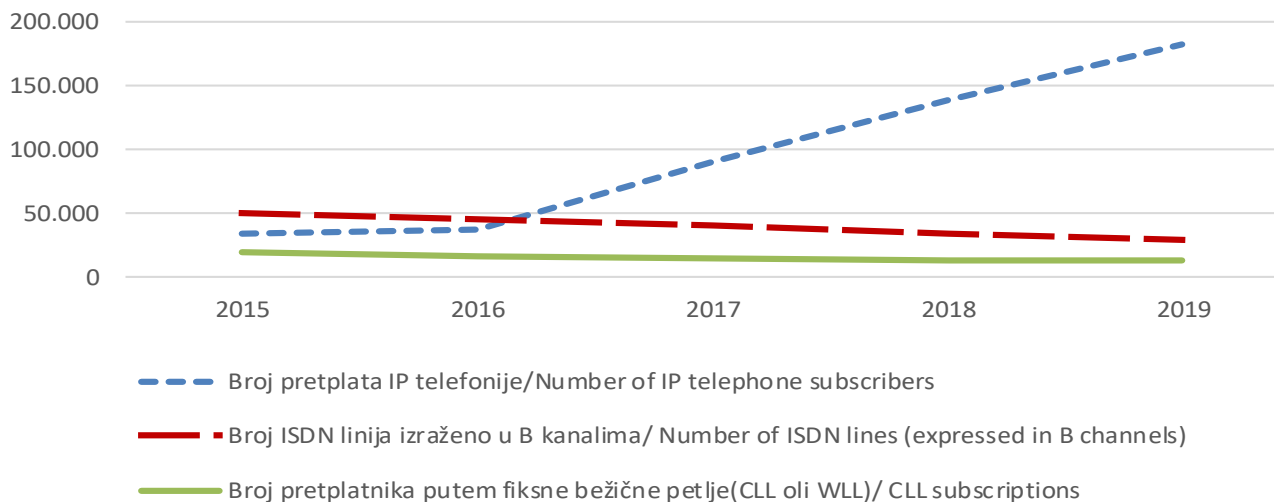
² Termin incumbent operatori se odnosi na operatore koji su prije liberalizacije tržišta imali državni (zakonski) monopol; u Bosni i Hercegovini su: BH Telecom, Telekom Srpske i HT Mostar.

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 davalaca 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

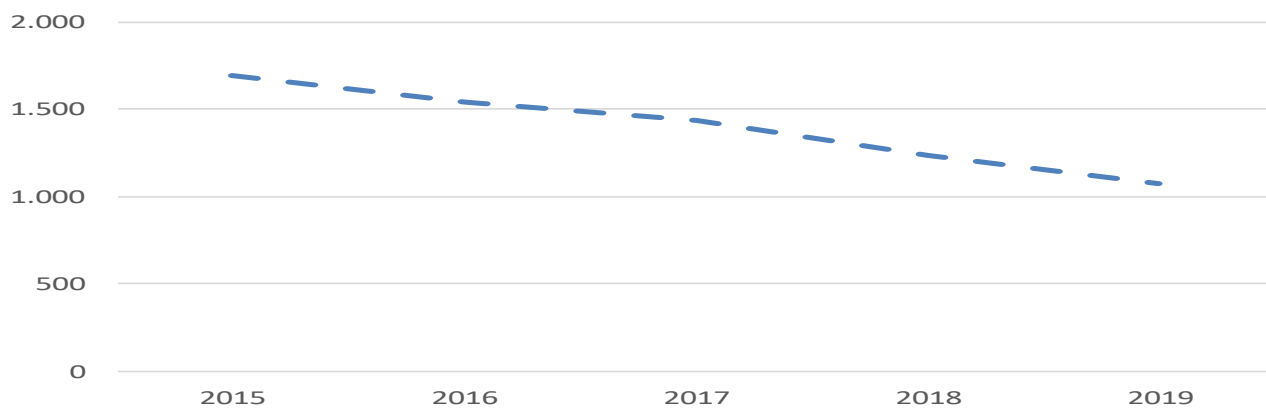
G.2. Fiksna telefonska mreža
G.2. Fixed telephone network



