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INFORMATION SOCIETY

ELEKTRONSKE KOMUNIKACIJE, treći kvartal 2023.

ELECTRONIC COMMUNICATIONS, third quarter 2023

Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatera u trećem kvartalu 2023. godine iznosio je 482 178 što predstavlja pad od 7,0% u odnosu na treći kvartal 2022. godine.

Total number of fixed telephone lines of dominant operators in the third quarter 2023 was 482 178 which represents a decrease of 7.0% compared to the third quarter 2022.

Ukupni odlazni saobraćaj fiksne telefonske mreže u trećem kvartalu 2023. godine iznosio je 228 079 946 minuta, što pokazuje pad od 16,9% u odnosu na treći kvartal 2022. godine.

The total traffic of fixed telephone network in the third quarter 2023 was 228 079 946 minutes which shows a decrease of 16.9% compared to the third quarter 2022.

Broj korisnika mobilne mreže u trećem kvartalu 2023. godine iznosio je 3 875 782 i bilježi pad od 1,1% u odnosu na treći kvartal 2022. godine. Ukupni odlazni saobraćaj mobilne mreže u trećem kvartalu 2023. godine iznosio je 638 935 327 minuta, što pokazuje pad od 5,6% u odnosu na treći kvartal 2022. godine.

Number of mobile phone users in the third quarter 2023 was 3 875 782 which shows an decrease of 1.1% compared to the third quarter 2022. The total traffic of mobile telephone network in the third quarter of 2023 was 638 935 327 minutes which shows an decrease of 5.6% compared to the third quarter of 2022.

Broj poslanih SMS poruka u trećem kvartalu 2023. godine manji je za 7,0%, broj poslanih MMS poruka manji je za 8,6% u odnosu na treći kvartal 2022. godine.

Number of SMS messages sent in the third quarter 2023 decreased by 7.0%, while the number of MMS messages sent decreased by 8.6%, compared to the third quarter 2022.

Ukupan broj internet priključaka putem fiksne mreže u trećem kvartalu 2023. godine iznosio 900 617 i bilježi rast od 9,5% u odnosu na treći kvartal 2022. godine.

The total number of Internet connections via the fixed network in the third quarter of 2023 was 900 617 which shows an increase of 9.5% compared to the third quarter 2022.

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 2023 II 2023	III 2023 III 2022	
	2021.	2022.	2023.	2023.	Indeksi/Indices		
Ukupan broj aktivnih fiksnih telefonskih linija dominantnih operatera	548 521	518 446	490 874	482 178	98,2	93,0	Total number of fixed telephone lines of dominant operators
Broj novih operatera fiksne telefonije	14	14	12	10	83,3	71,4	The number of new fixed telephony operator
Ukupan broj vlastitih pretplatnika novih operatera	145 560	145 586	143 270	142 351	99,4	97,8	The total number of own subscribers to new operators
Ukupan broj pretplatnika novih operatera sa indirektnim pristupom	242	186	157	173	110,2	93,0	Alternative operators - Number of Indirect Access Subscribers
Ukupan broj prenesenih brojeva	98 013	104 912	107 266	107 990	100,7	102,9	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

