

A Brief Overview of Communications: 2016

1. Radio and Television Broadcasting

(1) Terrestrial Broadcasting

Enterprise Classification	Radio	Television
Year -Quarter	Operators	Operators
2016-Q1	170	5
2016-Q2	170	5
2016-Q3	170	5
2016-Q4	170	5

(2) Satellite Broadcasting

Enterprise Classification	Direct Satellite Broadcasting Service Operators	Satellite Broadcasting Program Suppliers	Other Type Channel and Program Supply Business
Year -Quarter	Operators	Operators	Operators
2016-Q1	6	115	0
2016-Q2	6	116	0
2016-Q3	6	117	1
2016-Q4	6	118	6

(3) Cable Radio and Television

Cable Radio and Television							
Year – Quarter	Operators		Cable TV		Digital Set-top Box		Digital Pay TV
	Cable TV Program Transmission System	Cable TV System	Subscribers	Subscribers Per 100 Households (%)	Subscribers	% of Cable TV Subscribers	Subscribers
2016-Q1	3	62	5,105,088	60.20	4,650,787	91.10	1,369,497
2016-Q2	3	62	5,143,761	60.52	4,776,985	92.87	1,334,262
2016-Q3	3	62	5,175,093	60.62	4,874,844	94.2	1,377,382
2016-Q4	2	63	5,205,562	60.80	4,988,968	95.84	1,418,710

(4) Satellite Broadcasting Program Suppliers

	Satellite Broadcasting Program Suppliers		Channels	
Year -Quarter	Domestic	Foreign	Domestic	Foreign
2016-Q1	93	30	181	117
2016-Q2	93	31	181	120
2016-Q3	93	32	180	122
2016-Q4	93	33	180	124

Note: Eight Satellite broadcasting businesses operate as both domestic and foreign program suppliers.

(5) Multimedia Content Transporting Platform Service

Year -Quarter	Operators	Channels	Subscribers
2016-Q1	1	196	1,310,593
2016-Q2	1	196	1,316,651
2016-Q3	1	193	1,326,984
2016-Q4	1	193	1,331,545

(6) Accumulative Table of Penalty and Fine concerning Broadcasting Contents(Jan-Dec 2016)

Violations	Total		Terrestrial Radio		Terrestrial TV		Satellite Broadcasting		Cable Radio and TV	
	Cases	Amount (1000 NT\$)	Cases	Amount (1000 NT\$)	Cases	Amount (1000 NT\$)	Cases	Amount (1000 NT\$)	Cases	Amount (1000 NT\$)
Total	61	5,533	40	540	9	1,963	12	3,030	0	0
Impair the physical or mental health of children or juveniles	0	0	0	0	0	0	0	0	0	0
Disrupt public order or adversely affect good social customs	0	0	0	0	0	0	0	0	0	0
Violate regulations of program rating	3	1,200	0	0	1	0	2	1,200	0	0
Program is not distinguishable from advertisement	39	3,077	26	357	7	1,920	6	800	0	0
Violate regulations on captions usage	0	0	0	0	0	0	0	0	0	0
Violate laws on sexual assault	0	0	0	0	0	0	0	0	0	0
Advertisements exceed broadcasting time	12	84	12	84	0	0	0	0	0	0
Violate compulsory or prohibitive regulations under the law	2	73	0	0	1	43	1	30	0	0
Others	5	1,099	2	99	0	0	3	1,000	0	0

2. Telecommunications

(1) Fixed Network Telecommunication

Year-Quarter	Operators	Local network				Long-distance Network	
		Revenue (1000 NT\$)	Subscribers	Outgoing Minutes	Fixed Lines	Revenue (1000 NT\$)	Outgoing Minutes
2016-Q1	4	14,774,367	11,847,715	2,285,567,766	18,502,343	2,218,036	810,684,998
2016-Q2	4	14,699,430	11,807,130	2,318,872,905	18,426,931	2,348,916	820,266,007
2016-Q3	4	14,710,136	11,748,556	2,256,260,659	18,364,148	2,219,402	805,066,864
2016-Q4	4	14,520,201	11,695,027	2,165,386,264	18,263,160	2,217,888	775,050,902

Fixed Network Telecommunication (Cont.)