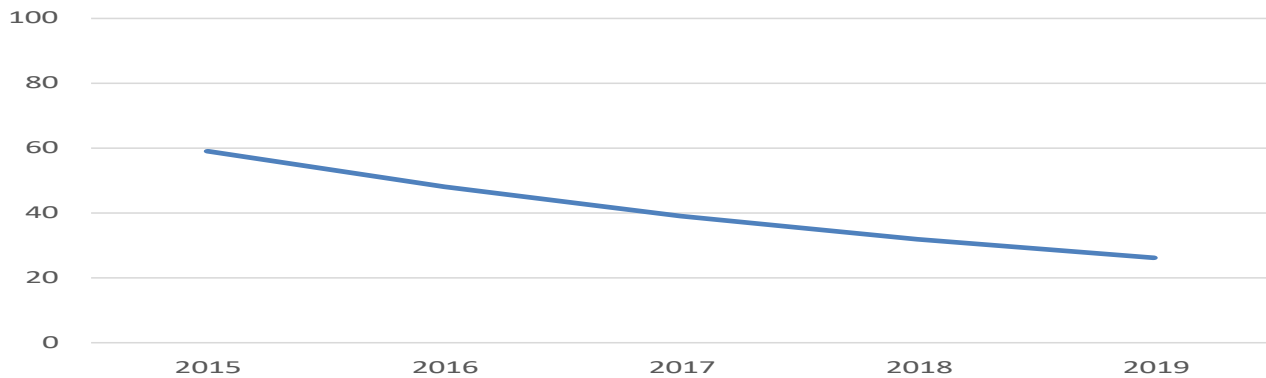
T.1.1. Saobraćaj ostvaren putem fiksne telefonske mreže, incumbent operatori
T.1.1 Traffic accomplished via fixed telephone network, Incumbent operators

	2019.	
Ukupan saobraćaj incumbent operatora (u minutama)	1.153.251.033	Total traffic incumbent operators (in minutes)
Ukupni domaći odlazni saobraćaj (u minutama)	1.073.711.043	Outgoing domestic traffic SMP operators (in minutes)
Odlazni lokalni i međumjesni saobraćaj unutar vlastite fiksne mreže (u minutama)	757.097.665	Outgoing local and trunk telephone traffic- traffic inside same network group (in minutes)
Odlazni saobraćaj prema drugim fiksним mrežama u BiH (u minutama)	151.365.370	Outgoing traffic to other fixed networks in BiH (in minutes)
Odlazni saobraćaj prema mobilnim mrežama u BiH (u minutama)	165.248.008	Outgoing traffic to mobile networks in BiH (in minutes)
Međunarodni odlazni telefonski saobraćaj (u minutama)	26.448.653	Interantional outgoing fixed telephone traffic (in minutes)
Međunarodni dolazni telefonski saobraćaj (u minutama)	53.091.337	Interantional incoming fixed telephone traffic (in minutes)
Dial-up internet saobraćaj (u minutama)	0	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)

