

2018 Circuit Capacity Data For U.S.-International Submarine Cables

- Table 1 Section 43.82 Circuit Capacity Filers (2018)** – Entities that filed a cable operator and/or capacity holder report.
- Table 2 Number of Reports Filed By Submarine Cable Operators (2018)**
- Table 3 Submarine Cable Operator Reports (in Gbps) (2018/2020)** – Information on available and planned capacity data for each U.S.-international submarine cable on an individual and regional basis.
- Table 4 Submarine Cable Operator Capacity Trend Data (in Gbps)** – Detailed capacity trend data for each U.S.-international submarine cable.
- Table 5 Submarine Cable Capacity Holder Reports by Region (2018)** – Information regarding capacity holder data (i.e., cable capacity leased or owned) on a regional basis.
- Table 6 Percentage of Total Available Capacity Reported (2018)** – Information regarding the capacity reported in the cable operator reports and owned capacity in the capacity holder reports on a regional basis.
- Attachment A** U.S.-International Submarine Cables – Landing Points by Region, Cable, and Foreign Landing Point as of December 31, 2018
- Attachment B** U.S.-International Submarine Cables – Landing Points by Region, Foreign Landing Point, and Cable as of December 31, 2018
- Attachment C** U.S.-International Submarine Cables – Landing Points by Number of Landing Points Per Country and Region and a Frequency Table Summarizing Foreign Landing Points Per Country as of December 31, 2018

Source: International Bureau, Federal Communications Commission

For definitions of terms and instructions on filing procedures, please refer to the [Filing Manual](#).

* This version includes updated submarine cable circuit capacity data that were submitted after the release of the 2018 data on September 5, 2019. Updated data are included in Tables 3, 4, 5, and 6. This version also corrects a formula error in Table 4 of the data (Compound Annual Growth Rate for 2007-2018) and released on September 5, 2019.

Table 1
Section 43.82 Circuit Capacity Filers (2018)

No.	Entities	Submarine Cable Operator	Submarine Cable Capacity Holder
1	America Europe Connect Licenses Limited	✓	✓
2	American Samoa Hawaii Cable, LLC	✓	✓
3	ANGOLA CABLES		✓
4	Antilles Crossing-St. Croix, Inc.	✓	✓
5	ARCOS-1 USA, Inc.	✓	✓
6	AST Telecom, LLC d/b/a Bluesky		✓
7	AT&T Corp.	✓	✓
8	Australia-Japan Cable (Guam) Limited	✓	✓
9	Bharti Airtel Limited		✓
10	Bharti Airtel (USA) Ltd.		✓
11	BIG		✓
12	BT Americas Inc.		✓
13	Cable and Wireless Americas Systems Inc.	✓	✓
14	Caribbean Crossings Ltd.	✓	✓
15	CAT Telecom Public Company Limited		✓
16	Cedar Cable Ltd.	✓	✓
17	CenturyLink Communications, LLC		✓
18	China Mobile International Limited		✓
19	China Telecom (Americas) Corporation		✓
20	China Telecommunications Corporation		✓
21	China Unicom Americas Operations Ltd		✓
22	China United Network Communications Group Company Limited		✓
23	Chunghwa Telecom Co., Ltd.		✓
24	Claro Chile, S.A.		✓
25	Columbus Networks USA, Inc.	✓	✓
26	Crown Castle Fiber LLC		✓
27	CWC New Cayman Ltd.	✓	✓
28	DOCOMO PACIFIC, INC.		✓
29	Edge Cable Holdings USA, LLC		✓
30	France Telecom Long Distance USA, LLC		✓
31	Global Caribbean Network	✓	✓
32	Global Transit 2 Limited		✓
33	Global Transit Ltd		✓
34	Globenet Cabos Sumarinos America, Inc.	✓	✓
35	Globe Telecom, Inc.		✓
36	GTI Corporation		✓
37	GTT Americas LLC	✓	✓
38	GU Holdings Inc.	✓	✓
39	Hawaiian Telcom Services Company, Inc.	✓	
40	Hawaiki Submarine Cable USA LLC	✓	✓
41	KDDI America, Inc.		✓
42	KT Corporation		✓
43	Latam Telecommunications, L.L.C.	✓	✓

No.	Entities	Submarine Cable Operator	Submarine Cable Capacity Holder
44	Ledcor Industries (USA) Inc.	✓	
45	Level 3 Communications, LLC	✓	✓
46	Marine Cable Corporation		✓
47	MCI Communications Corporation	✓	✓
48	Megaport (USA), Inc.		✓
49	Microsoft Infrastructure Group, LLC		✓
50	Microsoft Operations Pte Ltd	✓	✓
51	Network i2i Limited		✓
52	New Century InfoComm Tech Co., Ltd.		✓
53	NTT America, Inc.		✓
54	NTT Communications Corporation		✓
55	OPT Honotua Division (U.S.)	✓	✓
56	Orange Business Services U.S. Inc		✓
57	Pacific Carriage Ltd	✓	✓
58	PCCW Global, Inc.		✓
59	PC Landing Corp.	✓	✓
60	PLDT Inc.		✓
61	PLDT (US) Ltd.		✓
62	PPC 1 Limited	✓	✓
63	PREPA Networks, LLC		✓
64	PTI Pacifica Inc.		✓
65	PT Telekomunikasi Indonesia International		✓
66	Puerto Rico Telephone Company, Inc.		✓
67	Reliance Globalcom Limited	✓	✓
68	Rogers Communications Partnership		✓
69	Seabras 1 USA, LLC	✓	✓
70	Singapore Telecom USA, Inc.		✓
71	SMITCOMS, Inc.	✓	✓
72	Sprint Communications, Inc.	✓	✓
73	StarHub Ltd		✓
74	TA Resources N.V.		✓
75	Tata Communications (America) Inc.	✓	✓
76	TeleGuam Holdings, LLC		✓
77	Telekom Malaysia Bhd		✓
78	Telia Carrier U.S. Inc.		✓
79	Telstra Incorporated	✓	✓
80	Telxius Cable USA, Inc.	✓	✓
81	TI Sparkle North America, Inc.		✓
82	Truestone, LLC	✓	✓
83	T-Systems North America, Inc.		✓
84	VNPT		✓
85	Zayo Group, LLC		✓
Total		34	83