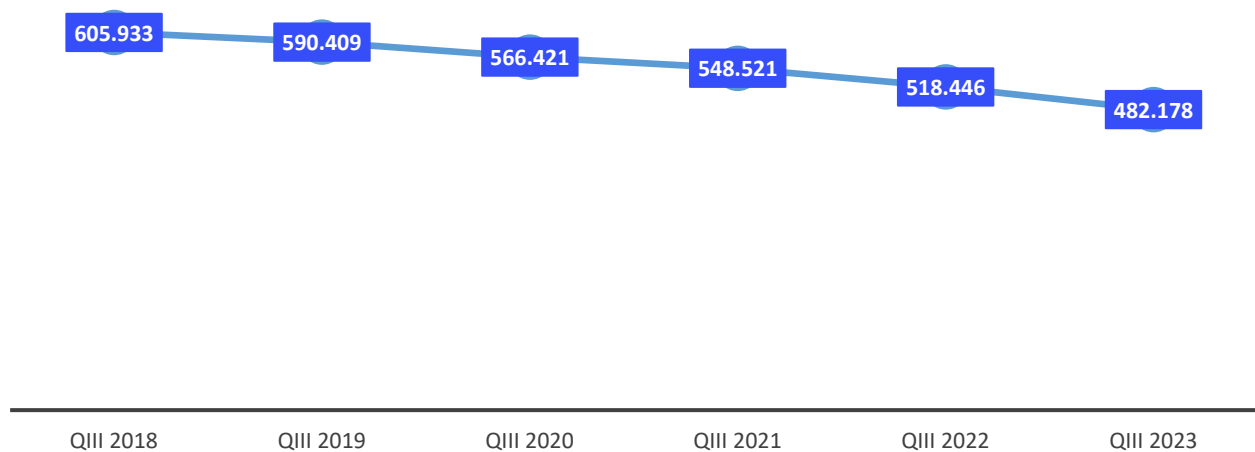


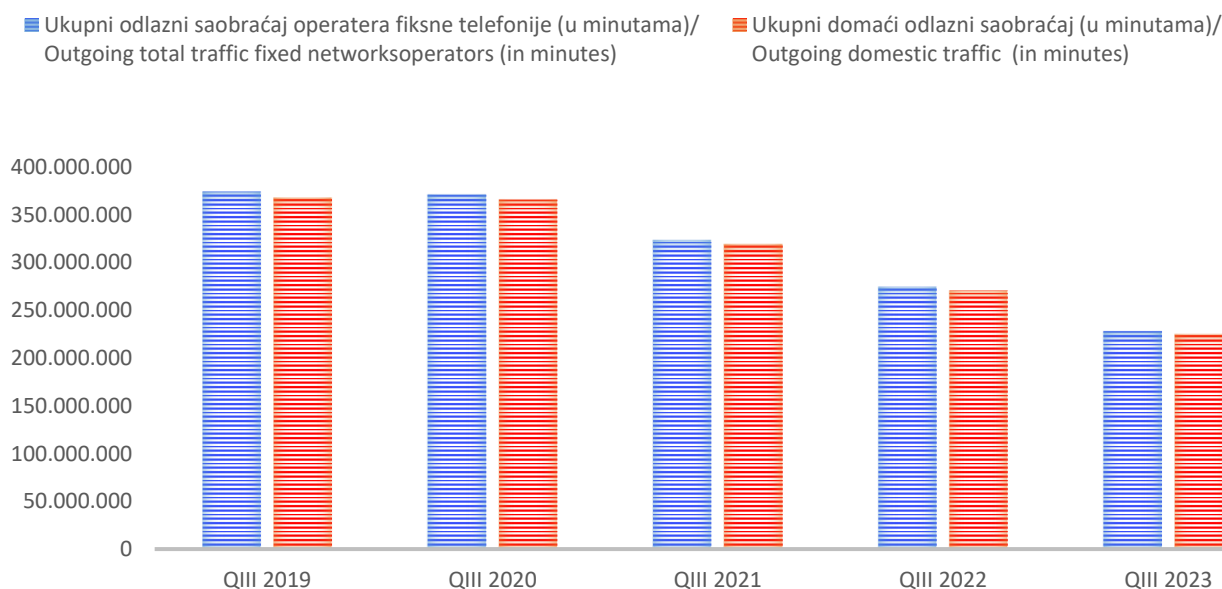
Tabela 1.2. Odlazni saobraćaj operatera fiksne telefonije*Table 1.2 Outgoing traffic fixed - line operator*

Odlazni saobraćaj operatera u minutama	III Kvartal/ <i>quarter</i>	III Kvartal/ <i>quarter</i>	III Kvartal/ <i>quarter</i>	II Kvartal/ <i>quarter</i>	III Kvartal/ <i>quarter</i>	<i>Outgoing traffic operators in minutes</i>
	2020.	2021.	2022.	2023.	2023.	
Ukupno odlazni saobraćaj operatera fiksne telefonije	371 264 377	323 513 152	274 610 383	247 473 162	228 079 946	<i>Outgoing total traffic fixed Networks operators</i>
Ukupni domaći odlazni saobraćaj	365 656 116	319 049 715	270 737 596	244 624 636	225 215 032	<i>Outgoing domestic traffic</i>
Ukupni međunarodni odlazni telefonski saobraćaj	5 608 261	4 463 437	3 872 787	2 848 526	2 864 914	<i>International outgoing fixed telephone traffic</i>