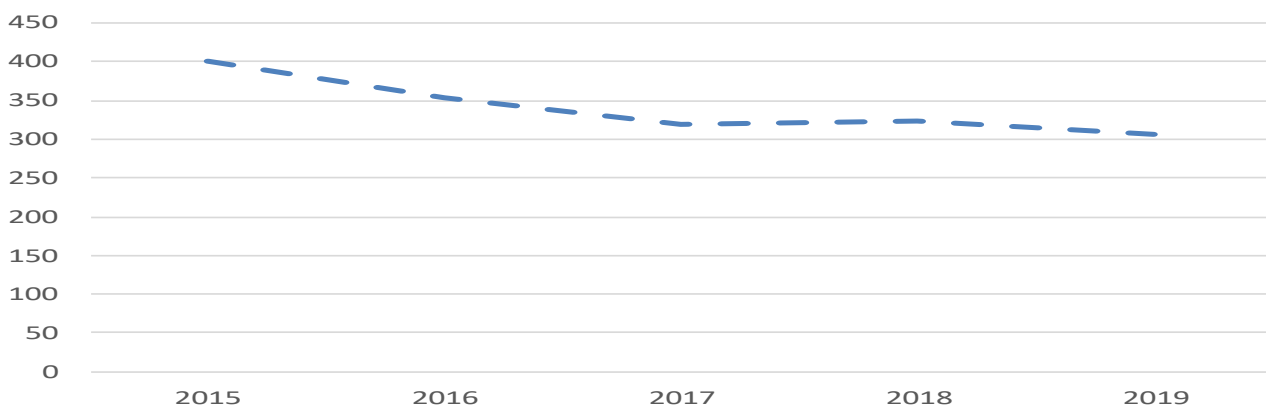


T.1.2. Saobraćaj (koji su ostvarili altenativni operatori)

T.1.2. Traffic(realised by alternative operators)

	2019.	
Ukupni domaći odlazni saobraćaj alternativnih operatora (u minutama)	306.516.505	Outgoing domestic traffic alternative operators (in minutes)
Međunarodni odlazni telefonski saobraćaj alternativnih operatora (u minutama) ⁴	5.348.206	International outgoing fixed telephone traffic alternative operators (in minutes) ⁵
Međunarodni dolazni telefonski saobraćaj alternativnih operatora (u minutama) ⁵	11.039.405	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)	36.193.803	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)	20.470.432	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)



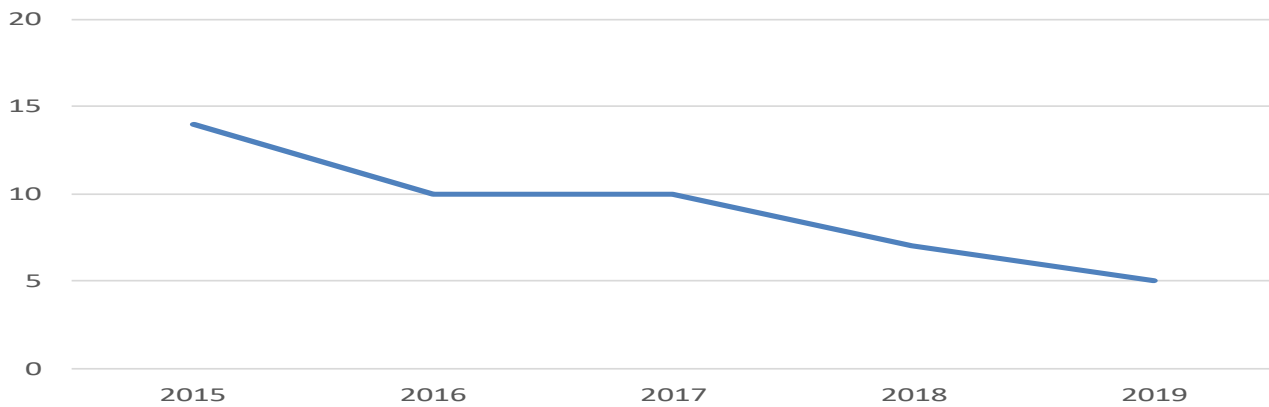
⁴ Saobraćaj vlastitih pretplatnika i pretplatnika koji koriste indirektni pristup (CS, CPS, telefonska kartica) koji se upućuje ka fiksnim i mobilnim mrežama u inostranstvu.