Table 2
Number of Reports Filed by Submarine Cable Operators (2018)

No.	Entities	Cable Reports
1	America Europe Connect Licenses Limited	1
2	American Samoa Hawaii Cable, LLC	1
3	Antilles Crossing-St. Croix, Inc.	1
4	ARCOS-1 USA, Inc.	1
5	AT&T Corp.	9
6	Australia-Japan Cable (Guam) Limited	1
7	Cable and Wireless Americas Systems Inc.	1
8	Caribbean Crossings Ltd.	1
9	Cedar Cable Ltd.	1
10	Columbus Networks USA, Inc.	1
11	CWC New Cayman Ltd.	1
12	Global Caribbean Network	1
13	Globenet Cabos Sumarinos America, Inc.	1
14	GTT Americas LLC	1
15	GU Holdings Inc.	3
16	Hawaiian Telcom Services Company, Inc.	1
17	Hawaiki Submarine Cable USA LLC	1
18	Latam Telecommunications, L.L.C.	1
19	Ledcor Industries (USA) Inc.	1
20	Level 3 Communications, LLC	4
21	MCI Communications Corporation	1
22	Microsoft Operations Pte Ltd.	1
23	OPT Honotua Division (U.S.)	1
24	Pacific Carriage Ltd	1
25	PC Landing Corp.	1
26	PPC 1 Limited	1
27	Reliance Globalcom Limited	1
28	Seabras 1 USA, LLC	1
29	SMITCOMS, Inc.	1
30	Sprint Communications, Inc.	2
31	Tata Communications (America) Inc.	2
32	Telstra Incorporated	1
33	Telxius Cable USA, Inc.	4
34	Truestone, LLC	1
Total		52

Table 3
Submarine Cable Operator Reports (in Gbps) (2018/2020)

No.	Cable System	Available Capacity as of 12/31/2018	Planned Capacity as of 12/31/2020
	Americas Region		
1	América Móvil Submarine Cable System (AMX1)	5,790.0	6,290.0
2	AmeriCan-1	*	*
3	Americas II	5,070.0	5,070.0
4	Antillas 1	302.5	302.5
5	Antilles Crossing	*	*
6	ARCOS-1	*	*
7	Bahamas Internet Cable Network (BICS)	469.0	569.0
8	BAHAMAS II	100.0	100.0
9	BRUSA	*	*
10	Challenger Bermuda (CB-1)	*	*
11	Colombia-Florida Subsea Fiber (CFX-1)	*	*
12	Gemini Bermuda System	*	*
13	Global Caribbean Network (GCN)	140.0	260.0
14	GlobeNet	*	*
15	Maya-1	*	*
16	Monet Cable System	*	*
17	Pacific Caribbean Cable System (PCCS)	*	*
18	Pan American Cable System	140.0	140.0
19	Pan American Crossing (PAC) Cable System	*	*
20	Saint Maarten Puerto Rico Network One (SMPR-1)	*	*
21	Seabras-1	*	*
22	South America-1 (SAM-1)	*	*
23	South American Crossing (SAC)	*	*
24	Taino-Carib	40,400.0	40,400.0
	Total Americas Region:	503,847.0	517,267.0
	Atlantic Region		
1	AEConnect Cable Network	*	*
2	Apollo Cable	*	*
3	Atlantic Crossing (AC-1)	*	*
4	Columbus III	600.0	600.0
5	FLAG Atlantic-1	10,260.0	13,060.0
6	GTT Atlantic	13,800.0	13,800.0
7	Marea Cable	*	*
8	TAT-14	*	*
9	TGN-Atlantic	*	*
10	Yellow	*	*
	Total Atlantic Region:	332,440.0	397,900.0

No.	Cable System	Available Capacity as of 12/31/2018	Planned Capacity as of 12/31/2020
	Pacific Region		
1	American Samoa Hawaii Cable	*	*
2	Asia America Gateway (AAG)	15,000.0	15,000.0
3	Australia-Japan Cable (Guam)	*	*
4	FASTER Cable System	*	*
5	GOKI	100.0	100.0
6	HANTRU1	*	*
7	Hawaiki Cable System	*	*
8	Honotua Cable System	40.0	40.0
9	Japan-U.S. Cable Network	20,800.0	20,800.0
10	New Cross-Pacific (NCP)	*	*
11	Pacific Crossing-1 (PC-1)	*	*
12	PIPE Pacific Cable-1 (PPC-1)	*	*
13	Southeast Asia-US System (SEA-US)	*	*
14	Southern Cross Cable Network	*	*
15	Telstra Endeavour	*	*
16	TGN-Pacific	*	*
17	Trans-Pacific Express (TPE) Cable System	6,610.0	6,610.0
18	Unity Cable System	*	*
	Total Pacific Region:	290,521.2	308,471.2
	All Regions		
	Americas	503,847 (44.7%)	517,267 (42.3%)
	Atlantic	332,440 (29.5%)	397,900 (32.5%)
	Pacific	290,521.2 (25.8%)	308,471.2 (25.2%)
	Total	1,126,808.2 (100.0%)	1,223,638.2 (100.0%)

* Filer requested confidential treatment of its Submarine Cable Operator Report data.