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

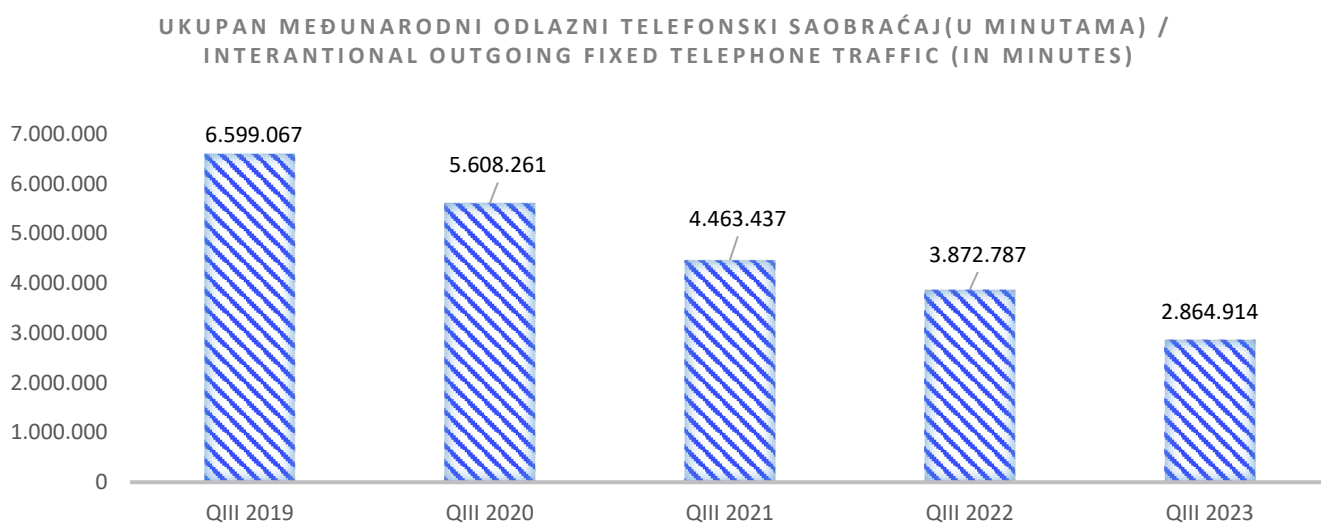
Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Indeksi po indikatorima odlaznog saobraćaja operatera fiksne telefonije	<u>III 2023</u> III 2021	<u>III 2023</u> III 2022	<u>III 2023</u> II 2023	<i>Indicies by indicators outgoing traffic fixed-line operator</i>
	Ukupno odlazni saobraćaj operatera fiksne telefonije	70,5	83,1	
Ukupni domaći odlazni saobraćaj	70,6	83,2	92,1	<i>Outgoing domestic traffic</i>
Ukupni međunarodni odlazni telefonski saobraćaj	64,2	74,0	100,6	<i>International outgoing fixed telephone traffic</i>

Grafikon 1.2. Saobraćaj ostvaren putem fiksne telefonske mreže*Graph 1.2 Traffic accomplished via fixed telephone network*