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

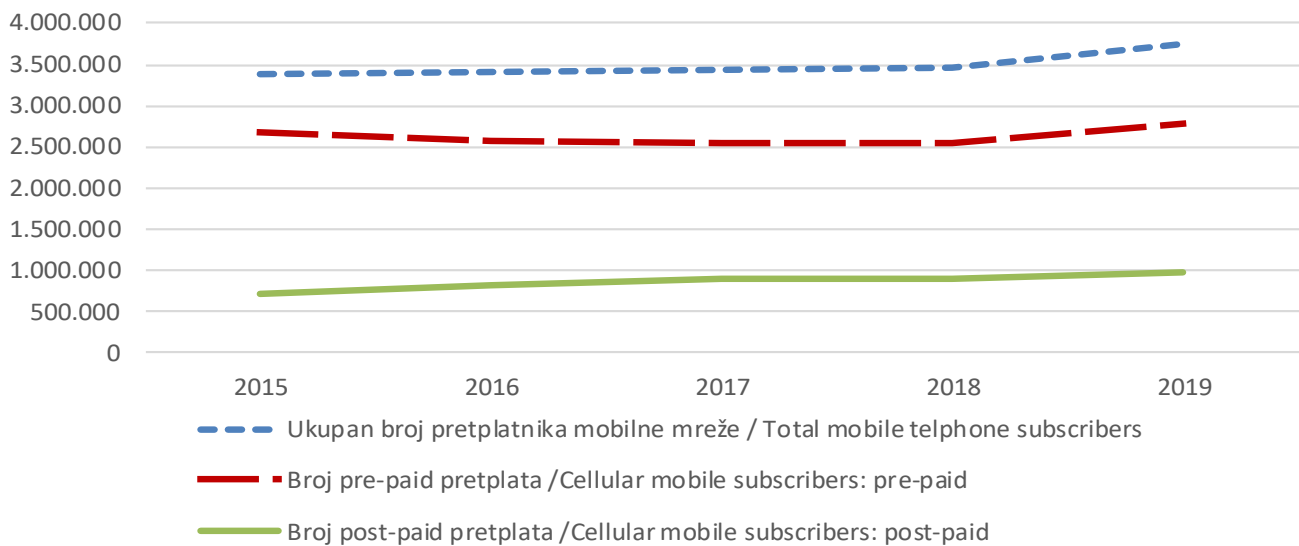
G.6. Ukupan međunarodni odlazni saobraćaj alternativnih operatora (u milionama minuta)
G.6. Total Interantional outgoing traffic alternative operators (in millions minutes)



T.2. Mobilna telefonska mreža
T.2. Mobile Telephone Network

	31.12.2019.	
Ukupan broj pretplatnika mobilne mreže	3.755.521	Total mobile telephone subscribers
Broj pre-paid pretplata	2.785.943	Cellular mobile subscribers: pre-paid
Broj post-paid pretplata	969.578	Cellular mobile subscribers: post-paid

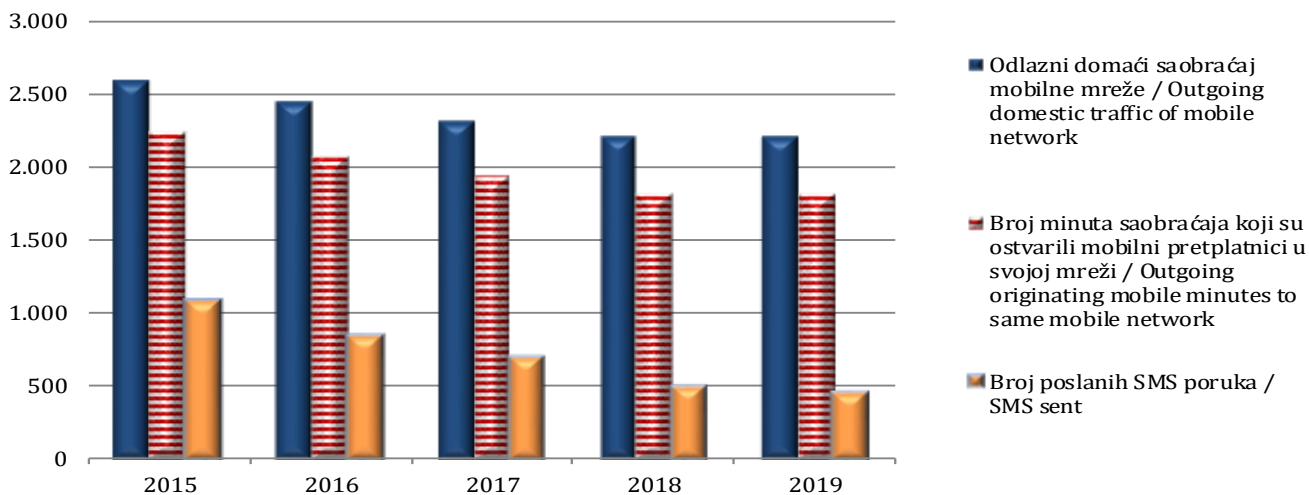
G.7. Ukupan broj pretplatnika mobilne mreže
G.7. Total mobile telephone subscribers