Table 4
Submarine Cable Operator Capacity Trend Data (in Gbps)

CABLES	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Planned 2020
AMERICAS REGION													
América Móvil Submarine Cable System (AMX1)								1,640	2,800	4,660	5,720	5,790.0	6,290.0
AmeriCan-1	159.3	159.3	159.3	159.3	159.3	159.3	159.3	1,163	1,167.5	1,467.5	*	*	*
Americas II	80	80	80	520	780	820	850	850	920	960	1,070	5,070.0	5,070.0
Antillas 1	5	5	10	20	20	60	60	90	90	90	90	302.5	302.5
Antilles Crossing	30	20	20	20	30	30	40	80	*	320	320	*	*
ARCOS-1	80	120	210	240	290	350	450	1,468	*	*	*	*	*
Bahamas Internet Cable Network (BICS)	12.5	12.5	12.5	22.5	22.5	20	40	60	60	100	278	469.0	569.0
BAHAMAS II	2.5	2.5	2.5	2.5	2.5	60	60	60	60	60	60	100.0	100.0
BRUSA												*	*
Challenger Bermuda (CB-1)		20	20	20	20	20	20	20	*	*	*	*	*
Colombia-Florida Subsea Fiber (CFX-1)		100	110	500	560	610	1,040	1,580	*	*	*	*	*
Gemini Bermuda System		40	40	70	80	80	140	160	*	*	*	*	*
Global Caribbean Network (GCN)	20	20	20	20	40	40	40	60	70	*	140	140.0	260.0
GlobeNet	80	140	720	720	2,080	2,080	2,400	2,400	*	*	*	*	*
Maya-1	65	145	145	145	145	145	145	980	*	*	*	*	*
Monet Cable System												*	*
Pacific Caribbean Cable System (PCCS)									950	*	5,470	*	*
Pan American Cable System	5	5	5.0	140	140	140	140	140	140	140	140	140.0	140.0
Pan American Crossing (PAC) Cable System	50	65	95	150	310	460	790	800	*	*	*	*	*
Saint Maarten Puerto Rico Network One (SMPR-1)	2.5	2.5	2.5	2.5	2.6	3	3	10	10	*	10	*	*
Seabras-1											*	*	*
South America-1 (SAM-1)	160	440	960	1,300	1,700	2,100	2,700	4,400	5,100	*	12,250	*	*
South American Crossing (SAC)	200	200	320	530	620	935	1,600	4,260	*	*	*	*	*
Taino-Carib	1.9	1.9	1.9	70	70	70	110	110	110	120	120	40,400.0	40,400.0
Total	953.6	1,578.6	2,933.6	4,651.8	7,071.9	8,181.9	10,787.4	20,331	28,057.5	42,347.5	169,355.5	503,847.0	517,267.0
ATLANTIC REGION													
AEConnect Cable Network									*	*	*	*	*
Apollo Cable	1,280	2,280	2,860	3,100	3,150	3,420	3,510	6,100	*	*	*	*	*
Atlantic Crossing (AC-1)	635	815	1,165	1,455	1,500	1,760	2,100	2,350	*	*	*	*	*
Columbus III	40	40	160	160	160	160	160	160	160	160	160	600.0	600.0
FLAG Atlantic -1	1,240	1,480	1,640	2,200	2,280	2,830	3,560	4,430	6,130	*	*	10,260.0	13,060.0
GTT Atlantic	360	360	360	360	2,000	2,750	3,750	14,400	*	*	*	13,800.0	13,800.0
Marea Cable												*	*
TAT-14	1,280	1,280	1,870	1,870	1,870	2,250	2,990	4,420	*	*	*	*	*
TGN-Atlantic	460	1,040	1,460	1,560	1,770	2,810	3,010	3,150	6,310	*	*	*	*
Yellow	320	500	900	1,780	1,780	1,860	1,750	3,420	*	*	*	*	*
Total	5,615	7,795	10,415	12,485	14,510	17,840	20,830	38,430	47,920	137,160	149,780	332,440.0	397,900.0
PACIFIC REGION													
American Samoa Hawaii Cable			1	1	1	1	1	1	1.2	*	*	*	*
Asia America Gateway (AAG)			540	540	580	1,540	1,540	2,180	4,210	6,610	8,100	15,000.0	15,000.0
Australia-Japan Cable (Guam)	160	520	520	520	640	1,200	1,480	1,760	*	*	*	*	*
FASTER Cable System												*	*
GOKI											10	100.0	100.0
HANTRU1				40	40	40	40	20	*	*	*	*	*
Hawaiki Cable System												*	*
Honotua Cable System				20	20	20	20	20	40	**	40	40.0	40.0
Japan-U.S. Cable Network	800	1,900	2,180	2,300	2,500	2,530	4,630	5,380	6,850	7,240	8,000	20,800.0	20,800.0
New Cross-Pacific (NCP)												*	*
Pacific Crossing-1 (PC-1)	360	960	1,030	1,430	1,800	1,800	2,900	2,780	*	*	*	*	*
PIPE Pacific Cable-1 (PPC-1)			140	140	140	140	140	700	*	*	1,250	*	*
Southeast Asia-US System (SEA-US)												*	*
Southern Cross Cable Network	480	860	860	1,240	1,240	1,640	2,700	3,500	*	*	*	*	*
Telstra Endeavour		80	80	160	300	300	600	580	*	*	*	*	*
TGN-Pacific	1,880	2,760	3,140	3,140	3,140	3,660	4,350	5,520	6,430	*	*	*	*
Trans-Pacific Express (TPE) Cable System		1,280	1,280	1,870	1,870	2,040	2,200	2,200	2,200	3,230	5,680	6,610.0	6,610.0
Unity Cable System				2,380	2,380	2,700	4,020	7,220	*	*	*	*	*
Total	3,840	8,520	9,931	13,941	14,811	17,771	24,781	32,021	43,783	95,894	116,544	290,521.2	308,471.2
REGIONAL CAPACITY													
Americas	953.6	1,578.6	2,933.6	4,651.8	7,071.9	8,181.9	10,787.4	20,331	28,057.5	42,347.5	169,355.5	503,847.0	517,267.0
Atlantic	6,015	8,195	10,815	12,885	15,640	19,090	22,580	38,430	47,920	137,160	149,780	332,440.0	397,900.0
Pacific	3,840	8,520	9,931	13,941	14,811	17,771	24,781	32,021	43,783	95,894	116,544	290,521.2	308,471.2
Total	10,809	18,294	23,680	31,478	37,523	45,043	58,148	90,782	119,761	275,401.5	435,680	1,126,808.2	1,223,638.2
NUMBER OF CABLES IN SERVICE													
Americas	16	19	19	19	19	19	19	20	21	21	22	24	
Atlantic	8	8	8	8	8	8	8	8	8	9	9	10	
Pacific	6	8	11	14	14	14	14	14	14	14	16	18	
Total	30	35	38	41	41	41	41	42	44	44	47	52	
GROWTH RATE RELATIVE TO PREVIOUS YEAR													
Americas		65.5%	85.8%	58.6%	52.0%	15.7%	31.8%	88.5%	38.0%	50.9%	299.9%	197.5%	
Atlantic		36.2%	32.0%	19.1%	21.4%	22.1%	18.3%	70.2%	24.7%	186.2%	9.2%	122.0%	
Pacific		121.9%	16.6%	40.4%	6.2%	20.0%	39.4%	29.2%	36.7%	119.0%	21.5%	149.3%	
Total		69.3%	29.4%	32.9%	19.2%	20.0%	29.1%	56.1%	31.9%	130.0%	58.2%	158.6%	

