The report is based on data regularly collected from all operators in the Croatian electronic communications market. In certain cases HAKOM cannot observe irregularities in reports/data until several consequent periods are compared. As a result, HAKOM emphasises that minor discrepancies from actual data are possible.

HAKOM does not assume the responsibility for the quality of data reports delivered by the operators.

Fixed telephony services	Q3 2023	quarterly change Q3 2023 – Q2 2023	annual change Q3 2023 — Q3 2022
Total fixed telephony services revenue (EUR)	30.869.256	-0,22%	-10,28%
Retail revenue	28.705.632	-0,10%	-6,01%
Wholesale revenue	2.163.623	-1,76%	-44,04%
Total number of fixed lines	1.211.964	-0,62%	-2,80%
Number of subscribers <sup>1</sup>	1.122.383	-0,63%	-2,41%
CPS subscribers	20.105	-2,08%	-36,55%
Fixed originating voice minutes2 (min)	246.061.099	-9,95%	-16,80%
Stand-alone – fixed voice telephony subscribers	173.497	-2,82%	-12,04%
Number of bundled services subscribers – 2D	247.041	1,98%	-0,58%
Number of bundled services subscribers – 3D	362.673	-0,01%	-1,92%
Number of bundled services subscribers – 4D	241.460	-0,88%	4,68%

<sup>2</sup> includes all types of calls (local, national, international calls, calls to mobile networks and calls to VAS numbers)

<sup>&</sup>lt;sup>1</sup> CPS (carrier pre-selection) subscribers are included

Mobile telephony services	Q3 2023	quarterly change Q3 2023–Q2 2023	annual change Q3 2023 — Q3 2022
Total mobile telephony services revenue (EUR)	147.917.743	14,40%	10,38%
Retail revenue	121.409.808	7,39%	14,15%
Ratail revenue - Residential	90.264.858	8,89%	10,94%
Prepaid subscribers	23.781.647	10,52%	1,06%
Postpaid subscribers	66.483.212	8,31%	14,96%
Retail revenue - Business	31.144.950	3,29%	24,61%
Wholesale revenue	26.507.935	63,15%	-4,12%
Total number of active subscribers (3G, 4G, 5G) <sup>3</sup>	4.713.219	3,31%	1,47%
Residential	3.892.089	3,81%	0,96%
Prepaid subscribers	1.715.564	6,66%	-6,07%
Postpaid subscribers	2.176.525	1,68%	7,29%
Business	821.130	0,98%	3,96%
Mobile penetration <sup>4</sup>	121,73%	3,31%	1,47%
Mobile originating voice minutes <sup>5</sup> (min)	2.661.091.279	-4,17%	-2,98%
International <i>roaming</i> traffic – own subscribers (min)	124.809.439	-9,32%	-9,92%
International roaming traffic – foreign subscribers (min)	491.178.664	130,25%	6,95%
Total SMS sent	224.889.630	-2,40%	-13,02%
Total MMS sent	1.546.249	1,40%	-1,84%

<sup>&</sup>lt;sup>3</sup> Definition of active pre-paid subscriber: Subscriber who has used a mobile service or refilled the account in the last 90 days

<sup>&</sup>lt;sup>4</sup> Mobile penetration has been calculated according to the last census of population from 2021

Internet access services – retail level	Q3 2023	quarterly change Q3 2023 – Q2 2023	annual change Q3 2023 – Q3 2022
Total access services revenue (EUR)	188.580.423	-2,95%	7,44%
Fixed broadband revenue	54.760.706	-23,48%	3,99%
Mobile broadband revenue	133.617.097	8,97%	8,81%
Satellite access revenue	202.620	68,84%	216,84%
Total number of broadband subscriptions (lines)	6.737.273	3,07%	5,68%
Fixed broadband subscriptions (lines)	1.097.732	0,66%	2,56%
Copper access network	639.283	-1,31%	-5.18%
Access over own copper access network	436.550	-0,62%	-1,44 %
xDSL based broadband using full local-loop unbundling	42.180	-4,65%	-28,59%
xDSL based broadband using shared access	2	0%	0%
Bitstream access over copper access network (xDSL)	160.551	-2,27%	-6,77%
Fiber optic access network	232.599	7,77%	32,93%
Accesss over own fiber access network	181.814	6,75%	30,54%
Fiber unbundling access	15.208	3,11%	22,10%
Bitstream access over fiber optic access network	35.577	6,68%	54,09%
Cable access network	174.420	-1,08%	-1,47%
Fixed wireless access (FWA)	36.242	2,09%	9,32%
Satellite access	1.684	29,64%	353,91%
High Quality Access	13.504	5,27%	27,85%