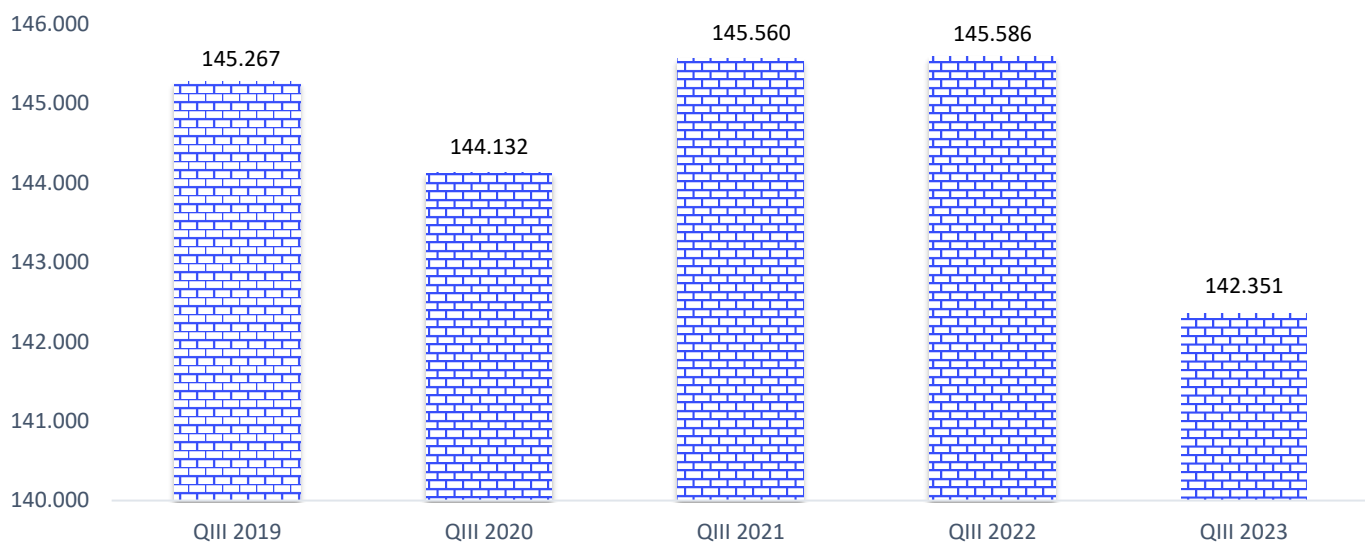
Grafikon 1.2.1 Saobraćaj ostvaren putem fiksne telefonske mreže

Graph 1.2 Traffic accomplished via fixed telephone network



Grafikon 1.3. Ukupan broj vlastitih pretplatnika novih operatera

Graph 1.3 Alternative operators- Total number of direct access subscriber



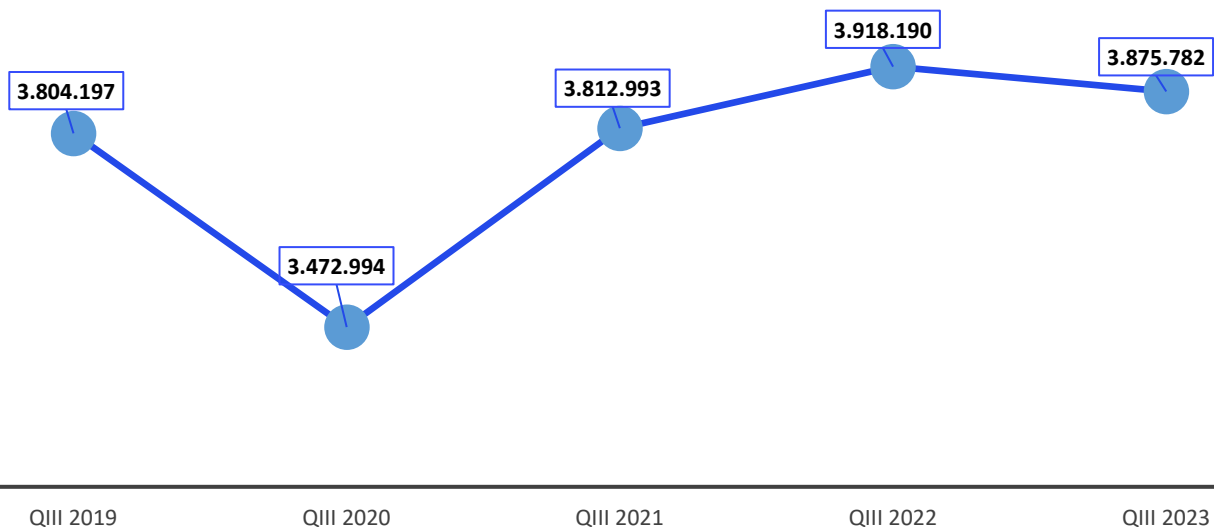
2. MOBILNA TELEFONSKA MREŽA

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

	III Kvartal quarter 2021.	III Kvartal quarter 2022.	II Kvartal quarter 2023.	III Kvartal quarter 2023.	III 2023	III 2023	
					II 2023	III 2022	
					Indeksi/Indices		
Ukupan broj korisnika mobilne mreže	3 812 993	3 918 190	3 711 819	3 875 782	104,4	98,9	Total number of mobile network users
Penetracija mobilne telefonije	109,73%	113,47%	107,50%	112,86%	105,0	99,5	Penetration of mobile telephony
Ukupan broj prenesenih brojeva	101 889	116 383	129 415	136 562	105,5	117,3	The total number of transferred numbers
Ukupan odlazni saobraćaj operatora mobilne telefonije (minutama)	665 897 287	676 715 304	669 536 239	638 935 327	95,4	94,4	Total outgoing traffic of mobile operators (in minutes)
Broj poslatih SMS poruka	89 853 140	75 123 652	74 586 841	69 882 981	93,7	93,0	SMS sent
Broj poslatih MMS poruka	356 933	361 377	349 063	330 285	94,6	91,4	MMS sent