CABLES	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Planned 2020
COMPOUND ANNUAL GROWTH RATE FOR 2007-2018													
Americas	76.8%												
Atlantic	44.0%												
Pacific	48.2%												
Total	52.6%												
FORECAST COMPOUND ANNUAL GROWTH RATE (2018-2020)													
Americas	1.3%												
Atlantic	9.4%												
Pacific	3.0%												
Total	4.2%												
<p>* Filer requested confidential treatment of its Submarine Cable Operator Report data.</p> <p>We note that: (1) data as of 2007 to 2013 were extracted from the 2013 Section 43.82 Circuit Status Data Report; (2) cables that are no longer in operation are not listed in this table; and (3) on December 28, 2018, the International Bureau released a revised Filing Manual and clarified the definition of "available capacity," "also known as design capacity, is all of the capacity (both lit and unlit capacity) on the cable as of the reporting date (December 31 of the reporting period)." <i>International Bureau Releases Revised Filing Manual for Section 43.82 Circuit Capacity Reports</i>, Public Notice, 33 FCC Rd 12517 (2018); Filing Manual at 6, para. 26.</p>													

Table 5
Submarine Cable Capacity Holder Reports by Region (2018)

Capacity Holders in STM-1 Units*						
Region	Owned Capacity	Net IRUs	Net Inter-Carrier Leaseholds	Net Capacity Held	Activated Capacity	Non-Activated Capacity
	(a)	(b)	(c)	(d)=(a)+(b)+(c)-(e)+(f)	(e)	(f)
Americas	2,487,007.3	-527,515.2	-92,108.3	1,867,383.8	321,246.9	1,546,136.9
Atlantic	1,994,733.9	-361,101.5	160,877.8	1,794,510.2	716,210.5	1,078,299.7
Pacific	1,438,991.9	88,836.7	61,195.0	1,589,023.6	759,443.9	829,579.7
Total	5,920,733.1	-799,780.0	129,964.5	5,250,917.6	1,796,901.3	3,454,016.3
Capacity Holders in Gbps Units						
Conversion Ratio: 1 Gbps = 6.4 STM-1s						
Region	Owned Capacity	Net Capacity Held	Activated	Non-Activated	Activated %	Non-Activated %
Americas	388,594.9	291,778.7	50,194.8	241,583.9	17.2%	82.8%
Atlantic	311,677.2	280,392.2	111,907.9	168,484.3	39.9%	60.1%
Pacific	224,842.5	248,284.9	118,663.1	129,621.8	47.8%	52.2%
Total	925,114.5	820,455.9	280,765.8	539,690.0	34.2%	65.8%

* Capacity holder data are reported in STM-1 (Synchronous Transport Module level-1) units, the standard commercial unit for the sale and leasing of capacity.

