



Telecommunications

Services and infrastructure

Values as of 31 Dec. or annual volumes

	2015	2016	2017	2018	2019	2020	2021	2022	2023
Electronic communications market									
Registered providers	44	46	46	48	48	49	48	50	51
Service providers in the end customer market									
Providers of telephone service	1	4	5	5	8	9	9	10	10
Providers of broadband internet service	12	11	12	12	12	13	14	15	15
Providers of TV service	5	5	5	6	6	7	7	7	
Providers of leased line/data transmission service	12	12	15	14	13	12	12	11	
Providers of mobile service (voice, SMS, Internet)	3	3	3	3	3	4	4	4	4
Service provider in the wholesale market									
Wholesale providers of broadband access service	5	3	4	4	4	5	4	4	
Wholesale providers of fixed-line telephone service	0	1	1	1	3	3	3	3	
Work places (full-time equivalents) in Liechtenstein	139	150	163	178	165	165	178	179	
Net revenues, CHF million									
of which fixed network services for end users	30	29	30	31	30	29	27	24	
of which mobile services for end users	8	8	11	18	23	23	35	40	
of which leased lines and data transmission for end users	6	7	4	4	4	5	5	5	
of which other services for end users	1	8	2	1	1	1	1	1	
of which wholesale services	33	32	43	41	47	60	68	75	
of which other net sales	1	1	0	1	2	1	1	1	
Investments, CHF million	23	18	18	25	22	23	22	19	
Fixed net									
Internet									
Internet connections, total	15'697	15'923	16'230	16'712	17'173	18'050	18'554	19'238	19'721
of which Internet via copper wire pairs	10'566	10'430	9'502	8'480	6'751	4'458	2'474	1'124	1
of which Internet via coax connection	5'034	5'316	6'251	6'819	6'339	4'751	3'254	2'099	1'084
of which Internet via fibre optic connection	97	177	477	1'413	4'083	8'841	12'826	16'015	18'636
of which with download performance below 10 Mbit/s	2'473	2'047	1'088	1'751	1'040	584	233	109	
of which with download performance 10 - 49 Mbit/s	12'512	11'952	12'096	10'522	7'787	4'406	2'411	1'093	
of which with download performance 50 - 99 Mbit/s	613	1'502	2'384	1'990	2'529	1'868	1'746	1'504	
of which with download performance 100 to 199 Mbit/s	85	376	359	1'345	2'412	5'271	6'483	6'879	
of which with download performance from 200 Mbit/s	14	46	303	1'104	3'405	5'921	7'681	9'653	11'235
of which with download performance 200 - 499 Mbit/s	*	*	*	*	1'620	1'482	1'568	1'950	
of which with download performance 500 - 999 Mbit/s	*	*	*	*	682	2'936	3'683	4'793	
of which with download performance from 1 Gbit/s	*	*	*	*	1'103	1'503	2'430	2'910	4'340
of which with download performance 1 - 4.9 Gbit/s	*	*	*	*	1'101	1'499	2'423	2'811	
of which with download performance from 5 Gbit/s	*	*	*	*	2	4	7	99	
of which with download performance 5 - 9.9 Gbit/s	*	*	*	*	*	*	-	96	
of which with download performance 10 - 49 Gbit/s	*	*	*	*	*	*	7	3	
of which with download capacity from 50 Gbit/s	*	*	*	*	*	*	-	-	
of which bundled with TV and fixed-line telephony (triple play)	965	1'368	1'621	2'653	3'544	4'742	5'744	6'105	
of which bundled with fixed net telephony (double play)	2'415	3'194	3'500	3'568	3'276	2'747	2'683	2'246	
of which bundled with TV (double play)	959	1'680	2'330	3'130	3'788	4'565	5'491	6'073	
Telephone									
Telephone connections, total	17'312	16'361	15'342	15'243	13'727	12'607	11'513	10'810	10'274
PSTN analogue telephone connections	7'942	7'195	6'210	5'140	3'831	2'281	1'191	592	-
ISDN basic connections	5'112	4'515	3'791	3'056	2'323	1'101	472	139	-
ISDN primary rate connections	98	90	80	66	55	41	29	18	-
VoIP connections	4'160	4'561	5'261	6'981	7'518	9'184	9'821	10'061	10'274
of which VoIP via copper wire pairs	3'768	3'469	3'542	4'149	2'896	1'557	1'185	1'038	
of which VoIP via coax connection	392	1'053	1'577	2'218	2'266	2'694	1'415	943	
of which VoIP via fibre optic connection	-	39	142	614	1'912	4'384	6'795	7'640	
of which VoIP via mobile phone connection at a fixed locat	*	*	*	*	-	-	-	-	
of which as a service via the Internet	*	*	*	*	444	549	426	440	
of which as a single service (unbundled)	*	*	*	*	*	*	603	1'051	
Fixed net phone numbers used	128'745	126'317	125'206	122'423	120'064	111'762	106'182	108'966	
of which ported fixed-net phone numbers	-	103	460	973	1'833	7'862	13'179	16'438	
Public telephones	24	24	-	*	*	*	*	*	*
Television									
Television connections, total	14'740	14'771	16'060	16'046	16'132	15'009	14'628	14'151	
Cable television connections DVB-C	12'828	11'940	12'187	10'827	9'336	5'877	3'947	2'558	
of which DVB-C via coax connection	12'828	11'940	12'187	10'827	9'100	5'387	3'325	1'769	
of which DVB-C via fibre optic connection	*	*	*	*	236	490	622	789	
IP television connections	1'912	2'831	3'873	5'219	6'796	9'132	10'681	11'593	
of which IPTV via copper wire pairs	1'446	1'579	1'804	1'883	1'723	1'397	858	383	
of which IPTV via coaxial connection	465	1'217	1'845	2'441	2'409	1'846	1'238	616	
of which IPTV via fibre optic connection	1	35	224	895	2'664	5'889	8'585	10'594	
Fixed network infrastructure									
Fibre optic access network, P2P-FTTB subscriber lines									
Coverage (% of all households and workplaces)	*	*	*	27%	47%	65%	86%	99%	100%
Utilisation (% of all P2P FTTB subscriber lines)	*	*	*	19%	36%	59%	65%	69%	77%
Line lengths in km									
of which copper wire pairs	160'838	161'046	171'836	178'730	191'626	202'171	210'279	219'318	
of which optical fibre - twin fibre	142'400	142'450	142'650	142'900	143'100	143'200	143'200	143'200	
of which optical fibre - coaxial cable	17'959	18'109	28'695	35'336	48'029	58'472	66'579	75'618	
of which coaxial cable	479	487	491	494	497	499	500	500	
Building connections, total									
of which in the copper pair network	21'092	21'302	21'830	23'269	24'090	23'797	20'941	19'309	
of which in the coax/HFC network	10'937	10'933	10'885	10'858	9'880	8'865	6'026	3'971	
of which in the fibre optic network	9'695	9'772	9'940	10'008	10'057	8'789	6'510	4'944	
of which in the fibre optic network	460	597	1'005	2'403	4'153	6'143	8'405	10'394	



