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 2018	quarterly change Q4 2018 – Q3 2018	annual change Q4 2018 – Q4 2017
Total fixed telephony services revenue (HRK)	317.140.608	-9,97%	-15,32%
Retail revenue	271.491.946	-8,57%	-15,36%
Wholesale revenue	45.648.662	-17,48%	-15,11%
Total number of fixed lines	1.346.679	-1,02%	-2,05%
Stand-alone – fixed voice telephony subscribers	415.130	-14,09%	-13,65%
Number of subscribers ¹	1.263.837	-0,25%	-0,96%
CPS subscribers	57.352	-2,96%	-18,25%
Fixed originating voice minutes ² (min)	453.025.441	4,93%	-10,64%

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)

Mobile telephony services	Q4 2018	quarterly change Q4 2018 – Q3 2018	annual change Q4 2018 – Q4 2017
Total mobile telephony services revenue (HRK)	1.151.692.305	-1,31%	3,06%
Retail revenue	991.331.207	9,07%	5,82%
Ratail revenue - Residential	756.829.122	8,99%	6,42%
Prepaid subscribers	295.479.724	2,82%	5,23%
Postpaid subscribers	461.349.398	13,35%	7,20%
<u>Retail revenue - Business</u>	234.502.086	9,32%	3,93%
Wholesale revenue	160.361.098	-37,85%	-11,27%
Total number of active subscribers ³	4.388.476	-3,48%	1,69%
<u>Residential</u>	3.666.508	-4,19%	1,45%
Prepaid subscribers	2.088.477	-8,26%	-2,41%
Postpaid subscribers	1.578.031	1,79%	7,07%
<u>Business</u>	721.968	0,30%	2,90%
Mobile penetration ⁴	102,42%	-3,47%	1,69%
Mobile originating voice minutes ⁵ (min)	2.335.908.179	0,34%	3,68%
International roaming traffic – own subscribers (min)	157.653.473	11,01%	59,77%
International roaming traffic – foreign subscribers (min)	66.745.042	-80,92%	-5,67%
Total SMS sent	508.954.008	-2,68%	-12,83%
Total MMS sent	3.001.708	-4,50%	-11,94%

³ Definition of active pre-paid subscriber: Subscriber who has used a mobile service or refilled the account in the last 90 days. This definition applies to all operators. Before 2011 each operator used a different active pre-paid subscriber definition (90/180/270 days).

⁴ Mobile penetration has been calculated according to the last census of population from 2011

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

Broadband access services	Q4 2018	quarterly change Q4 2018 – Q3 2018	annual change Q4 2018 – Q4 2017
Total access services revenue (HRK)	1.094.160.459	-14,06%	3,61%
Fixed broadband revenue ⁶	496.363.891	1,43%	4,40%
Mobile broadband revenue	597.796.568	-23,73%	2,96%
Total number of broadband subscriptions (lines)	4.634.392	-1,29%	1,06%
Fixed broadband subscriptions (lines)	1.120.360	0,63%	2,23%
Own copper access	432.943	-0,78%	-0,90%
xDSL based broadband using full local-loop unbundling	156.380	-2,76%	-10,38%
xDSL based broadband using shared access	25	-21,88%	-61,54%
FttX – own infrastructure	78.717	0,13%	0,37%
Bitstream (xDSL, FttX)	158.341	1,61%	1,12%
Cable broadband	163.148	2,19%	4,97%
Fixed wireless access (FWA)	126.777	7,14%	39,27%
Other	4.029	8,89%	35,11%
Mobile broadband subscriptions	3.514.032	-1,88%	0,70%
Residential	2.617.315	-2,63%	-1,90%
Dedicated data subscriptions (cards/modems/keys etc.)	134.100	-3,20%	-4,75%
Mobile phones ⁷	2.483.187	-2,60%	-1,75%
M2M	28	-6,67%	12,00%
Business	896.717	0,38%	9,14%
Dedicated data subscriptions (cards/modems/keys etc.)	142.808	-3,87%	-0,52%

⁶ Dial up revenue is also included ⁷ Number of subscribers which have made an internet mobile connection in the last 90 days through mobile phones

Mobile phones ⁸	542.260	-0,30%	3,20%
M2M	211.649	5,38%	38,67%
Number of bundled services subscribers – 2D	497.827	6,74%	-1,66%
Number of bundled services subscribers – 3D	289.905	-1,20%	-4,07%
Number of bundled services subscribers – 4D	211.762	13,93%	52,86%
Stand-alone – broadband subscribers	136.454	-25,78%	-17,51%
Broadband traffic (GB)	340.956.979	-1,89%	28,81%
Fixed broadband traffic (GB) ⁹	285.852.619	1,55%	21,00%
Mobile broadband traffic (GB)	55.104.360	-16,57%	93,73%
Television services	Q4 2018	quarterly change Q4 2018 – Q3 2018	annual change Q4 2018 – Q4 2017
Television services Television services revenue (HRK)	Q4 2018 192.094.160		annual change Q4 2018 – Q4 2017 4,75%
		Q4 2018 – Q3 2018	Q4 2018 – Q4 2017
Television services revenue (HRK)	192.094.160	Q4 2018 – Q3 2018 -0,54%	Q4 2018 – Q4 2017 4,75%
Television services revenue (HRK) Stand-alone – TV subscribers	192.094.160 171.674	Q4 2018 – Q3 2018 -0,54% -21,23%	Q4 2018 – Q4 2017 4,75% -31,53%
Television services revenue (HRK) Stand-alone – TV subscribers Cable reception	192.094.160 171.674 178.244	Q4 2018 – Q3 2018 -0,54% -21,23% 2,47%	Q4 2018 – Q4 2017 4,75% -31,53% 5,33%
Television services revenue (HRK) Stand-alone – TV subscribers Cable reception IPTV	192.094.160 171.674 178.244 424.389	Q4 2018 – Q3 2018 -0,54% -21,23% 2,47% 2,15%	Q4 2018 – Q4 2017 4,75% -31,53% 5,33% 2,60%

Number of subscribers which have made an internet mobile connection in the last 90 days through mobile phones

9 Fixed wirelles broadband traffic is included

10 HRT cards were included in the previous reports

11 RH households with digital terrestrial reception only = (1.520.026 (number of households in the Republic of Croatia according to the last census of population from 2011) – 2,6% households without TV) – (number of Cable receptions + number of IPTV + number of Satellite receptions + digital terrestrial reception_pay TV)