Table 6
Percentage of Total Available Capacity Reported (2018)

Region	Submarine Cable Operator Reports (Gbps) (Available Capacity)	Submarine Cable Capacity Holder Reports (Gbps) (Owned Capacity)	Discrepancy	Percent Captured by Holder Reports	Percent Not Captured by Holder Reports
Americas	503,847.0	388,594.9	115,252.1	77.1%	22.9%
Atlantic	332,440.0	311,677.2	20,762.8	93.8%	6.2%
Pacific	290,521.2	224,842.5	65,678.7	77.4%	22.6%
Total	1,126,808.2	925,114.5	201,693.7	82.1%	17.9%

Attachment A
U.S.-International Submarine Cables – Landing Points
by Region, Cable, and Foreign Landing Point as of December 31, 2018

No.	Region	Cable Name	Foreign Landing Point
1	Americas	América Móvil Submarine Cable System (AMX1)	Brazil
2	Americas	América Móvil Submarine Cable System (AMX1)	Colombia
3	Americas	América Móvil Submarine Cable System (AMX1)	Dominican Republic
4	Americas	América Móvil Submarine Cable System (AMX1)	Guatemala
5	Americas	América Móvil Submarine Cable System (AMX1)	Mexico
6	Americas	AmeriCan-1	Canada
7	Americas	Americas II	Brazil
8	Americas	Americas II	Curacao
9	Americas	Americas II	French Guiana
10	Americas	Americas II	Martinique
11	Americas	Americas II	Trinidad and Tobago
12	Americas	Americas II	Venezuela
13	Americas	Antillas 1	Dominican Republic
14	Americas	Antilles Crossing	Barbados
15	Americas	Antilles Crossing	Saint Lucia
16	Americas	ARCOS-1	Bahamas
17	Americas	ARCOS-1	Belize
18	Americas	ARCOS-1	Colombia
19	Americas	ARCOS-1	Costa Rica
20	Americas	ARCOS-1	Curacao
21	Americas	ARCOS-1	Dominican Republic
22	Americas	ARCOS-1	Guatemala
23	Americas	ARCOS-1	Honduras
24	Americas	ARCOS-1	Mexico
25	Americas	ARCOS-1	Nicaragua
26	Americas	ARCOS-1	Panama
27	Americas	ARCOS-1	Turks and Caicos Islands
28	Americas	ARCOS-1	Venezuela
29	Americas	Bahamas Internet Cable Network (BICS)	Bahamas
30	Americas	BAHAMAS II	Bahamas
31	Americas	BRUSA	Brazil
32	Americas	Challenger Bermuda (CB-1)	Bermuda
33	Americas	Colombia-Florida Subsea Fiber (CFX-1)	Colombia
34	Americas	Colombia-Florida Subsea Fiber (CFX-1)	Jamaica
35	Americas	Crosslake Fibre	Canada
36	Americas	Gemini Bermuda System	Bermuda
37	Americas	Global Caribbean Network (GCN)	Guadeloupe
38	Americas	Global Caribbean Network (GCN)	Saint Barthelemy
39	Americas	Global Caribbean Network (GCN)	Saint Martin
40	Americas	GlobeNet	Bermuda
41	Americas	GlobeNet	Brazil
42	Americas	GlobeNet	Colombia
43	Americas	GlobeNet	Venezuela
44	Americas	Maya-1	Cayman Islands
45	Americas	Maya-1	Colombia
46	Americas	Maya-1	Costa Rica
47	Americas	Maya-1	Honduras
48	Americas	Maya-1	Mexico
49	Americas	Maya-1	Panama
50	Americas	Monet Cable System	Brazil
51	Americas	Pacific Caribbean Cable System (PCCS)	Aruba
52	Americas	Pacific Caribbean Cable System (PCCS)	British Virgin Islands
53	Americas	Pacific Caribbean Cable System (PCCS)	Colombia

Attachment A
U.S.-International Submarine Cables – Landing Points
by Region, Cable, and Foreign Landing Point as of December 31, 2018

No.	Region	Cable Name	Foreign Landing Point
54	Americas	Pacific Caribbean Cable System (PCCS)	Ecuador
55	Americas	Pacific Caribbean Cable System (PCCS)	Panama
56	Americas	Pan American Cable System	Aruba
57	Americas	Pan American Cable System	Chile
58	Americas	Pan American Cable System	Colombia
59	Americas	Pan American Cable System	Ecuador
60	Americas	Pan American Cable System	Panama
61	Americas	Pan American Cable System	Peru
62	Americas	Pan American Cable System	Venezuela
63	Americas	Pan American Crossing (PAC) Cable System	Costa Rica
64	Americas	Pan American Crossing (PAC) Cable System	Mexico
65	Americas	Pan American Crossing (PAC) Cable System	Panama
66	Americas	Pan American Crossing (PAC) Cable System	Venezuela
67	Americas	Saint Maarten Puerto Rico Network One (SMPR-1)	Sint Maarten
68	Americas	Seabras-1	Brazil
69	Americas	South America-1 (SAm-1)	Argentina
70	Americas	South America-1 (SAm-1)	Brazil
71	Americas	South America-1 (SAm-1)	Chile
72	Americas	South America-1 (SAm-1)	Colombia
73	Americas	South America-1 (SAm-1)	Ecuador
74	Americas	South America-1 (SAm-1)	Guatemala
75	Americas	South America-1 (SAm-1)	Peru
76	Americas	South American Crossing (SAC)	Argentina
77	Americas	South American Crossing (SAC)	Brazil
78	Americas	South American Crossing (SAC)	Chile
79	Americas	South American Crossing (SAC)	Colombia
80	Americas	South American Crossing (SAC)	Panama
81	Americas	South American Crossing (SAC)	Peru
82	Americas	Taino-Carib	British Virgin Islands