Year-Quarter	International Network				ISDN Subscribers	ADSL Lines	Public Telephone Sets
	Revenue (1000 NT\$)	Outgoing Minutes	Outgoing Calls	Incoming Minutes			
2016-Q1	4,323,345	457,510,109	129,884,669	498,211,667	14,296	2,417,813	62,971
2016-Q2	4,267,069	468,782,081	136,348,471	524,648,990	14,084	2,312,362	61,754
2016-Q3	4,309,770	482,569,055	129,885,992	522,037,200	13,976	2,150,724	60,369
2016-Q4	3,810,748	420,864,822	111,308,863	440,212,495	13,753	2,082,579	59,352

(2) Mobile Network Telecommunication

Year-Quarter	2G			
	Enterprises	Revenue (1000NT\$)	Subscribers	Outgoing Minutes
2016-Q1	3	673,826	772,800	149,329,103
2016-Q2	3	501,139	562,549	116,648,524
2016-Q3	3	225,315	492,306	62,250,651
2016-Q4	3	190,989	396,434	39,321,054

Mobile Network Telecommunication (Cont.)

Year-Quarter	3G			
	Enterprises	Revenue (1000NT\$)	Subscribers	Outgoing Minutes
2016-Q1	5	19,918,904	14,963,325	2,743,707,755
2016-Q2	5	16,837,814	13,284,643	2,396,303,200
2016-Q3	5	14,437,821	11,740,941	1,873,846,732
2016-Q4	5	12,034,185	10,465,116	1,462,514,595

Mobile Network Telecommunication (Cont.)

Year-Quarter	4G			
	Enterprises	Revenue (1000NT\$)	Subscribers	Outgoing Minutes
2016-Q1	5	32,577,531	13,456,349	2,949,142,832
2016-Q2	5	35,863,878	15,196,789	3,287,705,001
2016-Q3	5	38,409,581	16,725,622	3,645,735,108
2016-Q4	5	40,220,949	18,067,037	3,790,578,940

(3) (Fixed) Broadband Internet Subscribers (Jan-Dec 2016)

Type	01/2016	01/2015	Change (%)	02/2016	02/2015	Change (%)	03/2016	03/2015	Change (%)
ADSL	1,039,792	1,338,067	-22%	1,024,609	1,319,026	-22%	1,003,344	1,290,148	-22%
FTTx	3,375,768	3,113,589	8%	3,385,737	3,127,275	8%	3,407,753	3,157,427	8%
Cable Modem	1,248,992	1,214,406	3%	1,251,872	1,219,264	3%	1,254,345	1,224,861	2%
Leased Line	3,483	3,741	-7%	3,419	3,868	-12%	3,417	3,631	-6%
PWLAN	1,940,364	1,789,035	8%	1,939,629	1,808,505	7%	1,941,672	1,829,473	6%
Total	7,608,399	7,458,838	2%	7,605,266	7,477,938	2%	7,610,531	7,505,540	1%
Type	04/2016	04/2015	Change (%)	05/2016	05/2015	Change (%)	06/2016	06/2015	Change (%)
ADSL	978,039	1,256,984	-22%	960,261	1,230,997	-22%	946,855	1,210,235	-22%
FTTx	3,416,272	3,179,120	7%	3,431,823	3,198,033	7%	3,447,738	3,218,440	7%
Cable Modem	1,267,632	1,229,376	3%	1,272,010	1,234,062	3%	1,274,252	1,239,350	3%
Leased Line	3,380	3,607	-6%	3,367	3,654	-8%	2,769	3,723	-26%
PWLAN	1,903,587	1,850,108	3%	1,866,257	1,876,519	-1%	104,526	1,905,454	-95%
Total	7,568,910	7,519,195	1%	7,533,718	7,543,265	0%	5,776,140	7,577,202	-24%
Type	07/2016	07/2015	Change (%)	08/2016	08/2015	Change (%)	09/2016	09/2015	Change (%)
ADSL	929,240	1,182,111	-21%	914,658	1,158,256	-21%	905,125	1,135,314	-20%
FTTx	3,476,527	3,241,705	7%	3,495,553	3,263,904	7%	3,508,817	3,288,229	7%
Cable Modem	1,279,808	1,245,730	3%	1,282,373	1,252,515	2%	1,285,337	1,235,175	4%
Leased Line	2,778	3,643	-24%	2,778	3,656	-24%	2,759	3,494	-21%
PWLAN	104,774	1,938,588	-95%	105,120	1,967,522	-95%	105,494	1,990,970	-95%
Total	5,793,127	7,611,777	-24%	5,800,482	7,645,853	-24%	5,807,532	7,653,182	-24%