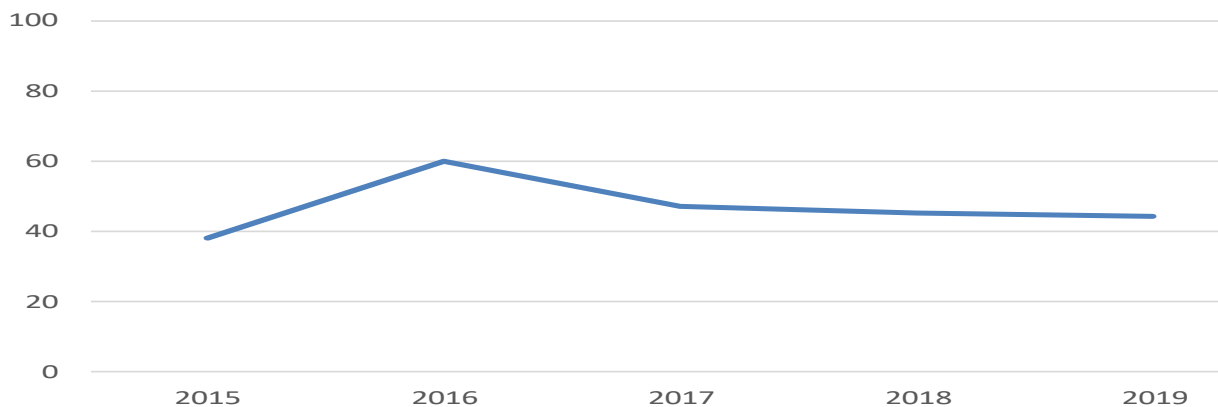
T.2.1. Saobraćaj ostvaren putem mobilne mreže
T.2.1. Traffic accomplished via mobile cellular network

	2019.	
Ukupni odlazni saobraćaj mobilne mreže u minutama (domaći saobraćaj), od toga:	2.203.500.616	Total Outgoing traffic of mobile network in minute (domestic traffic), of which:
Broj minuta saobraćaja koji su ostvarili mobilni pretplatnici u svojoj mreži	1.813.708.704	Outgoing/originating mobile minutes to same mobile network.
Broj minuta saobraćaja koji su ostvarili mobilni pretplatnici prema drugim mobilnim mrežama u BiH	231.993.549	Outgoing/originating mobile minutes to other mobile networks in BiH.
Broj minuta saobraćaja mobilna - fiksna	157.798.363	Outgoing mobile minutes to fixed networks
Međunarodni odlazni saobraćaj (u minutama)	44.266.506	International outgoing mobile traffic (in minutes)
Međunarodni dolazni saobraćaj (u minutama)	120.838.098	International incoming mobile traffic (in minutes)
Broj poslanih SMS poruka	455.703.472	SMS sent
Broj poslanih MMS poruka	1.119.917	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)