No.	Region	Cable Name	Foreign Landing Point
1	Atlantic	AEConnect Cable Network	Iceland
2	Atlantic	AEConnect Cable Network	Ireland
3	Atlantic	Apollo Cable	France
4	Atlantic	Apollo Cable	United Kingdom
5	Atlantic	Atlantic Crossing (AC-1)	Germany
6	Atlantic	Atlantic Crossing (AC-1)	Netherlands
7	Atlantic	Atlantic Crossing (AC-1)	United Kingdom
8	Atlantic	Columbus III	Italy
9	Atlantic	Columbus III	Portugal
10	Atlantic	Columbus III	Spain
11	Atlantic	FLAG Atlantic-1	France
12	Atlantic	FLAG Atlantic-1	United Kingdom
13	Atlantic	GTT Atlantic	Canada
14	Atlantic	GTT Atlantic	Ireland
15	Atlantic	GTT Atlantic	United Kingdom
16	Atlantic	Marea Cable	Spain
17	Atlantic	TAT-14	Denmark
18	Atlantic	TAT-14	France
19	Atlantic	TAT-14	Germany
20	Atlantic	TAT-14	Netherlands
21	Atlantic	TAT-14	United Kingdom

Attachment A
U.S.-International Submarine Cables – Landing Points
by Region, Cable, and Foreign Landing Point as of December 31, 2018

No.	Region	Cable Name	Foreign Landing Point
22	Atlantic	TGN-Atlantic	United Kingdom
23	Atlantic	Yellow	United Kingdom

No.	Region	Cable Name	Foreign Landing Point
1	Pacific	American Samoa Hawaii Cable	Samoa
2	Pacific	Asia America Gateway (AAG)	Brunei
3	Pacific	Asia America Gateway (AAG)	Hong Kong
4	Pacific	Asia America Gateway (AAG)	Malaysia
5	Pacific	Asia America Gateway (AAG)	Philippines
6	Pacific	Asia America Gateway (AAG)	Singapore
7	Pacific	Asia America Gateway (AAG)	Thailand
8	Pacific	Asia America Gateway (AAG)	Vietnam
9	Pacific	Australia-Japan Cable (Guam)	Australia
10	Pacific	Australia-Japan Cable (Guam)	Japan
11	Pacific	FASTER Cable System	Japan
12	Pacific	FASTER Cable System	Taiwan
13	Pacific	GOKI	Japan
14	Pacific	HANTRUI	Federated States of Micronesia
15	Pacific	HANTRUI	Republic of the Marshall Islands
16	Pacific	Hawaiki Cable System	Australia
17	Pacific	Hawaiki Cable System	New Zealand
18	Pacific	Honotua Cable System	French Polynesia
19	Pacific	Japan-U.S. Cable Network	Japan
20	Pacific	New Cross-Pacific (NCP)	China
21	Pacific	New Cross-Pacific (NCP)	Japan
22	Pacific	New Cross-Pacific (NCP)	South Korea
23	Pacific	New Cross-Pacific (NCP)	Taiwan
24	Pacific	Pacific Crossing-1 (PC-1)	Japan
25	Pacific	PIPE Pacific Cable-1 (PPC 1)	Australia
26	Pacific	PIPE Pacific Cable-1 (PPC 1)	Papua New Guinea
27	Pacific	Southeast Asia-US System (SEA-US)	Indonesia
28	Pacific	Southeast Asia-US System (SEA-US)	Philippines
29	Pacific	Southern Cross Cable Network	Australia
30	Pacific	Southern Cross Cable Network	Fiji
31	Pacific	Southern Cross Cable Network	New Zealand
32	Pacific	Telstra Endeavour	Australia
33	Pacific	TGN-Pacific	Japan
34	Pacific	Trans-Pacific Express (TPE) Cable System	China
35	Pacific	Trans-Pacific Express (TPE) Cable System	Japan
36	Pacific	Trans-Pacific Express (TPE) Cable System	South Korea
37	Pacific	Trans-Pacific Express (TPE) Cable System	Taiwan
38	Pacific	Unity Cable System	Japan
143	Total Landing Points		

Source: FCC records

Attachment B
U.S.-International Submarine Cables – Landing Points
by Region, Foreign Landing Point, and Cable as of December 31, 2018