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Mobile phones									
Mobile phone connections (address in LIE)	40'950	44'298	46'402	47'272	47'748	48'887	49'223	49'660	50'356
of which with +423 phone number	10'999	10'137	12'223	14'003	14'954	16'321	17'287	18'110	18'790
of which with +41 phone number	29'951	34'161	34'179	33'269	32'794	32'566	31'936	31'550	31'566
Mobile internet connections (address in LIE)	2'965	3'081	2'283	2'016	2'652	1'978	1'878	1'777	1'917
of which in Liechtenstein network	1'002	939	985	935	1'698	1'176	1'100	993	989
of which in Swiss network	1'963	2'142	1'298	1'081	954	802	778	784	928
+423 mobile phone numbers used (without M2M/IoT)	13'512	10'992	13'089	14'985	17'420	17'484	19'327	20'158	
of which ported mobile phone numbers	-	-	-	-	-	390	614	847	
Mobile network infrastructure									
Mobile networks	3	3	3	3	3	3	3	3	3
Coverage, % of the population	95	95	97	97	97	97	97	97	97
Mobile radio stations (ERP value at least 6 watts)	*	*	22	22	22	23	23	23	23
Connections									
Outgoing calls, total duration in million minutes	59.0	52.2	50.6	48.1	45.8	52.1	44.4	38.5	
Outgoing calls from fixed network	49.4	43.3	41.0	37.6	34.3	38.2	30.8	25.5	
of which to Liechtenstein	23.1	20.3	18.8	17.2	15.8	17.5	15.3	12.7	
of which to Switzerland	16.0	14.6	14.4	13.7	12.6	14.3	10.3	8.3	
of which to International (excl. Switzerland)	10.3	8.4	7.8	6.7	5.9	6.4	5.2	4.5	
Outgoing calls from the mobile network, +423 connections	9.6	8.9	9.6	10.5	11.5	13.9	13.6	13.0	
of which to Liechtenstein	6.2	5.4	5.3	5.2	5.5	6.9	6.9	6.6	
of which to Switzerland	1.5	1.9	2.4	3.0	3.7	4.2	4.3	4.2	
of which to International (excl. Switzerland)	2.0	1.6	1.9	2.2	2.3	2.8	2.5	2.2	
Terminated calls, total duration in million minutes	61.0	55.5	54.4	54.8	53.4	61.8	54.0	50.6	
of which terminated to fixed network	53.0	48.3	44.2	42.2	40.4	46.6	38.0	34.9	
of which terminated to mobile network, +423 connections	8.1	7.2	10.1	12.6	13.1	15.2	15.9	15.6	
Data volume of broadband connections (excluding IPTV streaming)									
Total data volume, in petabytes	*	*	*	*	44.6	66.9	71.0	260.6	
of which upload and download in fixed network	*	*	*	*	44.0	66.0	69.7	259.3	
of which uploads and downloads in the mobile network, +423 connections	*	*	*	*	0.6	0.9	1.3	1.3	
Country Liechtenstein (Source: Office for Statistics)									
Land area: 160 km ² , Settlement area: 18 km ²									
Inhabitants	37'623	37'815	38'114	38'378	38'747	39'055	39'308	39'677	40'018
Households	16'522	16'694	16'949	17'192	17'382	17'641	17'784	18'010	
Workplaces	5'029	5'142	5'314	5'497	5'715	5'889	6'029	6'199	
Buildings	10'856	10'932	10'984	11'090	11'130	11'203	11'266	11'361	
Dwellings	20'028	20'282	20'514	20'865	21'067	21'361	21'579	21'902	
Gross national income, at current prices, CHF million	4'968	5'899	6'645	6'765	6'231	6'453	6'487	*	*
Gross domestic product, at current prices, CHF million	6'033	6'146	6'375	6'545	6'387	6'014	7'046	*	*