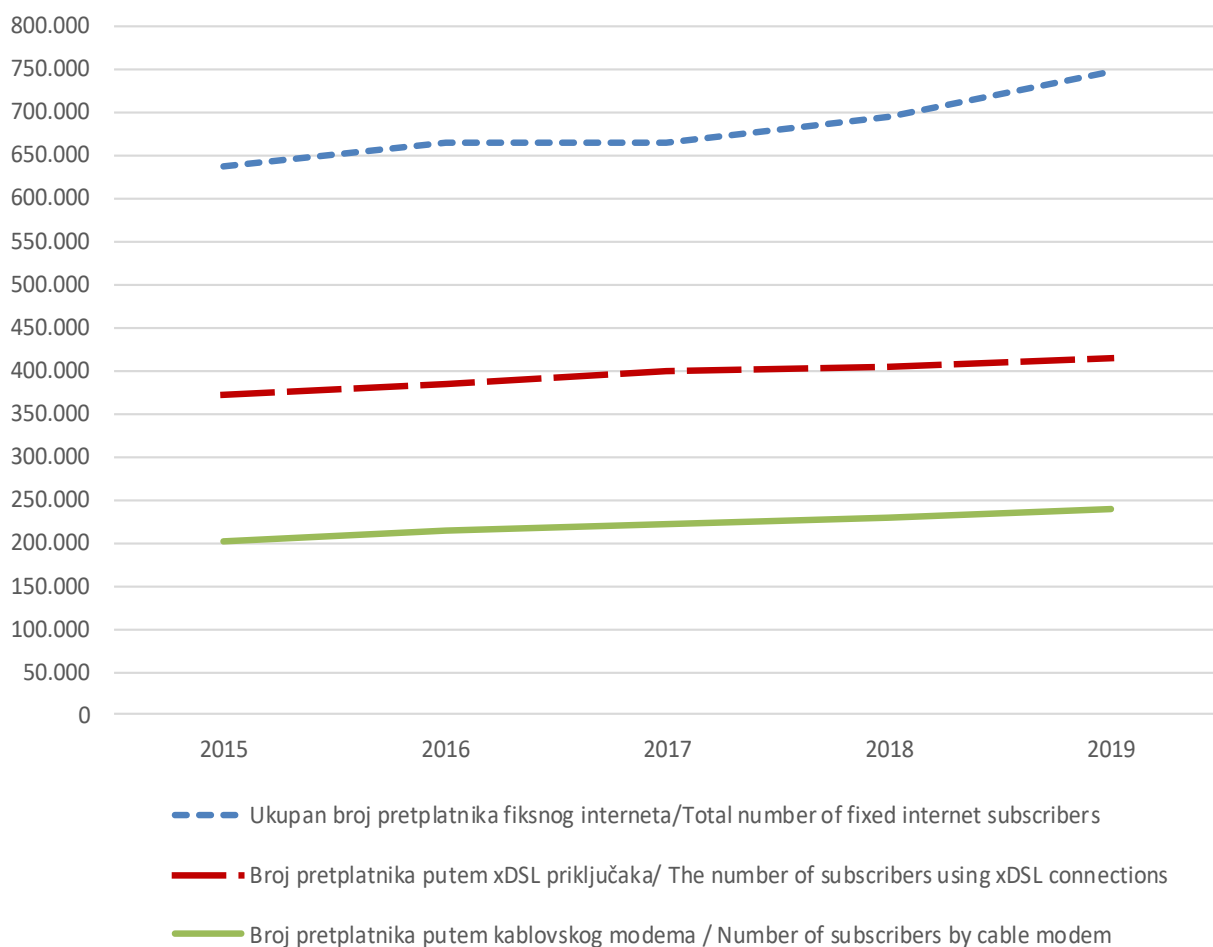
T.3 Fiksni internet

T.3 Fixed internet

	2019.	
Broj ISP-ova	65	<i>Number of ISPs</i>
Ukupan broj pretplatnika fiksnog interneta	746.271	Total number of fixed Internet subscribers
Broj dial up pretplatnika	384	<i>Number of dial-up subscribers</i>
Ukupan broj broadband pretplatnika fiksnog interneta	745.887	<i>Total number of broadband subscribers</i>
Broj pretplatnika putem xDSL priključka	413.902	<i>The number of subscribers using xDSL connection</i>
Broj pretplatnika putem kablovskog modema	239.551	<i>Number of subscribers by cable modem</i>
Broj pretplatnika putem FWA (fiksni bežični pristup) priključka	60.936	<i>Number of subscribers by FWA (fixed wireless) connection</i>
Broj pretplatnika putem iznajmljenih linija	980	<i>The number of subscribers via leased lines</i>