No.	Region	Foreign Landing Point	Cable Name
1	Americas	Argentina	South America-1 (SAm-1)
2	Americas	Argentina	South American Crossing (SAC)
3	Americas	Aruba	Pacific Caribbean Cable System (PCCS)
4	Americas	Aruba	Pan American Cable System
5	Americas	Bahamas	ARCOS-1
6	Americas	Bahamas	Bahamas Internet Cable Network (BICS)
7	Americas	Bahamas	BAHAMAS II
8	Americas	Barbados	Antilles Crossing
9	Americas	Belize	ARCOS-1
10	Americas	Bermuda	Challenger Bermuda (CB-1)
11	Americas	Bermuda	Gemini Bermuda System
12	Americas	Bermuda	GlobeNet
13	Americas	Brazil	América Móvil Submarine Cable System (AMX1)
14	Americas	Brazil	Americas II
15	Americas	Brazil	BRUSA
16	Americas	Brazil	GlobeNet
17	Americas	Brazil	Monet Cable System
18	Americas	Brazil	Seabras-1
19	Americas	Brazil	South America-1 (SAm-1)
20	Americas	Brazil	South American Crossing (SAC)
21	Americas	British Virgin Islands	Pacific Caribbean Cable System (PCCS)
22	Americas	British Virgin Islands	Taino-Carib
23	Americas	Canada	AmeriCan-1
24	Americas	Canada	Crosslake Fibre
25	Americas	Cayman Islands	Maya-1
26	Americas	Chile	Pan American Cable System
27	Americas	Chile	South America-1 (SAm-1)
28	Americas	Chile	South American Crossing (SAC)
29	Americas	Colombia	América Móvil Submarine Cable System (AMX1)
30	Americas	Colombia	ARCOS-1
31	Americas	Colombia	Colombia-Florida Subsea Fiber (CFX-1)
32	Americas	Colombia	GlobeNet
33	Americas	Colombia	Maya-1
34	Americas	Colombia	Pacific Caribbean Cable System (PCCS)
35	Americas	Colombia	Pan American Cable System
36	Americas	Colombia	South America-1 (SAm-1)
37	Americas	Colombia	South American Crossing (SAC)
38	Americas	Costa Rica	ARCOS-1
39	Americas	Costa Rica	Maya-1
40	Americas	Costa Rica	Pan American Crossing (PAC) Cable System
41	Americas	Curaçao	Americas II
42	Americas	Curaçao	ARCOS-1
43	Americas	Dominican Republic	América Móvil Submarine Cable System (AMX1)
44	Americas	Dominican Republic	Antillas 1
45	Americas	Dominican Republic	ARCOS-1
46	Americas	Ecuador	Pacific Caribbean Cable System (PCCS)
47	Americas	Ecuador	Pan American Cable System
48	Americas	Ecuador	South America-1 (SAm-1)
49	Americas	French Guiana	Americas II
50	Americas	Guadeloupe	Global Caribbean Network (GCN)
51	Americas	Guatemala	América Móvil Submarine Cable System (AMX1)
52	Americas	Guatemala	ARCOS-1

Attachment B
U.S.-International Submarine Cables – Landing Points
by Region, Foreign Landing Point, and Cable as of December 31, 2018

No.	Region	Foreign Landing Point	Cable Name
53	Americas	Guatemala	South America-1 (SAM-1)
54	Americas	Honduras	ARCOS-1
55	Americas	Honduras	Maya-1
56	Americas	Jamaica	Colombia-Florida Subsea Fiber (CFX-1)
57	Americas	Martinique	Americas II
58	Americas	Mexico	América Móvil Submarine Cable System (AMX1)
59	Americas	Mexico	ARCOS-1
60	Americas	Mexico	Maya-1
61	Americas	Mexico	Pan American Crossing (PAC) Cable System
62	Americas	Nicaragua	ARCOS-1
63	Americas	Panama	ARCOS-1
64	Americas	Panama	Maya-1
65	Americas	Panama	Pacific Caribbean Cable System (PCCS)
66	Americas	Panama	Pan American Cable System
67	Americas	Panama	Pan American Crossing (PAC) Cable System
68	Americas	Panama	South American Crossing (SAC)
69	Americas	Peru	Pan American Cable System
70	Americas	Peru	South America-1 (SAM-1)
71	Americas	Peru	South American Crossing (SAC)
72	Americas	Saint Barthelemy	Global Caribbean Network (GCN)
73	Americas	Saint Lucia	Antilles Crossing
74	Americas	Saint Martin	Global Caribbean Network (GCN)
75	Americas	Sint Maarten	Saint Maarten Puerto Rico Network One (SMPR-1)
76	Americas	Trinidad and Tobago	Americas II
77	Americas	Turks and Caicos Islands	ARCOS-1
78	Americas	Venezuela	Americas II
79	Americas	Venezuela	ARCOS-1
80	Americas	Venezuela	GlobeNet
81	Americas	Venezuela	Pan American Cable System
82	Americas	Venezuela	Pan American Crossing (PAC) Cable System

No.	Region	Foreign Landing Point	Cable Name
1	Atlantic	Canada	GTT Atlantic
2	Atlantic	Denmark	TAT-14
3	Atlantic	France	Apollo Cable
4	Atlantic	France	FLAG Atlantic-1
5	Atlantic	France	TAT-14
6	Atlantic	Germany	Atlantic Crossing (AC-1)
7	Atlantic	Germany	TAT-14
8	Atlantic	Iceland	AEConnect Cable Network
9	Atlantic	Ireland	AEConnect Cable Network
10	Atlantic	Ireland	GTT Atlantic
11	Atlantic	Italy	Columbus III
12	Atlantic	Netherlands	Atlantic Crossing (AC-1)
13	Atlantic	Netherlands	TAT-14
14	Atlantic	Portugal	Columbus III
15	Atlantic	Spain	Columbus III
16	Atlantic	Spain	Marea Cable
17	Atlantic	United Kingdom	Apollo Cable
18	Atlantic	United Kingdom	Atlantic Crossing (AC-1)
19	Atlantic	United Kingdom	FLAG Atlantic-1
20	Atlantic	United Kingdom	GTT Atlantic

Attachment B
U.S.-International Submarine Cables – Landing Points
by Region, Foreign Landing Point, and Cable as of December 31, 2018