Explanation of the table:

Net revenue: For activities performed in Liechtenstein and activities with Liechtenstein resources
 PSTN: Public Switched Telephone Network, call transmission via dedicated lines
 ISDN primary rate lines: Digital connection with 30 channels
 VoIP connections: Voice over Internet Protocol; Internet telephony via IP-based networks with managed quality
 IP television: Services such as television, video, audio, via IP-based networks with managed quality
 DVB-C: Digital television broadcasting; signal transmission via hybrid fibre optic and coaxial cable networks
 Internet connections: without public WLAN and mobile access
 P2P-FTTB: Point-to-point fibre optic subscriber line with fibre optics from the central office to the building
 Mobile phone connections: with domestic and foreign providers
 Connection volumes and data volumes in mobile networks: Related to Liechtenstein mobile networks and +423 numbers
 Mobile Internet connections: Mobile exclusive internet access (GSM/UMTS/LTE basis, "data only"), with domestic and foreign providers
 Mobile coverage of the population: 2011-2015 data based on 3G/UMTS networks, from 2016 data based on 4G/LTE networks
 Values under "Country Liechtenstein": taken from publications of the Office for Statistics
 Household values 2015 and 2020 from census; household values for other years: estimated values from the Office for Communications

- A dash in place of a number means zero.
- 0 A zero in place of another number means a quantity that is smaller than half of the counting unit used.
- * An asterisk in place of a number means that the number is not available or not collected or omitted for data protection reasons.

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