<sup>5</sup> includes all types of calls (local, national, international calls, calls to mobile networks and calls to VAS numbers)

Mobile broadband subscriptions (3G, 4G, 5G etc)	5.639.541	3,57%	6,31%
Residential (3G and 4G)	3.677.553	1,43%	-4,80%
Dedicated data subscriptions (cards/modems/keys etc.)	217.438	27,98%	32,42%
Mobile phones <sup>6</sup>	3.252.667	0,35%	-6,59%
M2M	2	-33,33%	-50,00%
Broadband access at fixed location via mobile network	207.446	-3,36%	-4,19%
<u>Residential(5G)</u>	658.691	25,32%	168,32%
Dedicated data subscriptions (cards/modems/keys etc.)	11.019	157,75%	903,55%
Mobile phones	639.422	24,33%	164,84%
M2M	0	-	-
Broadband access at fixed location via mobile network	8.250	16,77%	179,76%
Business (3G and 4G)	1.137.715	-1,06%	0,93%
Dedicated data subscriptions (cards/modems/keys etc.)	134.923	1,20%	1,20%
Mobile phones	687.022	-1,63%	1,91%
M2M	263.729	-0,81%	-3,33%
Broadband access at fixed location via mobile network	52.041	-0,52%	10,76%
Business (5G)	165.582	15,26%	139,51%
Dedicated data subscriptions (cards/modems/keys etc.)	10.666	10,70%	170,37%
Mobile phones	134.109	16,82%	134,78%
M2M	19.312	7,75%	157,15%
Broadband access at fixed location via mobile network	1.495	15,00%	167,92%
xDSL with hybrid service	96.838	-1,76%	-5,88%

<sup>6</sup> Number of subscribers which have made an internet mobile connection in the last 90 days through mobile phones

Number of standalone internet access service subscribers	4.279.715	4,12%	2,37%
Number of bundled services subscribers – 2D	392.796	1,44%	2,24%
Number of bundled services subscribers – 3D	417.734	0,41%	1,00%
Number of bundled services subscribers – 4D	241.460	-0,88%	4,68%
Broadband traffic (TB)	1.151.752	9,98%	21,96%
Fixed broadband traffic (TB)	756.805	6,96%	20,40%
Mobile broadband traffic (TB)	394.948	16,28%	25,06%

Television services	Q3 2023	quarterly change Q3 2023 – Q2 2023	annual change Q3 2023 – Q3 2022
Television services revenue (EUR)	32.151.741	2,69%	6,24%
Cable TV revenues	5.498.700	1,46%	-2,76%
IPTV revenues	18.724.225	3,67%	12,12%
Satellite revenues	3.918.637	0,95%	-5,53%
Digital terrestrial TV revenues	3.052.328	0,25%	-0,92%
Own OTT service revenues	957.851	6,03%	40,89%
Total number of pay-TV subscriptions (lines)	917.117	0,27%	-0,10%
Cable reception	149.387	-1,52%	-3,89%
Residential	145.654	-1,56%	-3,94%
Business	3.733	0,11%	-1,66%
IPTV	491.442	0,89%	2,23%
Residential	465.014	0,89%	2,43%

Business	26.428	0,94%	-1,16%
Satellite reception (SAT TV)	129.761	-1,47%	-5,01%
Residential	119.620	-1,50%	-5,37%
Business	10.141	-1,15%	-0,55%
Digital terrestrial reception – pay TV	96.478	-0,33%	-7,48%
Residential	95.573	-0,35%	-7,55%
Business	905	1,57%	0,11%
Own OTT service	50.049	5,75%	22,04%
Residential	42.054	6,50%	28,15%
Business	7.995	1,99%	-2,42%
Stand-alone – TV subscribers	145.187	-0,54%	-1,51%
Number of bundled services subscribers – 2D	87.254	-0,03%	-2,54%
Number of bundled services subscribers – 3D	300.518	2,16%	0,89%
Number of bundled services subscribers – 4D	241.460	-0,88%	4,68%

\*The "RH households with digital terrestrial reception only" indicator will no longer be reported from Q1 2023. As HAKOM does not collect the mentioned data but only estimates it based on other collected data and certain assumptions that do not have to be entirely correct, it will no longer be reported to avoid confusion and possibly wrong conclusions about the trend of the mentioned indicator.

\*\*The values of individual indicators in this report may differ from previously published values due to corrections and/or subsequently submitted reports by individual operators.