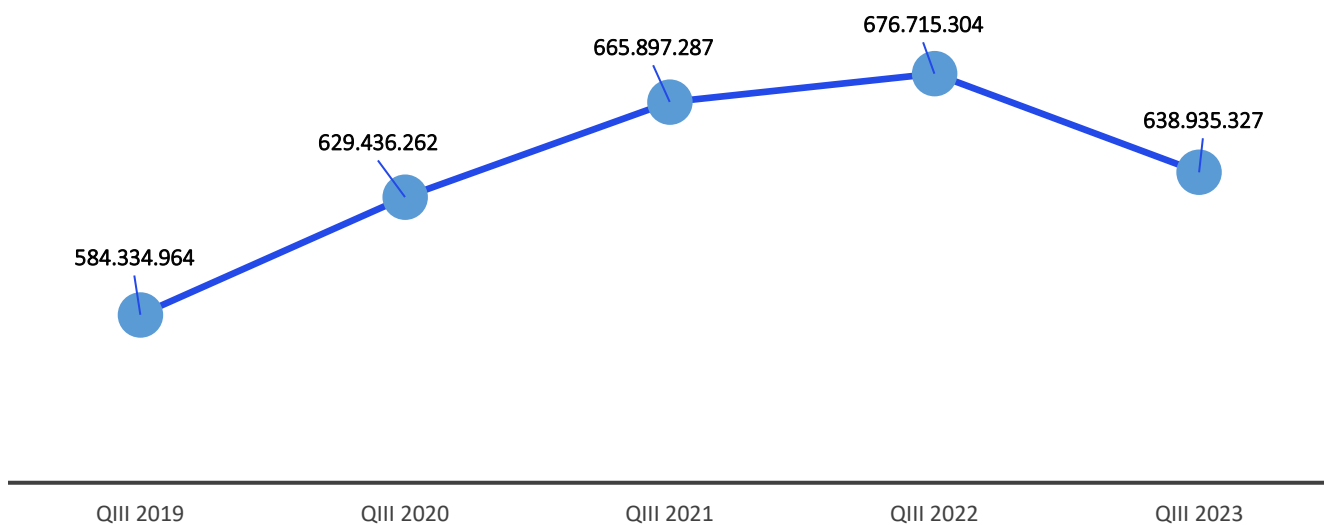
Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)
Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Grafikon 2.1. Broj korisnika telefonskih usluga u mobilnoj telefoniji
Graph 2.1 Number of users of telephone services in mobile telephony



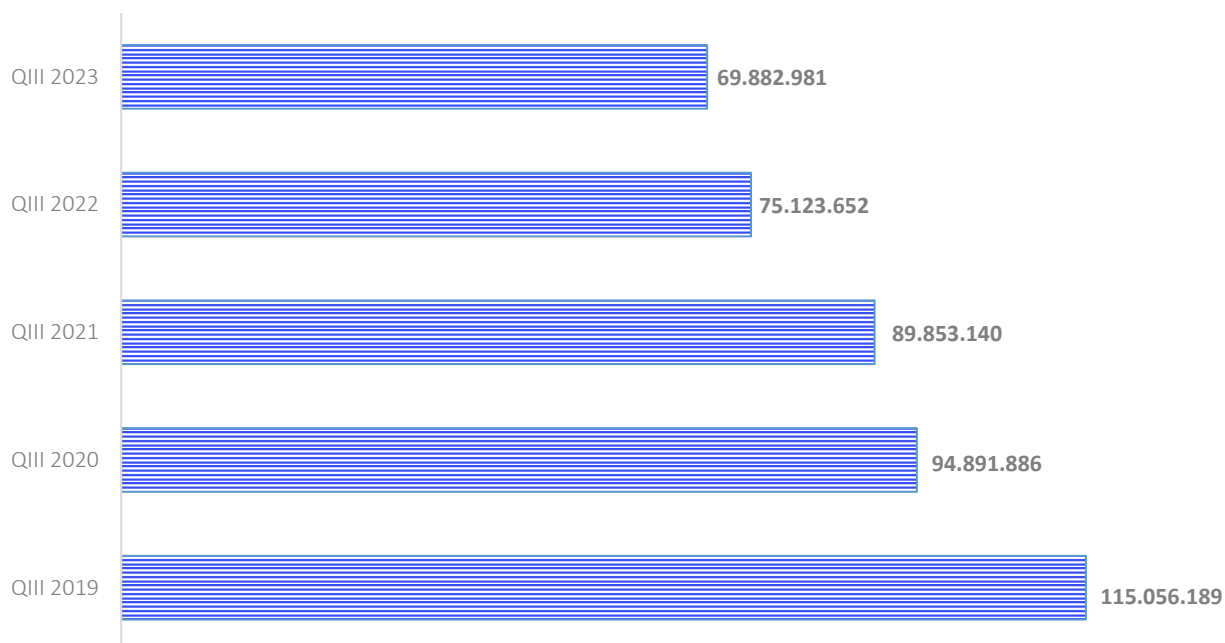
Grafikon 2.2. Odlazni saobraćaj mobilne telefonije (u minutama)