Type	10/2016	10/2015	Change (%)	11/2016	11/2015	Change (%)	12/2016	12/2015	Change (%)
ADSL	892,673	1,105,882	-19%	878,748	1,081,087	-19%	865,786	1,062,190	-19%
FTTx	3,518,042	3,308,414	6%	3,522,091	3,328,084	6%	3,525,140	3,345,238	5%
Cable Modem	1,288,914	1,240,585	4%	1,289,690	1,242,979	4%	1,292,081	1,245,418	4%
Leased Line	2,766	3,505	-21%	2,762	3,496	-21%	2,757	3,484	-21%
PWLAN	105,739	1,985,611	-95%	105,970	1,980,515	-95%	106,235	1,960,775	-95%
Total	5,808,134	7,643,997	-24%	5,799,261	7,636,161	-24%	5,791,999	7,617,105	-24%

(4) I Telecommunications Service (Jan-Sep 2016)

Jan. 2016					
Service			Subscribers		Subscribers per 100 people (%)
			Sub-total	Total	
Fixed Network	Local telephone		11,871,277		50.52%
Mobile Network	4G	Data-enable	12,206,398	12,206,443	51.95%
		Others	45		
	3G	Data-enable	7,098,483	16,166,012	68.80%
		Others	9,067,529		
	2G	WAP	1,178	922,988	3.93%
		GPRS	102,904		
Others		818,906			
Total number of mobile SMS sent (2G,3G,4G included) :					377,329 (000s)
Total number of mobile MMS sent (2G,3G,4G included) :					888 (000s)
Feb. 2016					
Service			Subscribers		Subscribers per 100 people (%)
			Sub-total	Total	
Fixed Network	Local telephone		11,858,800		50.47%
Mobile Network	4G	Data-enable	12,851,974	12,852,033	54.71%
		Others	59		
	3G	Data-enable	6,702,736	15,574,434	66.30%
		Others	8,871,698		
	2G	WAP	1,160	826,845	3.52%
		GPRS	95,609		
Others		730,076			
Total number of mobile SMS sent (2G,3G,4G included) :					354,717 (000s)
Total number of mobile MMS sent (2G,3G,4G included) :					857 (000s)
Mar. 2016					
Service			Subscribers		Subscribers per 100 people (%)
			Sub-total	Total	
Fixed Network	Local telephone		11,847,715		50.42%
Mobile Network	4G	Data-enable	13,456,285	13,456,349	57.27%
		Others	64		
	3G	Data-enable	6,314,232	14,963,325	63.68%
		Others	8,649,093		
	2G	WAP	1,078	772,800	3.29%
		GPRS	86,896		
Others		684,823			
Total number of mobile SMS sent (2G,3G,4G included) :					333,513 (000s)
Total number of mobile MMS sent (2G,3G,4G included) :					841 (000s)

