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 | Q4 2022 | quarterly change O4 2022 - O3 2022 | annual change $Q_{4} 2022-Q_{4} 2021$ |
| :---: | :---: | :---: | :---: |
| Total fixed telephony services revenue (HRK) | 238.497.650 | -7,35\% | -9,35\% |
| Retail revenue | 220.512 .011 | -4,15\% | -6,73\% |
| Wholesale revenue | 17.985 .639 | -34,21\% | -32,59\% |
| Total number of fixed lines | 1.233 .109 | -1,23\% | -2,64\% |
| Stand-alone - fixed voice telephony subscribers | 415.580 | -3,12\% | -8,32\% |
| Number of subscribers ${ }^{1}$ | 1.182 .557 | -1,01\% | -1,77\% |
| CPS subscribers | 31.238 | -1,41\% | -11,98\% |
| Fixed originating voice minutes ${ }^{2}$ (min) | 293.871 .754 | -0,62\% | -22,53\% |

[^0]| Mobile telephony services | O4 2022 | quarterly change $\mathrm{O}_{4} 2022-\mathrm{O}_{3} 2022$ | $\begin{gathered} \text { annual change } \\ \mathrm{O}_{4} 2022-\mathrm{O}_{4} 2021 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| Total mobile telephony services revenue (HRK) ${ }^{3}$ | 1.052.741.500 | 4,27\% | 7,98\% |
| Retail revenue | 884.830.709 | 10,42\% | 7,03\% |
| Ratail revenue - Residential | 662.183 .700 | 8,02\% | 6,39\% |
| Prepaid subscribers | 219.814.931 | 5,22\% | 2,52\% |
| Postpaid subscribers | 442.368.769 | 9,46\% | 8,43\% |
| Retail revenue - Business | 222.647 .008 | 18,23\% | 8,98\% |
| Wholesale revenue | 167.910.791 | -19,39\% | 13,30\% |
| Total number of active subscribers ${ }^{4}$ | 4.480 .469 | -3,54\% | 1,78\% |
| Residential | 3.685 .153 | $-4,41 \%$ | 1,48\% |
| Prepaid subscribers | 1.615 .080 | -11,58\% | -6,26\% |
| Postpaid subscribers | 2.070 .073 | 2,04\% | 8,47\% |
| Business | 795.316 | 0,69\% | 3,19\% |
| Mobile penetration ${ }^{5}$ | 115,22\% | -3,54\% | 12,15\% |
| Mobile originating voice minutes ${ }^{6}(\mathrm{~min}$ ) | 2.645.389.923 | -3,74\% | $-10,13 \%$ |
| International roaming traffic - own subscribers (min) | 139.044.825 | 0,60\% | -9,39\% |
| International roaming traffic - foreign subscribers (min) | 95.573.306 | $-79,19 \%$ | 8,88\% |
| Total SMS sent | 247.542.509 | $-4,26 \%$ | -21,55\% |
| Total MMS sent | 1.570 .728 | -0,28\% | -27,72\% |
|  |  |  |  |

${ }^{3}$ Due to system change, one operator has inconsistency in delivered data.

| Broadband access services | Q4 2022 | quarterly change $\mathrm{Q}_{4} 2022-\mathrm{O}_{3}$ | annual change $\mathrm{O}_{4} 2022-\mathrm{O}_{4} 2021$ |
| :---: | :---: | :---: | :---: |
| Total access services revenue (HRK) | 1.364.233.060 | -16,01\% | 4,68\% |
| Fixed broadband revenue ${ }^{7}$ | 465.990.971 | $-1,02 \%$ | 1,05\% |
| Mobile broadband revenue | 921.424.320 | -20,12\% | 9,42\% |
| Total number of broadband subscriptions (lines) | 5.992 .716 | -3,20\% | 3,95\% |
| Fixed broadband subscriptions (lines) | 1.087 .689 | 0,27\% | 3,74\% |
| Own copper access | 414.367 | -0,06\% | -1,57\% |
| xDSL based broadband using full local-loop unbundling | 52.733 | $-10,85 \%$ | -41,64\% |
| xDSL based broadband using shared access | 2 | -71,43\% | -75,00\% |
| FttX - own infrastructure | 198.428 | 20,76\% | 26,29\% |
| Bitstream (xDSL, FttX) | 203.373 | 2,57\% | 19,05\% |
| Cable broadband | 180.936 | 0,52\% | 3,53\% |
| Fixed wireless access (FWA) | 31.519 | -9,04\% | 12,00\% |
| Other | 6.331 | -4,09\% | 9,00\% |
| Mobile broadband subscriptions | 4.905 .027 | -3,94\% | 3,99\% |
| Residential | 3.745 .473 | $-5,25 \%$ | 3,54\% |
| Dedicated data subscriptions (cards/modems/keys etc.) | 384.917 | -7,80\% | 2,61\% |