Graph 2.2 Outgoing traffic of mobile operators (in minutes)



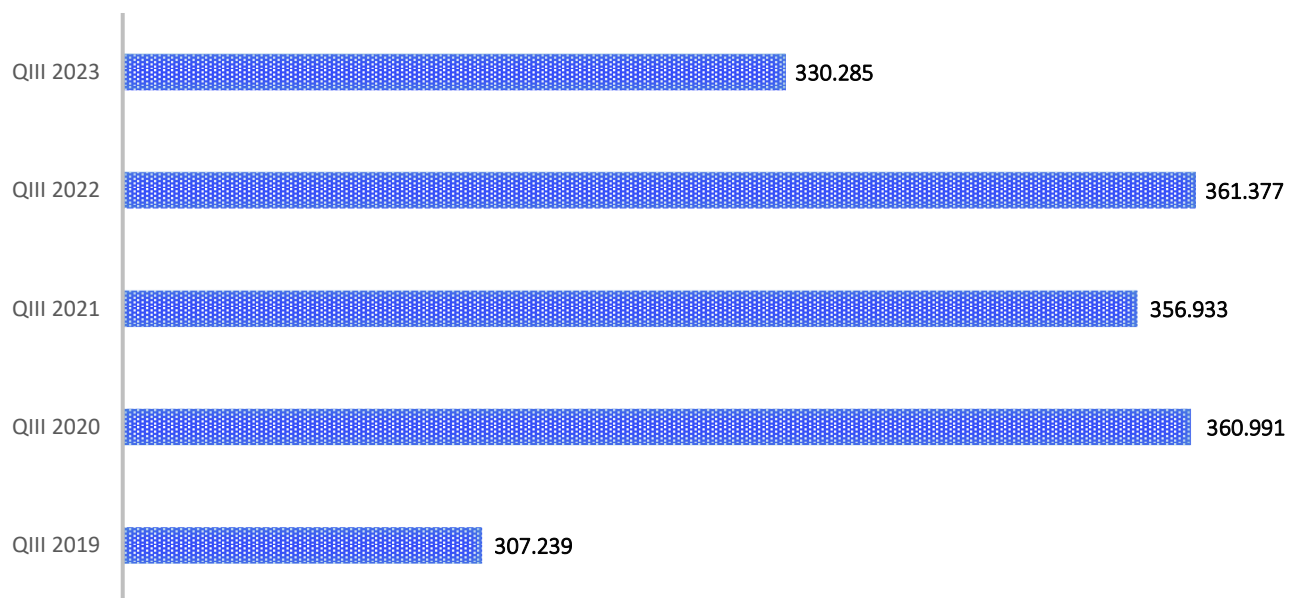
Grafikon 2.3. Broj poslatih SMS poruka

Graph 2.3 SMS sent



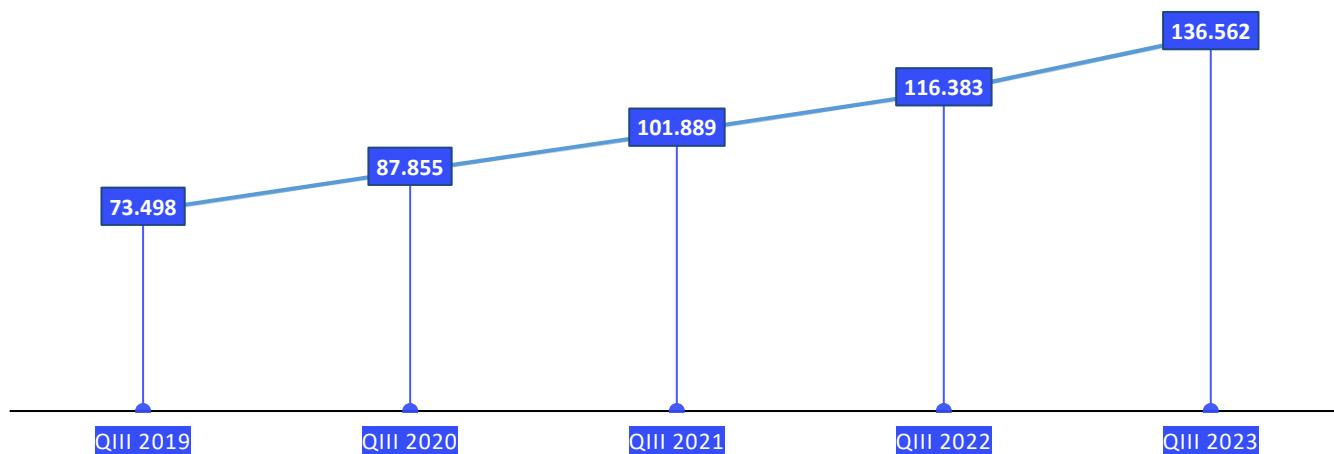
Grafikon 2.4. Broj poslatih MMS poruka

Graph 2.4 MMS sent



Grafikon 2.5. Ukupan broj prenesenih brojeva

Graph 2.5 The total number of transferred numbers



3. PRISTUP INTERNETU

Tabela 3. Pristup internetu

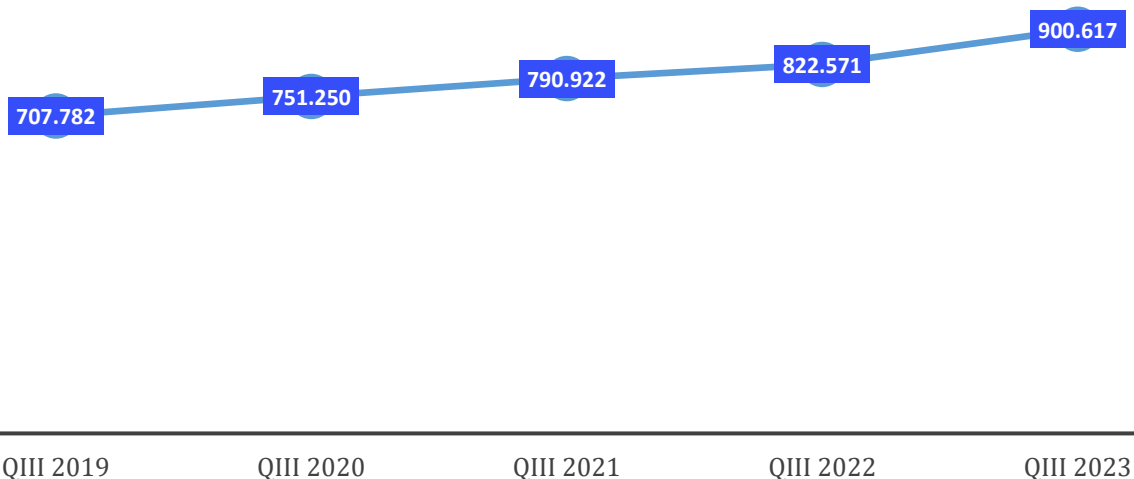
Table 3 Internet access

	III Kvartal quarter	III Kvartal quarter	II Kvartal quarter	III Kvartal quarter	III 2023 II 2023	III 2023 III 2022	
	2021.	2022.	2023.	2023.	Indeksi/Indicies		
Ukupan broj priključaka širokopojsnog pristupa internetu putem fiksne mreže	790 922	822 571	875 189	900 617	102,9	109,5	<i>Total number of broadband subscribers</i>