Apr. 2016					
Service			Subscribers		Subscribers per 100 people (%)
			Sub-total	Total	
Fixed Network	Local telephone		11,830,251		50.34%
Mobile Network	4G	Data-enable	14,038,858	14,038,929	59.74%
		Others	71		
	3G	Data-enable	5,947,789	14,387,538	61.23%
		Others	8,439,749		
	2G	WAP	1,042	712,636	3.03%
		GPRS	84,715		
Others		626,879			
Total number of mobile SMS sent (2G,3G,4G included) :					338,596 (000s)
Total number of mobile MMS sent (2G,3G,4G included) :					870 (000s)
May. 2016					
Service			Subscribers		Subscribers per 100 people (%)
			Sub-total	Total	
Fixed Network	Local telephone		11,816,256		50.27%
Mobile Network	4G	Data-enable	14,640,537	14,640,609	62.29%
		Others	72		
	3G	Data-enable	5,601,711	13,801,433	58.72%
		Others	8,199,722		
	2G	WAP	1,005	625,091	2.66%
		GPRS	76,351		
Others		547,735			
Total number of mobile SMS sent (2G,3G,4G included) :					344,121 (000s)
Total number of mobile MMS sent (2G,3G,4G included) :					871 (000s)
Jun. 2016					
Service			Subscribers		Subscribers per 100 people (%)
			Sub-total	Total	
Fixed Network	Local telephone		11,807,130		50.23%
Mobile Network	4G	Data-enable	15,196,716	15,196,789	64.64%
		Others	73		
	3G	Data-enable	5,292,877	13,284,643	56.51%
		Others	7,991,766		
	2G	WAP	964	562,549	2.39%
		GPRS	70,490		
Others		491,095			
Total number of mobile SMS sent (2G,3G,4G included) :					341,574 (000s)
Total number of mobile MMS sent (2G,3G,4G included) :					917 (000s)

Jul . 2016					
Service			Subscribers		Subscribers per 100 people (%)
			Sub-total	Total	
Fixed Network	Local telephone		11,790,384		50.14%
Mobile Network	4G	Data-enable	15,676,195	15,676,268	66.66%
		Others	73		
	3G	Data-enable	4,991,156	12,811,903	54.48%
		Others	7,820,747		
	2G	WAP	940	535,648	2.27%
		GPRS	66,735		
		Others	467,673		
Total number of mobile SMS sent (2G,3G,4G included) :					342,852 (000s)
Total number of mobile MMS sent (2G,3G,4G included) :					979 (000s)
Aug. 2016					
Service			Subscribers		Subscribers per 100 people (%)
			Sub-total	Total	
Fixed Network	Local telephone		11,762,969		50.02%
Mobile Network	4G	Data-enable	16,230,159	16,230,159	69.01%
		Others	73		
	3G	Data-enable	4,676,096	12,255,141	52.11%
		Others	7,579,045		
	2G	WAP	920	512,301	2.17%
		GPRS	61,770		
		Others	449,611		
Total number of mobile SMS sent (2G,3G,4G included) :					350,192 (000s)
Total number of mobile MMS sent (2G,3G,4G included) :					871 (000s)
Sep. 2016					
Service			Subscribers		Subscribers per 100 people (%)
			Sub-total	Total	
Fixed Network	Local telephone		11,748,556		49.95%
Mobile Network	4G	Data-enable	16,725,549	16,725,622	71.11%
		Others	73		
	3G	Data-enable	4,398,861	11,770,941	49.78%
		Others	7,372,080		
	2G	WAP	914	492,306	2.09%
		GPRS	58,606		
		Others	432,786		
Total number of mobile SMS sent (2G,3G,4G included) :					347,496 (000s)
Total number of mobile MMS sent (2G,3G,4G included) :					921 (000s)

Oct. 2016					
Service			Subscribers		Subscribers per 100 people (%)
			Sub-total	Sub-total	
Fixed Network	Local telephone		11,733,585		49.87%
Mobile Network	4G	Data-enable	17,197,793	17,197,866	73.10%
		Others	73		
	3G	Data-enable	4,108,352	11,306,101	48.06%
		Others	7,197,749		
	2G	WAP	893	466,930	1.98%
		GPRS	53,569		
Others		412,468			
Total number of mobile SMS sent (2G,3G,4G included) :					339,135 (000s)
Total number of mobile MMS sent (2G,3G,4G included) :					923 (000s)
Nov. 2016					
Service			Subscribers		Subscribers per 100 people (%)
			Sub-total	Sub-total	
Fixed Network	Local telephone		11,715,721		49.79%
Mobile Network	4G	Data-enable	17,634,960	17,635,033	74.94%
		Others	73		
	3G	Data-enable	3,888,649	10,878,842	46.23%
		Others	6,990,193		
	2G	WAP	868	432,391	1.84%
		GPRS	46,872		
Others		384,651			
Total number of mobile SMS sent (2G,3G,4G included) :					334,634 (000s)
Total number of mobile MMS sent (2G,3G,4G included) :					945 (000s)
Dec. 2016					
Service			Subscribers		Subscribers per 100 people (%)
			Sub-total	Sub-total	
Fixed Network	Local telephone		11,695,027		49.68%
Mobile Network	4G	Data-enable	18,066,953	18,067,037	76.75%
		Others	84		
	3G	Data-enable	3,692,224	10,465,116	44.46%
		Others	6,772,892		
	2G	WAP	857	396,434	1.68%
		GPRS	44,447		
Others		351,130			
Total number of mobile SMS sent (2G,3G,4G included) :					359,257 (000s)
Total number of mobile MMS sent (2G,3G,4G included) :					952 (000s)
Note : GPRS : General Packet Radio Service ◦					