No.	Region	Foreign Landing Point	Cable Name
21	Atlantic	United Kingdom	Yellow
22	Atlantic	United Kingdom	TAT-14
23	Atlantic	United Kingdom	TGN-Atlantic

No.	Region	Foreign Landing Point	Cable Name
1	Pacific	Australia	Australia-Japan Cable (Guam)
2	Pacific	Australia	Hawaiki Cable System
3	Pacific	Australia	PIPE Pacific Cable-1 (PPC 1)
4	Pacific	Australia	Southern Cross Cable Network
5	Pacific	Australia	Telstra Endeavour
6	Pacific	Brunei	Asia America Gateway (AAG)
7	Pacific	China	New Cross-Pacific (NCP)
8	Pacific	China	Trans-Pacific Express (TPE) Cable System
9	Pacific	Federated States of Micronesia	HANTRU1
10	Pacific	Fiji	Southern Cross Cable Network
11	Pacific	French Polynesia	Honotua Cable System
12	Pacific	Hong Kong	Asia America Gateway (AAG)
13	Pacific	Indonesia	Southeast Asia-US System (SEA-US)
14	Pacific	Japan	Australia-Japan Cable (Guam)
15	Pacific	Japan	FASTER Cable System
16	Pacific	Japan	GOKI
17	Pacific	Japan	Japan-U.S. Cable Network
18	Pacific	Japan	New Cross-Pacific (NCP)
19	Pacific	Japan	Pacific Crossing-1 (PC-1)
20	Pacific	Japan	TGN-Pacific
21	Pacific	Japan	Trans-Pacific Express (TPE) Cable System
22	Pacific	Japan	Unity Cable System
23	Pacific	Malaysia	Asia America Gateway (AAG)
24	Pacific	New Zealand	Hawaiki Cable System
25	Pacific	New Zealand	Southern Cross Cable Network
26	Pacific	Papua New Guinea	PIPE Pacific Cable-1 (PPC 1)
27	Pacific	Philippines	Asia America Gateway (AAG)
28	Pacific	Philippines	Southeast Asia-US System (SEA-US)
29	Pacific	Republic of the Marshall Islands	HANTRU1
30	Pacific	Samoa	American Samoa Hawaii Cable
31	Pacific	Singapore	Asia America Gateway (AAG)
32	Pacific	South Korea	New Cross-Pacific (NCP)
33	Pacific	South Korea	Trans-Pacific Express (TPE) Cable System
34	Pacific	Taiwan	FASTER Cable System
35	Pacific	Taiwan	New Cross-Pacific (NCP)
36	Pacific	Taiwan	Trans-Pacific Express (TPE) Cable System
37	Pacific	Thailand	Asia America Gateway (AAG)
38	Pacific	Vietnam	Asia America Gateway (AAG)
143	Total Landing Points		

Source: FCC records

Attachment C
U.S.-International Submarine Cables – Landing Points
by Number of Landing Points Per Country and Region
as of December 31, 2018

No. of Landing Points Per Country	Country	Region
9	Colombia	Americas
9	Japan	Pacific
8	Brazil	Americas
7	United Kingdom	Atlantic
6	Panama	Americas
5	Australia	Pacific
5	Venezuela	Americas
4	Mexico	Americas
3	Bahamas	Americas
3	Bermuda	Americas
3	Chile	Americas
3	Costa Rica	Americas
3	Dominican Republic	Americas
3	Ecuador	Americas
3	France	Atlantic
3	Guatemala	Americas
3	Peru	Americas
3	Taiwan	Pacific
2	Argentina	Americas
2	Aruba	Americas
2	British Virgin Islands	Americas
2	Canada	Americas
2	China	Pacific
2	Curaçao	Americas
2	Germany	Atlantic
2	Honduras	Americas
2	Ireland	Atlantic
2	Netherlands	Atlantic
2	New Zealand	Pacific
2	South Korea	Pacific
2	Spain	Atlantic
2	Philippines	Pacific
1	Barbados	Americas
1	Belize	Americas
1	Brunei	Pacific
1	Canada	Atlantic
1	Cayman Islands	Americas
1	Denmark	Atlantic
1	Federated States of Micronesia	Pacific

No. of Landing Points Per Country	Country	Region
1	Fiji	Pacific
1	French Guiana	Americas
1	French Polynesia	Pacific
1	Guadeloupe	Americas
1	Hong Kong	Pacific
1	Iceland	Atlantic
1	Indonesia	Pacific
1	Italy	Atlantic
1	Jamaica	Americas
1	Malaysia	Pacific
1	Martinique	Americas
1	Nicaragua	Americas
1	Papua New Guinea	Pacific
1	Portugal	Atlantic
1	Republic of the Marshall Islands	Pacific
1	Saint Barthelemy	Americas
1	Saint Lucia	Americas
1	Saint Martin	Americas
1	Samoa	Pacific
1	Singapore	Pacific
1	Sint Maarten	Americas
1	Thailand	Pacific
1	Trinidad and Tobago	Americas
1	Turks and Caicos Islands	Americas
1	Vietnam	Pacific

Source: FCC Records

**Frequency Table
Summarizing Foreign Landing Points Per Country**

No. of Landing Points Per Country	Number of Countries Per Region		
	Americas	Atlantic	Pacific
1	14	5	13
2	6	4	4
3	8	1	1
4	1		
5	1		1
6	1		
7		1	
8	1		
9	1		1

Source: FCC Records