[^1]| Mobile phones ${ }^{8}$ | 3.360 .552 | -4,94\% | 3,65\% |
| :---: | :---: | :---: | :---: |
| M2M | 4 | 0,00\% | -20,00\% |
| Business | 1.159.554 | 0,51\% | 5,47\% |
| Dedicated data subscriptions (cards/modems/keys etc.) | 200.265 | -3,25\% | 7,11\% |
| Mobile phones ${ }^{9}$ | 667.339 | 0,62\% | 3,61\% |
| M2M | 291.950 | 3,02\% | 8,78\% |
| Number of bundled services subscribers - 2D | 323.987 | 0,47\% | 4,46\% |
| Number of bundled services subscribers - 3D | 262.453 | -0,65\% | -5,86\% |
| Number of bundled services subscribers - 4D | 339.374 | 0,39\% | 4,87\% |
| Stand-alone - broadband subscribers | 165.603 | 4,99\% | 15,67\% |
| Broadband traffic (GB) | 891.990 .074 | -1,34\% | 16,94\% |
| Fixed broadband traffic (GB) | 619.917 .029 | 2,94\% | 16,08\% |
| Mobile broadband traffic (GB) | 272.073.045 | -9,86\% | 18,95\% |

${ }^{8}$ Number of subscribers which have made an internet mobile connection in the last 90 days through mobile phones
9 Number of subscribers which have made an internet mobile connection in the last 90 days through mobile phones

| Television services | Q4 2022 | quarterly change $\mathrm{O}_{4} 2022-\mathrm{O}_{3} 2022$ | annual change $\mathrm{O}_{4} 2022-\mathrm{O}_{4} 2021$ |
| :---: | :---: | :---: | :---: |
| Television services revenue (HRK) | 225.991.212 | 1,17\% | 4,28\% |
| Total number of pay-TV subscriptions (lines) | 872.635 | -0,51\% | -0,07\% |
| Cable reception | 182.024 | -1,54\% | 0,76\% |
| Residential | 176.648 | 1,53\% | 0,43\% |
| Business | 5.376 | 1,64\% | 12,63\% |
| IPTV ${ }^{10}$ | 457.613 | 0,15\% | 1,89\% |
| Residential | 432.406 | 0,17\% | 1,79\% |
| Business | 25.207 | -0,20\% | 3,68\% |
| Satellite reception (SAT TV) | 131.831 | -3,49\% | -5,87\% |
| Residential | 123.215 | -2,53\% | -6,48\% |
| Business | 8.616 | -15,50\% | 3,67\% |
| Digital terrestrial reception - pay TV | 101.167 | -2,98\% | -2,15\% |
| Residential | 100.258 | -3,02\% | -2,40\% |
| Business | 909 | 0,55\% | 37,10\% |
| Stand-alone - TV subscribers | 85.465 | -4,69\% | -5,85\% |
| RH households with digital terrestrial reception only ${ }^{11}$ | 528.389 | 0,85\% | -12,99\% |

${ }^{10}$ Number of IPTV lines was corrected on 15.09.2022.
${ }^{11}$ RH households with digital terrestrial reception only $=$ ( 1.438 .423 (number of households in the Republic of Croatia according to the last census of population from 2021) $-2,6 \%$ households without TV) - (number of cable receptions + number of IPTV + number of satellite receptions + digital terrestrial reception pay TV)


[^0]:    ${ }^{1}$ CPS (carrier pre-selection) subscribers are included
    ${ }^{2}$ includes all types of calls (local, national, international calls, calls to mobile networks and calls to VAS numbers)

[^1]:    4 Definition of active pre-paid subscriber: Subscriber who has used a mobile service or refilled the account in the last go days. This definition applies to all operators. Before 2011 each operator used a different active pre-paid subscriber definition ( $90 / 180 / 270$ days).
    ${ }^{5}$ Mobile penetration has been calculated according to the last census of population from 2011
    ${ }^{6}$ includes all types of calls (local, national, international calls, calls to mobile networks and calls to VAS numbers)
    7 Dial up revenue is also included