(5) Latest Numbers of Shared Stations and Co-constructed Stations of Mobile Telecommunications

	2G		3G		4G	
Year-Quarter	Shared stations	Co-constructed stations	Shared stations	Co-constructed stations	Shared stations	Co-constructed stations
2016-Q1	75.6%	29.9%	76.4%	30.1%	72.4%	32.2%
2016-Q2	75.9%	30.1%	74.8%	31.0%	71.0%	32.7%
2016-Q3	76.0%	30.2%	74.3%	30.4%	69.7%	34.3%
2016-Q4	75.9%	30.1%	74.9%	32.8%	69.2%	34.7%

(6) Accumulative Table of Enforcement Performance of Telecom police Unit (Jan-Dec 2016)

Illegal Telecom Case					
Case	Cases	Sets	Individuals	Stations	Telecom numbers
Total	4	0	6	0	1418
Crack down on illegal radio stations	0	0	0	0	0
Fraudulent use of mobile phone number	4	0	6	0	1418
Unauthorized access or use of telecom facilities	0	0	0	0	0
Crack down on illegal radio-frequency devices	0	0	0	0	0

(7) Spam mails blocked for the month of Jan- Dec 2016

	Jan. 16	Month on Month	Feb. 16	Month on Month	Mar. 16	Month on Month
Incoming E-Mails (IAPs*)	1,410,961,379	11%	1,028,058,803	-27.1%	2,089,840,335	103.3%
Blocked E-Mails(IAPs*)	1,256,609,573	13.8%	893,812,965	-28.9%	1,924,377,549	115.3%
Spam reports filed by IAP users	82,032	130.2%	58,455	-28.7%	92,194	57.7%
	Apr. 16	Month on Month	May 16	Month on Month	Jun. 16	Month on Month
Incoming E-Mails (IAPs*)	1,581,650,754	-24.32%	1,570,021,462	-0.74%	1,492,525,571	-4.94%
Blocked E-Mails(IAPs*)	1,418,818,843	-26.27%	1,402,315,148	-1.16%	1,316,329,128	-6.13%
Spam reports filed by IAP users	44,851	-51.39%	38,096	-15.06%	53,389	40.14%

	Jul. 16	Month on Month	Aug. 16	Month on Month	Sep. 16	Month on Month
Incoming E-Mails (IAPs*)	1,551,173,938	3.93%	1,674,106,568	7.93%	1,603,540,177	-4.22%
Blocked E-Mails(IAPs*)	1,373,533,879	4.35%	1,456,842,958	6.07%	1,397,507,249	-4.07%
Spam reports filed by IAP users	32,292	-39.52%	34,765	7.66%	43,155	24.13%
	Oct. 16	Month on Month	Nov. 16	Month on Month	Dec. 16	Month on Month
Incoming E-Mails (IAPs*)	1,619,529,625	1.00%	1,718,167,043	6.09%	1,805,630,483	5.09%
Blocked E-Mails(IAPs*)	1,407,437,433	0.71%	1,497,443,895	6.40%	1,581,635,433	5.62%
Spam reports filed by IAP users	48,320	11.97%	44,846	-7.19%	39,591	-11.72%