Broj xDSL priključaka	415 736	419 517	447 438	455 103	101,7	108,5	<i>Number of subscribers using xDSL connection</i>
Broj priključaka putem kablovske mreže	263 973	269 904	269 269	270 666	100,5	100,3	<i>Number of subscribers by cable network</i>
Broj priključaka fiksni bežični pristup	54 356	62 757	63 027	64 629	102,5	103,0	<i>Number of subscribers fixed wireless connection</i>
Broj priključaka putem iznajmljene linije	1 662	2 254	2 075	2 072	99,9	91,9	<i>Number of subscribers via leased lines</i>
Broj priključaka FTTx	55 179	68 116	103 357	108 124	104,6	158,7	<i>Number of subscribers via FTTx connection</i>
Broj priključaka putem ostalih tehnologija	16	16	16	16	100,0	100,0	<i>Number of subscribers using other technologies</i>
Stopa penetracije korisnika interneta putem fiksne mreže	97,14%	101,56%	112,14%	114,65%	102,2	112,9	<i>Penetration rate of Internet users via the fixed network</i>

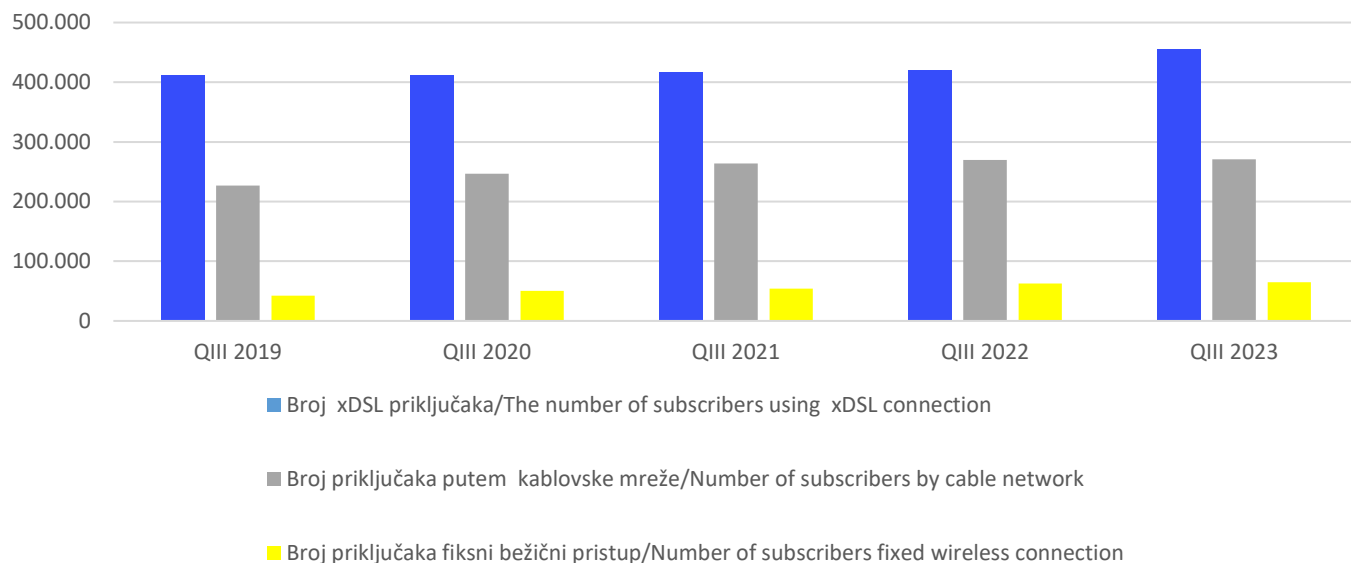
Izvor podataka: Regulatorna agencija za komunikacije Bosne i Hercegovine (RAK BiH)
Data source: Communication Regulatory Agency of Bosnia and Herzegovina (CRA BiH)

Grafikon 3.1 Ukupan broj priključaka širokopojsnog pristupa internetu putem fiksne mreže

Graph 3.1 Total number of broadband access connections via the fixed network



Grafikon 3.2. Tip priključaka pristupa internetu putem fiksne mreže
Graph 3.2 Type connectors of Internet access connections via the fixed network



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 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 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).

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