Broj pretplatnika putem FTTH priključka	30.231	<i>The number of subscribers via FTTH connection</i>
Broj pretplatnika putem ostalih tehnologija	287	<i>The number of subscribers using other technologies</i>

G.10. Fiksni internet

G.10. Fixed internet



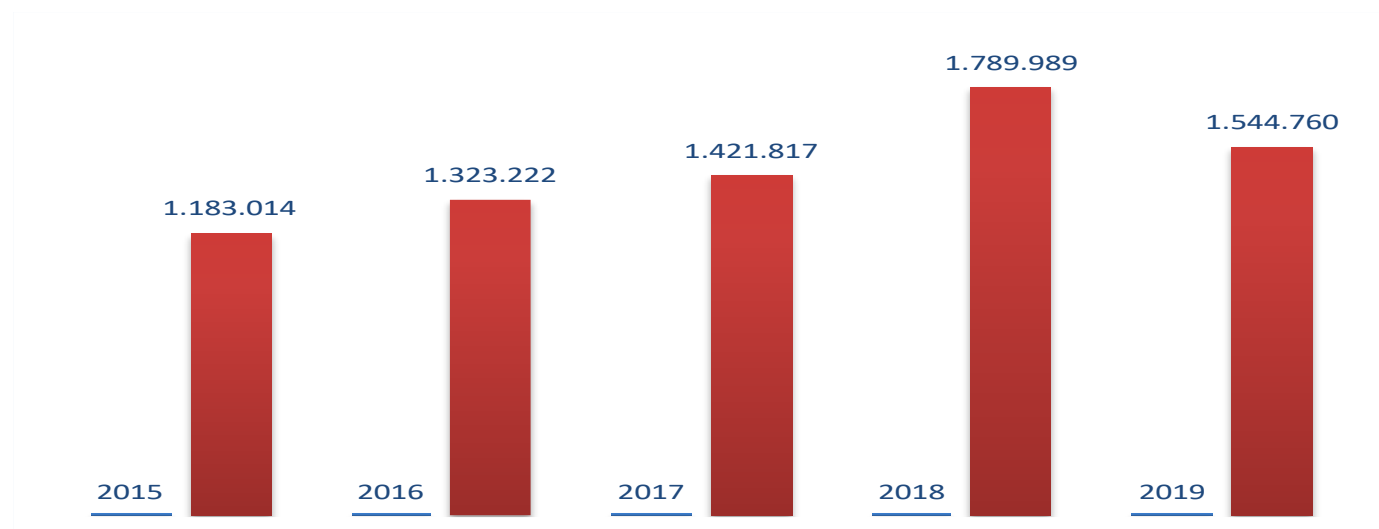
T.4. Mobilni internet

T.4. Mobile internet

2019.		
Broj pretplatnika mobilnog interneta putem standardnog mobilnog širokopojasnog (broadband) pristupa	1.544.760	<i>The number of subscribers of mobile Internet via a standard mobile broadband access</i>
Broj pretplatnika mobilnog interneta putem namjenskog širokopojasnih (broadband) pristupa	15.643	<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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